



Documentation

FlexxDesktop

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Getting Started

Recognized in Gartner® Magic Quadrant™ for DaaS*, the **FlexxDesktop** platform offers organizations support, analysis, monitoring, and automation of their virtualization infrastructure from the outset.

With centralized management for administrators and line managers to observe and act on devices in real-time, **FlexxDesktop** provides the ability to identify and resolve issues as they arise and enables automated solutions for the most common tasks. Reduce support hours, costs, and frustration.

FlexxDesktop is a SaaS platform that enables analysis, management, and monitoring of users' work devices, the infrastructure hosting them, as well as experience management. Among its tools, it includes the following modules:

- [Portal](#)
- [FlexxAgent](#)
- [Workspaces](#)
- [Analyzer](#)
- [Automate](#)
- [Monitor](#)

To start using **FlexxDesktop**, in addition to the subscription, the installation of [FlexxAgent](#) on physical or virtual user devices and the configuration of infrastructure elements or cloud service subscriptions that make up the session delivery infrastructure is required.

- Gartner, Magic Quadrant for Desktop as a Service, Stuart Downes, Craig Fister, Sunil Kumar, Eri Hariu, Mark Margevicius, Tony Harvey, September 5, 2023 GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the United States and internationally, and MAGIC QUADRANT is a registered trademark of Gartner, Inc. and/or its affiliates and is used herein with permission. All rights reserved. Gartner does not endorse any vendor, product, or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

Documentation in PDF

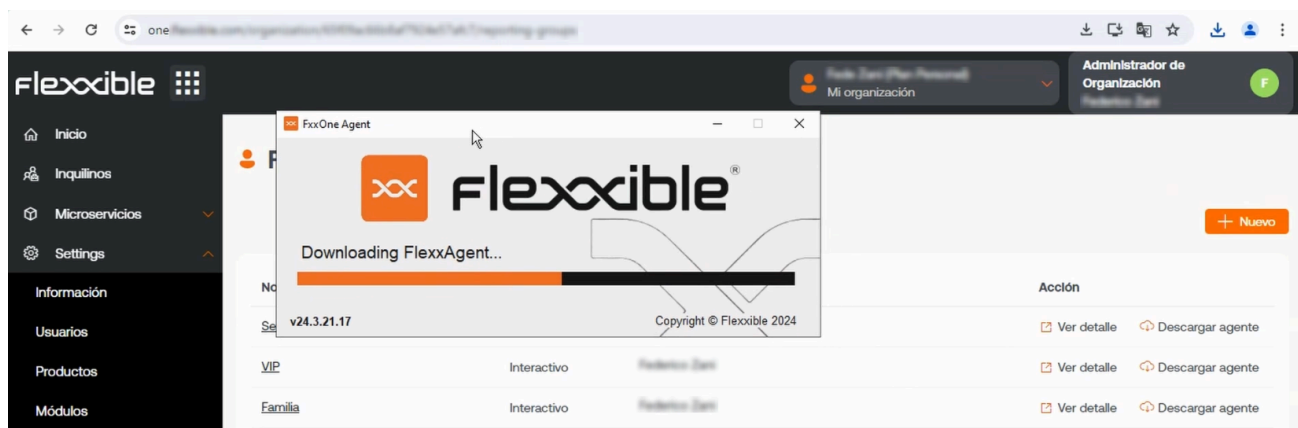
The FlexxDesktop documentation for this version can be downloaded [here](#) in PDF format.

The downloaded file is an export of the content of this website for the selected version as of the version's publication date. It is recommended to periodically check for new versions on this page.

FlexxAgent

FlexxAgent is the solution's local component, responsible for collecting information about devices and applications and sending it to the service's web consoles. It consists of a binary that, once installed, establishes encrypted and secure end-to-end communications, and is compatible with multiple operating systems including [Microsoft Windows](#), [Linux](#), [macOS](#), [ChromeOS](#) and [Android](#).

It is a mandatory component of the solution; therefore, FlexxAgent must be installed to view and manage a device on the consoles. It allows the execution of actions on demand remotely and automatically to improve the efficiency of support teams. It simplifies user self-service by enabling users to execute support actions autonomously without leaving the session.



FlexxAgent's tasks are diverse and crucial. It gathers data about device status, usage, and errors and reports on resource and application utilization. It performs self-healing actions and provides a secure remote support interface for users. This interface ensures that users can receive support without compromising their security. It also offers unattended access for administrators and can perform operations on devices, including powering them on over the network using Wake-On-LAN.

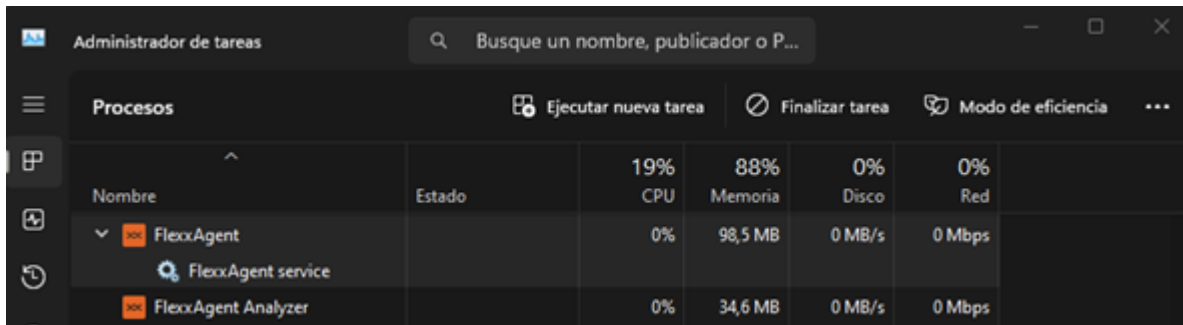
FlexxAgent / Supported Systems

The agent is available in the support cycle for the following operating systems.

- [Microsoft Windows](#)
- [Linux](#)
- [macOS](#)
- [ChromeOS](#)
- [Android](#)

FlexxAgent / Supported Systems / Windows

FlexxAgent supports 64-bit Windows operating systems; it cannot be installed on 32-bit systems. The installation binary is available with and without a graphical interface, making it fully compatible with unattended deployment mechanisms and the installation wizard.



The screenshot shows the Windows Task Manager 'Procesos' tab. It displays a table of running processes with columns for Name, State, CPU, Memory, Disk, and Network. The following table represents the data shown in the image:

Nombre	Estado	CPU	Memoria	Disco	Red
FlexxAgent		0%	98,5 MB	0 MB/s	0 Mbps
FlexxAgent service					
FlexxAgent Analyzer		0%	34,6 MB	0 MB/s	0 Mbps

FlexxAgent consists of a Windows service called FlexxAgent Service, which manages two processes: FlexxAgent (process), which runs at the system level, and FlexxAgent Analyzer (process), which starts for each user session.

This structure enables FlexxAgent to address multiple session devices, such as terminal servers, Citrix, or AVD, and acquire detailed metrics to enhance diagnostic capabilities.

For example, if a person is working on their laptop, the FlexxAgent process would run at the system level, and the FlexxAgent Analyzer would run from the user's identity. If the device hosts multiple user sessions, in addition to FlexxAgent at the system level, FlexxAgent Analyzer will run for each user session on that device.

In terms of resource requirements, FlexxAgent has very modest consumption, hovering around the following values:

- Disk space used: < 200 MB
- CPU: < 0.5%
- RAM: 100-200 MB

FlexxAgent Service (system)

- For resource consumption information, including performance counters, hardware, sessions, profiles, disks, partitions, and Windows services, the default value is 60 seconds.
- Event log error events are sent every 10 minutes.
- User profile information is obtained every 15 minutes.

FlexxAgent Analyzer (user)

- Includes application usage analysis, diagnostic data, and user experience.
- Data is collected locally every 15 seconds.
- The report is sent to the service every 5 minutes, although this metric can change in specific functionalities.

! INFO

These values can be adjusted in [Settings](#) on the different consoles, providing flexibility to meet specific needs.

Supported versions

The operating systems compatible with FlexxAgent are those still within the manufacturer's support cycle. Although installation is allowed on versions without such support, certain functionalities might not be available.

Microsoft operating systems with full support and compatibility are:

- Microsoft Windows 10 or later
- Microsoft Windows Server 2016 or later

FlexxAgent can also be installed on Windows 7 and 8.1 SP1, Windows Server 2008 R2 SP1, and Windows Server 2012, but it will be subject to some limitations.

Software Requirements

FlexxAgent also requires certain software components:

- .NET Framework 4.6.2 or later
- Windows PowerShell 4.0 or later (Windows PowerShell 5.1 recommended)

Limitations

Some limitations might disable its functionalities when using FlexxAgent on older Windows operating systems that are out of support:

- User Surveys
- GPU consumption metric collection
- Flow execution
- User microservices execution

If FlexxAgent is installed on a Windows 7 or Windows Server 2008 R2 operating system, the following KBs must be installed:

- [KB4474419](#): SHA-2 code signing support update for Windows Server 2008 R2, Windows 7, and Windows Server 2008: September 23, 2019
- [KB3140245](#): Update to enable TLS 1.1 and TLS 1.2 as default secure protocols in WinHTTP in Windows and follow the instructions in the section [How to enable TLS 1.1 and TLS 1.2 as default secure protocols in WinHTTP in Windows](#) from the Microsoft support page

Download

INSTALLATION BINARY DOWNLOAD WITHOUT GRAPHICAL INTERFACE

The download of FlexxAgent without a graphical interface is done from [Workspaces](#) -> [Level 2](#) -> [Reporting_Groups](#).

In the list view table, you must select the report group for which you want to download the agent and click on the [Download FlexxAgent](#) button.

The screenshot shows the FlexxWORKSPACES interface for 'Reporting groups'. A table lists reporting groups with columns for Id, Name, and Tenant. A 'Download FlexxAgent...' button is highlighted with a red box. The interface includes a search bar, filters, and a sidebar with navigation options like Alert notification profiles, Alert subscriptions, Event logs, Locations, Networks, Notifications, and Reporting groups.

A window will open to download the FlexxAgent installer.

The screenshot shows the 'Download FlexxAgent Installer' dialog box. It has 'OK' and 'Cancel' buttons. The text reads: 'Download a .zip file to install or repair FlexxAgent on machines communicating through this messaging service.' Below this, there is a dropdown menu for 'Target processor architecture' set to 'x64' and a checked checkbox for 'Generate standalone installer (offline)'. At the bottom, there is a link to 'http://5fbe840348819.helpdocsonline.com' for information on the FlexxAgent-Installer.exe command line arguments.

- If the **Generate standalone installer (offline)** option is selected, during installation, the binary will not require internet access for verification or downloading binaries.
- If, on the contrary, the **Generate standalone installer (offline)** option is not selected, the minimum installation package will be downloaded. In this manner, the binary will access the internet to verify and download the latest binaries.

Unattended Deployment

The agent supports being launched using unattended deployment methods, such as distribution by GPOs, Intune, SCCM, and many more tools.

Installation

Unattended installation is performed through PowerShell.

```
Start-Process "<ruta>\FlexxAgent-Installer.exe" -ArgumentList "<agregar
parámetro>" -WindowStyle Hidden -Wait
```

Example of unattended installation adding an installation parameter:

```
Start-Process "<ruta>\FlexxAgent-Installer.exe" -ArgumentList "-repairAgent
true" -WindowStyle Hidden -Wait
```

Uninstall

To uninstall unattended: "C:\Program

```
Files\Flexxible\FlexxAgent\VDIServiceUpdater.exe" /Uninstall "C:\Program
Files\Flexxible\FlexxAgent\FlexxAgent.exe" /quiet
```

Supported Parameters

Parameter	Type	Caption
RepairAgent	[bool]	Forces repair. Fails if the agent is not installed.
proxyAbsoluteUri	[string]	URI and port of the proxy.
proxyUser	[string]	User for authenticated proxy.
proxyPass	[string]	Password for authenticated proxy.
proxyPersistConfig	[switch]	If specified, the configuration is persisted in the registry.
configFilePath	[string]	Alternative directory for the FlexxAgent-

Parameter	Type	Caption	
		Configuration.conf archive.	
DebugMode	[switch]	When specified, creates a text file in the same folder with the script execution transcription.	

Proxy Configuration

FlexxAgent supports transparently configured proxies at the system level without configuring. Proxies with and without authentication are also supported. Proxy configuration can be done via the command line or by modifying registry keys that control this configuration.

Proxy configuration through command line

Installation with parameters: `FlexxAgent-Installer.exe -proxyAbsoluteUri ip.ad.dre.ss:port -proxyPersistConfig:$True`

Where ip.ad.dre.ss:port refers to the IP or DNS plus the proxy port, or including credentials:

`FlexxAgent-Installer.exe -proxyAbsoluteUri ip.ad.dre.ss:port -proxyUser ProxyUserName -proxyPass ProxyUserPassword -proxyPersistConfig:$True`

Configuration through registry keys

The registry keys that store the proxy configuration for FlexxAgent are located:

`Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexible\FlexxAgent\Communications`

Registry keys related to the proxy configuration:

- [Key_Proxy_URL](#)
- [Key_Proxy_User](#)

- Key Proxy_Pwd

Key Proxy_URL

- Key path:
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexxible\FlexxAgent\Communications
- Key Name: Proxy_URL
- Key type: REG_SZ
- Supported values: the URL and port; for example '<http://192.168.1.1:3128>' or '<https://192.168.1.1:3128>'

Key Proxy_User

- Key path:
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexxible\FlexxAgent\Communications
- Key Name: Proxy_User
- Key type: REG_SZ
- Supported values: the username to authenticate to the proxy; for example 'Administrator'. It can be bypassed for unauthenticated proxies.

Key Proxy_Pwd

- Key path:
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexxible\FlexxAgent\Communications
- Key Name: Proxy_Pwd
- Key type: REG_SZ
- Supported values: The password to authenticate to the proxy. It can be bypassed for unauthenticated proxies. The value of the Proxy_Pwd key can be set in plain text (not recommended) or base64 encoded and enclosed by «&&&». For example:
&&&VGhpc01zTjArQCQzY3VyZVBAJCR3MHJk&&& for the “Proxy_Pwd” value. In either case, FlexxAgent encrypts the value as soon as FlexxAgent starts or tries to transmit information. You can use a site like <https://www.base64encode.org/> to create the base64-encoded password string.

Update

FlexxAgent can be updated automatically or manually from [Workspaces](#).

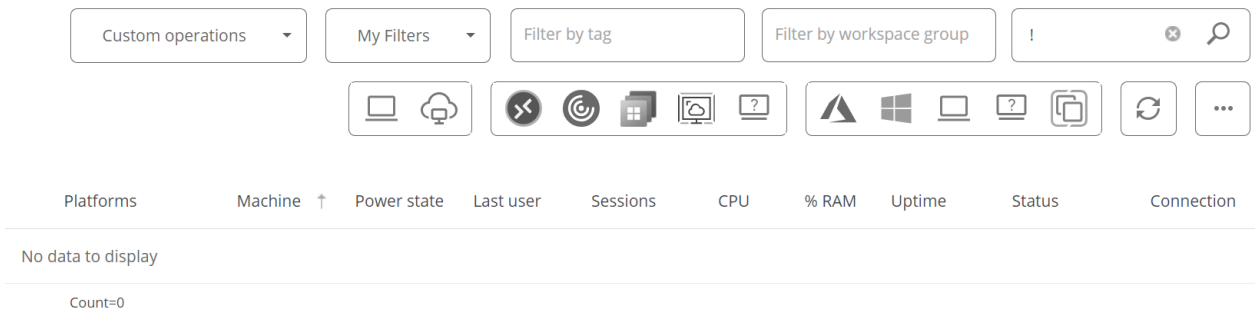
Auto update

This functionality is controlled with settings that are usually enabled in Workspaces. The path to view or change the configuration of this functionality is [Workspaces](#) -> [Level 3](#) -> [Settings](#) -> [Auto update](#). Selecting [True](#) will allow a new version of FlexxAgent to be detected and sent automatically to all active devices in the organization. This action will leave a [Job](#) in Workspaces with all the operation details.

Manual Update

The path to manually update FlexxAgent is [Level 1](#) -> [Workspaces](#) -> [Operations](#) -> [FlexxAgent](#) -> [Update to latest version](#).

Workspaces



The different installed versions are in the dropdown option for [My filters](#) -> [Predefined filters](#) -> [FlexxAgent version summary](#). This will generate a view of all devices grouped by the FlexxAgent version.

Once the update operation is executed, a [Job](#) with all the details of the operation will be generated in the corresponding section.

Logs

FlexxAgent can generate three types of logs:

- [Installation and update logs](#)
- [FlexxAgent Analyzer logs](#)
- [FlexxAgent service logs](#)

These records allow consulting information and diagnosing problems from the installation of FlexxAgent.

Installation and update logs

A text log file is left in the `C:\Windows\Temp\Flexible` folder, containing information about the installation or update process, as well as dependency information and process details.

FlexxAgent Analyzer logs

FlexxAgent Analyzer logs are stored in the `%LOCALAPPDATA%\FAAgent\Logs` directory. These can be configured to include or not include information by levels of criticality.

Change log level for FlexxAgent Analyzer

From Workspaces, it is possible to change the log level for one or more devices through the options available in the `Operations` button.

The screenshot shows the FlexxWorkspaces interface. On the left is a navigation sidebar with options like 'Level 1', 'Level 2', and 'Level 3'. The main area displays 'Workspace \...' with a 'General' tab. A table shows system details:

Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent last report
	On	On	24.5.3.4	Working	13/09/2024 12:41:1

Below this, another table shows connection details:

Connection	Subnet	MAC address	Network changed
	192.168.1.0/24	98-FC-84-E5-92-F4	

An 'Operations' menu is open, showing options like 'Power and connection actions', 'Tags', 'Edit', etc. The 'Session Analyzer trace logging' option is highlighted.

FlexxAgent service logs

FlexxAgent service logs can be consulted in the **Application** branch, within the **Event Viewer** of Windows.

The screenshot shows the Windows Event Viewer window. The left pane shows the tree view with 'Registros de Windows' expanded to 'Aplicación'. The main pane shows a list of events:

Nivel	Fecha y hora	Origen	Id. del evento
Información	29/08/2024 13:37:32	FlexxAgent service	
Información	29/08/2024 13:37:29	FlexxAgent service	
Información	29/08/2024 13:21:23	Outlook	
Información	29/08/2024 13:09:07	Security-SPP	11

The selected event (ID 1001) is expanded, showing the message: "'FlexxAgent service' is up and running. No action required." Below the message, the following details are displayed:

Nombre de registro:	Aplicación
Origen:	FlexxAgent service
Id. del:	1001
Nivel:	Información
Usuario:	No disponible
Código de operación:	Información
Más información:	Ayuda Registro de eventos

FlexxAgent / Supported Systems / Linux

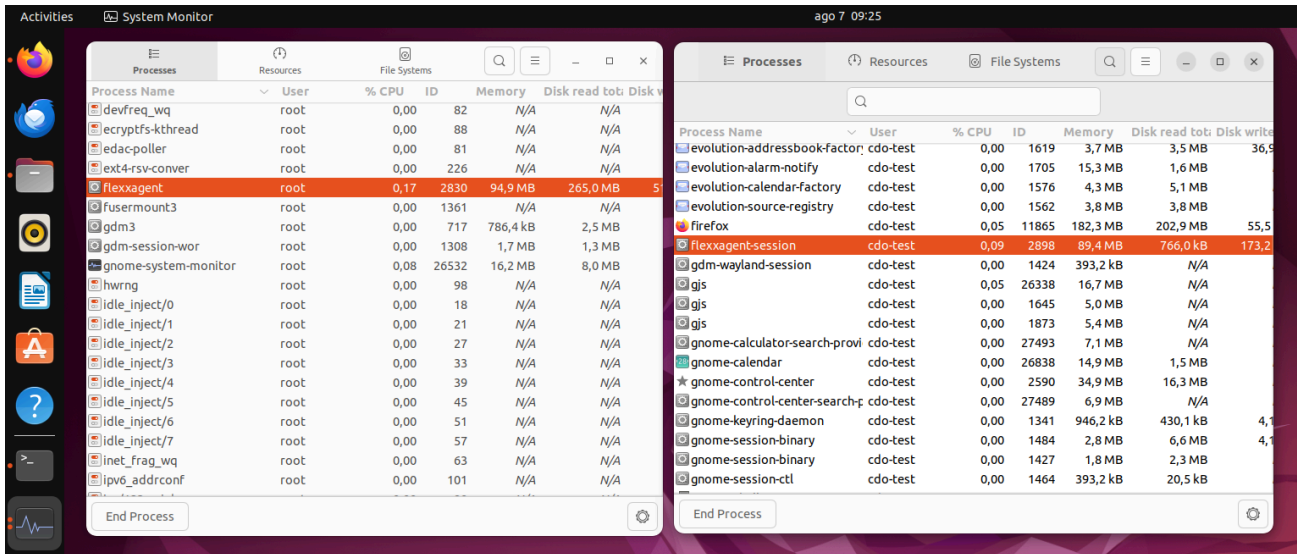
The Linux agent allows the inclusion of devices with this operating system in the service consoles, enabling support teams to have complete visibility of all devices in use within the organization. Linux support includes distributions like Fedora, Debian, and its derivative, Ubuntu. Both physical and virtual devices on VMware as a hypervisor and VDIs published with Citrix as a broker are supported.

The screenshot displays two instances of the 'Monitor del sistema' utility. The left instance shows a list of system processes, with 'flexxagent' running as root with 0.08% CPU usage and 44.8 MB of memory. The right instance shows a list of user sessions, with 'flexxagent-session' running as cdo-test-fedor with 0.42% CPU usage and 68.4 MB of memory.

Nombre del proceso	Usuario	% CPU	ID	Memoria	Lectura total	Escritura total
dm_bufio_cache	root	0,00	103	N/D	N/D	N/D
edac-poller	root	0,00	58	N/D	N/D	N/D
ext4-rsv-conver	root	0,00	657	N/D	N/D	N/D
firewalld	root	0,00	866	25,0 MB	12,7 MB	
flatpak-system-helper	root	0,00	3557	95,7 MB	2,3 MB	66,3 MB
flexxagent	root	0,08	904	44,8 MB	273,1 MB	237,0 MB
fusermount3	root	0,00	2608	N/D	N/D	N/D
fusermount3	root	0,00	4415	N/D	N/D	N/D
fwupd	root	0,00	2665	83,7 MB	6,7 MB	11,1 MB
gdm	root	0,00	1116	786,4 kB	1,1 MB	16,4 kB
gdm-session-wor	root	0,00	1677	2,0 MB	999,4 kB	4,2 kB
gnome-keyring-daemon	root	0,00	4468	917,5 kB	4,1 kB	16,4 kB
gnome-system-monitor	root	0,84	4379	14,5 MB	118,8 kB	36,9 kB
gpg-agent	root	0,00	3684	266,2 kB	N/D	N/D
gssproxy	root	0,00	914	782,3 kB	340,0 kB	
gvfsd	root	0,00	4437	655,4 kB	N/D	N/D
gvfsd-fuse	root	0,00	4442	655,4 kB	N/D	N/D
hwng	root	0,00	83	N/D	N/D	N/D
idle_inject/0	root	0,00	19	N/D	N/D	N/D
idle_inject/1	root	0,00	22	N/D	N/D	N/D
idle_inject/2	root	0,00	28	N/D	N/D	N/D
idle_inject/3	root	0,00	34	N/D	N/D	N/D

Nombre del proceso	Usuario	% CPU	ID	Memoria	Lectura total	Escritura total
dconf-service	cdo-test-fedor	0,00	3696	655,4 kB	32,8 kB	409,6 kB
dleyna-renderer-service	cdo-test-fedor	0,00	5218	1,7 MB	N/D	N/D
evolution-addressbook-factory	cdo-test-fedor	0,00	2214	3,9 MB	1,7 MB	86,0 kB
evolution-alarm-notify	cdo-test-fedor	0,00	2295	13,9 MB	20,5 kB	N/D
evolution-calendar-factory	cdo-test-fedor	0,00	2180	3,9 MB	3,0 MB	N/D
evolution-source-registry	cdo-test-fedor	0,00	2137	8,9 MB	40,0 MB	N/D
flexxagent-session	cdo-test-fedor	0,42	2530	68,4 MB	7,4 MB	8,2 kB
gdm-wayland-session	cdo-test-fedor	0,00	1826	393,2 kB	N/D	N/D
gjs	cdo-test-fedor	0,00	2397	5,1 MB	N/D	N/D
gjs	cdo-test-fedor	0,00	2232	4,9 MB	N/D	N/D
gnome-boxes-search-provider	cdo-test-fedor	0,00	4964	1,2 MB	36,9 kB	N/D
gnome-calculator-search-provider	cdo-test-fedor	0,17	4965	5,1 MB	876,5 kB	N/D
gnome-calendar	cdo-test-fedor	0,00	4966	14,0 MB	23,8 MB	N/D
gnome-characters	cdo-test-fedor	2,34	4968	82,3 MB	4,7 MB	N/D
gnome-clocks	cdo-test-fedor	4,43	4975	10,6 MB	258,0 kB	N/D
gnome-contacts-search-provider	cdo-test-fedor	0,00	4970	4,6 MB	921,6 kB	N/D
gnome-control-center-search-provider	cdo-test-fedor	0,08	4974	7,7 MB	24,6 kB	N/D
gnome-disks	cdo-test-fedor	0,00	5056	6,8 MB	274,4 kB	N/D
gnome-keyring-daemon	cdo-test-fedor	0,00	1772	1,1 MB	36,9 kB	20,5 kB
gnome-session-binary	cdo-test-fedor	0,00	1938	3,0 MB	200,7 kB	53,2 kB
gnome-session-binary	cdo-test-fedor	0,00	1848	2,1 MB	102,4 kB	N/D
gnome-session-ctl	cdo-test-fedor	0,00	1933	393,2 kB	8,2 kB	N/D

FlexxAgent is composed of a process of the same name, which runs at the system level and obtains all device information: its consumption metrics, performance, and all information visible in the consoles related to the device. FlexxAgent-Session initiates an instance for each user session on the device. It gathers information about the session, such as the applications in use and their consumption, system resource usage by the session, and session delivery times.



Supported versions

Currently, FlexxAgent officially supports the following distributions and versions:

- Fedora 37 or later
- Debian/GNU Linux 11 (bullseye) or later
- Ubuntu 22.04, 24.04

More distributions are regularly validated.

To include a distribution in the list of supported distributions, please contact Flexible.

Requirements

Before installing, updating all system packages is recommended.

The necessary components will be installed, depending on the distribution. The packages are detailed below.

Package dependencies for Fedora and Debian:

- dmidecode
- invirt

- systemd

Limitations

Certain functionalities are unavailable for Linux, such as remote assistance, user microservices, flow execution, the collection of plug-and-play peripheral data, and proxy use.

The on-demand execution of microservices from Workspaces supports Bash as a scripting language.

Download and installation

To install FlexxAgent, you must run the installation script using a preset configuration file.

The installation script can be downloaded from

```
https://update.workspaces.flexxible.com/agents/Linux/FlexxAgent/latest/flexxagent-install.sh
```

FlexxAgent downloads its latest version when the script is executed before installation.

The configuration file is required for the installation. It can be obtained by contacting Flexxible.

Installation steps

1. Download the installer from the URL.
2. Grant permissions to the script.

```
sudo chmod +x ./flexxagent-install.sh
```

3. Run the script.

```
sudo ./flexxagent-install.sh -c [configuration file]
```

4. Clean the files used.

Installation script parameters

Parameter	Caption
<code>-v, --version</code> <code><VERSION></code>	Use a specific version, by default <code>latest</code> .
<code>-d, --distro</code> <code><DISTRO></code>	The script automatically detects the DISTRO in use on the system it is running on. This parameter helps force the FlexxAgent version installation for a specific DISTRO when working with derived or similar distros.
<code>--verbose, -</code> <code>Verbose</code>	Displays diagnostic information.
<code>-c, --config</code> <code><CONFFILE></code>	Applies the configuration from a configuration file by default, <code>settings.conf</code> .
<code>-?, --?, -h, --</code> <code>help, -Help</code>	Shows help.

Examples

Install FlexxAgent with the configuration file:

```
flexxagent-install.sh [-c|--config <path/file.conf>]
```

Install a specific version of FlexxAgent:

```
flexxagent-install.sh [-v|--version <VERSION>]
```

Force the FlexxAgent installation for a specific distribution:

```
flexxagent-install.sh [-d|--distro <DISTRO>]
```

Access the help:

```
flexxagent-install.sh -h|-?|--help
```

Uninstall

The uninstallation script can be downloaded from

```
https://update.workspaces.flexxible.com/agents/Linux/FlexxAgent/latest/flexxagent-uninstall.sh
```

Steps for uninstallation:

1. Download the uninstaller from the URL.

2. Grant permissions to the script.

```
sudo chmod +x ./flexxagent-uninstall.sh
```

3. Run the script.

```
sudo ./flexxagent-uninstall.sh
```

4. Clean the files used.

Uninstallation script parameters

Parameter	Caption
<pre>-d, --distro <DISTRO></pre>	The script automatically detects the DISTRO in use on the system it is running on. This parameter helps force the FlexxAgent version uninstallation for a specific DISTRO when working with derived or similar distros.
<pre>-c, --cleanup <VERSION></pre>	Cleans configurations and logs; default is <code>false</code> .

Parameter	Caption
<pre>-?, --?, -h, --help, -Help</pre>	Shows help.

Examples

Uninstall and clean up configurations and logs:

```
flexxagent-uninstall.sh [-c|--cleanup]
```

Force the uninstallation for a DISTRO:

```
flexxagent-uninstall.sh [-d|--distro <DISTRO>]
```

Access the help:

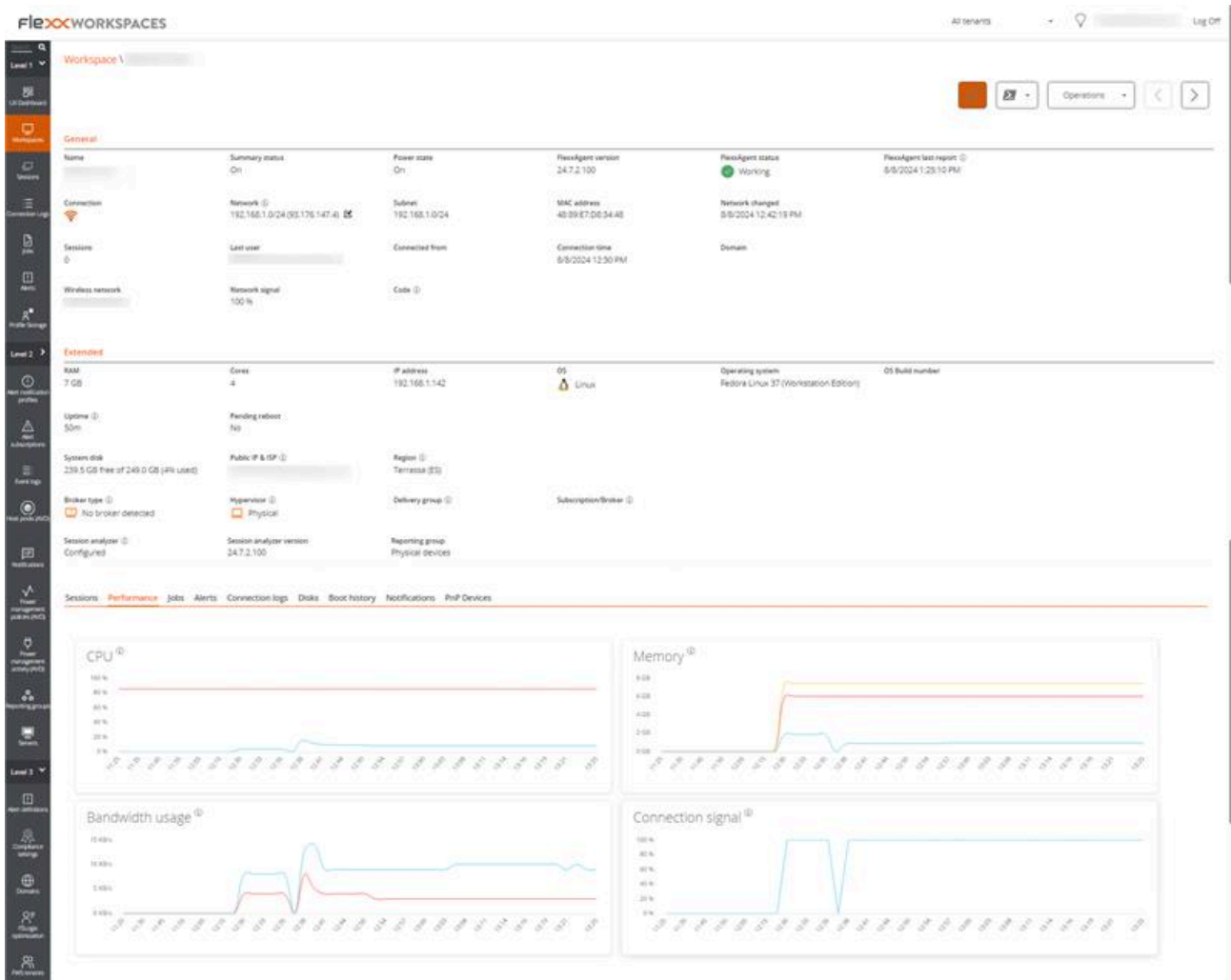
```
sudo ./flexxagent-uninstall.sh --help
```

Update

There are two ways to update FlexxAgent to its latest version:

- From Workspaces, select the device and perform: `Operations -> FlexxAgent -> Update to the latest version.`
- Re-running the installation script to download and install the latest version.

Obtained fields



FlexxAgent obtains and sends the following general information to the consoles:

- **Name:** device name
- **Device status:** on, off
- **Version:** FlexxAgent version
- **FlexxAgent status:** running, stopped
- **Last FlexxAgent report:** date and time of last report received
- **Connection:** Wireless LAN, mobile network, ethernet, unknown
- **Network:** device network addressing and public IP for internet access. These networks are created automatically when more than four workspaces are connected to the same network.
- **Subnet:** device network segment
- **MAC address**

- **Wireless network:** network name
- **Network signal:** reception percentage
- **Network changes:** last time the network changed
- **Sessions:** number of user sessions
- **Last user**
- **Connected from**
- **Connection time:** session start date and time
- **Code:** lets users identify the workspace with a personal code. This code must be manually filled in individually using the Edit option in the Operations menu of the workspace details.
- **RAM:** total available RAM capacity
- **Cores:** number of processor cores
- **IP address:** device IP address on the local network
- **OS:** operating system name
- **Operating system:** operating system version
- **System disk:** total disk capacity and usage in percentage
- **Public IP and ISP:** this ISP is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- **Region:** obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- **Broker type:** if detected, shows the broker in use.
- **Delivery group:** if detected, collection of machines selected from one or more machine catalogs.
- **Subscription:** if detected, subscription in use for Citrix Cloud, Azure, etc.
- **Hypervisor:** if virtualization is detected, shows the hypervisor in use.
- **Session Analyzer:** whether configured or not.
- **Session Analyzer version:** Session Analyzer version number
- **Report group:** report group to which the device belongs

At the detailed information level in the device view in Workspaces, it includes:

- List of sessions with each session's resource consumption details (CPU/RAM)

- List of workspace disks with occupied space
- Graphic performance counters for CPU, RAM, bandwidth, and wireless connection signal

The screenshot displays the FlexxAnalyzer web interface. At the top, the header includes the 'flexxANALYZER' logo, a notification bell, a location indicator for 'Western Europe', and a search bar. A sidebar on the left contains navigation icons for home, registration, settings, and help. The main content area is titled 'WORKSPACES / WORKSPACE DETAILS' and features a 'Back to Previous Page' link. Below this, there is a status bar indicating 'Inactive', '0' documents, '1' user, and '0' alerts. The workspace details are presented in a grid of key-value pairs:

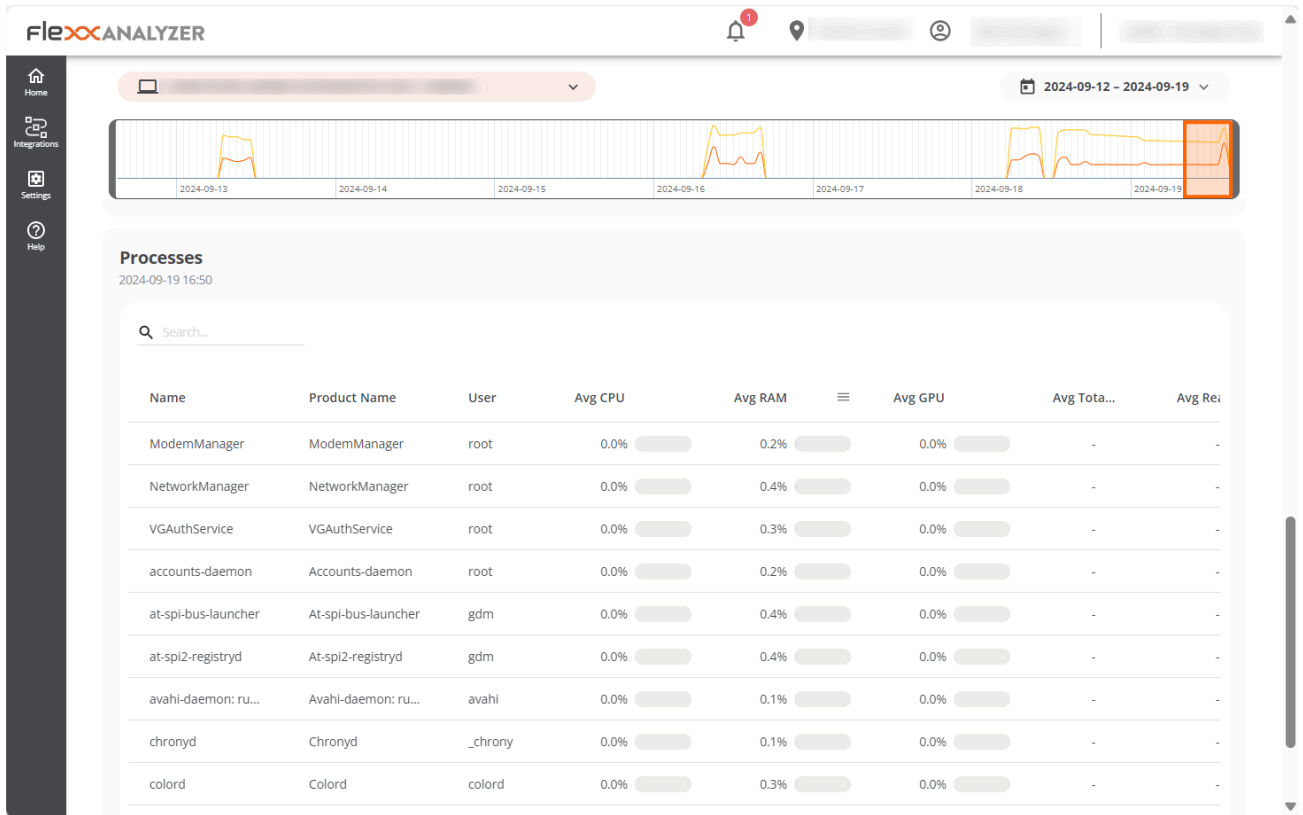
Name	Last User	Last Report 2024-08-08 14:30	Domain	LogonServer	Vendor Dell Inc.
Operating System Fedora Linux 37 (Workstation Edition)	System Model Latitude 7280	System SKU 079F	System Type x64-based PC	IP 192.168.1.142	Branch
Processor Intel(R) Core(TM) i5-8300U CPU @ 2.40GHz	Total Workspace Memory 7GB	WiFi Unavailable	RAM Usage Offline	CPU Usage Offline	CPU Usage MHz Offline
CPU Usage Offline	CPU Usage Offline	FlexxAgent Analyzer Version Universal Agent 24.7.2.100			

Below the details is a 'Diagnose workspace' button. The 'Installed Apps' section contains a search bar and a table with the following columns: Name, Version, Category, Installed At, App Group, and Unique Identifier.

Name	Version	Category	Installed At	App Group	Unique Identifier
About	N/A	N/A	N/A	N/A	N/A
Access Prompt	N/A	N/A	N/A	N/A	N/A
Accessibility	N/A	N/A	N/A	N/A	N/A
Appearance	N/A	N/A	N/A	N/A	N/A
Applications	N/A	N/A	N/A	N/A	N/A
Bluetooth	N/A	N/A	N/A	N/A	N/A
Bluetooth Transfer	N/A	N/A	N/A	N/A	N/A
Boxes	N/A	N/A	N/A	N/A	N/A
Calculator	N/A	N/A	N/A	N/A	N/A
Calendar	N/A	N/A	N/A	N/A	N/A

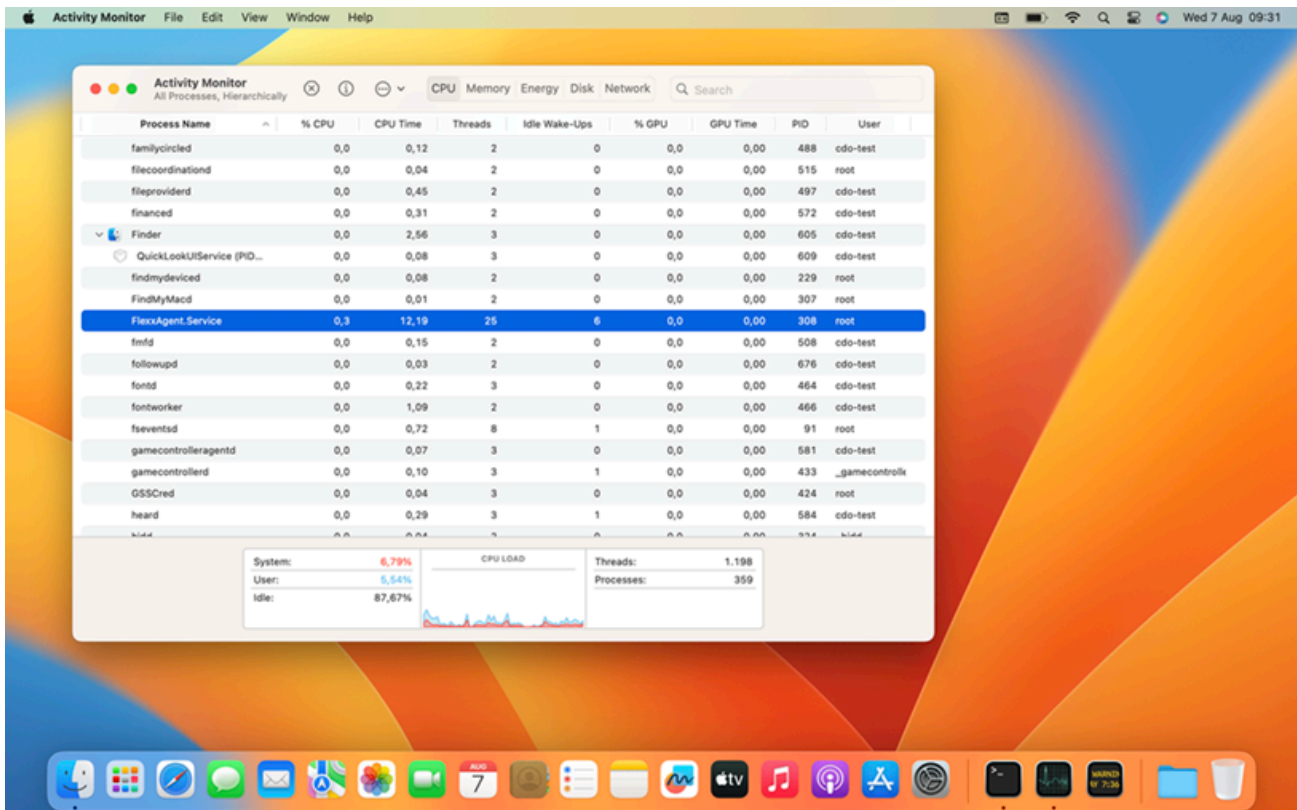
At the bottom right of the table, there is a pagination control showing '1 to 10 of 110', 'Page 1 of 11', and a '10' dropdown menu.

The Analyzer module receives general device data, as well as information about CPU and RAM consumption, installed applications, and also running processes and applications.



FlexxAgent / Supported Systems / macOS

The macOS agent allows Mac devices to be included in the service consoles, enabling support teams to see all devices used within the organization. Support for macOS includes versions starting from 10.15.



Supported versions

Support for macOS starts with version Catalina (10.15) or later. Regarding architectures, FlexxAgent supports both Intel processors (amd64 architecture) and Apple processors with arm architecture (arm64).

Limitations

Certain features are not available for macOS, such as remote assistance, the execution of on-demand microservices from Workspaces, user microservices, and flows, the use of proxies, or the sending of notifications.

Due to how the operating system functions, the expected behavior on macOS is that when the device screen is locked, the operating system stops background processes, causing the device to stop reporting information to the consoles or receiving actions until the screen is unlocked or the session is started again.

Download and installation

The installation script that downloads FlexxAgent in its latest version can be obtained from <https://update.workspaces.flexxible.com/agents/MacOS/FlexxAgent/latest/flexxagent-install.sh>

The configuration file must be obtained from Flexible and is required for installation.

Steps for installation:

1. Download the installer from the URL.
2. Grant permissions to the script, open the terminal, and execute:

```
sudo chmod +x ./flexxagent-install.sh
```

3. Run the script.

```
sudo ./flexxagent-install.sh -c [configuration file]
```

4. Clean files.

Installation script parameters

Parameter	Caption
<code>-v, --version</code> <code><VERSION></code>	Use a specific version, by default, <code>latest</code> .
<code>--verbose, -Verbose</code>	Displays diagnostic information.
<code>-c, --config</code> <code><CONFFILE></code>	Applies the configuration from a configuration file by default <code>settings.conf</code> .

Parameter	Caption
<code>-?, --?, -h, --help, -Help</code>	Shows help.

Examples

Install FlexxAgent with the configuration file:

```
flexxagent-install.sh [-c|--config <path/file.conf>]
```

Install a specific version of FlexxAgent:

```
flexxagent-install.sh [-v|--version <VERSION>]
```

Access the help:

```
flexxagent-install.sh -h|-?|--help
```

Uninstall

The uninstallation script can be downloaded from:

```
https://update.workspaces.flexxible.com/agents/MacOS/FlexxAgent/latest/flexxagent-uninstall
```

Steps for uninstallation:

1. Download the uninstaller from the URL.
2. Grant permissions to the script.

```
sudo chmod +x ./flexxagent-uninstall.sh
```

3. Run the script.

```
sudo ./flexxagent-uninstall.sh
```

Uninstallation script parameters

Parameter	Caption
<code>-c, --cleanup <VERSION></code>	Cleans configurations and logs; default is <code>false</code> .
<code>-?, --?, -h, --help, -Help</code>	Shows help.

Examples

Uninstall and clean up configurations and logs:

```
flexxagent-uninstall.sh [-c|--cleanup]
```

Access the help:

```
sudo ./flexxagent-uninstall.sh --help
```

Update

The agent can be updated to the latest version in two ways:

- From Workspaces, select the device and perform: `Operations -> FlexxAgent -> Update to the latest version`.
- Re-running the installation script to download and install the latest version.

Obtained fields

FlexxWORKSPACES All tenants Log Off

Workspace \ [redacted]

Operations < >

General						
Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent last report	
[redacted]	On	On	24.8.1.104	Working	8/9/2024 7:55:09 AM	
Connection						
Network	Subnet	MAC address	Network changed			
192.168.1.0/24 (93.176.147.4)	192.168.1.0/24	DC:A9:04:85:B0:3F	8/8/2024 4:03:07 PM			
Sessions						
1	Last user	Connected from	Connection time	Domain		
[redacted]	[redacted]	[redacted]	8/9/2024 7:44 AM	[redacted]		
Wireless network						
Network signal	Code					
100 %	[redacted]					
Extended						
RAM	Cores	IP address	OS	Operating system	OS Build number	
8 GB	4	192.168.1.135	MAC	macOS 13.6.8	[redacted]	
Uptime	Pending reboot	Region				
-42m	No	Terrassa (ES)				
System disk	Public IP & ISP	Region		Subscription/Broker		
100.2 GB free of 118.2 GB (15% used)	[redacted]	Terrassa (ES)		[redacted]		
Broker type	Hypervisor	Delivery group	Subscription/Broker			
No broker detected	Physical	[redacted]	[redacted]			
Session analyzer	Session analyzer version	Reporting group				
Configured	24.8.1.104	Physical devices				

Sessions Performance Jobs Alerts Connection logs Disks Boot history Notifications PnP Devices

For more detailed information click [here](#) or visit the session analyzer portal.

FlexxAgent obtains and sends the following general information to the consoles:

- Device Name
- Device status (on, off...)
- FlexxAgent version
- FlexxAgent status: running, stopped.
- Last FlexxAgent report: date and time of last report received.
- Connection: wireless LAN, mobile network, ethernet, unknown.
- Network: device network addressing and public IP to access the internet. These networks are created automatically when more than four workspaces are connected to the same network.
- Subnet: device network segment
- MAC address

- Wireless network: network name
- Network signal: reception percentage
- Network changes: last time the network changed
- Sessions: number of user sessions.
- Last User
- Connected from
- Connection time: session start date and time
- Code: This field lets users identify the workspace with a personal code. This code must be manually filled in individually using the Edit option in the Operations menu of the workspace details.
- RAM: total available RAM capacity
- Cores: number of processor cores
- IP address: IP address of the device on the local network
- OS: name of the operating system
- Operating system: version of the operating system
- System disk: total capacity, and disk usage in percentage
- Public IP & ISP: This ISP is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- Region: This region is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- Session Analyzer: whether it is configured or not.
- Session Analyzer version: Session Analyzer version number.
- Report group: report group to which the device belongs.

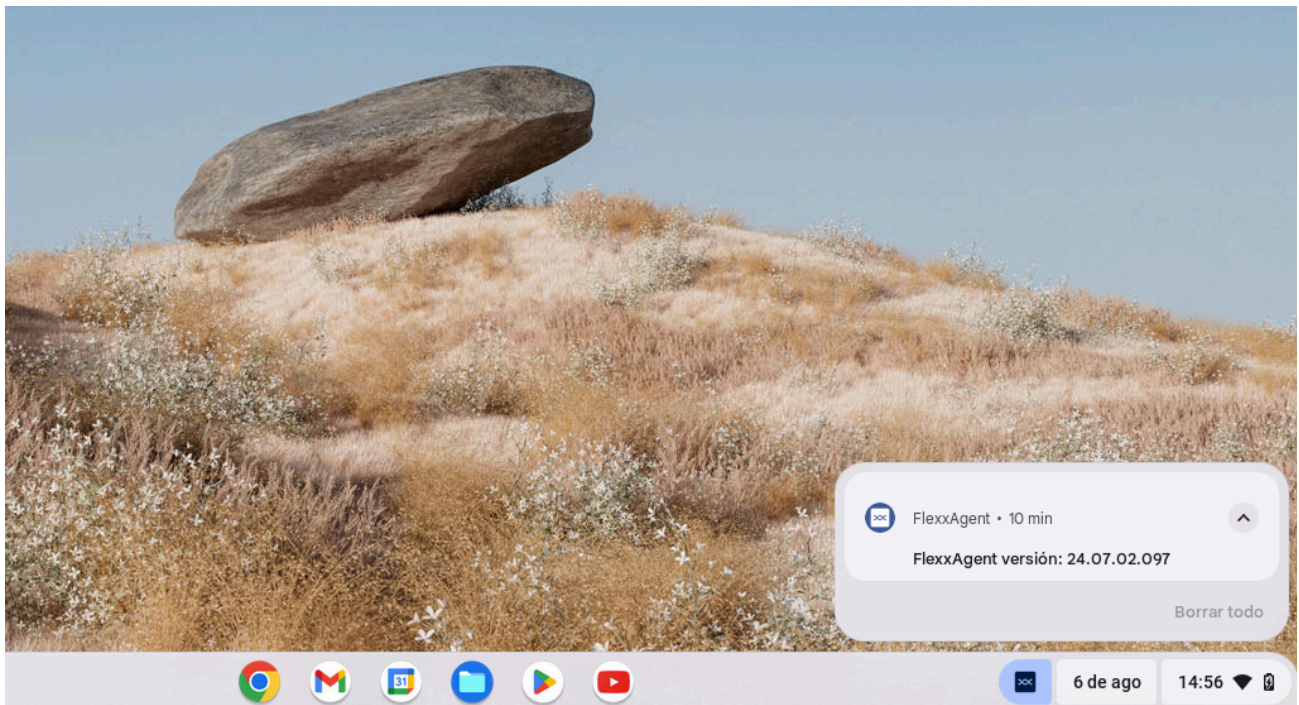
Performance counter format information is also retrieved:

- CPU
- RAM
- Bandwidth
- Wireless connection signal percentage
- List of sessions
- List of disks with total and occupied capacity

FlexxAgent / Supported Systems / ChromeOS

The ChromeOS agent allows the inclusion of devices with this operating system in the service consoles, thus enabling complete visibility for support teams, both desktop and mobile devices of users. ChromeOS devices require an MDM platform like Google Admin to distribute the FlexxAgent APK.

For this operating system, FlexxAgent is offered in APK application format for the customer to distribute to devices with the mechanism of their choice.



When running FlexxAgent on a ChromeOS device, the fixed notification indicates that the agent is installed and running.

Supported versions

FlexxAgent runs on ChromeOS devices version 112 or later. The **ChromeOS Flex** edition is not supported.

Limitations

Due to the restrictions of this operating system, certain functionalities are not available for this type of device, such as the execution of power actions, remote assistance, user microservices, or microservices from Workspaces or flows.

Due to how the ChromeOS operating system works, when the device screen is locked, it disconnects from the network, so the agent stops reporting. It starts reporting again when the device is unlocked.

Download and installation

It is installed unattended from the Google Admin console. Flexible must request the application's APK file and the configuration file in JSON format to install FlexxAgent.

How to launch the installation to devices

Broadly speaking, the procedure consists of:

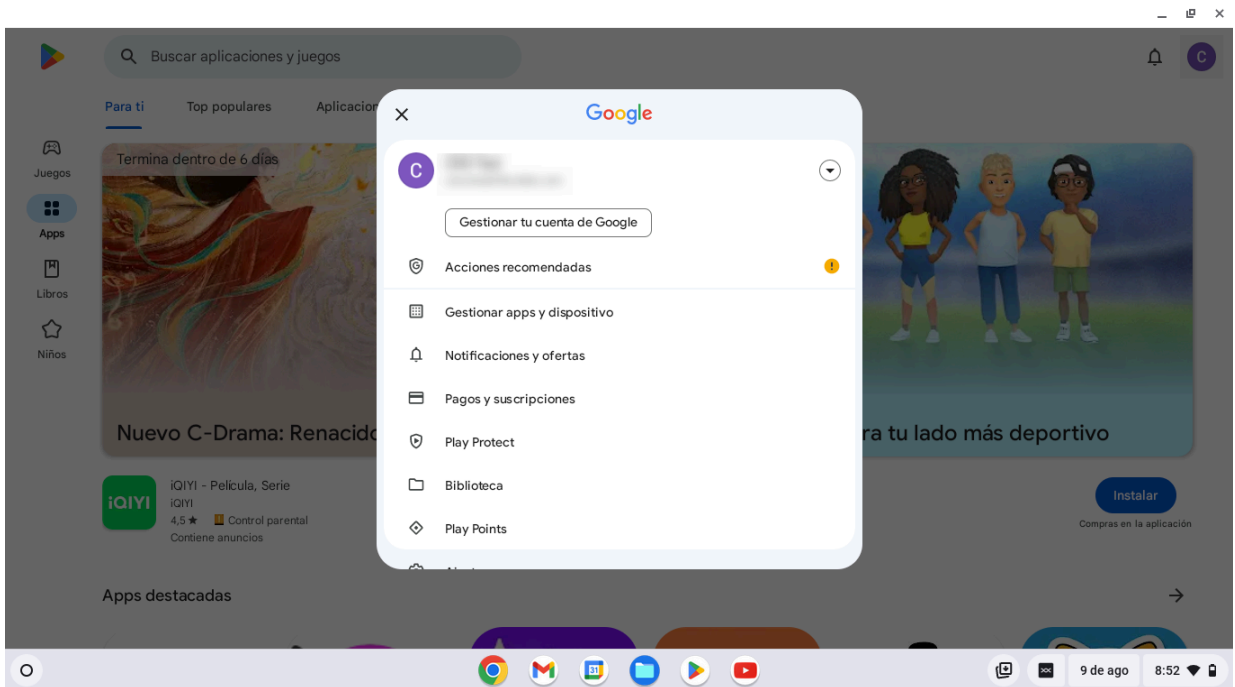
1. From Google Admin, add the app as "Add private Android app" (Apps -> Web and Mobile apps).
2. Go to Devices -> Chrome -> Apps and extensions -> Users & browsers, select the OU in which you want to deploy the app.
3. Add the app, assign the managed configuration (JSON) and mark as "Force install".

Please review the linked links for more information on [registering apps](#) or [deploying them](#) to managed users in Google Admin.

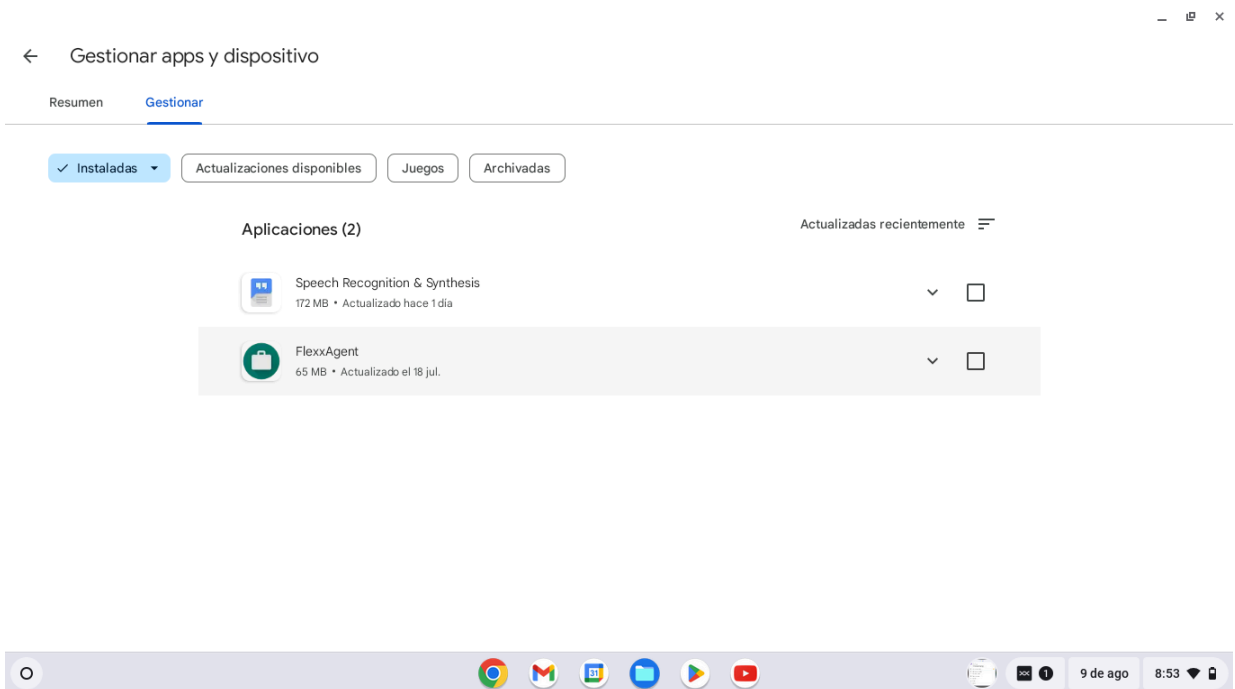
For FlexxAgent to be configured correctly, the application needs to be opened at least once after installation on every device where it is distributed.

To perform this action, follow these steps:

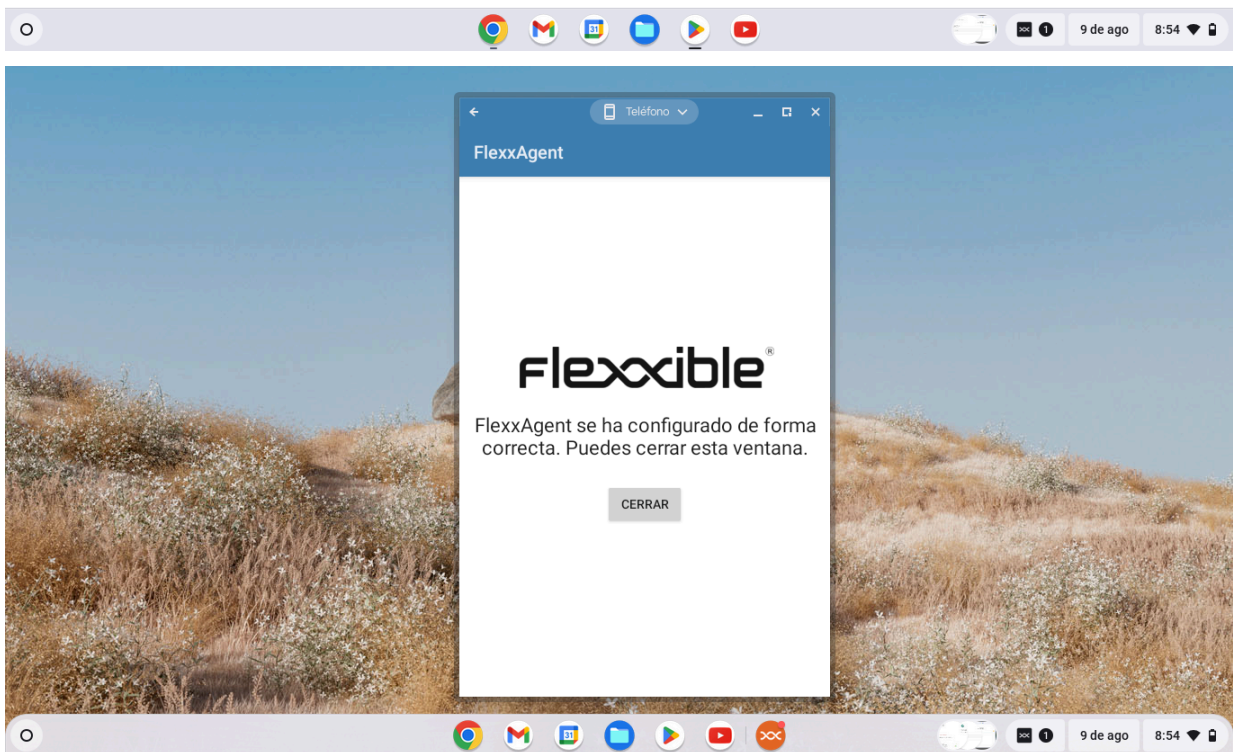
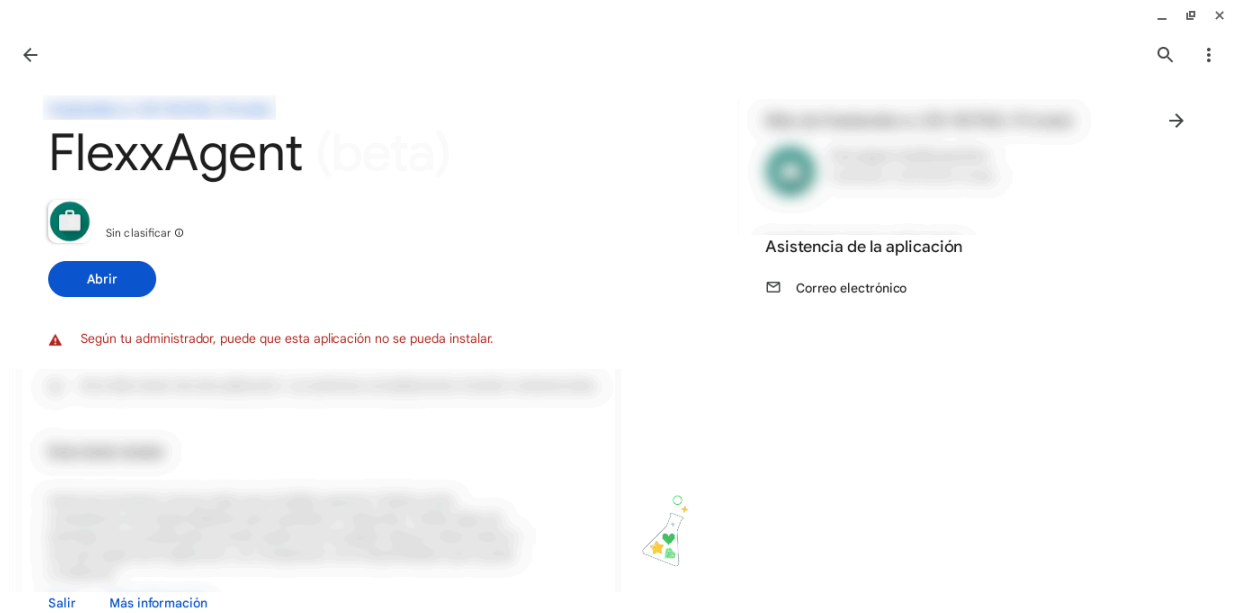
1. Access Google Play and go to "Manage apps and devices".



2. Go to the "Manage" tab and click on the FlexxAgent app.



3. On the app detail screen, click "Open". A window will open, confirming that the app has been successfully configured. Next, you can close the window.



These steps do not need to be repeated when updating FlexxAgent. They are only necessary after the first installation.

Update

The new version is distributed from Google Admin after configuring it.

Please review the linked links for more information on [registering apps](#) or [deploying them](#) to managed users in Google Admin.

Information obtained from the device

The screenshot displays the FlexxWORKSPACES interface for a specific workspace. The 'General' section provides the following information:

Field	Value
Name	[Redacted]
Summary status	On
Power state	On
FlexxAgent version	24.07.02.097
FlexxAgent status	Working
FlexxAgent last report	8/5/2024 1:40:09 PM

The 'Extended' section provides the following information:

Field	Value
RAM	4 GB
Cores	2
IP address	192.168.1.136
OS	ChromeOS
Operating system	ChromeOS 125
OS Build number	[Redacted]
Uptime	2d 0h
Pending reboot	No
System disk	Unknown
Public IP & ISP	93.176.147.4 (Itra Telecom S.A.)
Region	Tennessee (ES)
Delivery group	[Redacted]
Session analyzer	Configured
Session analyzer version	24.07.02.097
Reporting group	Physical devices

The 'Disks' section shows the following table:

Device ID	Name	Volume label	Total size	Used size	% Used	OS	Location	Partition	Physical disk size
0	/storage/emulated/0	Almacenamiento interno compartido	32,000 MB	0 MB	0 %	Android	[Redacted]	Almacenamiento interno compartido	32,000 MB

FlexxAgent obtains and sends the following general information to the consoles:

- Device Name.
- Device status (on, off...).
- FlexxAgent version.
- FlexxAgent status: Running, stopped.
- FlexxAgent last report: Date and time of last received report.
- Connection: Wireless LAN, Mobile network, unknown.
- Network: Device network addressing and public IP address for internet access. These networks are created automatically when more than four workspaces are connected

to the same network.

- Subnet: Device network segment.
- Network changes: Last time when the connected network changed.
- Sessions: Number of user sessions.
- Last user.
- Connected from.
- Connection time: Start date and time of the session.
- Code: This field lets users identify the workspace with a personal code. This code must be manually filled in individually using the Edit option in the Operations menu of the workspace details.
- RAM: Total available RAM capacity.
- Cores: Number of processor cores.
- IP adress: IP address of the device on the local network.
- OS: Operating System Name.
- Operating System: OS Version.
- Uptime: Session time.
- Pending restart: Shows if the device requires a restart for updates.
- Public IP & ISP: This ISP is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- Region: This region is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- Session analyzer: Configured or not.
- Session analyzer version: Session analyzer version number.
- Reporting Group: The reporting group to which the device belongs.

FlexxANALYZER Western Europe

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WORKSPACES / **WORKSPACE DETAILS**

Inactive 0 1 0

Name	Last User	Last Report: 2024-09-05 14:40	Domain: flexxble.com	LogonServer	Vendor: Google
Operating System: ChromeOS 126	System Model: grunt	System SKU	System Type: x64-based PC	IP	Branch
Processor: AMD A4-9120C RADEON R4, 5 COMPUTE CORES 2C+3G	Total Workspace Memory: 4GB	WBI: Unavailable	RAM Usage: Offline	CPU Usage: Offline	CPU Usage MHz: Offline
GPU Usage: Offline	IOPS Usage: Offline	FlexAgent-Analyzer Version: Universal Agent 24.07.02.097			

[Diagnose workspace](#)

Installed Apps

Search

Name	Version	Category	Installed At	App Group	Unique Identifier
Administrador de almacenamiento	11	N/A	2024-06-14 02:22	N/A	N/A
Administrador de descargas	11	N/A	2024-06-14 02:22	N/A	N/A
Administrador de redes	11	N/A	2024-06-14 02:21	N/A	N/A
Agente comentarios Market	11-6684105	N/A	2024-06-05 20:30	N/A	N/A
Ajustes	11	N/A	2024-06-14 02:22	N/A	N/A
Almacenamiento de configuración	11	N/A	2024-06-14 02:19	N/A	N/A

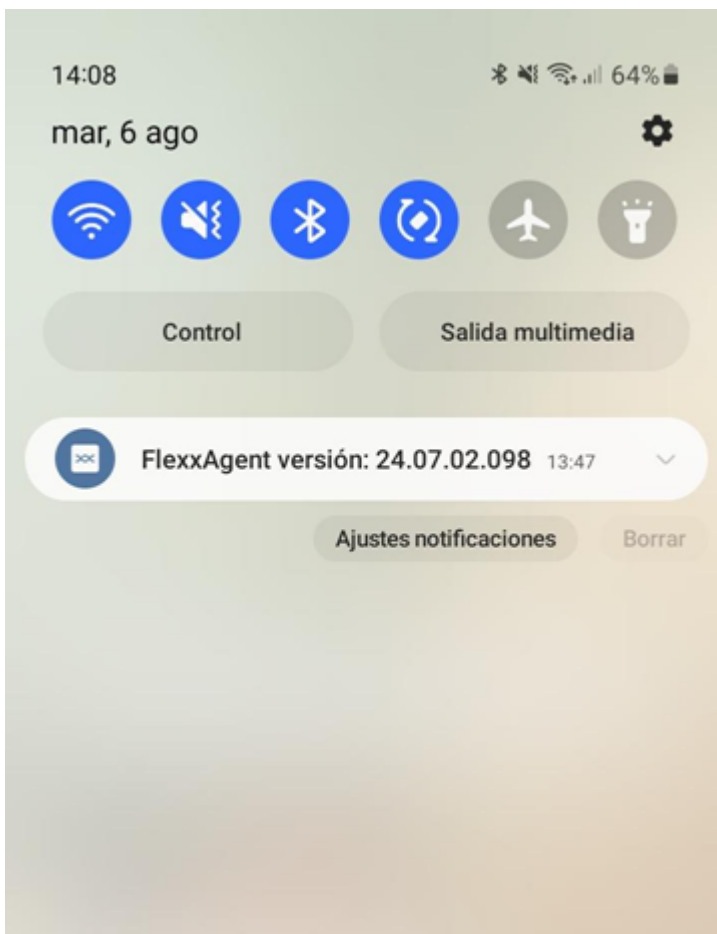
General device data, as well as the installed applications and their versions, are sent to the Analyzer.

FlexxAgent / Supported Systems / Android

The Android agent allows the inclusion of devices with this operating system in the service consoles, enabling complete visibility for the support teams for desktop computers and users' mobile devices.

For this operating system, FlexxAgent is provided in APK application format for the customer to distribute to the devices with the mechanism of their choice.

Android devices require an MDM platform like Google Admin to distribute the FlexxAgent APK.



When running FlexxAgent on an Android device, the fixed notification indicates that the agent is installed and running.

Supported versions

FlexxAgent runs on Android devices version 9.0 or later.

Limitations

Due to the restrictions of mobile operating systems, certain functionalities are unavailable for this type of device, such as the execution of power actions, remote assistance, user microservices, or microservices from Workspaces or flows.

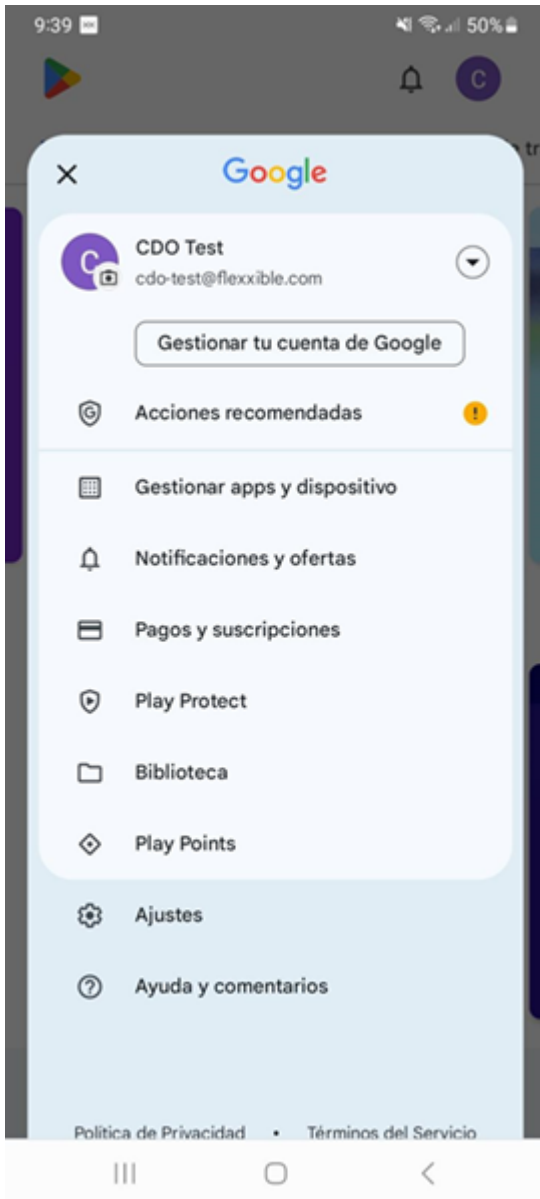
Some devices block services or do not allow them to connect to the internet when the screen is locked for battery-saving reasons. In these cases, it is also possible that when the screen is locked, the device may stop reporting until it is unlocked again. This depends on the device manufacturer and the OS version.

Download and installation

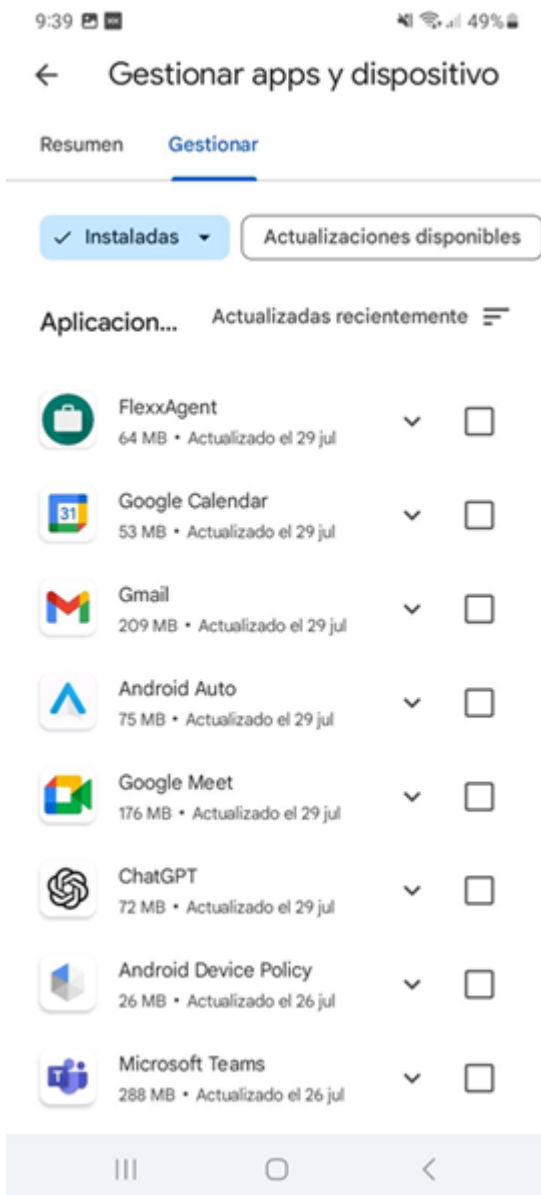
Flexible must provide both the configuration and FlexxAgent's APK file. The APK file must be distributed from the existing MDM according to its APK distribution methods.

For FlexxAgent to be configured correctly, the application needs to be opened at least once after installation on every device where it is distributed. To perform this action, follow these steps:

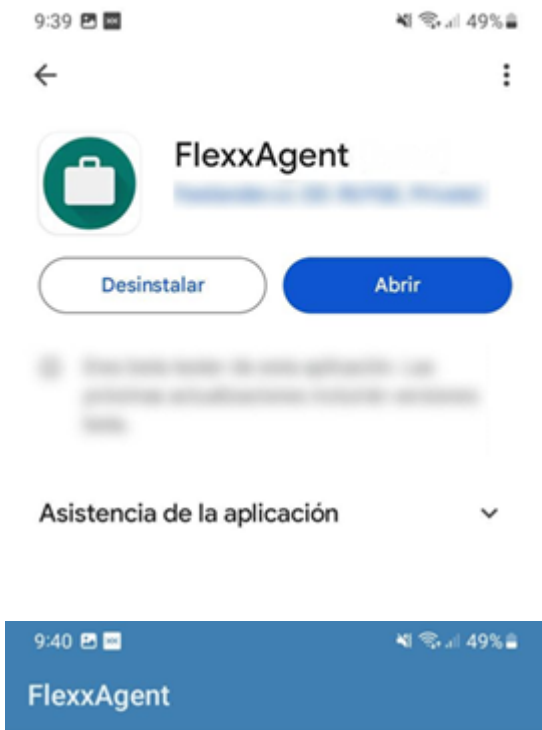
1. Access Google Play and go to "Manage apps and devices".



2. Go to the "Manage" tab and click on the FlexxAgent app.



3. On the app detail screen, click "Open". A window will open, confirming that the app has been successfully configured. Next, you can close the window.



flexxible®

FlexxAgent se ha configurado de forma correcta. Puedes cerrar esta ventana.

CERRAR

These steps do not need to be repeated when updating FlexxAgent. They are only necessary after the first installation.

Update

The new APK must be redistributed from the MDM according to its APK distribution or update methods.

Obtained fields

The screenshot displays the FlexxWorkspaces console interface. The top navigation bar shows 'All tenants' and 'Log Off'. The main content area is divided into two sections: 'General' and 'Extended'.

General Section:

Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent last report
Samsung SM-A127F	On	On	24.07.02.098	Working	8/9/2024 8:02:08 AM
Connection	Network	Subnet	MAC address	Network changed	
1	192.168.1.0/24 (93.176.147.4)	192.168.1.0/24		8/9/2024 7:36:59 AM	
Sessions	Last user	Connected from	Connection time		
1			8/9/2024 7:21 AM		
Wireless network	Network signal	Code			
	99 %				

Extended Section:

RAM	Cores	IP address	OS	Operating system	OS Build number
4 GB	8	192.168.1.140	Android	Android 13	
Uptime	Pending reboot	Region			
40m	No	Terrasse (ES)			
System disk	Public IP & ISP				
Unknown					
Delivery group	Session analyzer	Reporting group			
	24.07.02.098	Physical devices			

Disks Table:

Device ID	Name	Volume label	Total size	Used size	% Used	OS	Location	Partition	Physical disk size
0	/storage/emulated/0	Memoria de dispositivo	137,438 MB	0 MB	0 %	✓		Memoria de dispositivo	137,438 MB

FlexxAgent obtains and sends the following general information to the consoles:


- Name: Device model.
- Device status (on, off...).
- FlexxAgent version.
- FlexxAgent status: Running, stopped.
- FlexxAgent last report: Date and time of last received report.
- Connection: Wireless LAN, Mobile network, unknown.
- Network signal: Network reception percentage.
- Subnet: Device network segment.
- Network changes: Last time when the connected network changed.
- Sessions: Number of user sessions.

- Last user.
- Connected from.
- Connection time: Start date and time of the session.
- Disk list: Total disk capacity and usage percentage.
- Wifi network: Network Name (SSID).
- Network signal: Network signal reception percentage.
- Code: This field lets users identify the workspace with a personal code. This code must be manually filled in individually using the Edit option in the Operations menu of the workspace details.
- RAM: Total available RAM capacity.
- Cores: Number of processor cores.
- IP adress: IP address of the device on the local network.
- OS: Operating System Name.
- Operating System: OS Version.
- Uptime: Session time.
- Pending restart: Shows if the device requires a restart for updates.
- Public IP & ISP: This ISP is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- Region: This region is obtained using the public IP. It might not be accurate if connected to a corporate network or using a VPN.
- Device report group.

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WORKSPACES / WORKSPACE DETAILS








 SAMSUNG SM-A127F 🔌 Active 📄 0 👤 1 ⌚ 0

Name SAMSUNG SM-A127F	Last User [Redacted]	Last Report 2024-08-09 10:05	Domain -	LogonServer -	Vendor samsung
Operating System Android 13	System Model SM-A127F	System SKU hcesim	System Type arm64-v8a	IP 192.168.1.140	Branch -
Processor -	Total Workspace Memory 4GB	WiFi Unavailable	RAM Usage 66.22%	CPU Usage 0%	CPU Usage Mhz 0MHz
GPU Usage -	IOPS Usage -	FlexxAgent Analyzer Version Universal Agent 24.07.02.098			

[Diagnose workspace](#)

Installed Apps

🔍 Search...

Name	Version	Category	Installed At	App Group	Unique Identifier
 3 Button Navigation Bar	1.0	N/A	2008-12-31 16:00	N/A	N/A
 Accesibilidad	14.1.02.0	N/A	2008-12-31 16:00	N/A	N/A
 Actualización de aplicaciones	1.2.11	N/A	2008-12-31 16:00	N/A	N/A
 Actualización de software	7.2.05	N/A	2008-12-31 16:00	N/A	N/A
 Actualizar configuración	2.0.31	N/A	2008-12-31 16:00	N/A	N/A
 Adept Sound	13.0.37	N/A	2008-12-31 16:00	N/A	N/A
 Administrador de almacenamiento	1.2	N/A	2008-12-31 16:00	N/A	N/A

General device data, as well as the installed applications and their versions, are sent to the Analyzer.

FlexxAgent / Network considerations

FlexxAgent, in its usual operation, requires a series of network requirements to connect to cloud orchestration services and support complex network ecosystems and proxies. Before proceeding with the deployment of the agent on devices, it is recommended to validate that at the network level they can access the defined destinations in required URLs and ports.

Regarding bandwidth usage, when FlexxAgent starts, it collects and sends an initial report of approximately 75 KB; from that point, it sends differential reports of approximately 3-4 KB. This process is responsible for executing on-demand or automatic actions on the device. At times when you are performing these actions, network traffic may increase.

FlexxAgent Analyzer collects user session information every 15 seconds, such as application consumption, resource usage, and more. And it adds this information in files of about 35-50 KB, which are sent every 5 minutes to the consoles.

In multi-user systems, a single instance of FlexxAgent will run and as many instances of FlexxAgent Analyzer as user sessions the system has.

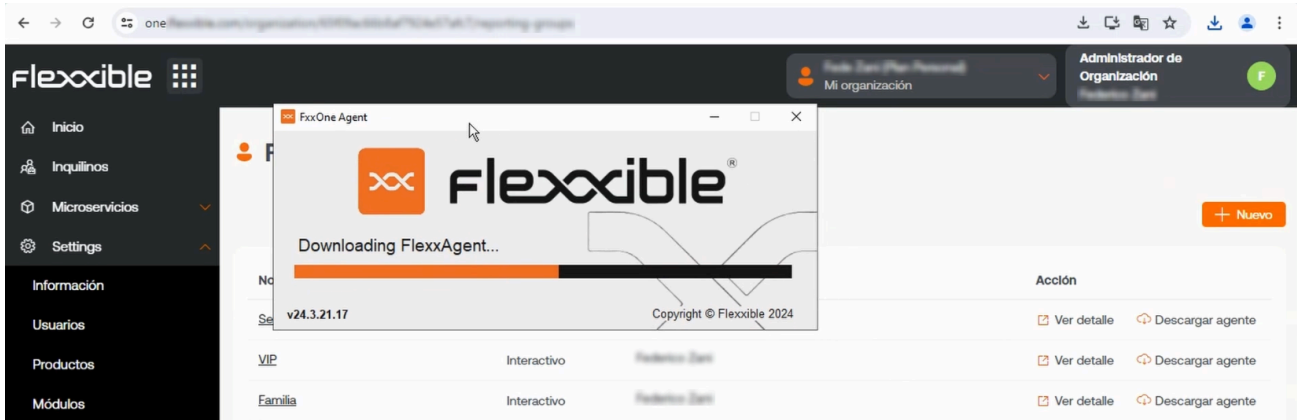
Required URLs and Ports

In terms of communications, FlexxAgent must be able to contact the orchestration layer of the service hosted on the Internet, which includes:

URL	Ambit	Port	Region	Product
queue***.servicebus.windows.net	Agent	443	West Europe	FXXOne, FlexxClier FlexxDes
flxiothub***.azure-devices.net	Agent	443	West Europe	FXXOne, FlexxClier FlexxDes

URL	Ambit	Port	Region	Product
https://west-eu.agent-api.flexxanalyzer.com	Agent	443	West Europe	FXXOne, FlexxCliet FlexxDes
https://flexibleglobal.blob.core.windows.net	Agent	443	West Europe	FXXOne, FlexxCliet FlexxDes
https://api.ipify.org	Agent	443	West Europe	FXXOne, FlexxCliet FlexxDes
ras.flexxible.com (ra.flexxible.com will be deprecated in June 2025)	Agent – Remote Assistance	443	West Europe	FXXOne, FlexxCliet FlexxDes
https://update.workspaces.flexxible.com/	Agent	443	West Europe	FXXOne, FlexxCliet FlexxDes
https://agents-weu.flexxible.com	Agent	443	West Europe	FlexxCliet FlexxDes
https://agents-weu.one.flexxible.com	Agent	443	West Europe	FXXOne
https://agents-weu.flexxible.net	Agent	443	West Europe	FXXOne, FlexxCliet FlexxDes

FlexxAgent / Guides and tutorials for FlexxAgent



This section offers resources designed to maximize the use of FlexxAgent. It includes detailed instructions on deployment and installation, as well as advanced configuration options that allow FlexxAgent to be tailored to specific needs.

Each guide has been created to facilitate understanding and application, regardless of the user's level of experience. In addition to step-by-step instructions, you will find procedures and solutions to common problems.

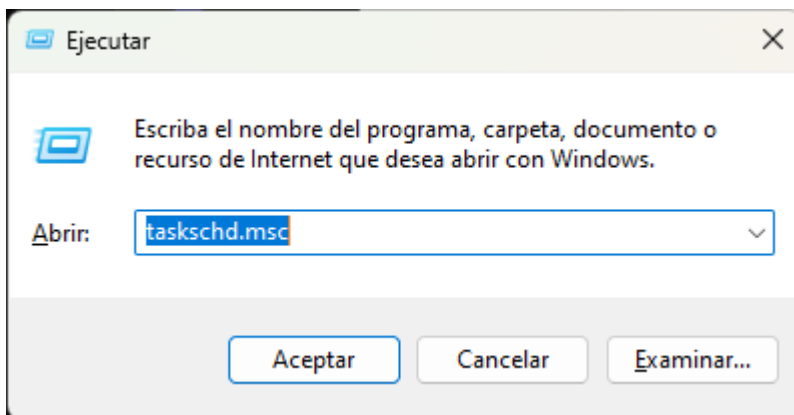
FlexxAgent / Guides and tutorials / Check FlexxAgent connectivity

To validate the connectivity of FlexxAgent with the SaaS service instances and ensure its correct execution, the procedure defined here must be carried out on a test device. This must be part of the same corporate network where the devices that will receive the future deployment of FlexxAgent are hosted.

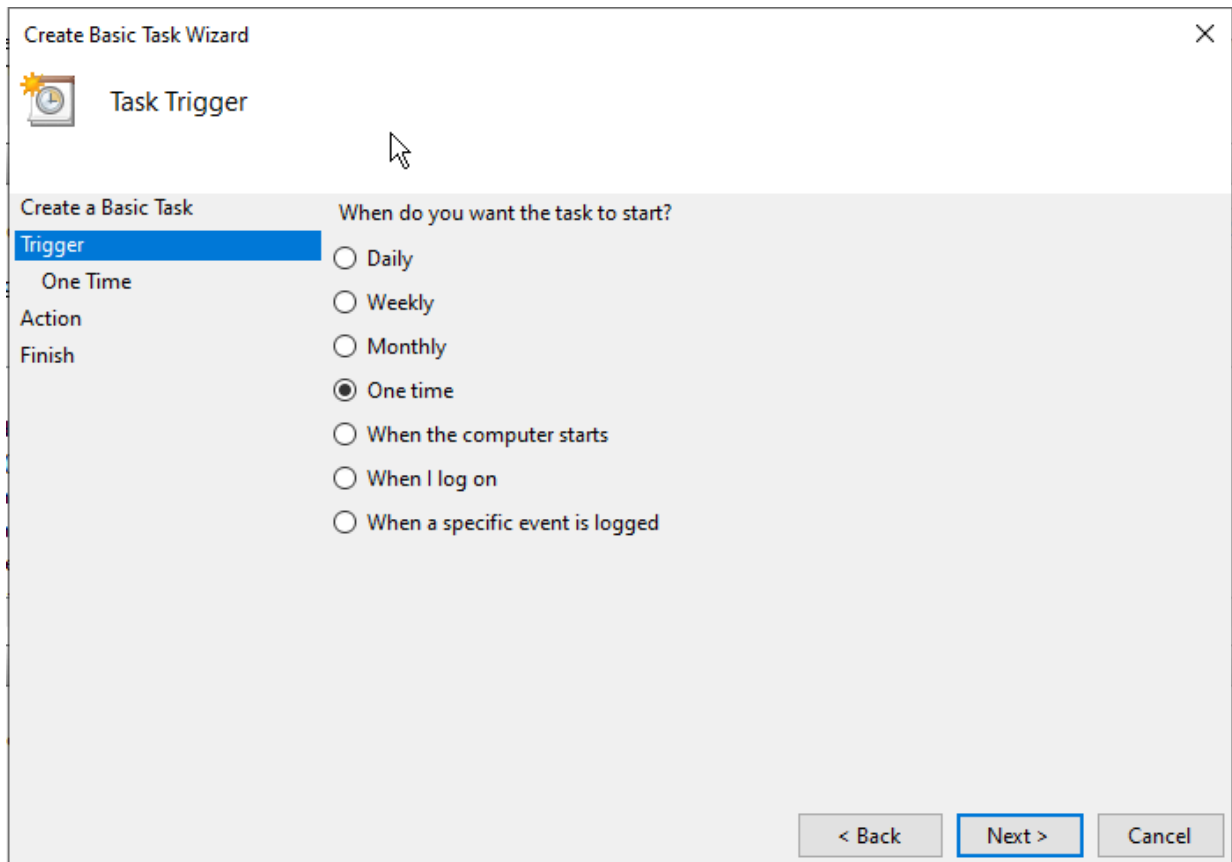
Note: This procedure only applies to **Windows** systems.

Creating a scheduled task

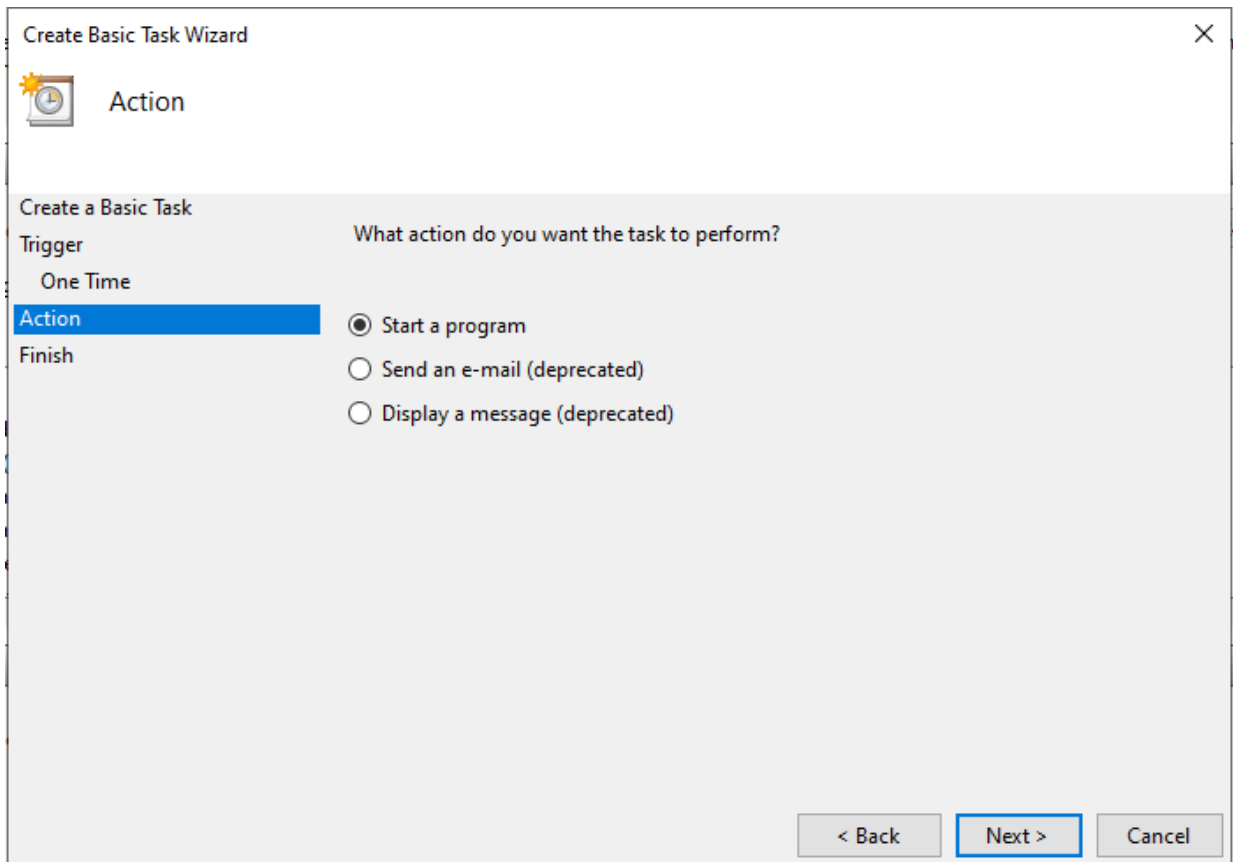
1. Access the **Run** menu (**Windows + R**) and type the command `taskschd.msc`. This opens the Windows task scheduler management console.



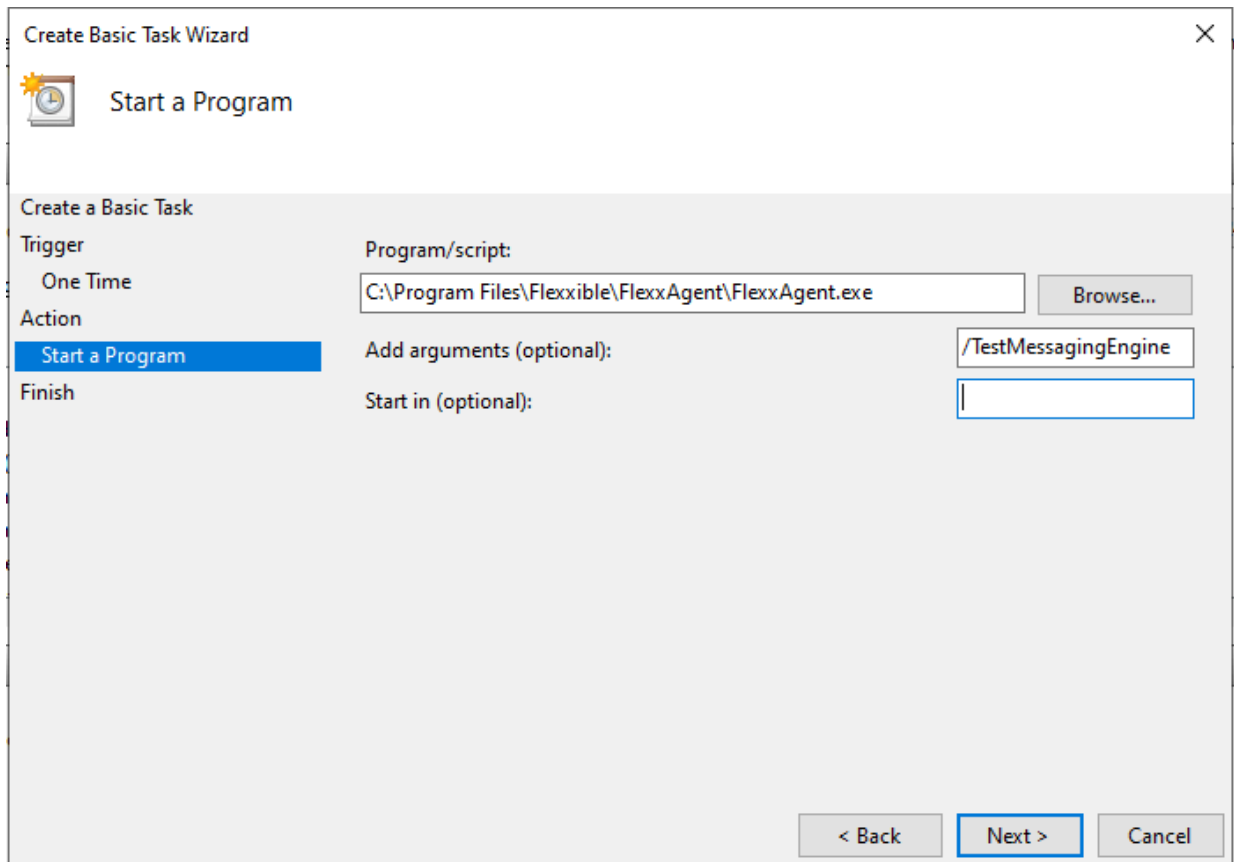
2. In the **Actions** panel, select the **Create Basic Task** option and name the task (it can be `FlexxAgent check connectivity`). You can write a description if desired, and click **Next**.
3. Next, select **One Time** and click **Next**. A date picker will appear, but it is not relevant because the task will be executed manually. Click **Next**.



4. Select the **Start a program** action and click **Next**.



5. In the `Program/script` field, type or browse to the path `C:\Program Files\Flexible\FlexxAgent\FlexxAgent.exe`. In `Additional Arguments`, type `/TestMessagingEngine`. Click `Next`.



6. Select **Open the Properties dialog for this task when I click Finish** and click **Finish**. The task properties dialog will open.

Create Basic Task Wizard

Summary

Create a Basic Task

Trigger

One Time

Action

Start a Program

Finish

Name: fh

Description:

Trigger: One time; At 1:32 on 28/08/2024

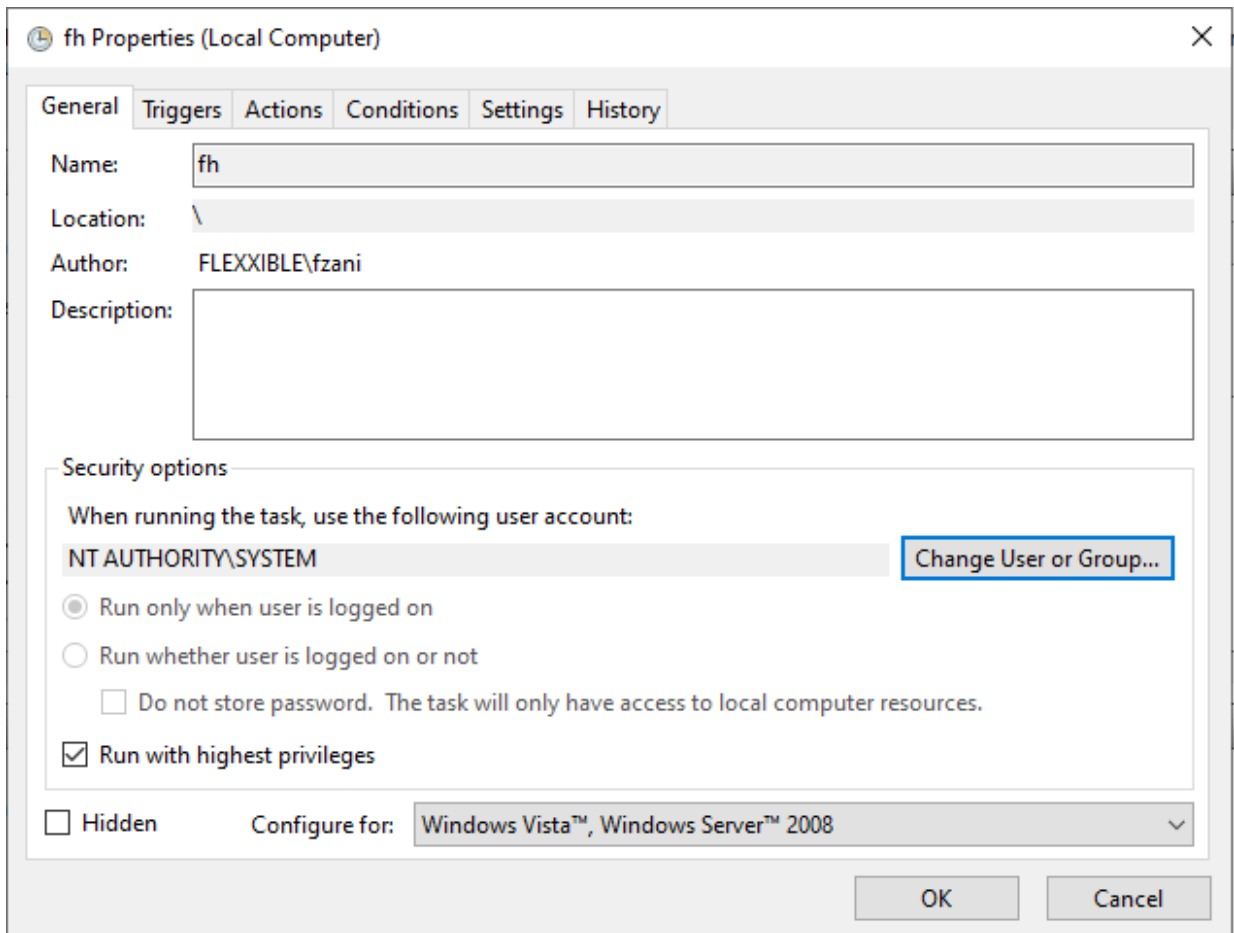
Action: Start a program; "C:\Program Files\Flexxible\FlexxAgent\FlexxAgent.exe" /Te

Open the Properties dialog for this task when I click Finish

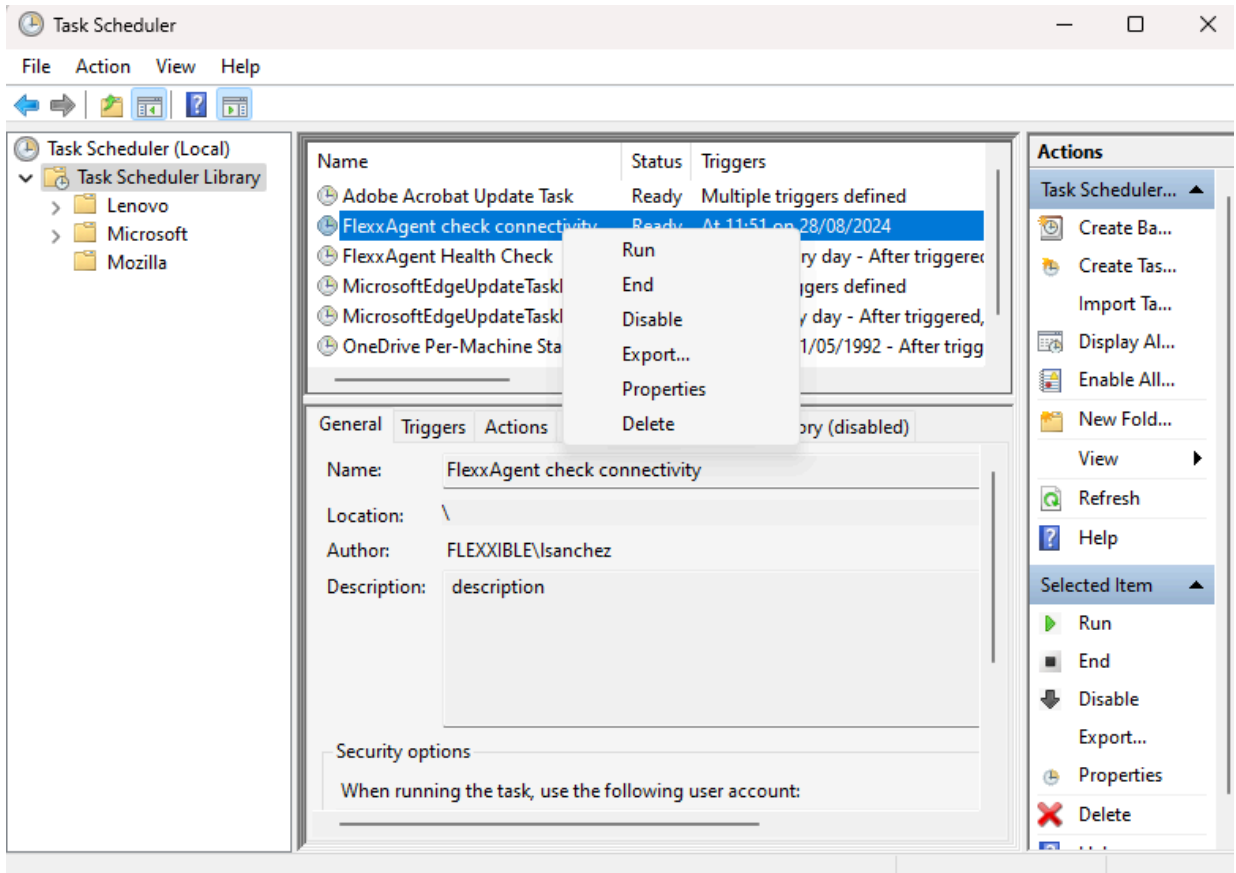
When you click Finish, the new task will be created and added to your Windows schedule.

< Back Finish Cancel

- Click on **Change User or Group**. In the text box of the pop-up window, type **SYSTEM** and then click **Check Names**. This action will check that the **SYSTEM** group exists to run the task under its identity. Hacer clic en **Aceptar** (OK) para cerrar la ventana emergente. En la ventana de propiedades, se debe seleccionar **Ejecutar con los privilegios más altos** en el checkbox y pulsar **Aceptar**.



- In the Windows task scheduler management console, search for the newly created task `FlexxAgent check connectivity`. Right-click on it and select `Run`. It will appear as `Running` in the task list.

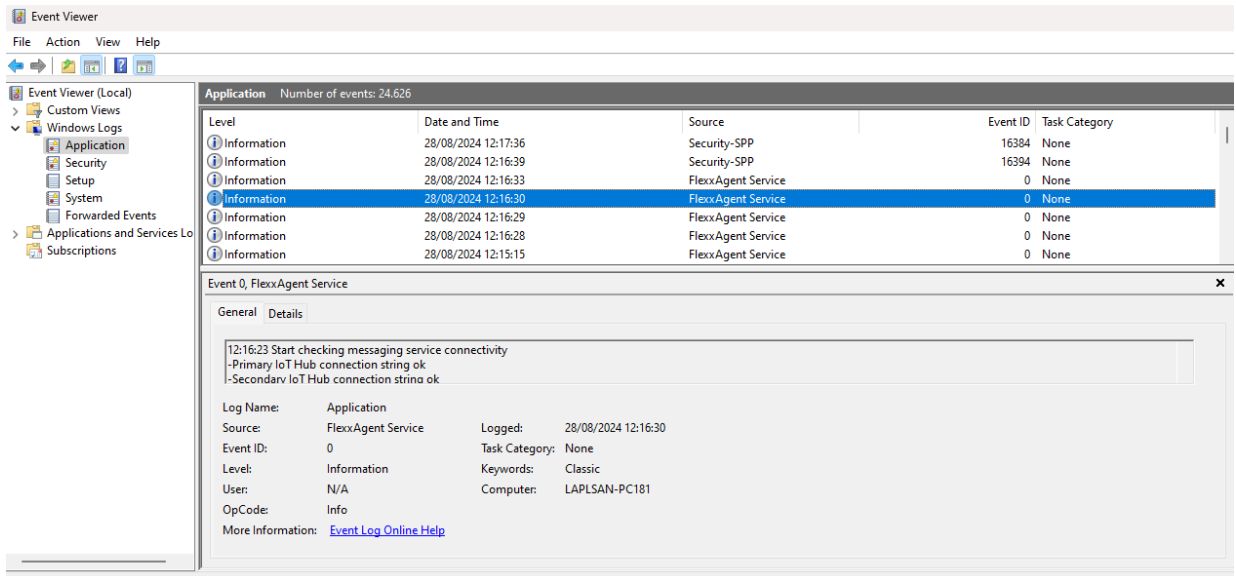


9. Select the **History** tab to see the progress of the task until you see the **Task completed** event. In case the history is disabled, it can be enabled with the **Enable history for all tasks** option in the right panel of the console.

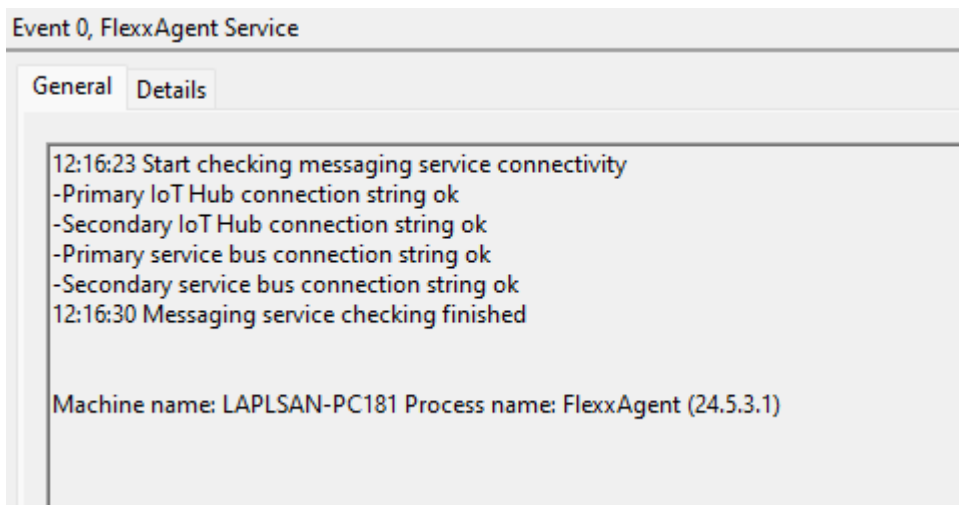
Validation of results

To review the FlexxAgent messaging engine information, access the **Event Viewer** and check for informational messages with the source service of **FlexxAgent Service**:

1. Access the **Run** menu (**Windows + R**) and type **eventvwr.msc**. This command will open the Windows event viewer. On the left side, select **Windows Logs -> Application**.



- In the list, search for the **FlexxAgent Service** event. If there are several, select the one reporting connectivity. This event reports the status of all connections:



FlexxAgent / Guides and tutorials / Deploy FlexxAgent using Microsoft Intune

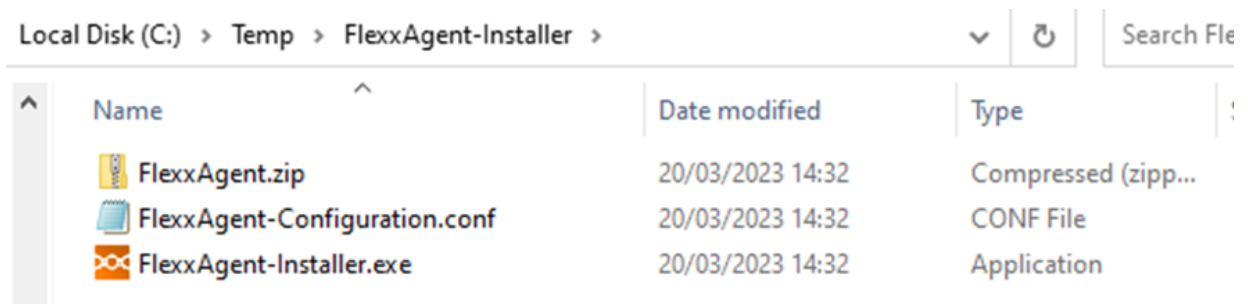
FlexxAgent can be deployed using Microsoft Intune. Before doing it, you need to check that you have the following requirements:

- Microsoft Windows 10 version 1607 or later
- The devices must be enrolled in Intune and added to the active directory in one of the following configurations:
 - Registered in Azure Entra ID (especially in `Bring your own device` environments)
 - Joined to Azure Entra ID (also known as `Joined device`)
 - Associated with a hybrid environment (AD / Azure Entra ID)
- The `Microsoft Win32 Content Prep Tool` is required.

It is recommended to have the 'offline' installation package of FlexxAgent; that way, you will have all the files necessary for installation from Intune itself.

Once you have the installation package and the previous requirements, the procedure to install the agent using Intune is as follows:

1. Unzip the installation package to some folder. You will see the files:



2. Download the `Microsoft Win32 Prep Tool`. For more information, see [Prepare a Win32 app to be uploaded to Microsoft Intune](#).
3. Create an empty folder; for example: `C:\Temp\FlexxAgent-Installer-output`.

4. Create the FlexxAgent installation package (in this example, it was extracted to `C:\Temp\FlexxAgent-Installer`). And convert it into an Intune package using the `IntuneWinAppUtil.exe` tool (Microsoft Win32 Content Prep Tool).

```


Administrator: Windows PowerShell
PS C:\Users\manuelp\Downloads\Microsoft-Win32-Content-Prep-Tool-master> .\IntuneWinAppUtil.exe
Please specify the source folder: C:\Temp\FlexxAgent-Installer
Please specify the setup file: FlexxAgent-Installer.exe
Please specify the output folder: C:\Temp\FlexxAgent-Installer-output
Do you want to specify catalog folder (Y/N)?n
INFO Validating parameters
INFO Validated parameters within 12 milliseconds
INFO Compressing the source folder 'C:\Temp\FlexxAgent-Installer' to 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin'
INFO Calculated size for folder 'C:\Temp\FlexxAgent-Installer' is 42695475 within 3 milliseconds
INFO Compressed folder 'C:\Temp\FlexxAgent-Installer' successfully within 2658 milliseconds
INFO Checking file type
INFO Checked file type within 16 milliseconds
INFO Encrypting file 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin'
INFO 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin' has been encrypted successfully within 345 milliseconds
INFO Computing SHA256 hash for C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\cdcfbe6b-ab51-480a-858b-4d7e2919792b
INFO Computed SHA256 hash for 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\cdcfbe6b-ab51-480a-858b-4d7e2919792b' within 727 milliseconds
INFO Computing SHA256 hash for C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin
INFO Computed SHA256 hash for C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin within 726 milliseconds
INFO Copying encrypted file from 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\cdcfbe6b-ab51-480a-858b-4d7e2919792b' to 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin'
INFO File 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Contents\IntunePackage.intunewin' got updated successfully within 197 milliseconds
INFO Generating detection XML file 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage\Metadata\Detection.xml'
INFO Generated detection XML file within 71 milliseconds
INFO Compressing folder 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage' to 'C:\Temp\FlexxAgent-Installer-output\FlexxAgent-Installer.intunewin'
INFO Calculated size for folder 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage' is 42469690 within 2 milliseconds
INFO Compressed folder 'C:\Users\manuelp\AppData\Local\Temp\5edb01c5-6098-486d-9b14-e47afb372dca\IntuneWinPackage' successfully within 1067 milliseconds
INFO Removing temporary files
INFO Removed temporary files within 13 milliseconds
INFO File 'C:\Temp\FlexxAgent-Installer-output\FlexxAgent-Installer.intunewin' has been generated successfully

[=====] 100%
INFO Done!!!

PS C:\Users\manuelp\Downloads\Microsoft-Win32-Content-Prep-Tool-master>

```

5. Confirm that the package has been created correctly.

Local Disk (C:) > Temp > FlexxAgent-Installer-output			
Name	Date modified	Type	Size
 FlexxAgent-Installer.intunewin	20/03/2023 14:43	INTUNEWIN File	41.475 KB

6. The created package is used to deploy an application within Intune.
7. Go to the Intune admin center.

8. Select **Apps** and then **All Apps**.

9. Select **+ Add** and choose **Windows app (Win32)** for the application type.

Select app type

Create app

App type

Windows app (Win32) ▼

Windows app (Win32)

Add a custom or in-house Win32-based app. Upload the app's installation file in .intunewin format.

[Learn more about Win32-based apps](#)

Validate your applications using Test Base for Microsoft 365

Test Base is a cloud validation service that allows you to easily onboard your applications through the Azure portal. You can quickly view deep insights including test results, performance metrics, and crash/hang signals. Through a Microsoft managed environment, you can gain access to world-class intelligence about the performance and reliability of your applications.

[Get started on Test Base](#)

Select

10. On the application information tab, click **Select app package file** and browse for the previously created package (in this example, it's in the folder C:\Temp\FlexxAgent-Installer-output).

App package file



App package file * ⓘ

"FlexxAgent-Installer.intunewin"



Name: FlexxAgent-Installer.exe

Platform: Windows

Size: 40.5 MiB

MAM Enabled: No

OK

11. On the application information tab, enter the information for FlexxAgent.

- Name: FlexxAgent-Installer standalone
- Publisher: Flexible
- App version: this information is provided in the properties of the FlexxAgent-Installer.exe file.

1 App information 2 Program 3 Requirements 4 Detection rules 5 Dependencies 6 Super

Select file * ⓘ FlexxAgent-Installer.intunewin

Name * ⓘ FlexxAgent-Installer standalone

Description * ⓘ FlexxAgent-Installer.exe

Edit Description

Publisher * ⓘ Flexible

App Version ⓘ 23.3.0.0

Category ⓘ 0 selected

Show this as a featured app in the Company Portal ⓘ Yes No

Information URL ⓘ Enter a valid url

Privacy URL ⓘ Enter a valid url

Developer ⓘ

Owner ⓘ

Notes ⓘ

Logo ⓘ Select image

Previous Next

12. On the **Program** tab, you need to include information about the install command, uninstall command, and other data.

- Install command: FlexxAgent-Installer.exe

Note: if necessary, you could introduce proxy values in this command.

- Uninstall command:

```
%ProgramFiles%\Flexible\FlexxAgent\VDIServiceUpdater.exe /uninstall
"C:\Program Files\Flexible\FlexxAgent\FlexxAgent.exe" /quiet
```

Note: double quotes are mandatory.

- Install behavior: system
- Device restart behavior: no specific action

App information
 Program
 Requirements
 Detection rules
 Dependencies
 Super

Specify the commands to install and uninstall this app:

Install command * ⓘ ✓

Uninstall command * ⓘ ✓

Install behavior ⓘ System User

Device restart behavior ⓘ ▼

Specify return codes to indicate post-installation behavior:

Return code	Code type
<input type="text" value="0"/>	<input type="text" value="Success"/> ▼
<input type="text" value="1707"/>	<input type="text" value="Success"/> ▼
<input type="text" value="3010"/>	<input type="text" value="Soft reboot"/> ▼
<input type="text" value="1641"/>	<input type="text" value="Hard reboot"/> ▼
<input type="text" value="1618"/>	<input type="text" value="Retry"/> ▼

[+ Add](#)

13. On the **Requirements** tab, you need to include information about the operating system architecture:

- Operating system architecture: 64-bit
- Minimum operating system: Select accordingly to the version used in the current installation (device fleet). For example, the minimum: **Windows 10 1607**.

[✓ App information](#)
[✓ Program](#)
[3 Requirements](#)
[4 Detection rules](#)
[5 Dependencies](#)
[6 Superseder](#)

Specify the requirements that devices must meet before the app is installed:

Operating system architecture * ⓘ	<input type="text" value="64-bit"/>
Minimum operating system * ⓘ	<input type="text" value="Windows 10 1607"/>
Disk space required (MB) ⓘ	<input type="text"/>
Physical memory required (MB) ⓘ	<input type="text"/>
Minimum number of logical processors required ⓘ	<input type="text"/>
Minimum CPU speed required (MHz) ⓘ	<input type="text"/>

Configure additional requirement rules

Type	Path/Script
No requirements are specified.	

[+ Add](#)

14. On the **Detection Rules** tab, select **Manually configure detection rules** and click on the link **+Add**. In the rule you are going to create, fill in the following fields:

- Rule type: File
- Path: %ProgramFiles%\Flexible\FlexxAgent
- File or folder: FlexxAgent.exe
- Detection method: File or folder exists
- Associated with a 32-bit app on 64-bit clients: No

Detection rule



Create a rule that indicates the presence of the app.

Rule type ⓘ

Path * ⓘ

File or folder * ⓘ

Detection method * ⓘ

Associated with a 32-bit app on 64-bit clients ⓘ

15. On the **Assignments** tab, create an Azure Entra ID security group containing the devices on which this package is to be installed.

Assignments [Review + save](#)

Required ⓘ

Any Win32 app deployed using Intune will not be automatically removed from the device when the device is retired. The app and the data it contains will remain on the device. If the app is not removed prior to retiring the device, the end user will need to take explicit action on the device to remove the app.

Group mode	Group	Filter mode	Filter	End user notifications	Availability	Installation deadline	Restart grace period	Delivery optimizatio...
<input checked="" type="radio"/> Included	AAA-FlexxAgent-Installer...	None	None	Show all toast notifications	As soon as possible	As soon as possible	Disabled	Content download in background

+ Add group ⓘ + Add all users ⓘ + Add all devices ⓘ

Available for enrolled devices ⓘ

Group mode	Group	Filter mode	Filter	End user notifications	Availability	Restart grace period	Delivery optimizatio...
No assignments							

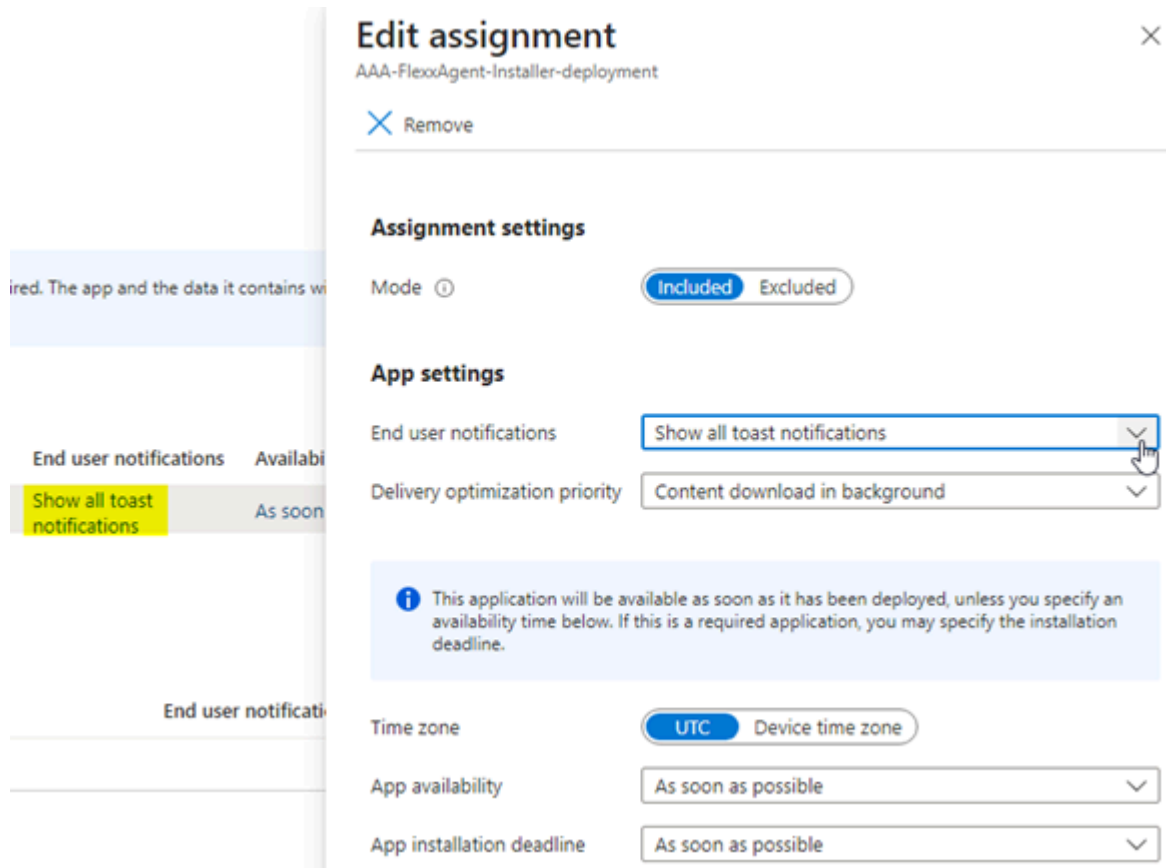
+ Add group ⓘ + Add all users ⓘ + Add all devices ⓘ

Uninstall ⓘ

Group mode	Group	Filter mode	Filter	End user notifications	Availability	Installation deadline	Restart grace period	Delivery optimizatio...
No assignments								

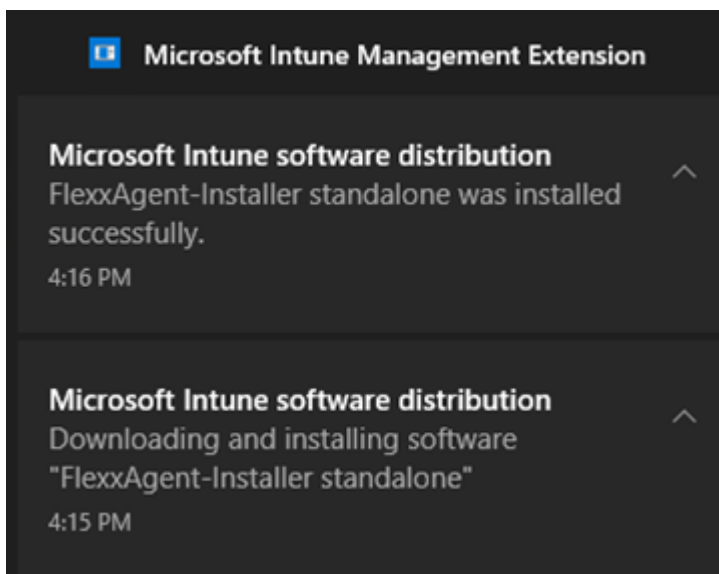
+ Add group ⓘ + Add all users ⓘ + Add all devices ⓘ

16. At this point, make sure to select the appropriate notification for the end user.



17. Click on **+Add all devices** so that it is deployed on all devices enrolled in Intune.

18. Once you click **Review+Create**, the deployment will begin. You need to allow at least one hour for it to take effect and complete.



FlexxAgent / Guides and tutorials / Install FlexxAgent configuring proxy

FlexxAgent needs to have internet connectivity. In many organizations, users connect to the internet using a proxy server.

Example

In the installation of FlexxAgent, the proxy server configuration can be included using the following command line options:

```
FlexxAgent-Installer.exe -proxyAbsoluteUri <http(s)://ip.ad.dre.ss:port> -  
proxyUser ProxyUserName -proxyPass ProxyUserPassword -proxyPersistConfig -  
repairAgent $True
```

```

C:\Users\administrator\Desktop\FlexxAgent-Installer
-proxyUser -proxyPass -proxyPersistConfig -repairAgent true
)FlexxAgent-Installer.exe -proxyAbsoluteUri |
2024-01-15 10:11:37 - FlexxAgent version: installer
2024-01-15 10:11:37 - -----
2024-01-15 10:11:37 - Required free space is 500 MB and current free space is 111320.82421875 MB
2024-01-15 10:11:37 - Path of current execution: .
2024-01-15 10:11:37 - Configuration file path: .\FlexxAgent-Configuration.conf
2024-01-15 10:11:37 - .\FlexxAgent-Installer.exe
2024-01-15 10:11:38 - Preparing temp folder...
2024-01-15 10:11:38 - Getting OS data...
2024-01-15 10:11:38 - Windows version:
2024-01-15 10:11:38 - Windows OS: Microsoft Windows 10 Enterprise
2024-01-15 10:11:38 - OS Architecture: 64-bit
2024-01-15 10:11:38 - OS language: 1033
2024-01-15 10:11:38 - Portable OS system: False
2024-01-15 10:11:38 - Total memory: 4193272
2024-01-15 10:11:38 - Total logical processors: 2
2024-01-15 10:11:38 - Temporary folder: C:\Windows\Temp\FlexxibleIT
2024-01-15 10:11:38 - Checking .Net Framework version
2024-01-15 10:11:38 - Checking OS architecture
2024-01-15 10:11:38 - 64-bit
2024-01-15 10:11:38 - Logon server:
2024-01-15 10:11:38 - Attempted to install FlexxAgent version 23.10.0.0
2024-01-15 10:11:38 - RepairAgent option is set to true. The current FlexxAgent version will be overwritten.
2024-01-15 10:11:38 - Configuring TLS 1.2 connection
2024-01-15 10:11:38 - FlexxAgent online installation
2024-01-15 10:11:38 - Provided proxy: |
2024-01-15 10:11:38 - Downloading file
2024-01-15 10:11:38 - Provided proxy settings:
2024-01-15 10:11:38 - Provided proxy port: 3128
2024-01-15 10:11:38 - Provided proxy authentication:
2024-01-15 10:11:42 - Configuring FlexxAgent communications...
2024-01-15 10:11:42 - Configuring FlexxAnalyzer...
2024-01-15 10:11:42 - Uncompressing install package...
2024-01-15 10:11:43 - Attempted to install FlexxAgent version:
2024-01-15 10:11:43 - Package detected version: (
2024-01-15 10:11:43 - FlexxAgent status: uninstalled
2024-01-15 10:11:43 - Installing FlexxAgent...
2024-01-15 10:11:43 - MSI file: C:\Windows\Temp\FlexxibleIT\FlexxAgent_Setup.msi
2024-01-15 10:11:43 - Log file installation: C:\Windows\Temp\FlexxibleIT\FlexxAgentInstallation.log
2024-01-15 10:11:43 - Set persistent proxy configuration for FlexxAgent service 'Proxy_URL'
2024-01-15 10:11:43 - Set persistent proxy configuration for FlexxAgent service 'Proxy_User'
2024-01-15 10:11:43 - Set persistent proxy configuration for FlexxAgent service 'Proxy_Pwd'
2024-01-15 10:11:47 - Installation completed.
2024-01-15 10:11:47 - Process completed.
C:\Users\administrator\Desktop\FlexxAgent-Installer

```

Explanation of the options

- **proxyAbsoluteUri**: the address of the proxy server, expressed as a full “URL”; for example `https://192.168.1.1:3128`.
- **proxyUser**: the user identifier for authentication on the proxy server; for example `Administrator`. This parameter is optional if the proxy server does not require authentication.
- **proxyPass**: the password for the above identifier. This parameter is optional when the proxy does not require authentication.

The value can be plain text (not recommended) or base64 encoded, preceded and followed by the string “&&&”; for example `&&&VGhpc01zTjArQCQzY3VyZVBAJCR3MHJk&&&`, in any case, FlexxAgent encrypts this value at startup.

For base64 encoding, you can use any generator, such as <https://www.base64encode.org/>.

proxyPersistConfig

This parameter must be specified to persist the proxy configuration entered in the other parameters. If not specified, the proxy configuration will only be used in the installation process and will not affect subsequent executions of FlexxAgent.

For Windows operating systems, the proxy configuration data will persist in the registry, within the following keys:

Key Proxy_URL

- Key path:
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexible\FlexxAgent\Communications
- Key Name: Proxy_URL
- Key type: REG_SZ
- Supported values: the URL and port; for example '<http://192.168.1.1:3128>' or '<https://192.168.1.1:3128>'

Key Proxy_User

- Key path:
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexible\FlexxAgent\Communications
- Key Name: Proxy_User
- Key type: REG_SZ
- Supported values: the username to authenticate to the proxy; for example 'Administrator'. It can be bypassed for unauthenticated proxies.

Key Proxy_Pwd

- Key path:
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexible\FlexxAgent\Communications
- Key Name: Proxy_Pwd
- Key type: REG_SZ

- Accepted values: the password for authenticating to the proxy. It can be bypassed for unauthenticated proxies. The Proxy_Pwd key value can be set in plain text (not recommended) or base64 encoded and enclosed by «&&&»; for example `&&&VGhpc01zTjArQCQzY3VyZVBAJCR3MHJk&&&` for the “Proxy_Pwd” value.

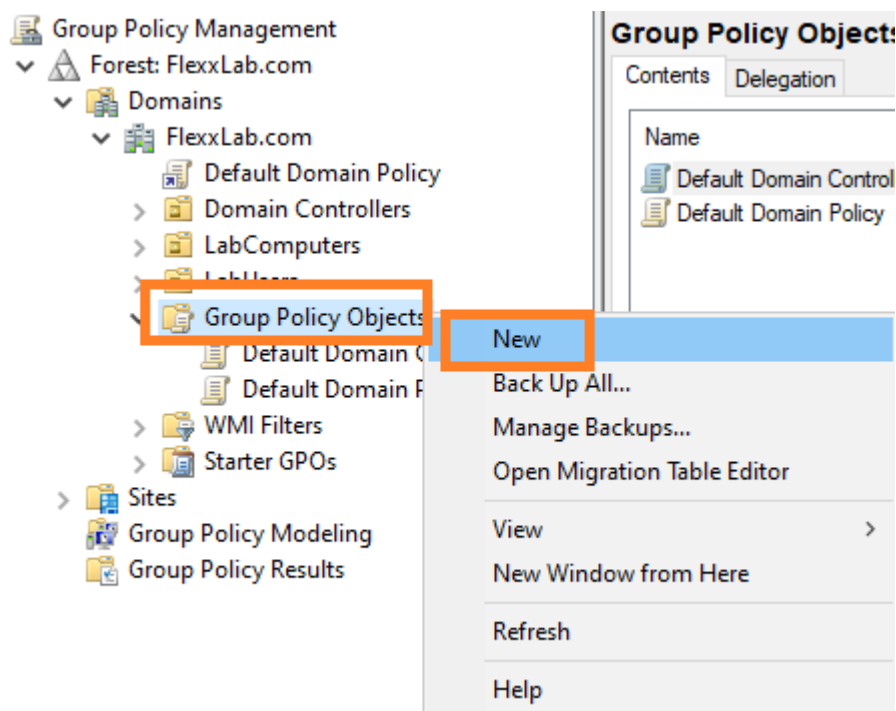
RepairAgent

If `$true`, forces the repair of FlexxAgent; it is important to know that the command will fail if this parameter is specified and FlexxAgent has not been installed beforehand.

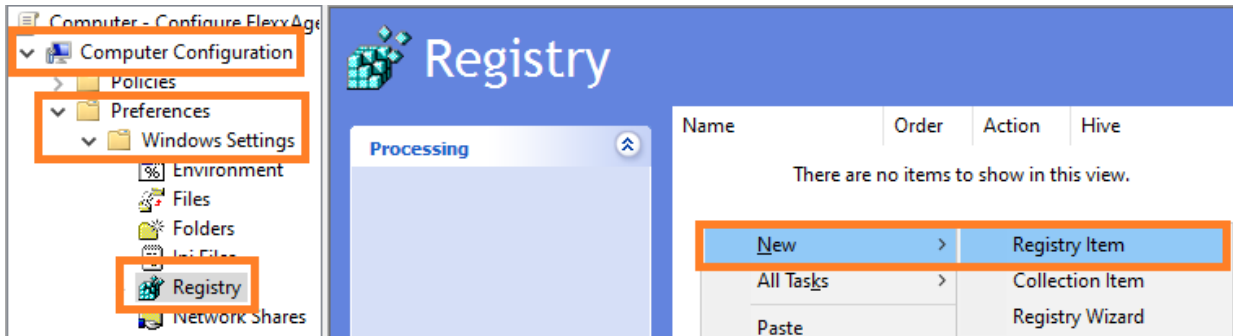
FlexxAgent / Guides and tutorials / Apply proxy configuration via group policies (GPO)

In many cases, the organization's connectivity goes through a proxy; it could be for security, performance, or other reasons. This proxy configuration in FlexxAgent can be done in two ways: using a group policy (GPO) or during the agent installation. To configure the proxy using a group policy, follow these steps:

1. Access the domain controller's group policy management console. Create a new policy using the **New** option from the menu that appears when you right-click on **Group Policy Objects**.



2. Give the new policy an appropriate name and click the **OK** button.
3. Select the policy with the right mouse button and edit it (select **Edit...**)
4. In the edit window, expand **Computer Configuration**, **Preferences**, and **Windows Settings**. Select **Registry** and then **New** -> **Registry Item**.

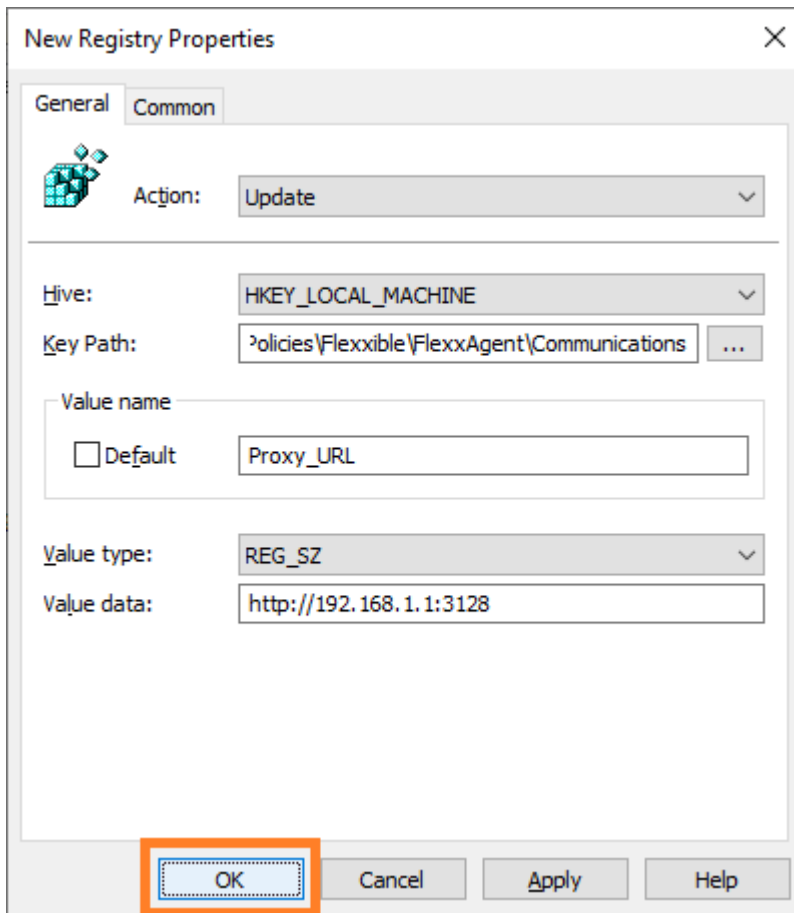


5. Add the following information and click **OK**.

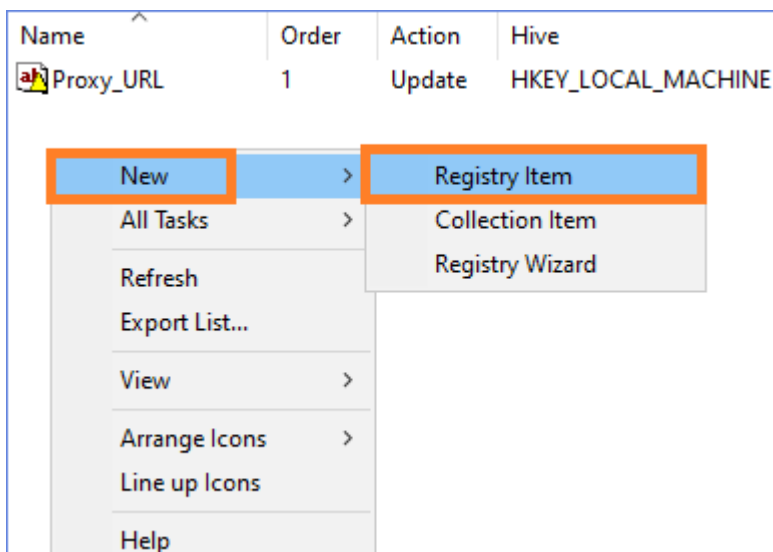
- Action: Update
- Key path:


```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexible\FlexxAgent\Communicati
      ons
```
- Value Name: Proxy_URL
- Value type: REG_SZ
- Value data: the proxy's address (URL) and port number. For example


```
https://192.168.1.1:3128.
```



6. In the right panel, add a new registry entry again with the right mouse button, selecting **New** -> **Registry Item**.



7. Add the following information and click **OK**.

- Action: Update

- Key path:

HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexxible\FlexxAgent\Communications

- Value Name: Proxy_User
- Value type: REG_SZ
- Value data: the username to authenticate to the proxy server. For example Admin.

8. In the right panel, add a new registry entry again with the right mouse button, selecting **New** -> **Registry Item**.

9. Add the following information and click **OK**.

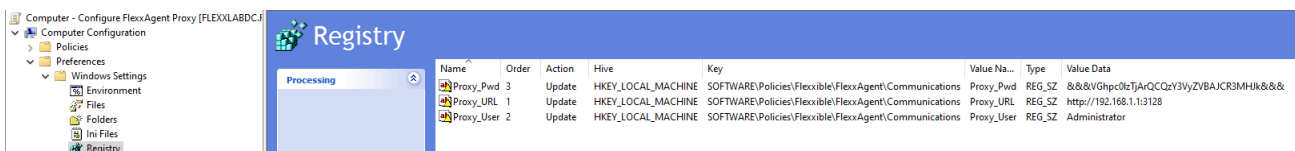
- Action: Update

- Key path:

HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexxible\FlexxAgent\Communications

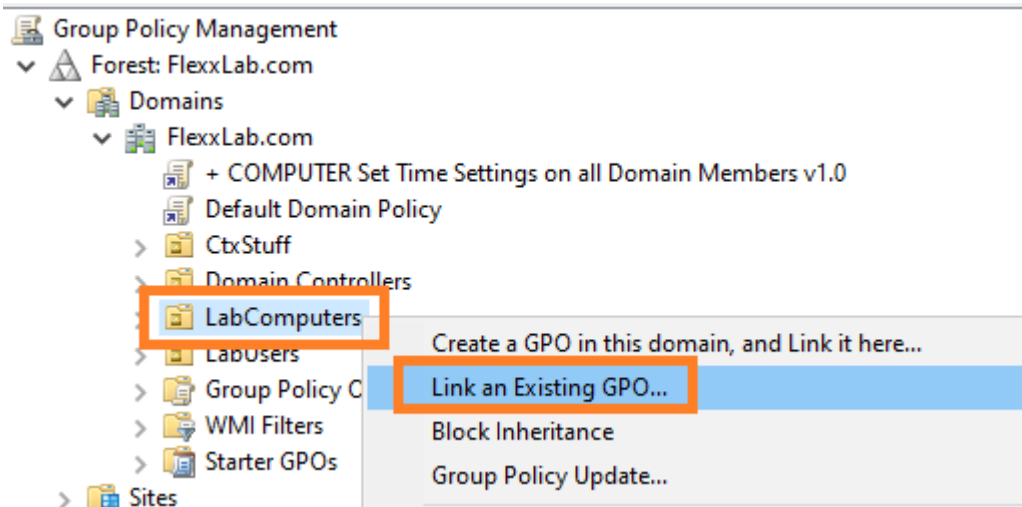
- Value Name: Proxy_Pwd
- Value type: REG_SZ
- Value data: the password for authenticating to the proxy server, corresponding to the user configured in the previous step.
 - The Proxy_Pwd key value can be filled in plaintext (not recommended) or encoded in base64 by putting the string &&& before and after it. Example: &&&VGhpc0lzTjArQCQzY3VyZVBAJCR3MHJk&&&.
 - In any case, FlexxAgent encrypts the value of this field at startup.
 - To encode the password in base64, you can use a web service like <https://www.base64encode.org/>.

10. Three registry entries will have been created in the group policy.



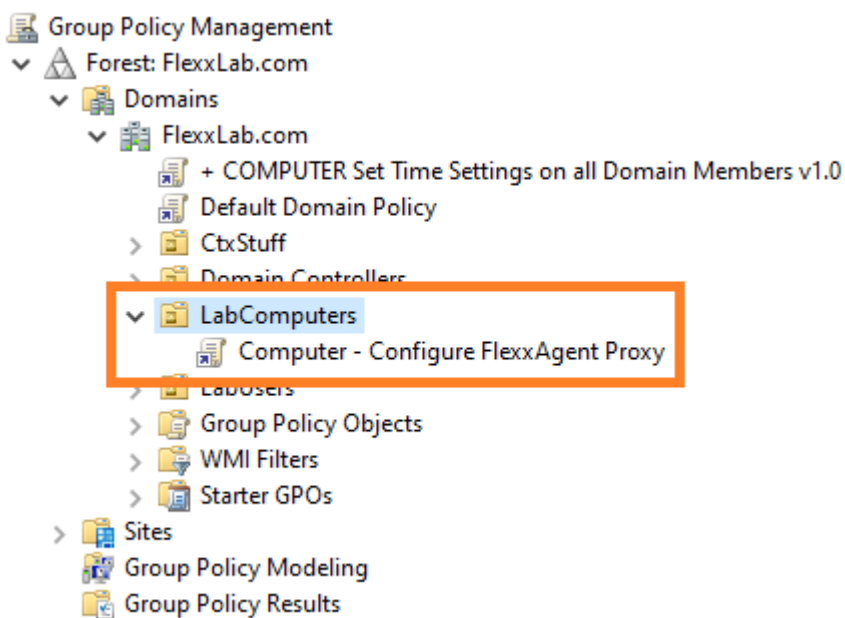
11. Close the editor.

12. With the right mouse button, select the list of devices that will receive this configuration within the domain controller (under the domain or organizational unit) and select `Link an Existing GPO`.



13. Select the previously created group policy.

14. The policy is linked to the devices selected in the domain controller.



15. **Optional step:** if you want to verify on a computer that the group policy has been applied correctly, you need to restart the computer. Once it starts, you can go to the registry editor and check that the entries were created correctly.

Registry Editor

File Edit View Favorites Help

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Flexible\FlexxAgent\Communications

Name	Type	Data
(Default)	REG_SZ	(value not set)
Heartbeat	REG_SZ	2023-02-21 15:44:39
Proxy_Pwd	REG_SZ	&&&VGhpc0lzTjArQCQzY3VyZVBAJCR3MHJk&&&
Proxy_User	REG_SZ	Administrator
Proxy_UTL	REG_SZ	http://192.168.1.1:3128
ReportInterval	REG_SZ	00

FlexxAgent / Guides and tutorials / Deployment of FlexxAgent with Group Policy (GPO)

FlexxAgent can be deployed using group policies in Windows (GPOs). You need access to the agent installation package, which can be downloaded from the Flexible portal.

Deploying

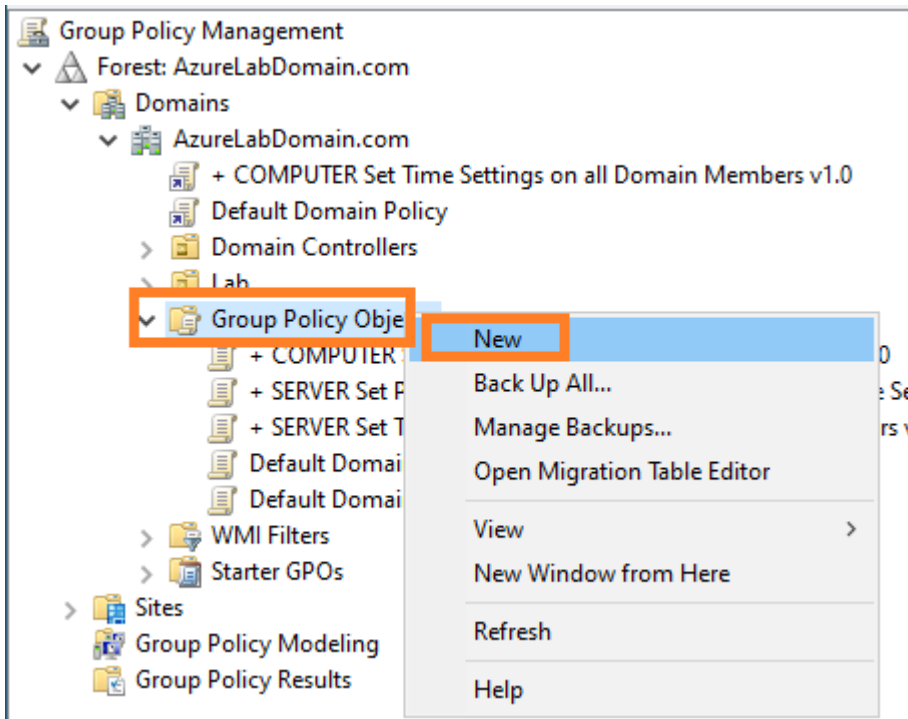
1. Create a Powershell `script` called `Install.ps1` with the following content:

```
Start-Process Path to the file\FlexxAgent-Installer.exe
```

```
Example: Start-Process C:\Temp\FlexxAgent-Installer\FlexxAgent-  
Installer.exe
```

Note: Make sure that, apart from the executable, the line includes the necessary installation parameters, such as the proxy, if needed.

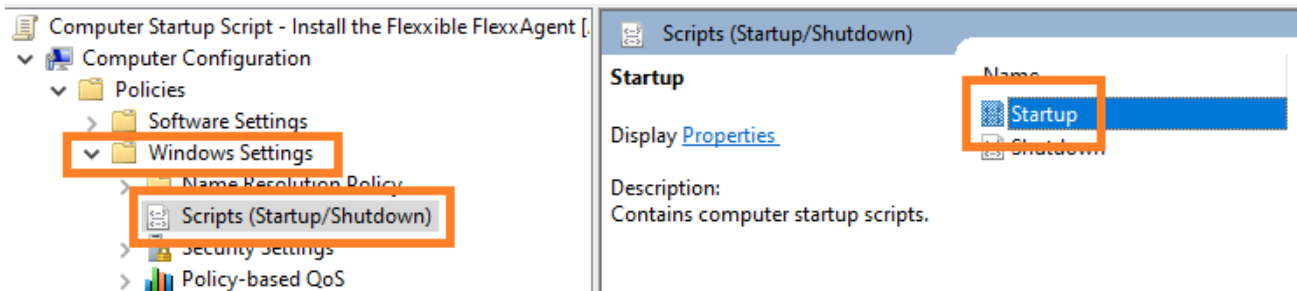
2. Save the file for later use.
3. Run the group policy management console in a domain controller that has remote computer management tools installed.
4. Create a new group policy within the group policy container.



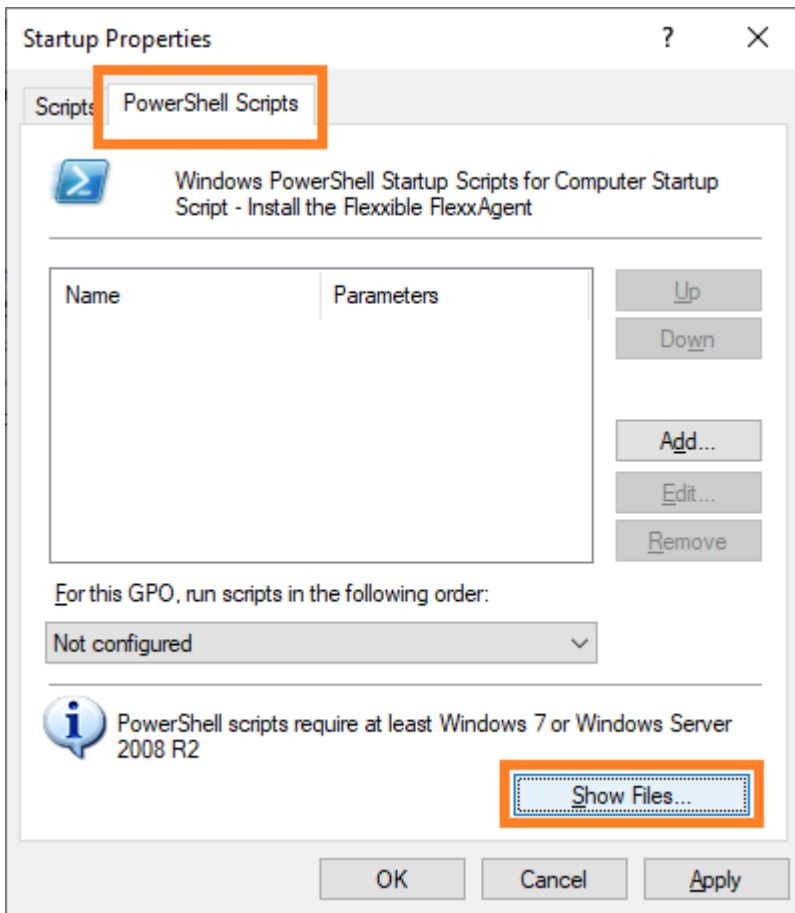
5. Give the new policy a name. Choose one that is meaningful.

6. Right-click on the group policy and select **Edit**.

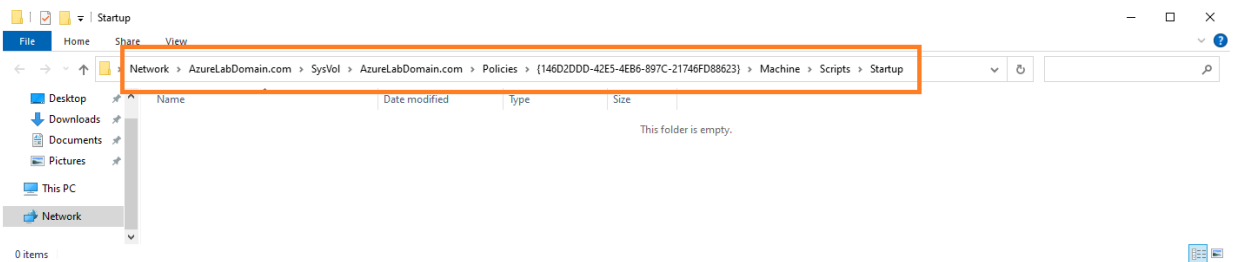
7. Expand the tree **Computer Configuration** -> **Windows Settings** and select **Scripts (Startup/Shutdown)**



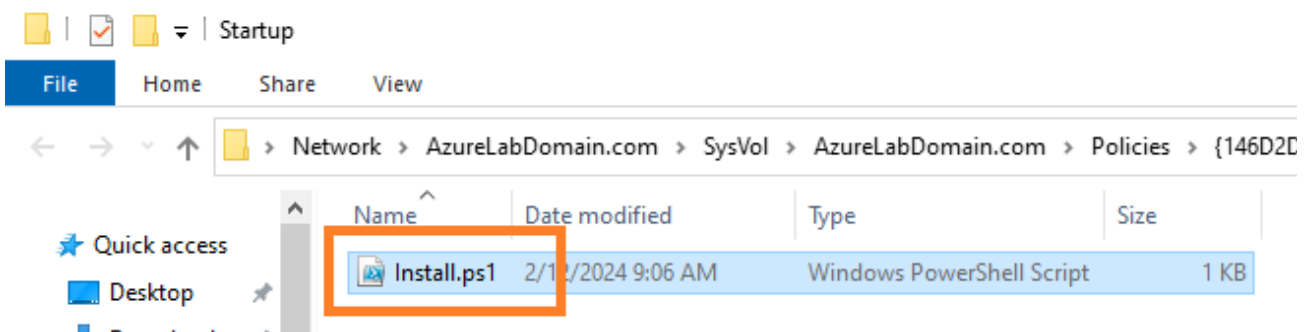
8. A dialog will appear in a new window. Select **PowerShell Scripts** in it. Next, click on the **Show Files...** button



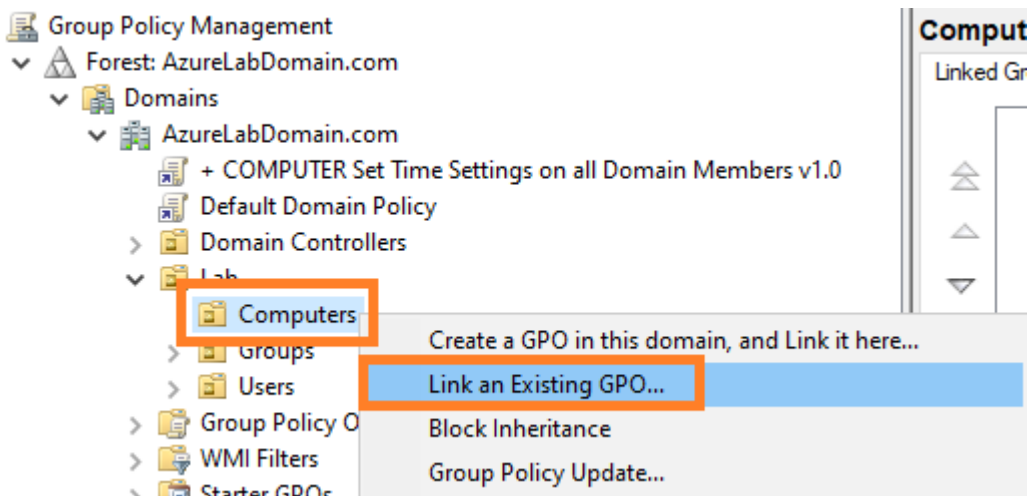
9. The network folder where the scripts for the group policy are stored will open.



10. Copy the `Install.ps1` file created initially and paste it into the storage network folder for group policy scripts.



11. You can now close the Windows Explorer window that accessed the folder with the group policy scripts.
12. The startup script properties modal window will be visible again. Click on the **Add...** button.
13. A file selection dialog will appear. Find the script to use by clicking on the **Browse...** button.
14. The previous path will open, where the file created at the beginning of the procedure will be. Double-click on it or select it and click the **Open** button.
15. Once the file is selected, select **OK** to close the dialog. The file will appear in the configuration modal window.
16. Select **OK** to close this window. You'll return to the group policy editor. This window can be closed.
17. Find the organizational unit branch, within the domain controller where the computers for FlexxAgent installation are located. Select the branch and right-click on it. Select **Link an Existing GPO**.

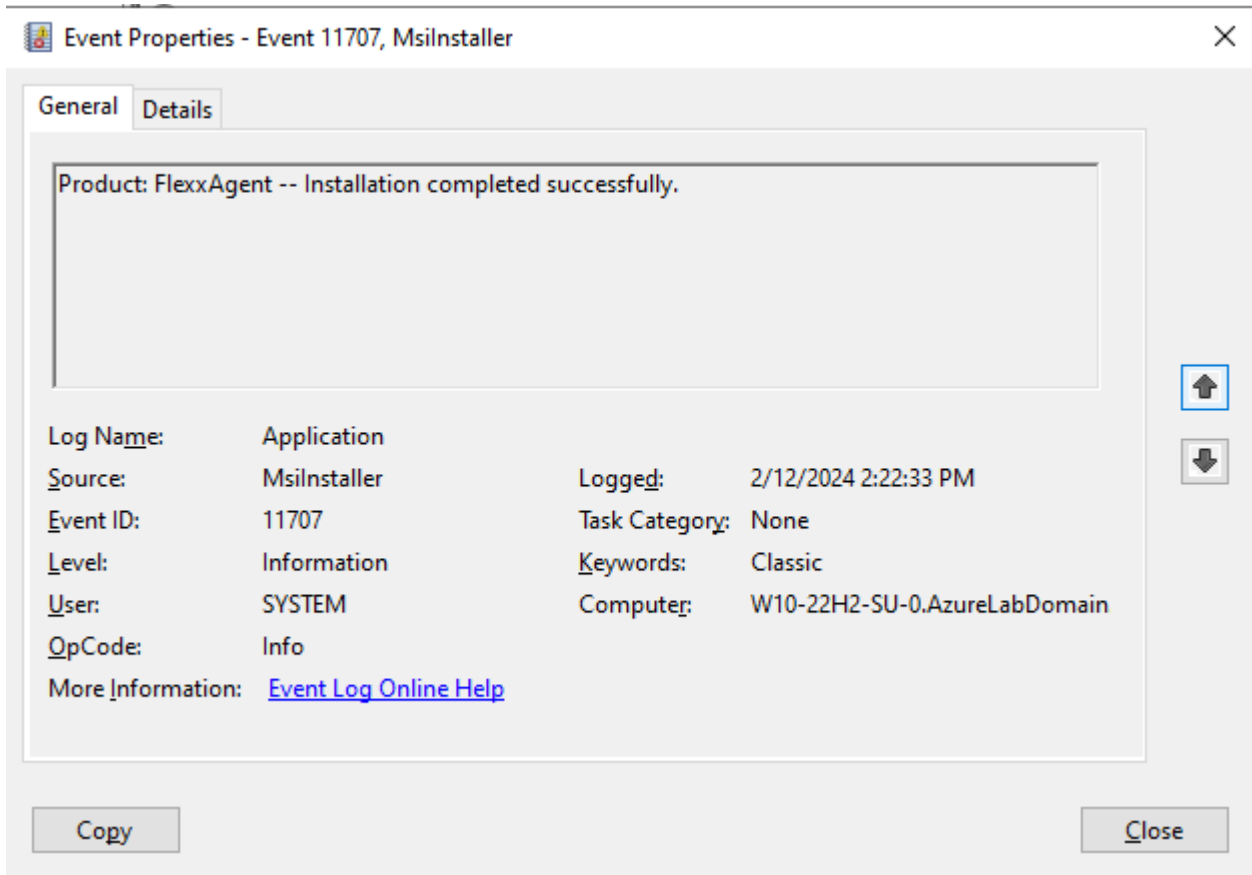


18. A selection dialog will appear where the previously created policy will be selected. Once selected, click **OK**.

Verification

To validate the installation of FlexxAgent within a domain machine, restart a machine in the domain for the group policy to take effect. After the restart, access the application event

log and you will see several events generated during the installation and initial run of FlexxAgent, including:



After a few minutes, you will see the new device registered in the Workspaces module and in the **Workspaces** view of the Portal.

Workspace \ W10-22H2-SU-0

Operations

General

Domain	Name	Summary status	Power state	FlexxAgent version	FlexxAgent status
AzureLabDomain.com	W10-22H2-SU-0	On	On	23.6.0.1	Working

Sessions

Last user	Connected from	Connection time
AZURELABDOMAIN\Flexxadmin		

OU
OU=Computers,OU=Lab,DC=AzureLabDomain,DC=com

Tags

Extended

RAM	Cores	Local disk (C:)	IP address	Windows edition	Windows Type
8 GB	2	96.9 GB free of 126.5 GB (23% used)	172.16.2.8	Microsoft Windows 10 Enterprise 22H2	Client (Workstation)

Uptime	Idle time	Last windows update	Last boot duration (l)
19m	0 Hours	1/29/2024	107 s

Resource group	Size	Host pool	Session host type
Azure_Lab_RIG	Standard_D2s_v3	HP-W10-22H2-SU-0	Personal

Broker type	Hypervisor	Farm	Subscription/Broker
Azure Virtual Desktop	Microsoft Azure	Default subscription	Default subscription

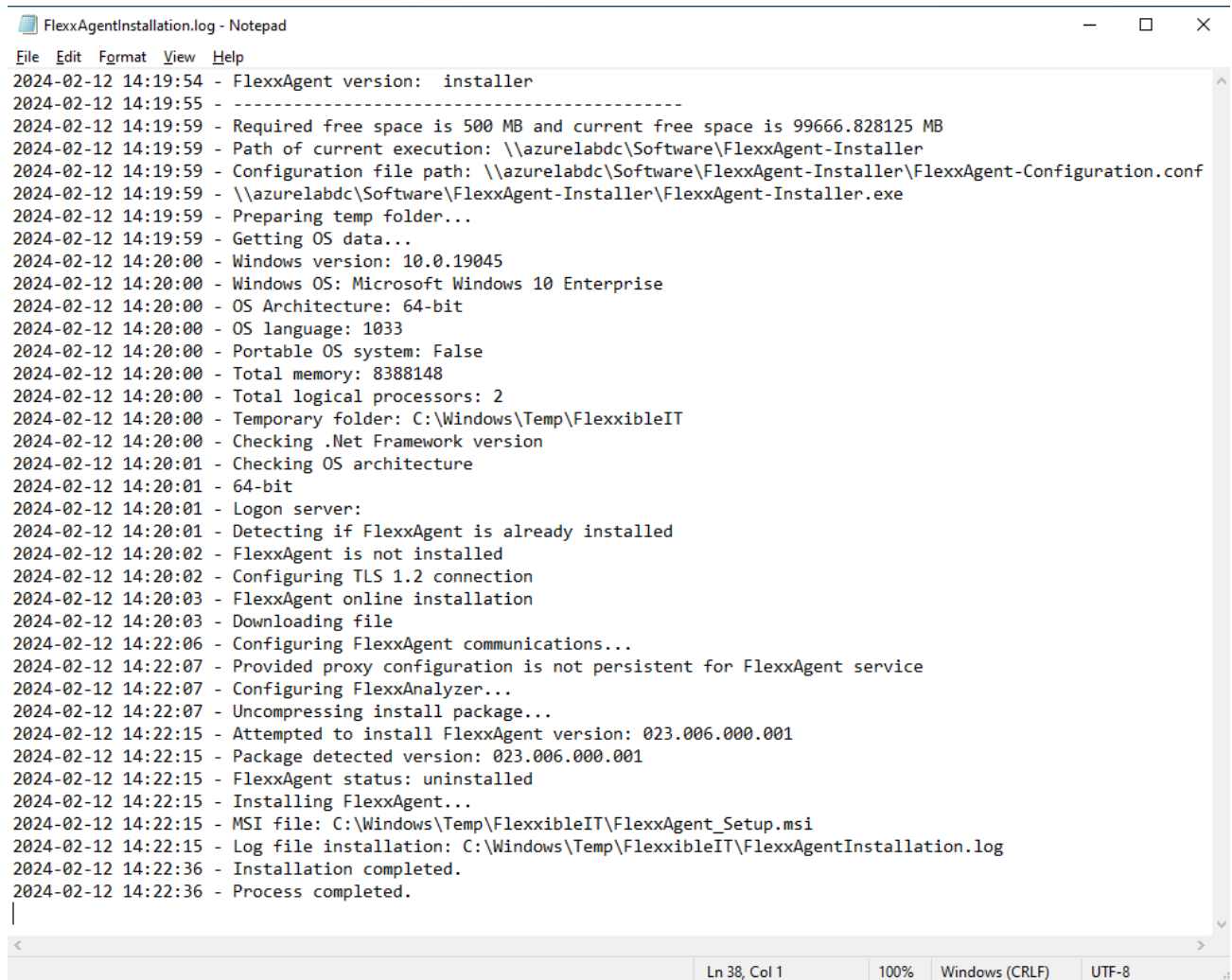
Session analyzer
Not Configured

Session analyzer version

BIOS Manufacturer	BIOS Version	SMBIOS Version	BIOS Serial Number
American Megatrends Inc.	VIRTUAL - 1.2001807	0000-0017-6556-7696-1719-2723-94	0000-0017-6556-7696-1719-2723-94

The installation log can be seen in detail in the file

`C:\Windows\Temp\FlexxAgentInstallation.log`.



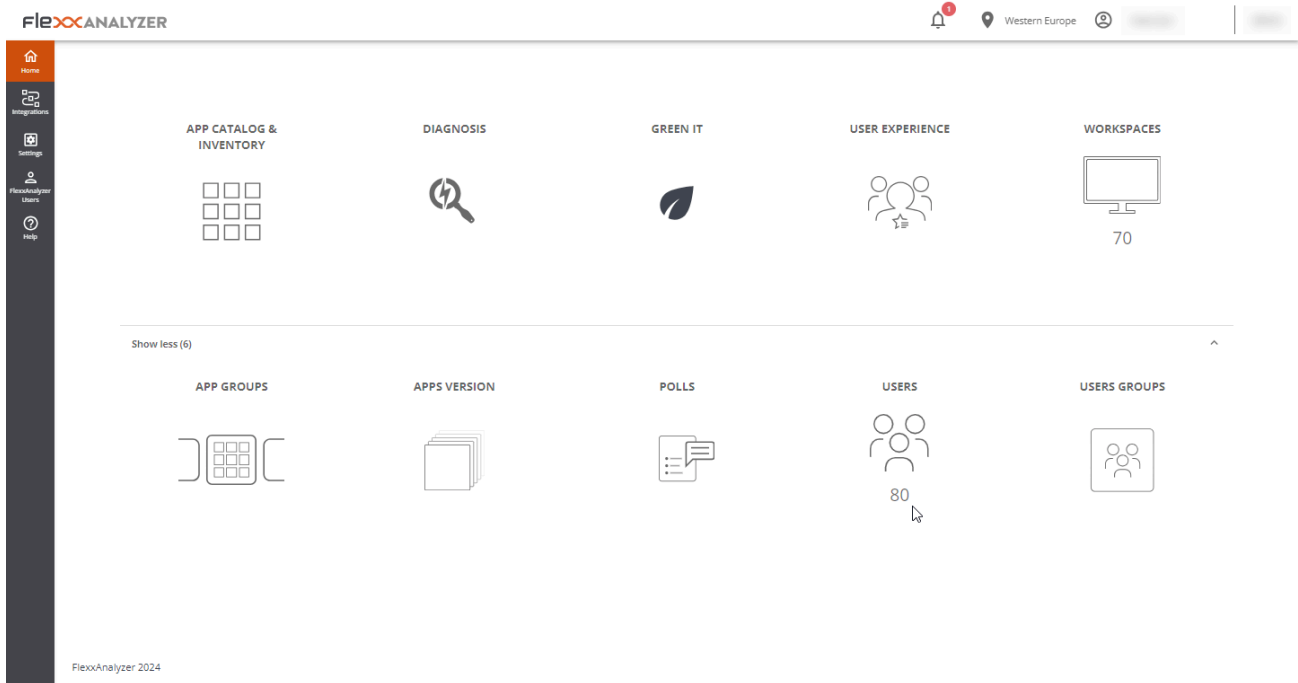
```

FlexxAgentInstallation.log - Notepad
File Edit Format View Help
2024-02-12 14:19:54 - FlexxAgent version: installer
2024-02-12 14:19:55 - -----
2024-02-12 14:19:59 - Required free space is 500 MB and current free space is 99666.828125 MB
2024-02-12 14:19:59 - Path of current execution: \\azurelabdc\Software\FlexxAgent-Installer
2024-02-12 14:19:59 - Configuration file path: \\azurelabdc\Software\FlexxAgent-Installer\FlexxAgent-Configuration.conf
2024-02-12 14:19:59 - \\azurelabdc\Software\FlexxAgent-Installer\FlexxAgent-Installer.exe
2024-02-12 14:19:59 - Preparing temp folder...
2024-02-12 14:19:59 - Getting OS data...
2024-02-12 14:20:00 - Windows version: 10.0.19045
2024-02-12 14:20:00 - Windows OS: Microsoft Windows 10 Enterprise
2024-02-12 14:20:00 - OS Architecture: 64-bit
2024-02-12 14:20:00 - OS language: 1033
2024-02-12 14:20:00 - Portable OS system: False
2024-02-12 14:20:00 - Total memory: 8388148
2024-02-12 14:20:00 - Total logical processors: 2
2024-02-12 14:20:00 - Temporary folder: C:\Windows\Temp\FlexxibleIT
2024-02-12 14:20:00 - Checking .Net Framework version
2024-02-12 14:20:01 - Checking OS architecture
2024-02-12 14:20:01 - 64-bit
2024-02-12 14:20:01 - Logon server:
2024-02-12 14:20:01 - Detecting if FlexxAgent is already installed
2024-02-12 14:20:02 - FlexxAgent is not installed
2024-02-12 14:20:02 - Configuring TLS 1.2 connection
2024-02-12 14:20:03 - FlexxAgent online installation
2024-02-12 14:20:03 - Downloading file
2024-02-12 14:22:06 - Configuring FlexxAgent communications...
2024-02-12 14:22:07 - Provided proxy configuration is not persistent for FlexxAgent service
2024-02-12 14:22:07 - Configuring FlexxAnalyzer...
2024-02-12 14:22:07 - Uncompressing install package...
2024-02-12 14:22:15 - Attempted to install FlexxAgent version: 023.006.000.001
2024-02-12 14:22:15 - Package detected version: 023.006.000.001
2024-02-12 14:22:15 - FlexxAgent status: uninstalled
2024-02-12 14:22:15 - Installing FlexxAgent...
2024-02-12 14:22:15 - MSI file: C:\Windows\Temp\FlexxibleIT\FlexxAgent_Setup.msi
2024-02-12 14:22:15 - Log file installation: C:\Windows\Temp\FlexxibleIT\FlexxAgentInstallation.log
2024-02-12 14:22:36 - Installation completed.
2024-02-12 14:22:36 - Process completed.
|
Ln 38, Col 1 100% Windows (CRLF) UTF-8

```

Analyzer

Analyzer is a comprehensive solution for managing digital experience (DeX), responsible for collecting analytical data from devices and evaluating application performance.



Included tools

With Analyzer, you can have a series of tools that allow you to perform a thorough analysis of user experience, both individually and organizationally.

It also collects information about paper printing and the organization's carbon footprint, as well as cataloging and inventorying installed applications.

It allows conducting surveys to obtain a subjective evaluation of users' perception, as well as detailed diagnostics of resources consumed per user session or per application in each session.

Tools included in Analyzer:

- **App Catalog & Inventory:** Provides an inventory of applications and their versions within the organization.











- **Diagnosis:** Enables a diagnostic view and allows seeing detailed resource and application usage by devices within configurable time slots.
- **Green IT:** Allows evaluating the carbon footprint generated through printing and the power consumption of devices and their peripherals.
- **User experience:** Helps detect and solve issues through the analysis of device performance and user sentiment.
- **Workspaces:** Provides an inventory view of the devices and collects information about detected issues.
- **App Groups:** Allows creating groups of applications for joint analysis.
- **Apps version:** Provides a condensed view of the applications with the most versions over time.
- **Polls:** Allows configuring the distribution of surveys to capture user sentiment and use this data to build the User Experience Index (UXI).
- **Users:** Contains information about detected users and for each of them details the applications and devices used historically.
- **User Groups:** Allows creating user groups.

Web Interface

List Views

List views allow filtering and selecting items in the different options of the module.

Results will appear in a list format, where you can make use of filters or navigate between different result pages.

Name ↑	Unique Identifier	OS	Workspaces	Users	Versions	Last Report	Discovered Date	Category	App Groups	Avg RAM	Max RAM
 AnyDesk	anydeskclient_usr_7.0.14_inc...	Windows	1 (0%)	1 (1%)	1	2024-01-08	2024-01-08	NonCategor...		176 MB	277 Mi
 AnyDesk.exe	anydesk.exe	Windows	21 (8%)	20 (12%)	2	2024-03-16	2022-12-02	Tool	Departmental Pro...	104 MB	560 Mi
 Apache HTTP Server	httpd.exe	Windows	1 (0%)	1 (1%)	1	2024-01-05	2024-01-05	NonCategor...		57 MB	81 Mi
 Apps2Digital Agent (deprecated)	a2dagent.exe	Windows	2 (1%)	2 (1%)	1	2024-02-16	2022-07-11	Tool	Departmental Pro...	35 MB	57 Mi
 Audacity	audacity.exe	Windows	1 (0%)	1 (1%)	2	2024-03-17	2023-01-28	NonCategor...		106 MB	210 Mi
 Autoplay	autoplay.exe	Windows	1 (0%)	1 (1%)	1	2024-02-20	2024-02-20	NonCategor...		4 MB	4 Mi
 Azure AD dsregcmd	dsregcmd.exe	Windows	1 (0%)	1 (1%)	1	2024-01-10	2022-09-13	Tool	Low Used, Produc...	1 MB	1 Mi
 Babel Obfuscator	babelwin.exe	Windows	1 (0%)	2 (1%)	1	2024-02-12	2023-02-10	NonCategor...		94 MB	121 Mi
 Biometric Enrollment Host	biolenrolmenthost.exe	Windows	1 (0%)	1 (1%)	1	2024-02-20	2024-02-20	NonCategor...		12 MB	12 Mi
 Brave Browser	brave.exe	Windows	7 (3%)	6 (4%)	4	2024-02-21	2022-12-20	Commercial	Departmental	877 MB	5.36 Gi

Detail Views

When an item is selected from the list view, you access the detail view, which allows consulting data of the selected item in more depth.

The screenshot shows the 'APP DETAILS' view for Microsoft PowerPoint in the FlexxAnalyzer application. The interface includes a top navigation bar with a 'Back to Previous Page' link, a breadcrumb trail 'APP CATALOG & INVENTORY / APP DETAILS', and a sidebar with navigation icons for Home, Integrations, Settings, FlexxAnalyzer Users, and Help. The main content area displays the following information:

- Product Name:** Microsoft PowerPoint
- Category:** Commercial
- Exe File:** powerpnt.exe
- OS:** Windows
- App Groups:** Necessary, Productivity
- Product Owners:** (Empty field)

Below the main information, there are several expandable history sections:

- Versions History
- Workspaces History
- Users History
- Usage History Last 60 Days
- Workspaces Without Usage In The Last 30 Days

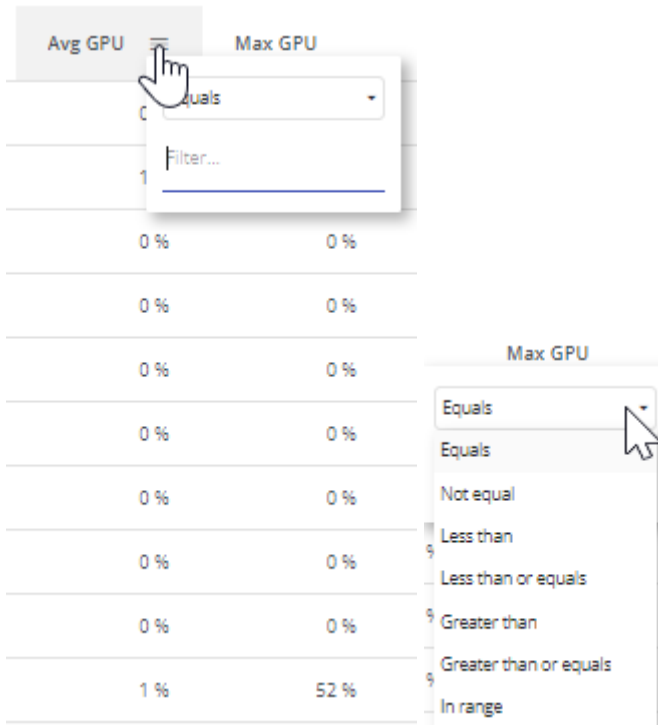
Search options

From any of the list views, you can access search options that allow locating a record within all results offered in the list.

The screenshot shows the search and filter options in the FlexxAnalyzer interface. It includes a search input field with a magnifying glass icon and the text 'Search...'. To the right of the search field are two filter buttons: 'App Categories (2)' and 'App Groups', both with dropdown arrows. A 'Clear Filters' button is located to the right of the filter buttons.

Column filter

List views contain a series of filters with several logical operators (also known as boolean operators) that allow comparing values, depending on the information shown in the column.



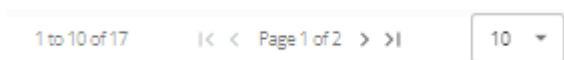
Logical operators that can be operated with:

Condition	Caption
Equal to	The condition for filtering results must be equal to the value stated.
Not equal to	The condition for filtering results must be different from the value stated.
Greater than	The condition for filtering results must be greater than the value stated.
Less than	The condition for filtering results must be less than the value stated.
Greater or equal to	The condition for filtering results must be greater than or equal to the value stated.

Condition	Caption
Less or equal to	The condition for filtering results must be less than or equal to the value stated.
In range	The condition for filtering results must be between the values stated.
Start with	The condition for filtering results must start with the value stated.
End with	The condition for filtering results must end with the value stated.











Page navigation

At the bottom of any list view is the page navigator. It's useful for navigating between pages of results.



Analyzer / App Catalog & Inventory

From the **App Catalog & Inventory** option you can see a list of all the applications that have been discovered by FlexxAgent. At the top, next to a dropdown menu, there is a search bar that filters categories and application groups.

Name ↑	Unique Identifier	OS	Workspaces	Users	Versions	Last Report	Discovered Date	Category	App Groups	Avg RAM	Max RAM
 AnyDesk	anydeskclient_usr_7.0.14_inc...	Windows	1 (0%)	1 (1%)	1	2024-01-08	2024-01-08	NonCategor...		176 MB	277 Mi
 AnyDesk.exe	anydesk.exe	Windows	21 (8%)	20 (12%)	2	2024-02-16	2022-12-02	Tool	Departmental, Pro...	104 MB	560 Mi
 Apache HTTP Server	httpd.exe	Windows	1 (0%)	1 (1%)	1	2024-01-05	2024-01-05	NonCategor...		57 MB	81 Mi
 Apps2Digital Agent (deprecated)	a2dagent.exe	Windows	2 (1%)	2 (1%)	1	2024-02-16	2022-07-11	Tool	Departmental, Pro...	35 MB	57 Mi
 Audacity	audacity.exe	Windows	1 (0%)	1 (1%)	2	2024-02-17	2023-01-28	NonCategor...		106 MB	210 Mi
 Autoplay	autoplay.exe	Windows	1 (0%)	1 (1%)	1	2024-02-20	2024-02-20	NonCategor...		4 MB	4 Mi
 Azure AD dsregcmd	dsregcmd.exe	Windows	1 (0%)	1 (1%)	1	2024-01-10	2022-09-13	Tool	Low Used, Produc...	1 MB	1 Mi
 Babel Obfuscator	babelwin.exe	Windows	1 (0%)	2 (1%)	1	2024-02-12	2023-02-10	NonCategor...		94 MB	121 Mi
 Biometric Enrollment Host	bioenrollmenthost.exe	Windows	1 (0%)	1 (1%)	1	2024-02-20	2024-02-20	NonCategor...		12 MB	12 Mi
 Brave Browser	brave.exe	Windows	7 (3%)	6 (4%)	4	2024-02-21	2022-12-20	Commercial	Departmental	877 MB	5.36 Gi

List view

In the list view you can see the following information:

- Product Name
- Application unique identifier
- Operating system for which the application is designed
- Number and percentage of devices running the application
- Users and percentage out of total who have run it
- Number of versions
- Date of last record where activity of this application was found
- Discovery date
- Category
- Application group
- Average and maximum values on CPU, RAM, GPU and IOPS usage

Detail view

When accessing the desired application, it is possible to see more specific information and assign **Product Owners** to the application.

The screenshot shows the FlexxANALYZER web application interface. At the top, there's a navigation bar with a 'Back to Previous Page' link and a breadcrumb 'APP CATALOG & INVENTORY / APP DETAILS'. The main content area is titled 'Microsoft PowerPoint'. It features a table with the following data:

Product Name	Category	Exe File	OS
Microsoft PowerPoint	Commercial	powerpnt.exe	Windows

Below the table, there are 'App Groups' (Necessary, Productivity) and 'Product Owners'. At the bottom, there are several expandable history sections: Versions History, Workspaces History, Users History, Usage History Last 60 Days, and Workspaces Without Usage In The Last 30 Days.

The fields **Product Name**, **Category** or **App Groups**, at the top of the list view, can be edited, and saved through the **Save changes** sliding button on the right side.

Version History

From **Version History** you can access the different registered versions of the selected application. Here you can check:

- **Product Version**: the registered version or versions of the product
- **Image**: version architecture type (32 or 64 bits)
- **Discovery Date**: date of first record of this version
- **Last Report**: date of last registered report

Workspaces history

It provides details of the recent usage of the application on devices, each application contains:

- Device Name
- Reported version

- Report date

Users History

It provides details of recent user usage, each application contains:

- Username
- Reported version
- Report date

Usage History Last 60 Days

From this section, you can see a list of different user sessions that have used the selected application during the last 60 days, it contains:

- Username: user session in which the execution of this application was recorded.
- Workspace: device on which the execution of this application was recorded.
- Days: number of days, out of the last 60, that the application was detected running in this user session.
- Last Report: date of the last registered report in the user session.

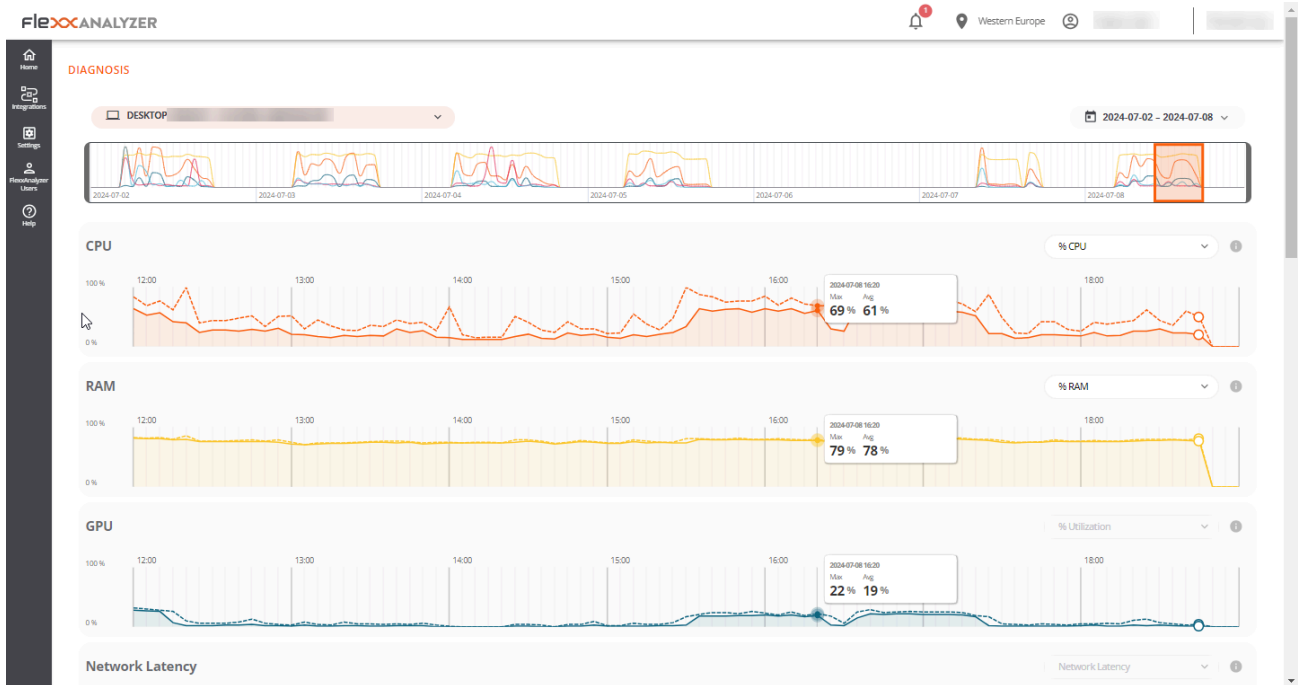
Workspaces without usage in the last 30 days

This list shows the devices that have the application installed but have had no usage in the last 30 days, which helps identify opportunities for license optimization. Includes:

- Device Name
- Installation date
- Last detection report

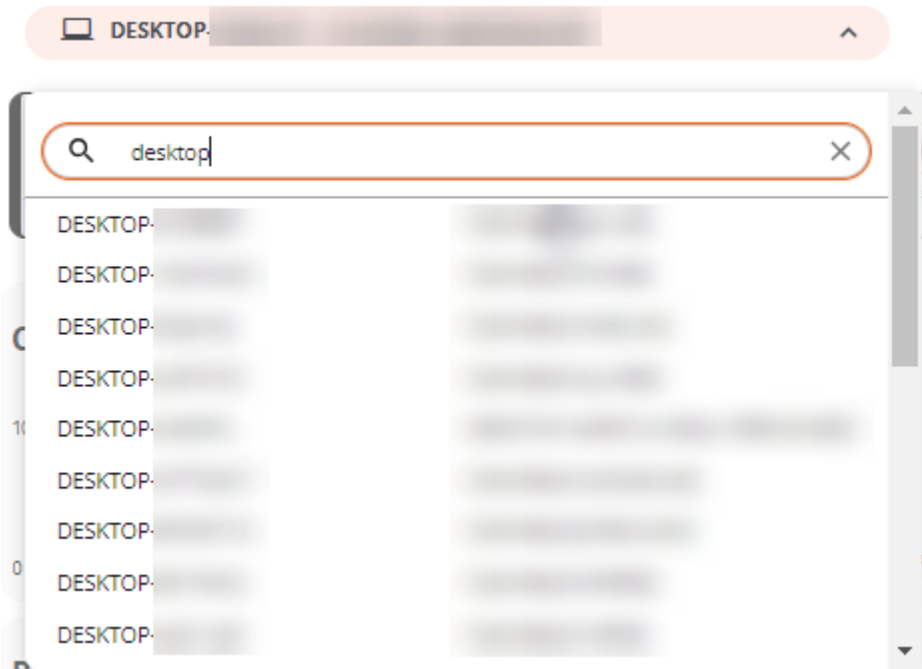
Analyzer / Diagnosis

From the **Diagnosis** option, you can perform a detailed analysis of a device's resource consumption, as well as the applications and processes used in the user's session.



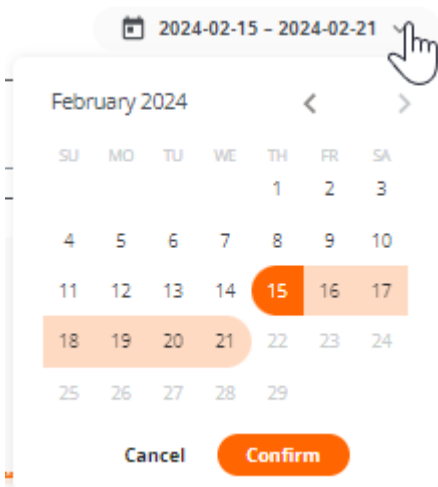
Web Interface

From the **Diagnosis** dropdown menu, you can search for a device and the user session you want to analyze. If you start typing a username, the dropdown menu will filter to show only devices that match that name.



It's possible to select a one-week date range for the analysis; by default, data from the last seven days will be shown, although you can select a custom period by clicking the dropdown list. Only the devices used in the selected period will appear.

When you want to explore a different time span, the calendar will mark the days the device wasn't used with a lighter color.



Once the selections are made, the resource consumption information for the selected period, device, and user will be displayed.

Timeframe selection

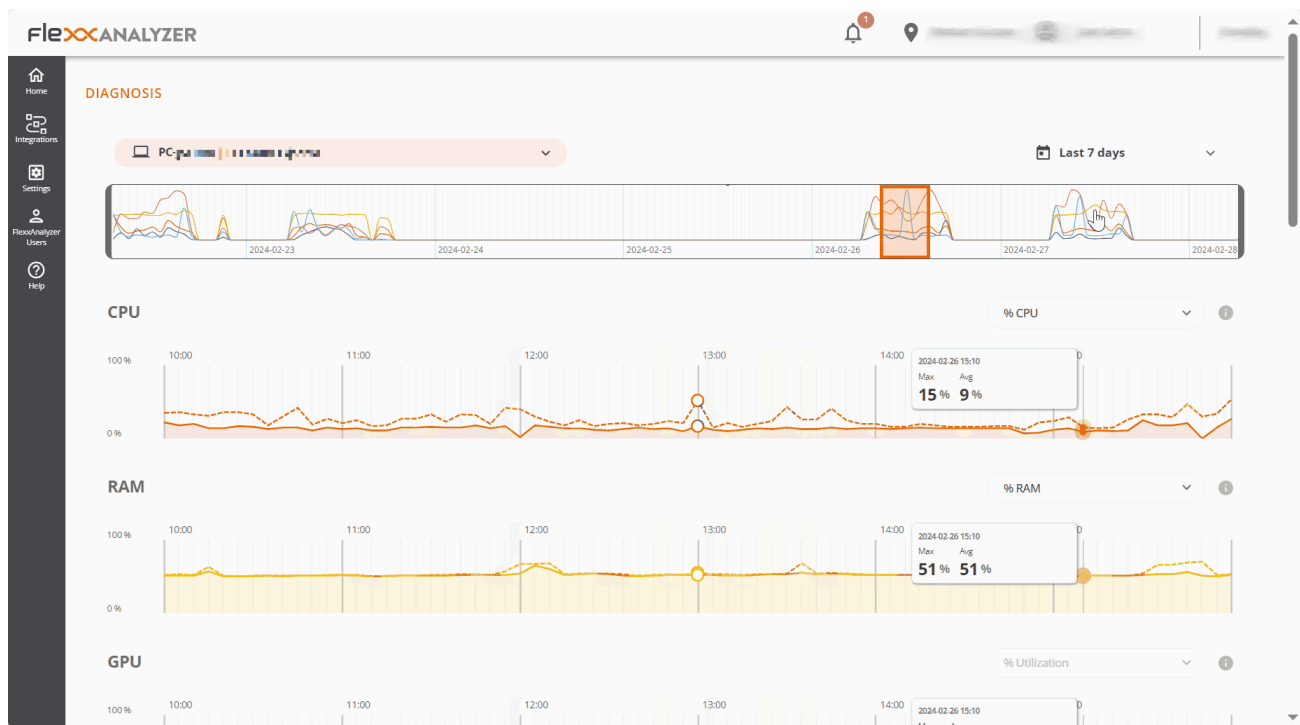
Once the device, user, and dates on which you want to see the data analysis are selected, a chart will appear at the top, with a six-hour zoom window.

You can drag and drop the selection area on the chart to view the resource consumption data for a more specific period.

You can also click on a point on the chart to see the resource consumption data for that specific moment without manually dragging the selection area. The rest of the page data will reflect the selected period, device, and user.

Resource consumption charts

After placing the time window at the exact point that needs to be analyzed, five resource consumption charts will be displayed at the bottom area: CPU, RAM, GPU, Network Latency, and Disk Usage. Each chart will show six hours corresponding to the selection area in the timeline chart.



The charts show the total resources consumed by the device. If more than one user was using the device during that period, the charts will show the resources consumed by all users.

Hovering over any of the charts will display a box with the resource consumption for that specific moment. You can click on any point of any of the charts to see which applications and processes were running at that specific moment; by default, the most recent data for the selected period will be displayed.

Performance Counters

Each counter on the screen includes several display options.

CPU

- **% CPU:** Shows the total CPU usage in the system, equivalent to what Task Manager shows.
- **% User Time:** Represents the percentage of CPU time used by applications and processes running in user mode.
- **% Privileged time:** Indicates the percentage of CPU time used by the operating system and system services in privileged mode.
- **% Processor time:** Shows the total CPU time used in all system processes and activities.

RAM

- **% RAM:** Shows the total memory usage in the system, equivalent to what Task Manager shows.
- **Available RAM:** Represents the amount of free memory in the system to run new applications without causing performance issues.
- **Committed MB:** Indicates the amount of virtual memory actively used by running processes and applications.

GPU

- **% utilization:** Shows the total GPU usage in the system, equivalent to what Task Manager shows.

Network Latency

- **Network Latency:** Shows the system latencies.

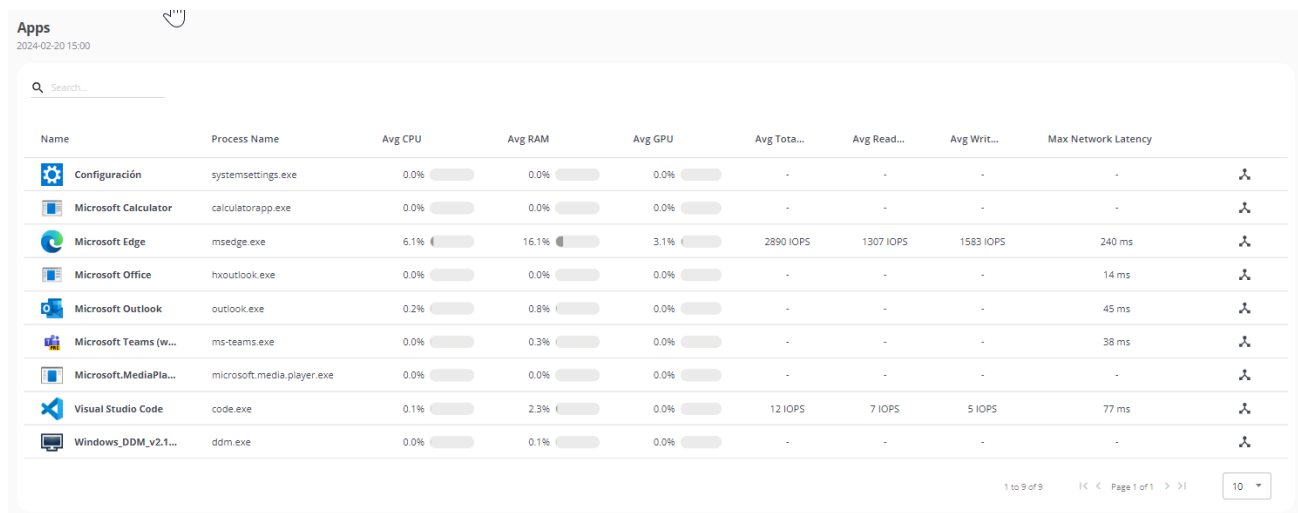
Disk Usage

- **Total IOPS:** Shows the total IOPS (input/output operations per second) generated by the applications and processes on the disk.
- **IOPS read per second:** Sum of all read IOPS, per second.
- **IOPS write per second:** Sum of all write IOPS, per second.

Applications and Processes Tables

At the bottom, you will find the application and process tables, which show all the applications and processes that the user had running on that device at the time marked with the time frame selection.

For each application, the name, the executable, and the resources it consumed are shown.



The screenshot shows a table titled 'Apps' with a search bar at the top. The table lists applications and their resource usage. The columns are: Name, Process Name, Avg CPU, Avg RAM, Avg GPU, Avg Total IOPS, Avg Read IOPS, Avg Write IOPS, and Max Network Latency. The data is as follows:

Name	Process Name	Avg CPU	Avg RAM	Avg GPU	Avg Total...	Avg Read...	Avg Writ...	Max Network Latency
Configuración	systemsettings.exe	0.0%	0.0%	0.0%	-	-	-	-
Microsoft Calculator	calculatorapp.exe	0.0%	0.0%	0.0%	-	-	-	-
Microsoft Edge	msedge.exe	6.1%	16.1%	3.1%	2890 IOPS	1307 IOPS	1583 IOPS	240 ms
Microsoft Office	hxoutlook.exe	0.0%	0.0%	0.0%	-	-	-	14 ms
Microsoft Outlook	outlook.exe	0.2%	0.8%	0.0%	-	-	-	45 ms
Microsoft Teams (w...)	ms-teams.exe	0.0%	0.3%	0.0%	-	-	-	38 ms
Microsoft.MediaPla...	microsoft.media.player.exe	0.0%	0.0%	0.0%	-	-	-	-
Visual Studio Code	code.exe	0.1%	2.3%	0.0%	12 IOPS	7 IOPS	5 IOPS	77 ms
Windows_DDM_v2.1...	ddm.exe	0.0%	0.1%	0.0%	-	-	-	-

At the bottom right of the table, there is a pagination control showing '1 to 9 of 9' and a dropdown menu set to '10'.

You can filter the table results using the search bar at the top of each one. You can also sort the results by clicking any of the columns in the table.

Processes
2024-02-22 17:15

Q Search...

Name	Product Name	User	Avg CPU	Avg RAM	Avg GPU	Avg Tota...	Avg Read...	Avg Writ...	Max Network Latency
ai	Artificial Intelligence	rbedani	0.0%	0.0%	0.0%	-	-	-	-
analyticssrv	Citrix Workspace App	rbedani	0.0%	0.0%	0.0%	-	-	-	-
applicationframehost	Application Frame Host	rbedani	0.0%	0.0%	0.0%	-	-	-	-
appsdaemon	Apple Push	rbedani	0.0%	0.0%	0.0%	-	-	-	-
audiolog	Aislamiento de gráficos d...	SERVICIO LOCAL	1.1%	1.6%	0.0%	77 IOPS	-	77 IOPS	-
authmansrv	Citrix Workspace	rbedani	0.0%	0.1%	0.0%	-	-	-	-
complogsrv	Component Package Sup...	rbedani	0.0%	0.0%	0.0%	-	-	-	-
concentr	Citrix Workspace	rbedani	0.0%	0.0%	0.0%	-	-	-	-
conhost	Sistema operativo Micros...	SYSTEM	0.0%	0.1%	0.0%	-	-	-	-
cortexlauncher-service	Razer Cortex	SYSTEM	0.0%	0.0%	0.0%	-	-	-	-

1 to 10 of 162 | < < Page 1 of 17 > > | 10

If you select a point on the chart to see the resource consumption data for a specific moment, the tables will automatically sort to show first the programs that consumed the most resources in the selected chart.

Analyzer / Carbon footprint analysis

Green IT, or green technology, is an approach that seeks to minimize the environmental impact of information and communication technologies. One of the areas where it can make a significant difference is in the management and optimization of resource usage, such as energy and paper.

This Analyzer option presents a series of metrics and data related to paper printing and the electrical consumption of devices and their peripherals, which are essential for understanding and improving energy efficiency and sustainability in the work environment.

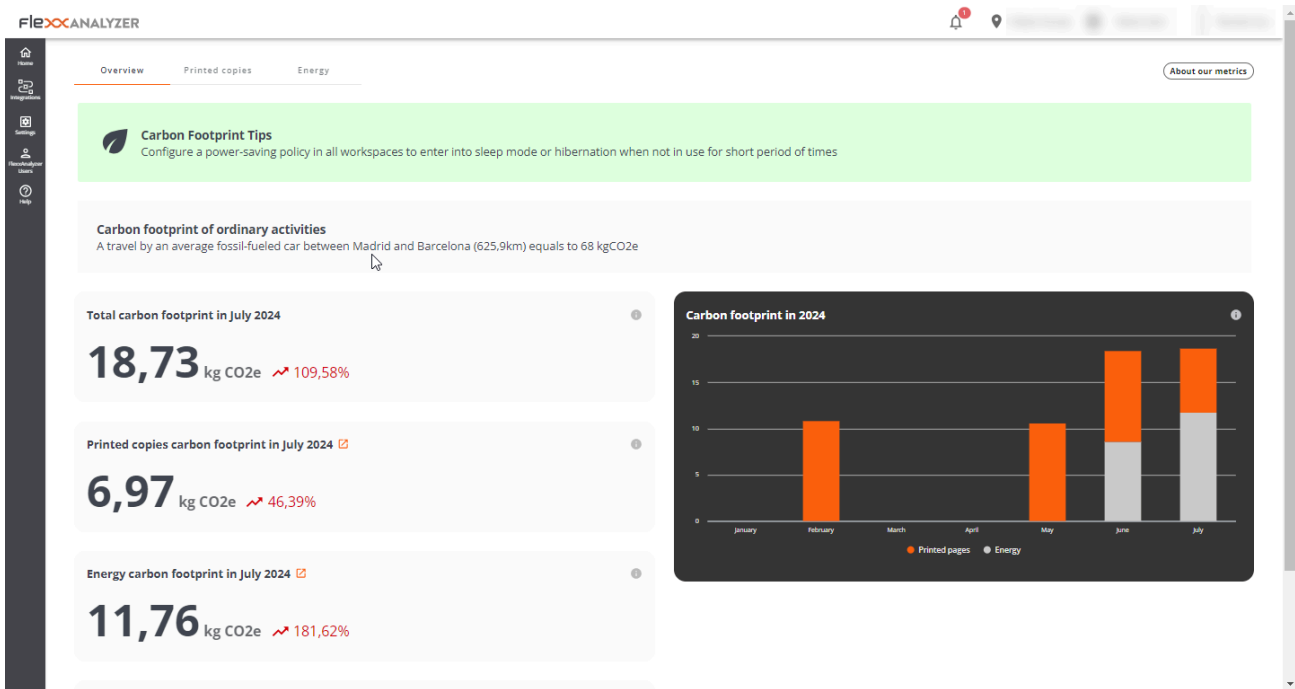
Web Interface

This dashboard view is divided into three tabs:

- **Overview (visión general):** where unified data of the entire generated carbon footprint is presented.
- **Printed copies:** provides information about the monthly prints in the organization, either in black and white or color; the metrics of the users and printers that generate the most prints.
- **Energy:** provides information about the energy consumption generated by the use of devices and their peripherals, as well as data on radioactive waste produced from energy generation.

Important: carbon footprint data for electrical consumption and prints are recorded only for physical devices, not for virtual machines.

Overview



The overview view groups the collected data regarding both energy consumption and prints, to show monthly information.

Data contained in the view (current month):

- Total generated carbon footprint
- Carbon footprint generated by prints
- Carbon footprint generated by electrical consumption
- Amount of radioactive waste generated in the current month
- Graphical view of the monthly evolution of the generated carbon footprint

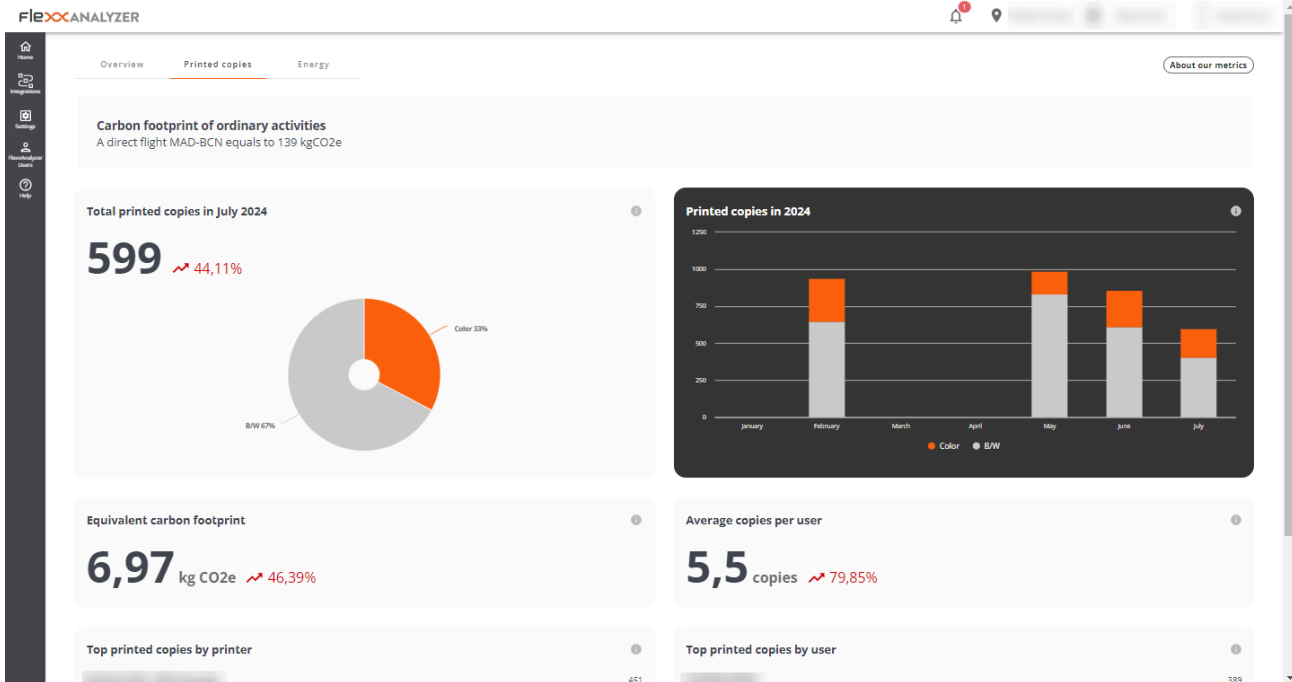
Printed copies

The adoption of Green IT practices for the management and optimization of resource usage in the field of printing involves taking measures that lead to a reduction in paper and energy consumption, as well as the carbon footprint associated with printing devices.

This section presents a dashboard view with information about the prints made and the carbon footprint generated by this activity.

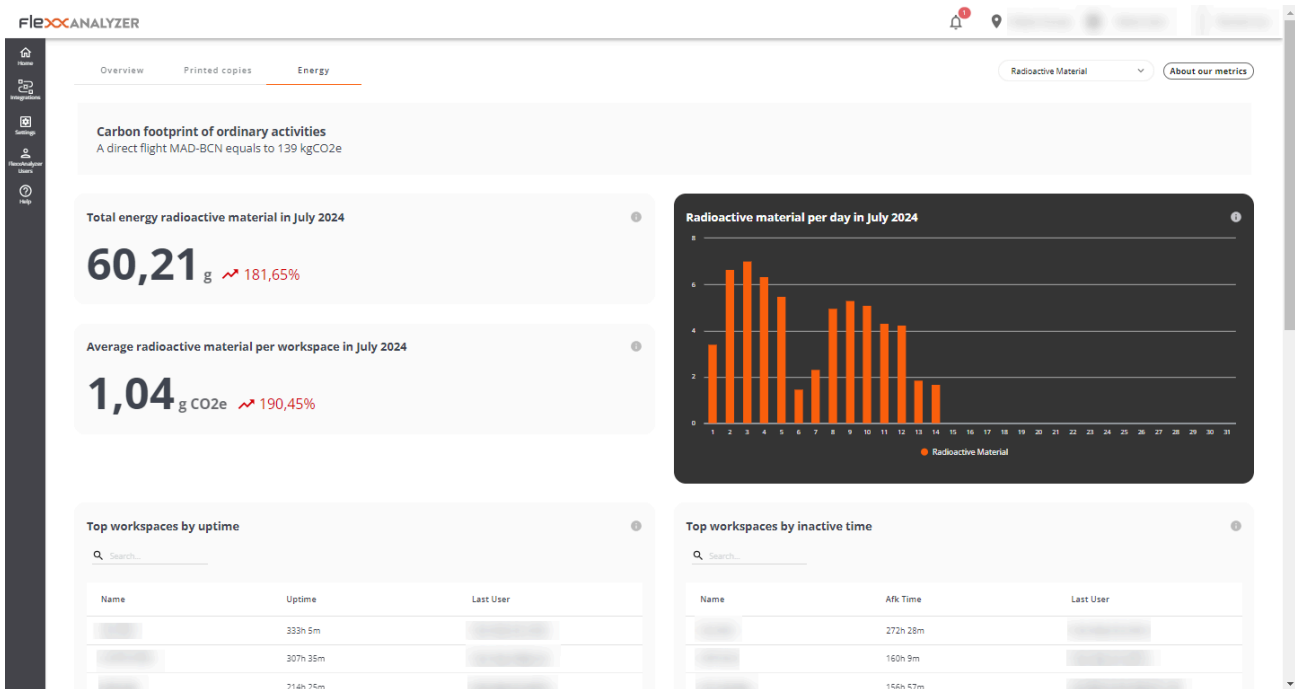
The carbon footprint of the printed copies is calculated using the following estimates:

- 10 g of CO₂e per A4 black and white copy
- 15 g of CO₂e per A4 color copy



- **Total printed copies in [current month]** (Número de impresiones en el mes en curso): shows short-term trends in paper usage. Helps identify areas of intensive use, as well as opportunities to reduce the number of prints or promote duplex printing.
- **Equivalent carbon footprint** (Total de la huella de carbono generada en el mes en curso): provides a direct idea of the environmental impact of printing activities. It can motivate the adoption of policies to reduce the carbon footprint, such as digitizing documents and implementing paperless initiatives.
- **Top printed copies by printer** (Top de impresiones por impresoras): view of printers, sorted by the number of prints in the current month.
- **Printed copies in [Current year]:** overview of total black and white and color prints made, month by month, during the current year.
- **Average copies per user:** average number of prints per user in the current month.
- **Top printed copies by user** (Top de impresiones por usuario): list of users, sorted by number of prints during the current month.

Energy



The carbon footprint of energy consumption is calculated by multiplying the energy consumption of the device, showing the average kgCO₂e per kWh in Spain, which is 0.1 kgCO₂e/kWh.

The radioactive material from energy is calculated by multiplying the device's energy consumption and is shown with the average kgCO₂e per kWh in Spain, which is 0.512 g/kWh.

This section presents a dashboard view with information about the carbon footprint and radioactive waste generated by the electric consumption of the devices.

Using the selector on the top right, it is possible to select the view of radioactive material or generated carbon footprint.

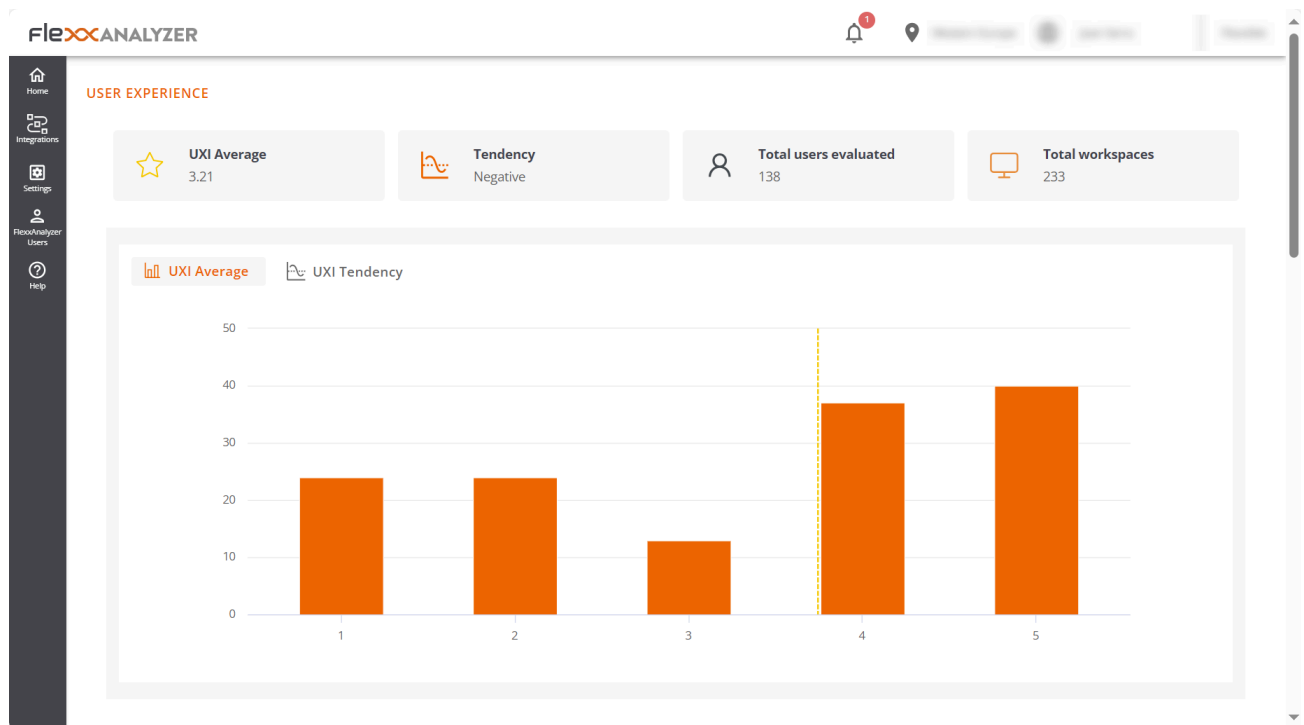
Radioactive material

- **Total energy radioactive material in [Current month]:** shows the total grams of radioactive material generated during the current month.
- **Average radioactive material per workspace in [Current month]:** shows the average radioactive material per workspace in the current month.
- **Radioactive material per day in [Current month]:** estimate graph of grams of radioactive waste generated in the current month.

- **Top workspaces by uptime:** top 10 devices by uptime in the current month.
- **Top workspaces by inactive time:** top 10 devices by inactive time in the current month.
- **Top workspaces by radioactive material generated:** top 10 devices that generate the most radioactive material. Radioactive material calculations are made using the averages of CPU and screen consumption by the average radioactive material generated per kWh in Spain (0.512 g).
- **Top workspaces by inactive time and radioactive material generated:** top 10 devices that generate the most radioactive material while being inactive. Calculated using the averages of CPU and screen by the average radioactive material generated per kWh in Spain (0.512 g).

Analyzer / User experience

In an organization, user experience measures how employees interact with their organization's digital ecosystem; this includes evaluating the performance of the hardware and software they use during their workday, as well as their emotional perception.



Basic concepts

Analyzer builds the UXI (user experience indicator) based on the weighting of two others:

- Workspace Reliability Index (WRI)
- User sentiment

WRI (Workspace Reliability Index)

The Workspace Reliability Index, or device reliability indicator, allows for an objective performance score for a device based on the collection and analysis of detected issues. Multiple indicators are considered which, if certain issues arise in devices, reduce the score from an initial 5-star rating. These metrics include:

Indicator	Severity	Threshold
HIGH_CPU	MEDIUM	Above 85% for more than 10 minutes
HIGH_RAM	MEDIUM	Above 95% for more than 10 minutes
BSOD	HIGH	Presence of a BSOD (blue screen)
APP_CRASHES	HIGH	Presence of application crashes
APP_HANGS	HIGH	Application crashes presence
TEAMS_PROBLEMS	HIGH	Detected problems in Microsoft Teams
PNP_ERRORS	HIGH	Detected peripheral errors
WIFI_SIGNAL	HIGH	Signal below 30% for 10 minutes
LOGIN_DURATION	HIGH	More than 60 seconds
UPTIME	LOW	More than 15 days
RESTART_PENDING	LOW	More than one day
CRITICAL_EVENTLOG	HIGH	Presence of critical events in the event viewer
UID	MEDIUM	High system response rate (greater than 350 ms)
LOW_STORAGE	MEDIUM	Low free disk space (less than 20%)
MULTIPLE_EVENTLOGS_ERRORS	MEDIUM	More than 50 errors generated in the event log in the last hour

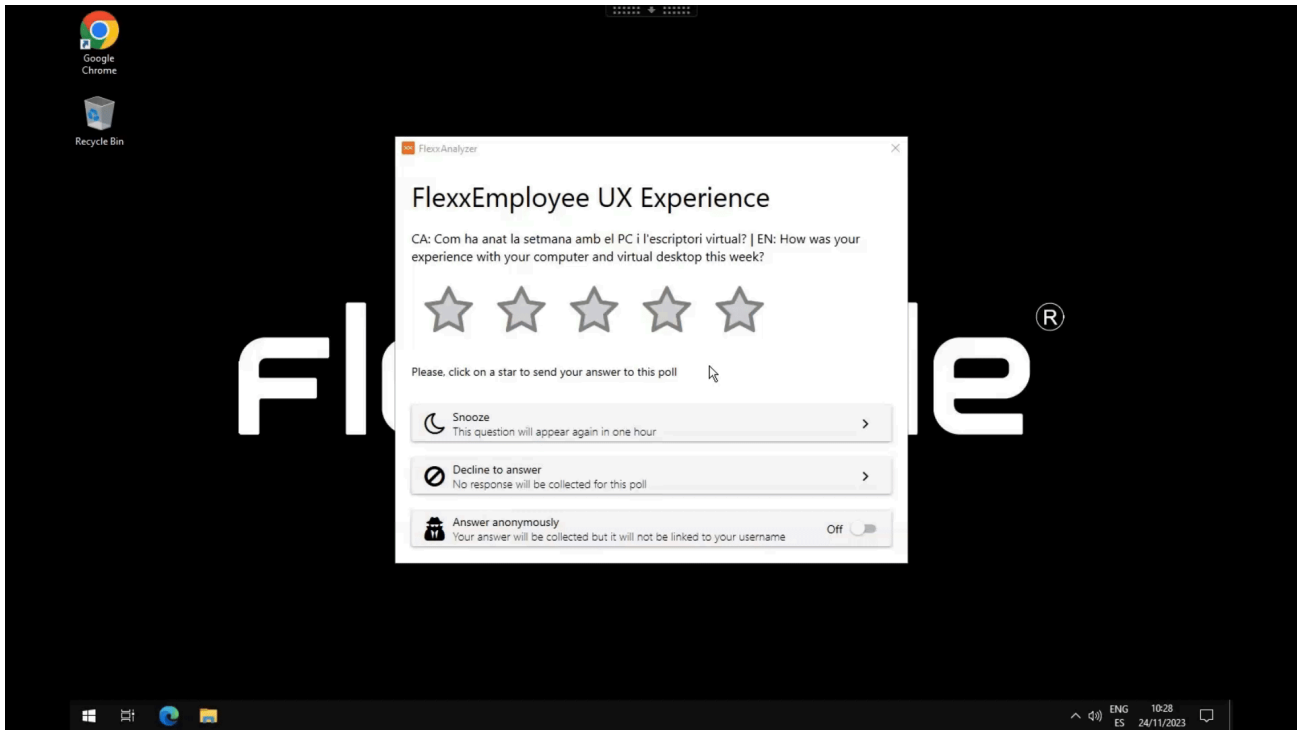
Indicator	Severity	Threshold
UNAVAILABLE	MEDIUM	Session unavailable for more than 5 minutes
RAM_UNDER_MINIMUM	MEDIUM	Less than 1 GB of free memory
WINDOWS_UPDATES_POOLED	MEDIUM	Windows Update service running on pooled machine

Where each severity deducts the following score from the initial 5-star rating.

Severity	Penalty
HIGH	0.2
MEDIUM	0.016
LOW	0.008

User surveys

User sentiment is captured through surveys. And the way to respond is by providing a satisfaction rating based on a score between 0 and 5 stars.



Web Interface

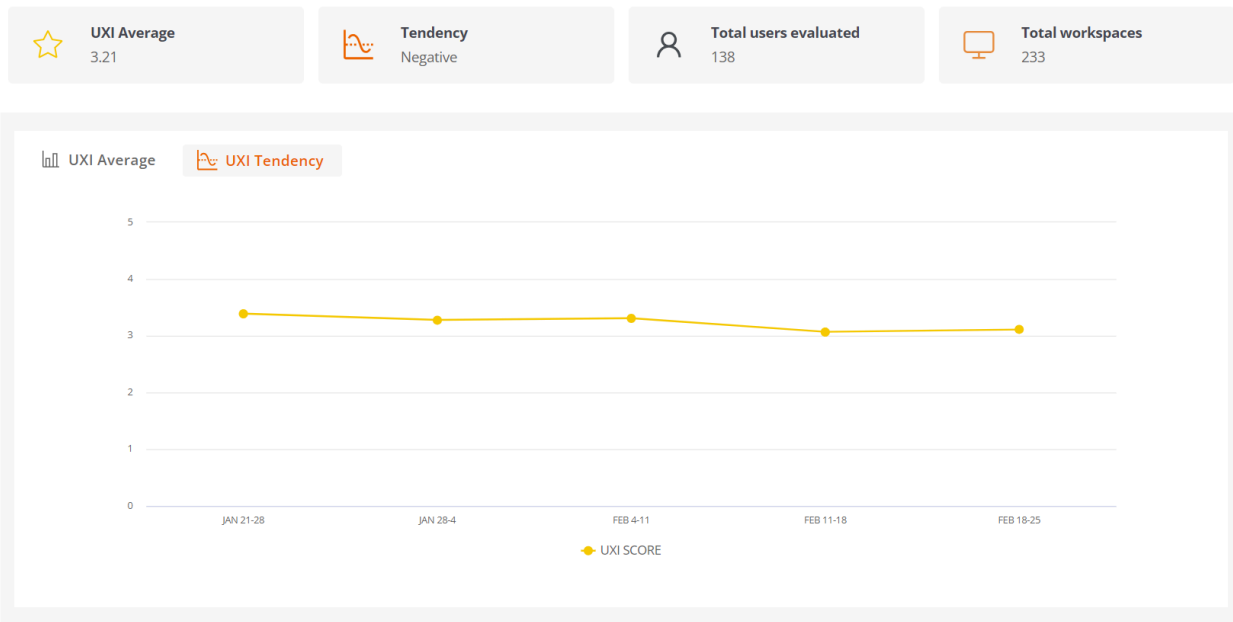
The dashboard view of the 'User Experience' section consists of the average information of all devices and users in the organization; it is calculated daily.

Global view

The global numbers are offered at the top.

- UXI Average: average experience indicator for the entire organization. It can range from 0 to 5.
- Tendency: an indicator that, based on the evolution of the UXI average, shows whether its tendency is positive or negative.
- Total users evaluated: total users evaluated
- Total workspaces: total devices evaluated

USER EXPERIENCE



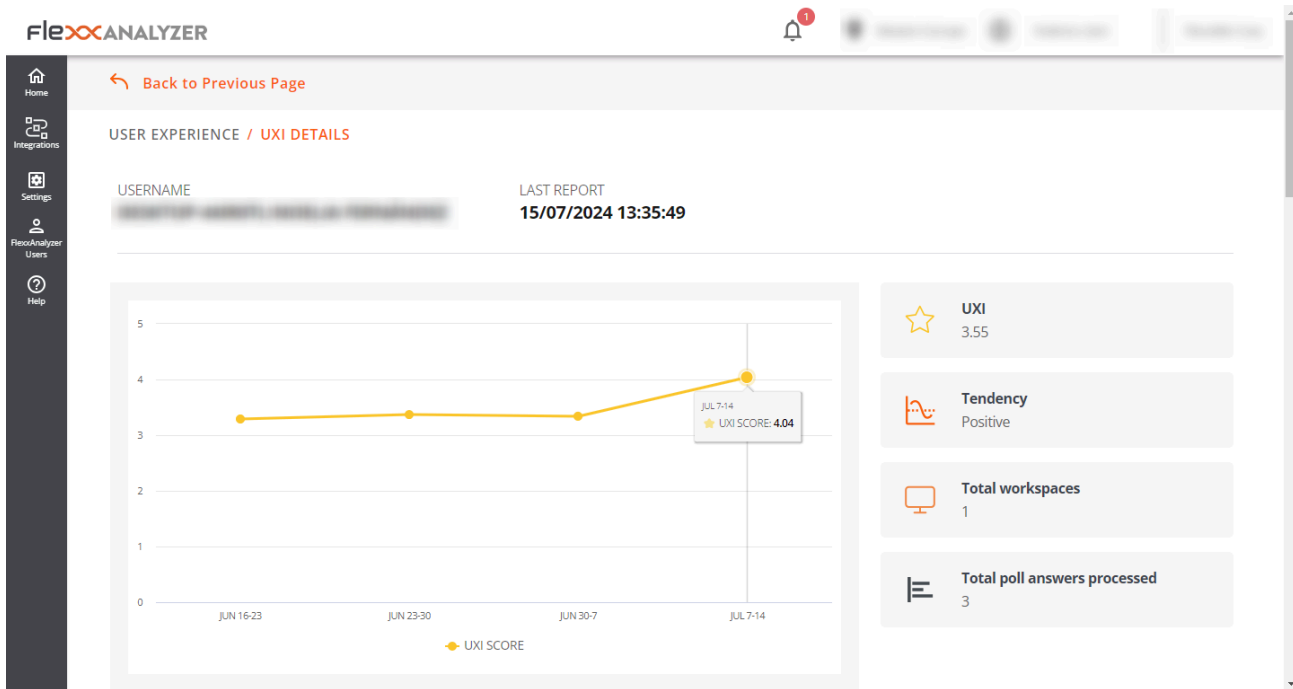
Two charts are also included:

- **UXI Average:** shows the distribution of users by UXI level, along with the organization's average.
- **UXI Tendency:** shows the temporal evolution of the UXI over the last month.

At the bottom of the screen, by clicking on a user, individual cases can be evaluated. You can also see tables containing information about users who require attention due to sudden variations of this indicator or a very low score.

Individual view

This view provides the user data under analysis, including:



- Username: username reported in the user's session
- Last report: date of the last report received for this user
- UXI Average: experience indicator for the user; it can range from 0 to 5.
- Tendency: an indicator that, based on the evolution of the user's UXI average, shows whether the tendency is positive or negative.
- Total workspaces: number of devices the user has worked on
- Total poll answers processed: number of surveys the user has answered and are taken into account in this evaluation.

At the bottom of the screen, detailed information is included in a table format.

- Polls in the last 30 days: surveys answered by the user in the last 30 days. The detail of this view offers the user's survey scores compared to the organization's average for the same period.
- Workspaces in the last 30 days: provides a table that contains all the devices the user worked on during that time span, as well as how many times they worked on each, the operating system, and the WRI indicator of each.
- Issues in the last 30 days: table showing the list of problems detected on devices used by the user in the last 30 days, as well as the date and score that each of them deducted.

Analyzer / Workspaces in Analyzer

The **Workspaces** list view provides global information about the device environment. It shows through a table the names of the monitored devices, their session status, domain, operating system, connected IP address, and other technical data such as CPU, RAM, IOPS usage per device, and the installed version of FlexxAgent.

The screenshot displays the FlexxAnalyzer 'WORKSPACES' view. At the top, there are three summary cards: 'Total' with a value of 9, 'Total Domains' with a value of 2, and 'Operating System' with a value of 6. Below these is a search bar and a table of workspace entries. The table has the following columns: Name, Session Status, Last User, Domain, OS, IP, Usage Days, and Location. The data rows are as follows:

Name	Session Status	Last User	Domain	OS	IP	Usage Days	Location
[Redacted]	Active	[Redacted]	[Redacted]	Windows 11 Pro	[Redacted]	43	20
[Redacted]	Active	[Redacted]	[Redacted]	Windows 10 Pro	[Redacted]	41	20
[Redacted]	Inactive	[Redacted]	N/A	Windows 10 Pro N	[Redacted]	49	20
[Redacted]	Inactive	[Redacted]	N/A	Windows 10 Pro	[Redacted]	49	20
[Redacted]	Inactive	[Redacted]	N/A	Windows 10 Enterprise	[Redacted]	29	20
[Redacted]	Inactive	[Redacted]	N/A	Windows 10 Enterprise	[Redacted]	31	20
[Redacted]	Inactive	[Redacted]	N/A	Windows Server 2016...	[Redacted]	17	20
[Redacted]	Inactive	[Redacted]	N/A	Windows 10 Pro	[Redacted]	2	20
[Redacted]	Inactive	[Redacted]	N/A	Windows 10 Enterpris...	[Redacted]	1	20


At the bottom right of the table, there are pagination controls showing '1 to 9 of 9' and 'Page 1 of 1'.

Above the table, there is a chart indicating key quantities: number of monitored devices, registered domains, and operating systems detected on the network. And also a search field, so that the user can easily find the device of their interest.

WORKSPACES

 267
Total

 9
Total Domains

 20
Operating System

 Search...

Workspace detail

To access more precise data of a device, you must click on it in the table. Next, the user will see the following information:

Field	Data
Name	Text string containing the hostname
Last User	Last user who used the device
Last Report	Date of the last report sent by FlexxAgent
Domain	Domain of which the device is a part
LogonServer	Server that authenticates the user when logging in
Vendor	Device manufacturer

Field	Data
Operating System	Device operating system
System Model	Device model
System SKU	Manufacturer SKU identifier
System Type	System type, defines the system architecture
IP	Device IP address
Processor	Commercial name of the processor
Total Workspaces Memory	Total memory present in the system
WRI	Workspace reliability index of the device
Ram Usage	Percentage of RAM used
CPU Usage	Percentage of processor used
CPU Usage	Processor usage in MHz
GPU Usage	Percentage of GPU usage
IOPS Usage	Average IOPS of the disk
FlexxAgent Analyzer Version	Running version of FlexxAgent Analyzer

[← Back to Previous Page](#)WORKSPACES / **WORKSPACE DETAILS**

DESKTOP-1234567

Active 9 2 0

Name DESKTOP-1234567	Last User Administrator	Last Report 2024-10-27 15:10	Domain corp.flexxdesk.com
LogonServer DESKTOP-1234567	Vendor Dell Inc.	Operating System Windows 11 Pro	System Model Latitude 3520
System SKU 0B21	System Type x64-based PC	IP 192.168.1.99	Processor 11th Gen Intel(R) Core(TM) i5-1145G7 @ 2.60GHz, 8 Logical Processor(s)
Total Workspace Memory 8GB	WRI 4.5 ★	RAM Usage 91.9%	CPU Usage 38.16%
CPU Usage Mhz 2.16GHz	IOPS Usage 1483	FlexxAgent Analyzer Version 2.10.6	

[Diagnose workspace](#)

Below the list, the [Diagnose workspace](#) button allows you to see the usage data for the device, which is the same information that can be found in the [Diagnosis](#) section.

Workspace analysis

The lower part of the device detail view consists of five tables that analyze very specific device goals:

- [Displays](#).
- [Installed Apps](#).
- [Running Apps](#).
- [Issues in the last 30 days](#).
- [Usage history](#).

Each of these sections has its own search field to facilitate access to the information.

Displays

It contains information about the screens connected to the device, their maximum resolution, and size. This data becomes important because the electric consumption generated by the screens is used to [estimate the carbon footprint](#).

Installed Apps

Shows a list of the applications installed on the device. Also the version number, category, installation date, application group it belongs to, and the unique identifier assigned to it. For more information on how to edit these fields, refer to [App Catalog & Inventory](#).

The information about installed applications offered by [Installed Apps](#) is collected by [FlexxAgent Analyzer](#) when its process starts. From there, the data will be updated every 12 hours.

Running Apps

Shows a list of applications running on the device. The table indicates the name of the process running and the average resource usage for CPU, RAM, and GPU.

The information about the running applications provided by [Running Apps](#) is collected by [FlexxAgent Analyzer](#) every 15 seconds and sent to the console every 5 minutes.

Issues in the last 30 days

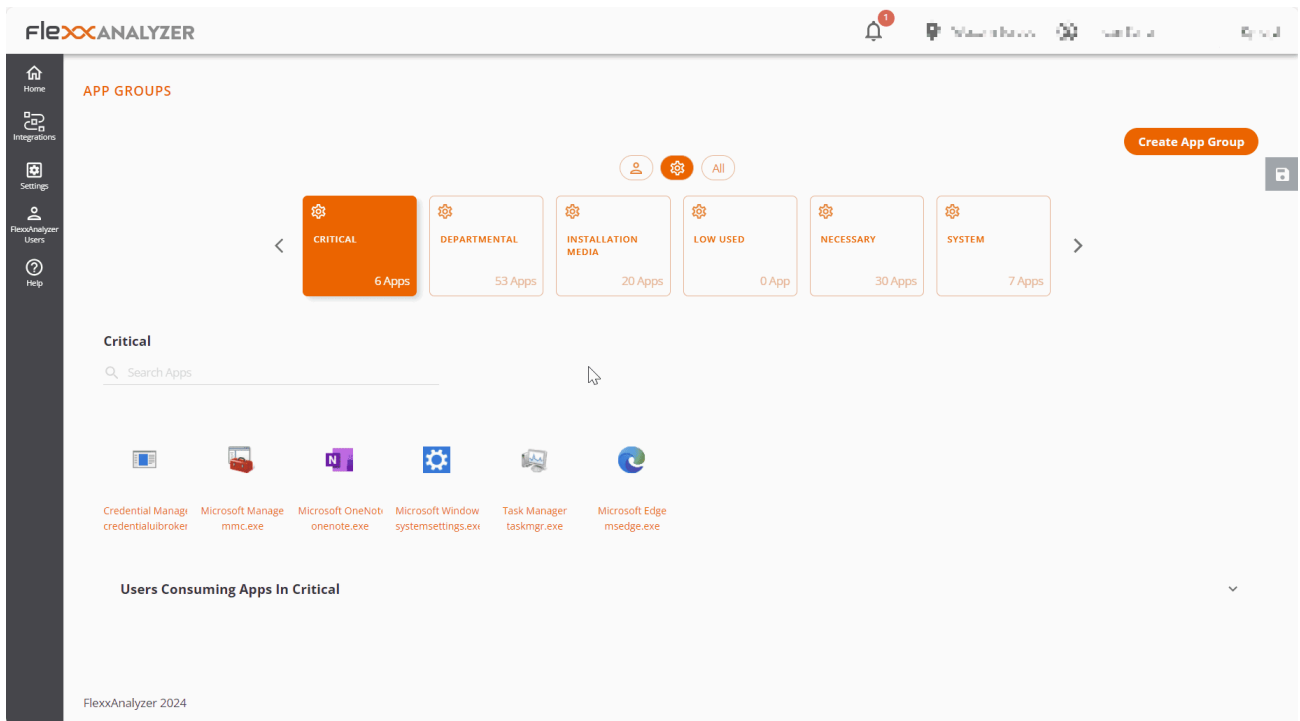
This table includes the list of [alerts](#) generated in the Workspaces module and sent daily to the Analyzer. The table reports the score deducted from the Workspace Reliability Index for each alert found on the device.

Usage history

Contains information about the device usage history. Indicates the user or users who use it, as well as the days they do.

Analyzer / App Groups

App Groups provides the possibility to create application groups to display aggregate data on the analysis screens.



At the top of the main screen, three buttons allow you to filter by user applications, system applications, or view all. And below, each application group is represented in a tile.

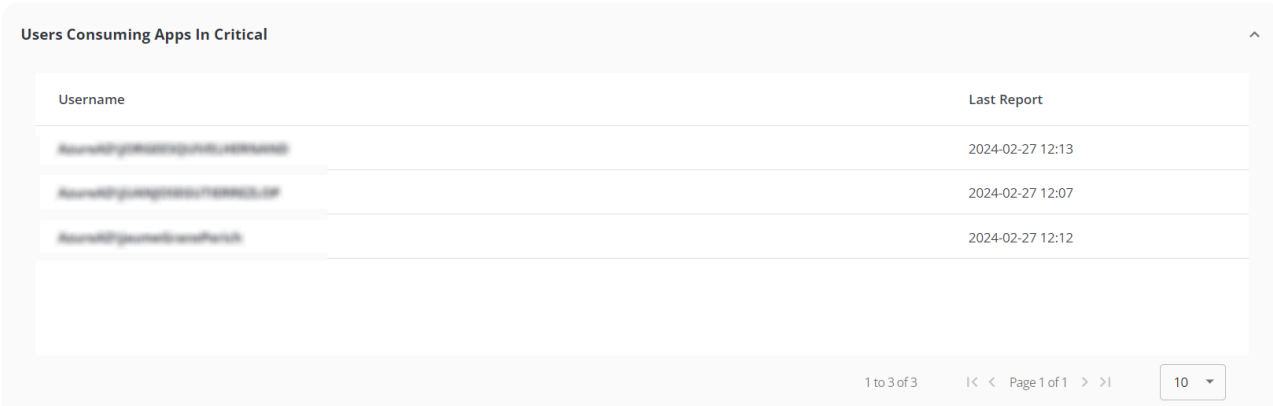
Group Types



- **User App Group**: groups manually created from the [Create App Group](#) button.
- **System App Group**: automatically generated groups. Created by Analyzer considering the assigned configuration in the Settings option.
- **All**: includes all groups.

Users consuming applications in the selected group

In the **Users Consuming Apps In...** section, you can see which users are using that application group.



Username	Last Report
Accounting@flexxdesktop.com	2024-02-27 12:13
Accounting@flexxdesktop.com	2024-02-27 12:07
Accounting@flexxdesktop.com	2024-02-27 12:12

1 to 3 of 3 |< < Page 1 of 1 > >| 10 ▾

Creating a New Application Group

When creating a new application group from **Create App Group**, you must specify the name of the group and, through the **Add APP** button, the applications you want to add.

Group Name _____

Search Apps _____



Add APP

ADD APPS



Search Apps _____

1password 1password.exe	Adobe Creative Cl adobe desktop sei	Adobe Download I reader_install_sett	AnyDesk anydeskuninst30c	Cisco AnyConnect vpndownloader.ex	Cisco Secure Clie csc_ui.exe	ciscowebebxstart.e ciscowebebxstart.e	Citrix Receiver receiver.exe	Citrix Workspace wfica32.exe
Client Connector zsatray.exe	CrashingApp crashingapp.exe	Credential Manag credentialuibroker	CShellJavaLaunche cshelljavalauncher	DeepL deepl.exe	easeofaccessdialo easeofaccessdialo	FlexxNotification flexxnotification.e	fontview.exe fontview.exe	GNU Image Manip gimp-2.10.exe
IBM Lotus Notes/L nnotes.exe	installer.exe installer.exe	Lenovo System Up tvsukernel.exe	Logi Options+ Age logioptionsplus_ag	magnify magnify.exe	Microsoft Manage mmc.exe	Microsoft Office Cl officeclicktorun.ex	Microsoft Outlook outlook.exe	Microsoft Paint mspaint.exe

ADD

Finally, to save, click on the **Save changes** button.

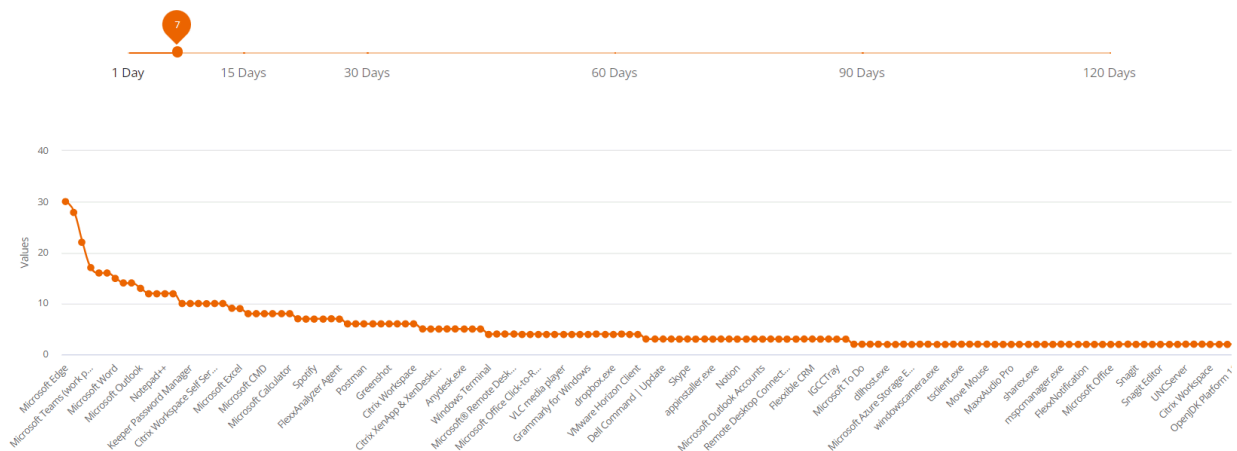
Analyzer / App Versions

App Versions allows you to quickly and visually obtain information about the different versions of the same application installed on an organization's devices.

Graphical view

In the upper area of the **Apps Version** option, you can see a selector for the number of days you want to evaluate. By moving it, you can see the different versions of the registered applications, depending on the number of days selected.

APP VERSIONS



The graph below the day selector shows the number of versions per application: those with more will be at the top and those with fewer, at the bottom.

Table view

🔍 Search...

Versions >

App Name	App Executable	Total Versions
Microsoft Edge	msedge.exe	30
Google Chrome	chrome.exe	28
Microsoft Windows System Settings	systemsettings.exe	22
Microsoft Teams (work preview)	ms-teams.exe	17
Citrix Workspace	cdviewer.exe	16
Microsoft Teams	teams.exe	16
Microsoft Word	winword.exe	15
Task Manager	taskmgr.exe	14
Microsoft Edge View	msedgewebview2.exe	14
Microsoft Outlook	outlook.exe	13

1 to 10 of 142 |< < Page 1 of 15 > >|

At the bottom, there is a table with detailed information:

- Application name
- Executable name
- Number of total versions

This data facilitates the task of unifying the different application versions.

Analyzer / Polls

Polls allow us to get the user's sentiment or perception regarding very simple questions, trying to simplify the response mechanisms as much as possible to maximize the user response rate.

The information gathered from the polls is processed along with the data that make up the WRI (Workspace Reliability Index) to build the UXI dashboard (user experience indicator).

Poll Settings

The **Polls** section allows you to create, modify, and delete polls for users, schedule their execution, determine which users will receive them, and more options.

List view

FlexxANALYZER

POLLS DASHBOARD

CREATE NEW POLL

Search...

Name	Status	Type	Start Date	Last Respo...	Responses	Avg Score
	In progress	Recurrent	2023-03-06 09:...	2024-07-12 15:...	533	★ 4.04
	Completed	One shot	2023-06-30 14:...	N/A	0	★ 0

1 to 2 of 2 | Page 1 of 1

FlexxAnalyzer 2024

By accessing the section, you can see a list of configured polls, if any, as well as a preview of their configuration.

Detail view

By accessing an already created poll to modify it or simply creating a new one using the button at the top right, you can access the settings of a poll.

The screenshot shows the 'CREATE POLL' form in the FlexxANALYZER interface. The form is titled 'POLLS DASHBOARD / CREATE POLL'. It features a sidebar with navigation options: Home, Integrations, Settings, FlexxAnalyzer Users, and Help. The main form area contains the following fields and options:

- Name:** A text input field.
- Question:** A text input field.
- Choose an audience:** Radio buttons for 'Organization' (selected) and 'Custom'.
- Occurrence:** Radio buttons for 'One shot' and 'Recurrent' (selected).
- Recurrence pattern:** Radio buttons for 'Weekly', 'Monthly', and 'Once Year' (selected).
- Time zone:** A dropdown menu.
- Select day:** A date field showing '16/07/2024'.
- Start time:** A time field showing '09:44'.
- End time:** A time field showing '10:44'.
- End date:** Radio buttons for 'End date: 17/07/2024' and 'No end date' (selected).

At the bottom right, there are two buttons: 'CANCEL' and 'PUBLISH POLL'. The footer of the page reads 'FlexxAnalyzer 2024'.

The configuration options include:

- Name
- Question
- Audience
- Occurrence

Name

Define the name of the poll, as well as the title it will have when sent to users.

Question

Contains the question that will be asked to users; the response is determined on a scale from 1 to 5 stars.

Audience

The audience settings allow you to launch the poll to the entire organization, selected user groups, or organizational groups.

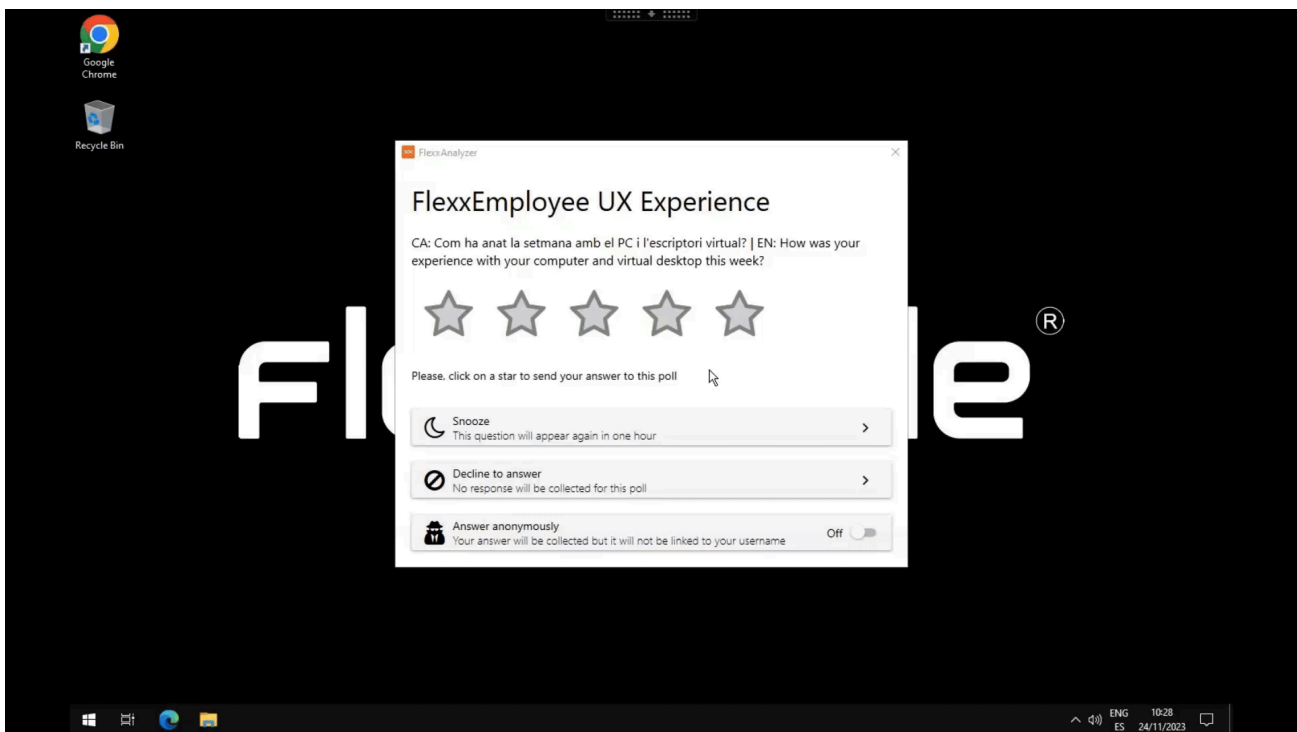
Occurrence

The occurrence options allow you to configure the poll to be launched to users either once or on a recurring basis. If it is recurring, the options are as follows:

- Weekly
- Monthly
- Yearly

In all cases, it is possible to select the specific day of the poll launch and its end date. It is also possible not to set an end date so that the poll runs indefinitely with the applied configuration.

Poll Execution



When the execution time arrives, the users defined in the audience settings will receive the poll. They need to respond by clicking on the number of stars (from 1 to 5), according to the rating. These data are processed together with the data that make up the WRI (Workspace Reliability Index) to build the UXI dashboard (user experience).

Analyzer / Users in Analyzer

The users view provides information about all users detected by FlexxAgent on the devices. It allows you to view the application and device resources used by the users in the organization.

To get more information about users, it is possible to integrate Analyzer with Active Directory or Entra ID, which will allow obtaining data that FlexxAgent cannot capture from the session, such as email address, manager, or user department.

List view

The screenshot displays the FlexxAnalyzer interface for the 'USERS' section. At the top, there are navigation icons for Home, Integrations, Settings, FlexxAnalyzer Users, and Help. The main content area shows a summary of 150 Total users and 7 Total Domains. Below this is a search bar and a table listing individual users.

Username	Name	User Principal Name	Department	Domain	Manager
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]

User data in table view

This view allows you to see condensed information about the total number of users and domains, as well as data for all users; these include:

- Username: username used for login in the session
- Name: user's display name
- UPN: principal user name

- Department: Department reported in Active Directory or Entra ID
- Domain: Entra ID or Active Directory domain where the device resides
- Manager: user's manager informed in Entra ID or Active Directory
- Usage days: total days the user has logged in
- Profile size: disk space occupied by the user profile
- Last report: date of the last FlexxAgent report

Detail view

Accessing any user enables the detail view:

The screenshot displays the FlexxANALYZER web application interface. At the top, there is a navigation bar with the logo and a 'Back to Previous Page' link. A sidebar on the left contains icons for Home, Integrations, Settings, FlexxAnalyzer Users, and Help. The main content area shows the 'USER DETAILS' view for a user, featuring a card with '91 Apps' and a table of user data. The table has columns for Name, Username, Workspace, and Profile Size. The data in the table is partially redacted with grey boxes.

Name	Username	Workspace	Profile Size
[Redacted]	[Redacted]	[Redacted]	21.8 GB
[Redacted]	[Redacted]	[Redacted]	33.9 GB
[Redacted]	[Redacted]	[Redacted]	31.9 GB
[Redacted]	[Redacted]	[Redacted]	21.7 GB
[Redacted]	[Redacted]	[Redacted]	20.5 GB
[Redacted]	[Redacted]	[Redacted]	23.9 GB

User data in the detail view

In this view, data related to the user is collected, including:

- Total number of applications used by the user
- Username: username used for login in the session
- Name: user's display name
- UPN: principal user name

- Domain: Entra ID or Active Directory domain where the device resides
- Department: Department reported in Active Directory or Entra ID
- Email Address: user's email address

On the right side of the screen, there is a table with a row for each device on which the user worked. This table contains:

- Workspace: device name
- Profile size: disk space occupied by the user profile

At the bottom of the screen, the 'Used applications' and 'Usage history' sections are presented.

Used applications presents a table view containing all the applications used by the user. The table contains:

- Name: application name
- Workspace: device where the application was detected
- Version: discovered application version
- Last report: date of the last FlexxAgent report
- App Group: group to which the application belongs
- Category: application category

Usage history shows information about the devices used by the user. Contains:

- Workspace: device name
- Days: usage days
- Last report: date of the last FlexxAgent report

Analyzer / User Groups

Users Groups allows you to create user groups using the data of the users discovered by FlexxAgent.

List view

The list view presents the information of all existing groups and the button at the top right of the screen allows you to create new groups.

The screenshot displays the FlexxAnalyzer interface for the 'USERS GROUPS' section. On the left is a dark sidebar with navigation icons for Home, Integrations, Settings, Users, and Help. The main area features a search bar, an 'ADD' button, and a table with columns 'NAME' and 'MEMBERS'. The table contains three rows of data, each with a trashcan icon on the right. At the bottom right, a pagination control shows '1 to 3 of 3' and 'Page 1 of 1'. The footer indicates 'FlexxAnalyzer 2024'.

Detail view

Within the details of a user group, it is possible to remove any user using the trashcan-shaped button located on the far right. It is also possible to add new users to the group with the **Add** button at the top right of the screen.






- Home
- Integrations
- Settings
- FlexxAnalyzer Users
- Help

USERS GROUPS / **USERS GROUP**

Search...

ADD

USERNAME ↑

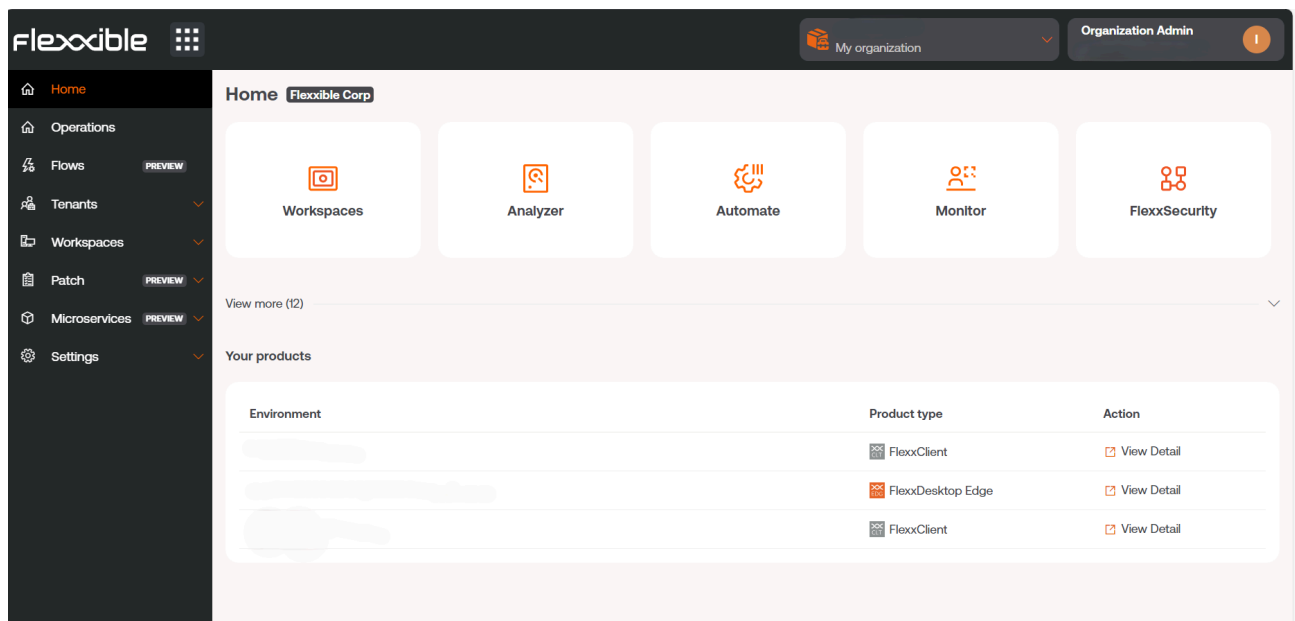
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	

Portal

Portal is the central space of the platform, from where you can access the available modules of Flexible's products. You can create, modify or delete users and also assign them roles so they can develop and manage actions related to microservices, flows, and patch management policies.

Through Portal, you can consult license consumption data by environment; manage reporting groups, which enable device segmentation; and activate functionalities in FlexxAgent. Portal integrates with OAuth2, a framework that allows user authorization, enabling them to sign in easily using their corporate credentials.

From **Home** you can access the various modules that make up the solution and in **Your Products** to the active licenses of Flexible's products included in your subscription.



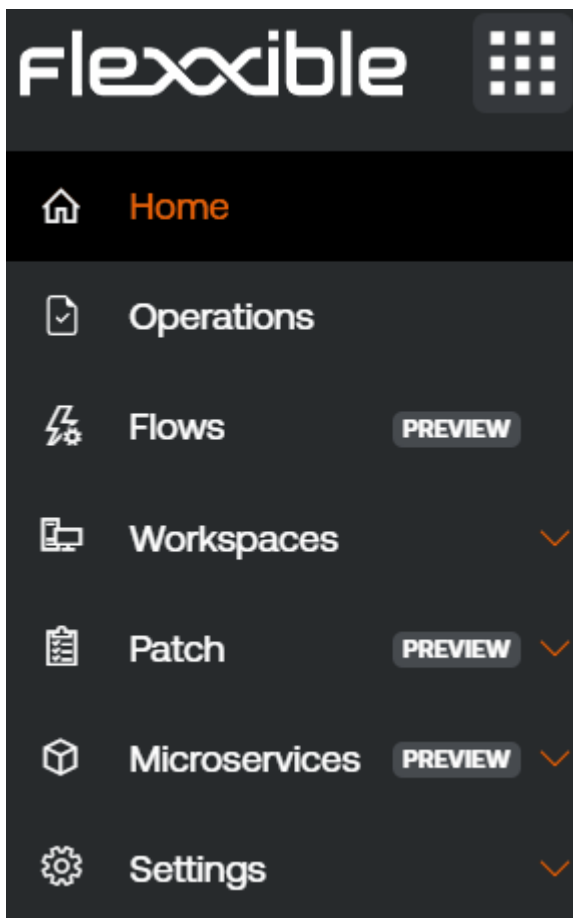
Sidebar menu

This option offers several action fields.

- [Operations](#)
- [Flows](#)
- [Tenants](#)

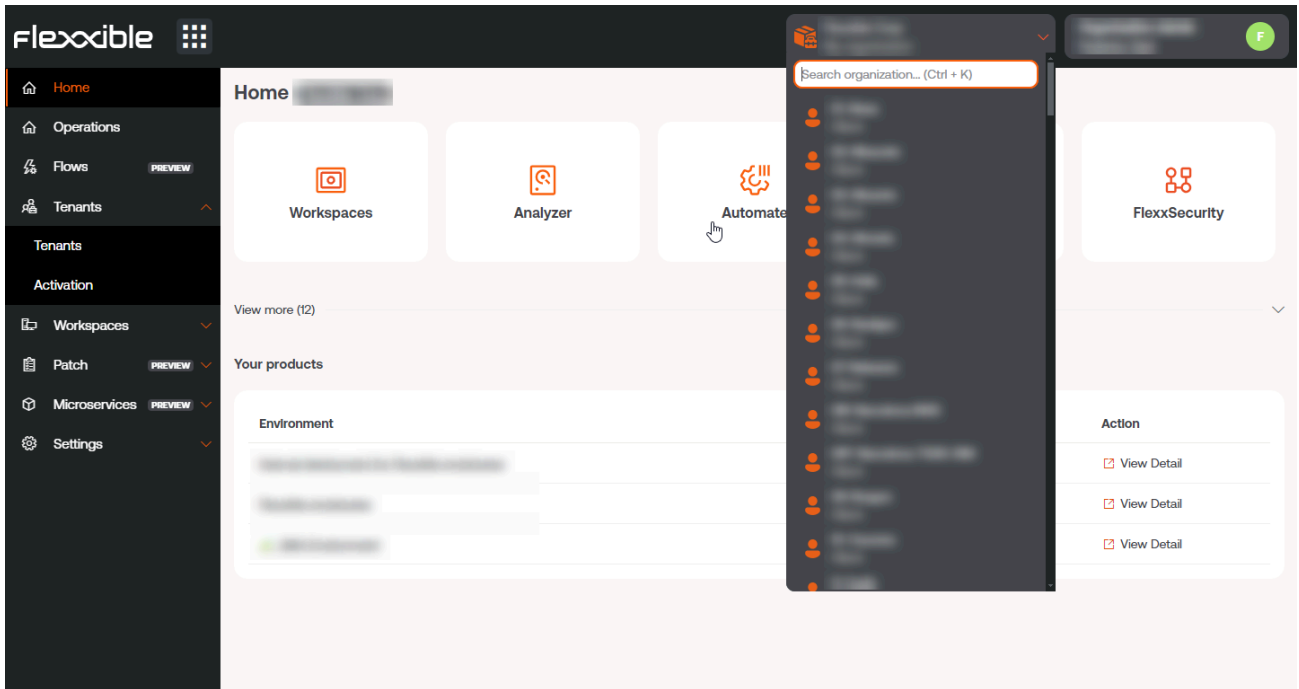
- [Workspaces](#)
- [Updates](#)
- [Microservices](#)
- [Configuration](#)

Another way to access the modules is by pressing the button with nine dots to the right of the Flexible logo, which acts as a switch to change the sidebar content to the list of available applications. To revert to the previous menu state, just press the button again.



Organization selector

At the top, towards the center, is the organization selector. If a user has access to multiple organizations, as in the case of managed service providers (MSP), they can easily select the organization to manage using both the mouse and the keyboard.

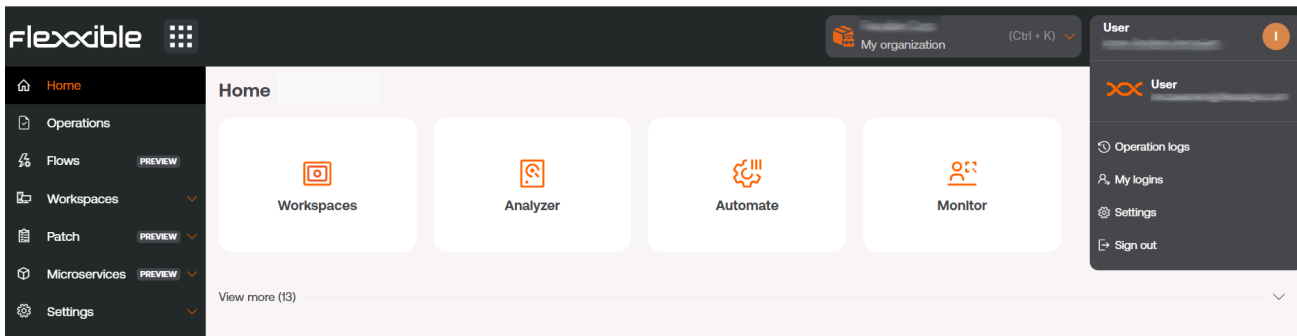


Select the organization with the keyboard

- **Ctrl + K** (**Cmd + K** on Mac): opens the selector to scroll and search for an organization, using the cursor keys. To select an organization, you must use the **Enter** key. It is also possible to type text to filter the results of the list.
- **Control + D** (**Cmd + D** on Mac): allows the user to return to the default organization when the Portal interface is in another organization. This action is very useful because it streamlines the consultation of data from one organization or another from any Portal instance. You can also return to the default organization with **Ctrl + K + O** (**Cmd + K + O** on Mac).

User Settings

In the top menu, on the right, the logged-in user's name and their assigned role in Portal are displayed.



If you click on the user name you can consult and manage:

- [My logins](#)
- [Settings](#)
- Log off

My logins

Displays information about the user's session connections, including IP address, user agent, access dates, and the module accessed. The data comes directly from the authentication provider. You can view up to the last 30 days or the last 1000 login sessions at most.

Settings

This section allows the user to set a default organization, configure the language, and set regional settings for Portal and other modules, as well as activate the advanced menu.

Default Organization

The default organization is the one the user will see by default when they enter Portal. To configure it, click on `Organization to show by default`. At that moment, the available organizations the user has access to will be displayed.

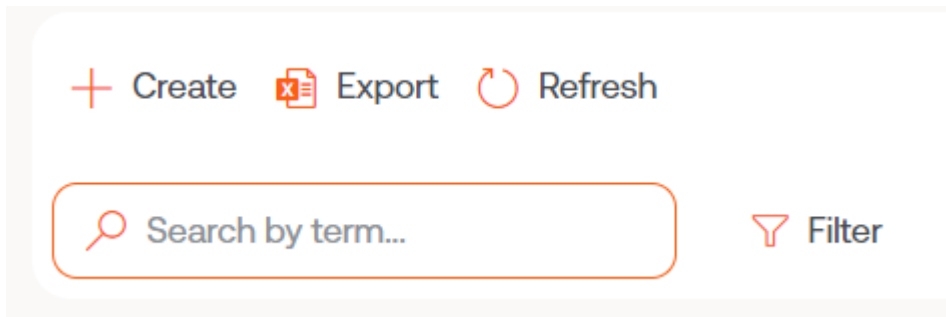
Advanced menu

The advanced menu expands the Portal sidebar by adding shortcuts to specific functionalities of the other modules, so, for example, you can jump to a specific section of Analyzer or Workspaces.

Tables

Tables are a fundamental part of Portal because they are used to display data in all sections of the application. They are generally structured as follows:

Top bar



New

The **New** button opens a form to enter the requested data. The fields to be completed depend on the section of Portal being consulted. For example, if the user is in **Tenant**, the form would ask to add the information to create a new tenant.

Export

To export the list observed in the list view, just click **Export**. This action will download an excel file with the data displayed in the table.

Reload the table

The **Reload the table** button is a feature option, very useful when you want to refresh the list, especially when new data has been created.

Search by term

The **Search by term** field allows for more precise searches. You can enter a word that matches the data you are looking for.

Filter

The **Filter** button is a more complete alternative for searching. Clicking on it displays a menu to choose the **Field** of the table where you want to search; once the field is selected, the **Value** option enables to enter a term you want to filter by. You can create as many filters as there are field options displayed when clicking on **Filters**.

Full screen


























Considering that tables are an essential part of Portal, the full screen button expands the table size to improve data visibility and enhance the user experience.

The screenshot shows the Flexible Designer interface. The top navigation bar includes the Flexible logo, a user profile for 'Organization Admin', and a search bar. The left sidebar contains a menu with items like Home, Operations, Flows, Tenants, Workspaces, Patch, Microservices, Enabled, Marketplace, Designer (highlighted), and Audit log. The main content area is titled 'Designer' and features a table with the following columns: Name, Category, Library, Archived, and Actions. The table lists several items, including 'List Installed User Certificates', 'Borrar cache Teams', 'Windows Update - No restart', 'Windows update - with reboot', 'Clear Microsoft Edge Cache', 'Force Synchronization with SCCM', and 'Intune - Enroll Device'. At the bottom of the table, there is a pagination control showing 'Page 1 of 1' and 'Showing 1 to 50 of 50 results'.

Content

Table columns order the information according to fields. The first column is always **Name**, referring to the section where the user is at that moment; for example, if the user is in **Flows**, the table will display the name of the existing flows. The name of the following columns varies according to the section of Portal being consulted.

The content of the columns can be sorted in ascending or descending order, alphabetically. And the width of these can be adjusted by placing the cursor between two field names.

Name ↑↓	Product ↑↓	Policy ↑↓	Creation date ↑↓	Action
	 FlexxClient		7/25/24	 View Detail
			2/28/24	 View Detail
	 FlexxClient		7/23/24	 View Detail
	 FlexxClient		8/27/24	 View Detail
	 FlexxClient		7/25/24	 View Detail
	 FlexxClient		7/15/24	 View Detail
	 FlexxClient		8/13/24	 View Detail
	 FlexxClient		7/17/24	 View Detail

< Previous Page 1 of 1 Next > Showing 1 to 9 of 9 results Per page: 50

Bottom bar

All tables have at the bottom a navigation bar that allows you to select how many results to show per page, and also gives the possibility to choose the page number you want to go to.

Name ↑↓	Product ↑↓	Policy ↑↓	Creation date ↑↓	Action
	 FlexxClient		7/25/24	 View Detail

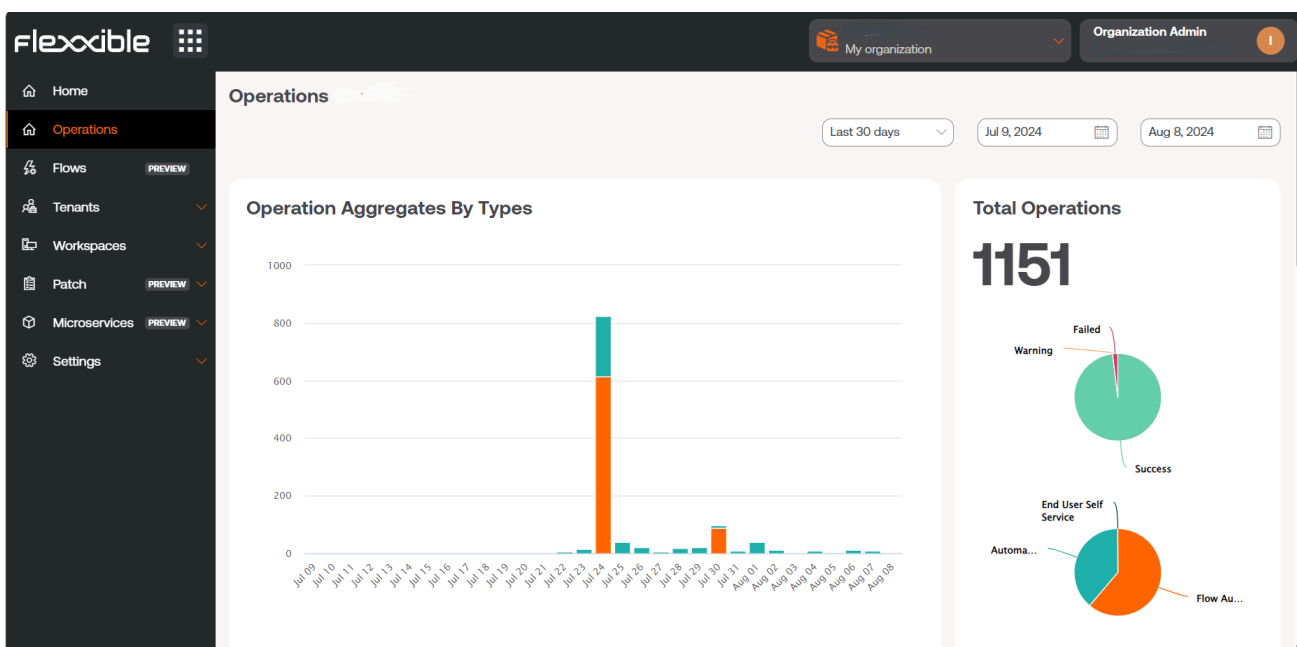
< Previous Page 1 of 1 Next > Showing 1 to 44 of 44 results Per page: 50

Portal / Operations

The **Operations** section shows graphs of the three types of operations, regarding the microservices, that have been performed on the devices.

- **Automated support action:** These are the executions of microservices performed on demand from Workspaces by users who belong to the technical support teams.
- **Flow execution:** These operations include the automatic executions of microservices in **Flows**, when the conditions are met.
- **User microservice:** These are the executions of microservices performed by the user themselves, without needing help from the support team.

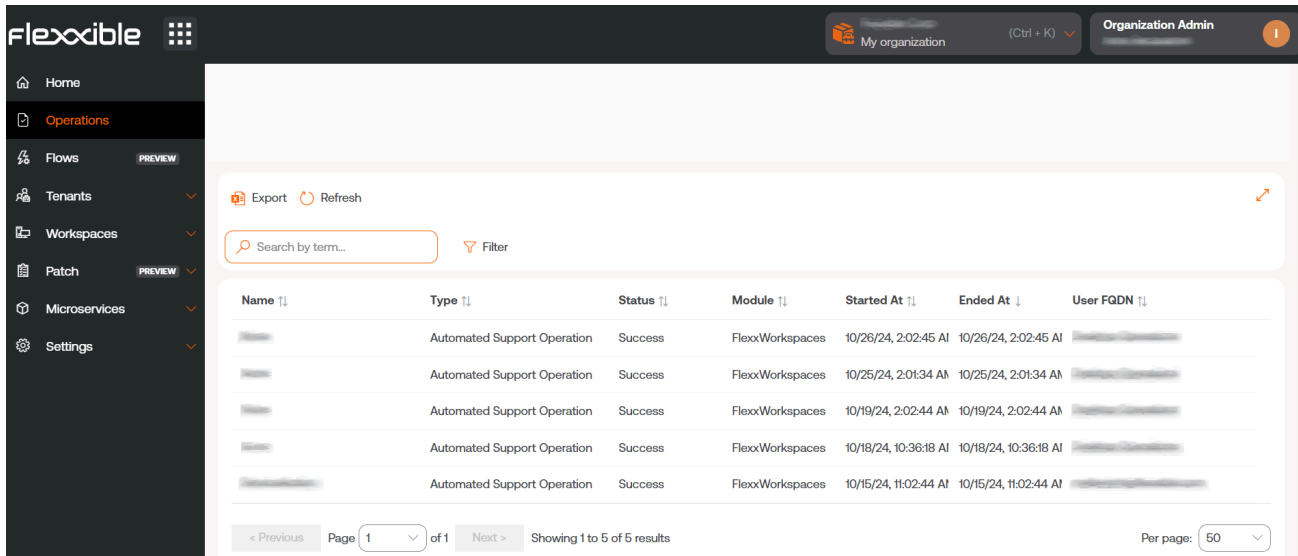
All actions leave an audit record in the **Jobs** section of Workspaces, allowing for temporal traceability of the users and devices involved, as well as the details of the code executed and the output generated.



In this view, two types of graphs are generated, with results related to the date range set in the top menu.

- **Operations by type:** Shows the number of operations performed by type and day, following the chosen date cycle.

- **Total operations:** Provides two pie charts. The upper one indicates how many operations were successful, failed, or had warnings, out of the total operations executed. And the lower one indicates the type of operations performed from that total.



The screenshot shows the Flexxible interface with a sidebar on the left containing navigation items: Home, Operations, Flows (PREVIEW), Tenants, Workspaces, Patch (PREVIEW), Microservices, and Settings. The main content area displays the 'Operations' page. At the top right, there are buttons for 'Export' and 'Refresh', and a search bar labeled 'Search by term...'. Below the search bar is a table with the following columns: Name, Type, Status, Module, Started At, Ended At, and User FQDN. The table contains five rows of data, all showing 'Automated Support Operation' with a 'Success' status, performed by 'FlexxWorkspaces'.

Name	Type	Status	Module	Started At	Ended At	User FQDN
[Redacted]	Automated Support Operation	Success	FlexxWorkspaces	10/26/24, 2:02:45 AM	10/26/24, 2:02:45 AM	[Redacted]
[Redacted]	Automated Support Operation	Success	FlexxWorkspaces	10/25/24, 2:01:34 AM	10/25/24, 2:01:34 AM	[Redacted]
[Redacted]	Automated Support Operation	Success	FlexxWorkspaces	10/19/24, 2:02:44 AM	10/19/24, 2:02:44 AM	[Redacted]
[Redacted]	Automated Support Operation	Success	FlexxWorkspaces	10/18/24, 10:36:18 AM	10/18/24, 10:36:18 AM	[Redacted]
[Redacted]	Automated Support Operation	Success	FlexxWorkspaces	10/15/24, 11:02:44 AM	10/15/24, 11:02:44 AM	[Redacted]

At the bottom of the table, there is a pagination bar showing '< Previous Page 1 of 1 Next >' and 'Showing 1 to 5 of 5 results'. On the right side of the pagination bar, there is a 'Per page: 50' dropdown menu.

Operation List displays a table with details of the executed operations, specifying the type of operation, from which module they were carried out, and the start and end times. At the bottom of the view, there is a bar that allows you to navigate between pages, to see the details of all executions.

Portal / Flows

The **Flows** allow creating automation flows to detect specific situations by evaluating the compliance of certain conditions, in order to act based on the result of such evaluation.

This approach simplifies proactive diagnostic actions, quickly solves problems when there is a focus on their detection, and provides a highly efficient way to enable self-remediation mechanisms for common issues.

It also allows technical teams to couple devices to configurations defined by the organization, evaluating them periodically and adapting them if necessary.

Name	Description	Type	Detection only	Cooldown
		Session	No	10 minutes
		Workspace	Yes	5 minutes
		Workspace	Yes	3 minutes
		Workspace	No	10 minutes
		Workspace	No	30 minutes
		Workspace	Yes	10 minutes

Settings

Each flow has options to customize its behavior:

- [Overview](#)
- [Target](#)
- [Flow](#)
- [Notification](#)

A configuration change to an existing flow can take up to 15 minutes to apply to all linked devices.

Overview

Stores general information of the flow.

- **Description:** description of the flow
- **Created:** flow creation date
- **Type:** it's the execution scope of the flow, determined by the type of microservice you want to run. It can be done at the user session level, with the corresponding permissions, or at the device level, with administrative access.
- **Reuse time:** marks the minimum time that will pass, once the evaluated condition is met, for that evaluation to be executed again.
- **Detection only:** evaluates conditions in a "sampling" mode. Detects those devices where the conditions are met, but without executing the microservice defined in the flow.

Edit and delete a flow

Using the **Edit** button, you can change the name, description, and reuse time of the flow.

Delete allows you to delete a flow and gives you the option to confirm its deletion.

Edit flow

Name (english) *
 Show languages

Description (english) *
 Show languages

Type * **Cooldown ***

Session | 10 minutes

Detection only

Delete Cancel Save

Target

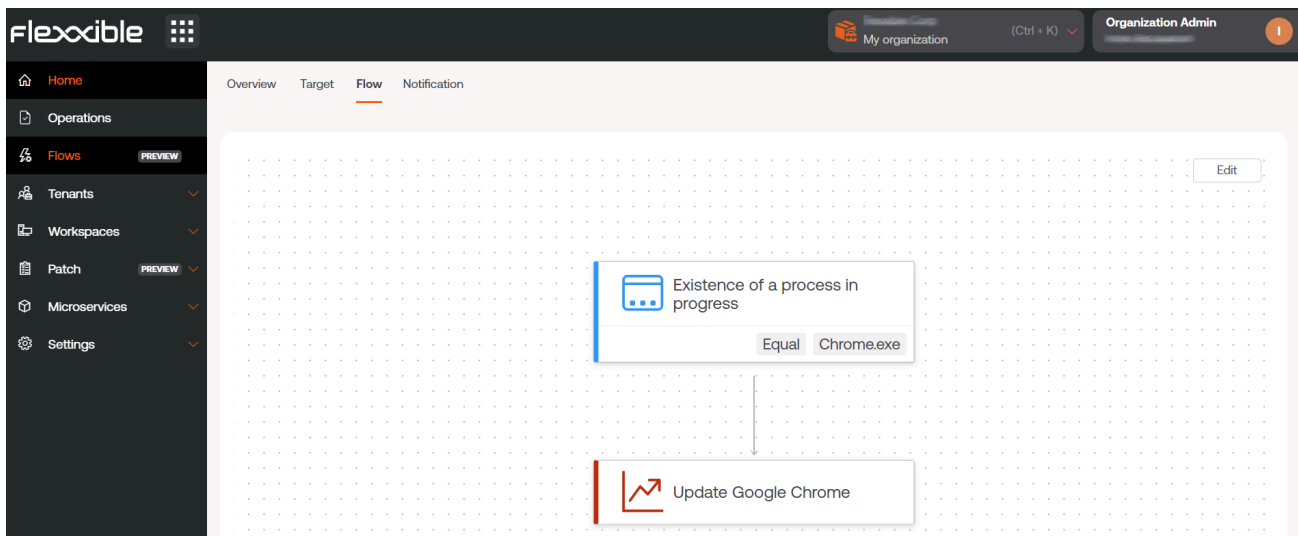
This setting allows you to define the device groups in which the flow will be executed. It supports the following configuration options:

- All devices

- A custom selection of devices
- One or several workspace groups
- One or several reporting groups

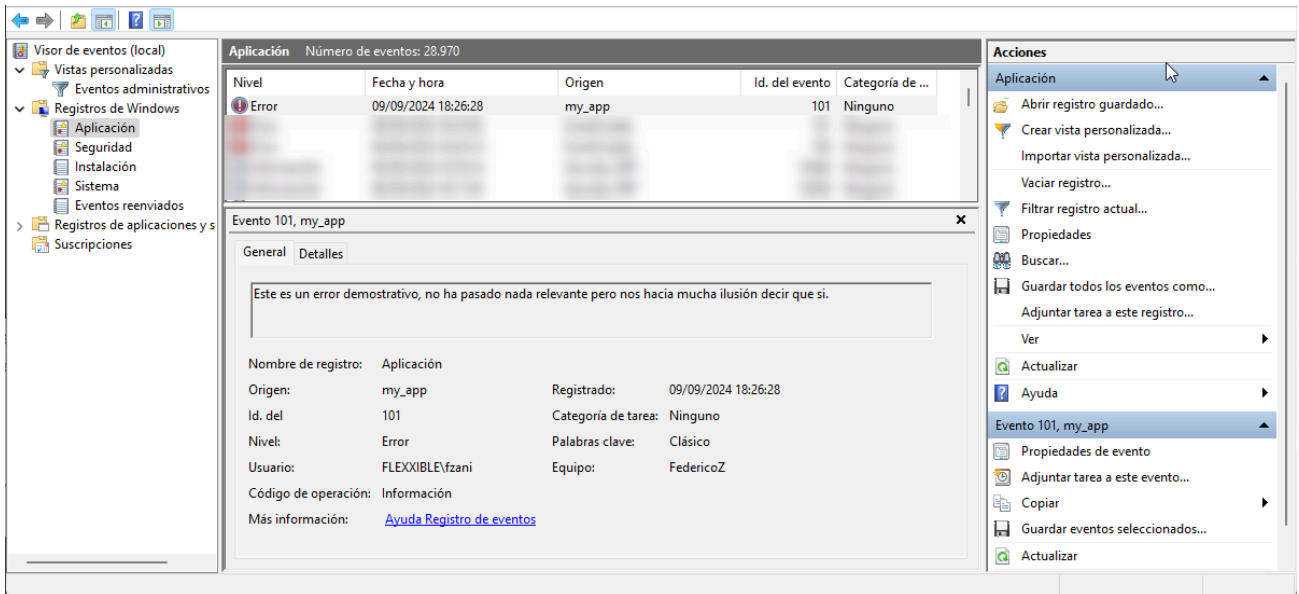
Flows

From here you can define the conditions to evaluate, the required thresholds and the action to execute if these conditions are met.



Flow conditions

- **Existence of an ongoing process:** allows you to periodically evaluate, in intervals of fifteen seconds to five minutes, the existence of a process in progress. Supported operating system: Windows.
- **Windows event log identifier detected:** this condition searches, in intervals of five to twenty minutes, for events in the Windows event viewer with a specific name, provider, or ID. These must be specified in the format `<logName>:<source>:<id>`; for example `Application:my_app:101`. Where:
 - Logname = Application
 - Source = my_app
 - id = 101



- **Operating system version:** allows you to obtain the operating system version, at intervals of one to twelve hours, using operators where the value is equal to, starts with, ends with, or contains a specific text string. Supported operating system: Windows.
- **Operating system language:** detects the operating system language at intervals of one to twelve hours. Uses operators where the value can be equal to, starts with, ends with, or contains a specific text string. Supported operating system: Windows.
- **Percentage of free disk space in the operating system:** allows you to evaluate and set a target percentage value at intervals of five to sixty minutes. Supported operating system: Windows.
- **Cron Match:** checks if a cron formatted string matches only when the current date and time exactly align with the specified cron expression. Hours are defined in UTC.
- **Actions:** once the conditions are evaluated and according to the obtained values, they allow an action to be executed. In this section, all the microservices enabled in your subscription will appear to be selected and included in the flow.

Notification

This parameter is optional and can be disabled. It allows you to send notifications to users at the start and end of the flow execution, using the operating system's notifications. Once enabled, you can set:

- Initial message: will be sent to users when the execution begins.
- Success message: will be sent to users on successful execution.
- Error message: will be sent to users on execution with errors.

Portal / Tenants

Through **Tenants**, organizations operating in the Managed Service Provider (MSP) model have the ability to establish subsidiary entities that they can support whenever they require it.

These entities are other organizations, which in Portal adopt the name of **Tenants**.

Tenants are assigned a profile type that describes them as an organization. Therefore, all tenants belong to a type of organization.

Types of organizations

Portal distinguishes three types of organizations, establishing relationships between them:

- Partner-type organizations
- Client-type organizations
- Suborganizations

Partner-type organizations

- They have the authority to grant administrative access to client-type organizations (tenants) that depend on them.

Client-type organizations

- They have the option, if they wish, to segment their organization into multiple suborganizations to facilitate delegated administration.
- They can always see their entire set of workspaces, regardless of who has been delegated the management.
- They have the option to apply a **Policy** for the creation of their suborganizations from a template, which will help them configure multiple users, reporting groups, and accesses.

- They can link their instance of Analyzer to their suborganizations or assign them a new one.
- They have their own configurations.
- Several client-type organizations can have the same partner as a service provider.

Suborganizations

- They are subdivisions of a complex organization, management units established according to implementation requirements.
- They are very helpful in very large environments, with wide user distribution and multiple service providers or highly segmented technical teams.
- They do not have a subscription by themselves; they use the subscription of the client-type organization that manages them.
- Each suborganization can only see its information in Workspaces. They cannot access the information of other suborganizations or of the client-type organization that manages them.
- They inherit the configuration of the client-type organization that manages them, although it can be edited. They also inherit the FlexxAgent configuration, but this is not editable.

! INFO

Client-type organizations can create suborganizations at a lower level. Suborganizations cannot be created from another suborganization.

List of tenants

The list view shows a table with the list of organizations (tenants) whose administration is delegated. It includes information about the Flexible product they have, their policy, and creation date.

The [View Details](#) button opens a form that allows you to change the name of the tenant and delete it.

The **New** button allows you to create a new tenant; for this, you must enter, in addition to the previous data, an email address, language, country, sector, product, and region. It also gives the option to assign a **Policy**. The **Export** button allows an excel file to be downloaded with the list of current tenants. And **Reload** gives the option to update the table after entering new data.

Tenant interface

If the user clicks on the name of a tenant in the table, the Portal interface will automatically switch to the **Home** page of the selected tenant's Portal. This action is very useful because it speeds up the consultation of data from one organization or another.

Portal will not revert to the default organization, even if the page is refreshed. To go back, there are three options:

- Do **Ctrl + D** (**Cmd + D** on Mac).
- Do **Ctrl + K + O** (**Cmd + K + O** on Mac).
- Directly select the default organization (**My organization**) from the **Organization Selector**, located at the top of the interface.

In the **Organization Selector**, you can differentiate tenants from suborganizations. These are prefixed by the name of the client-type organization that manages them. For example: *Client A > Suborganization-01*.

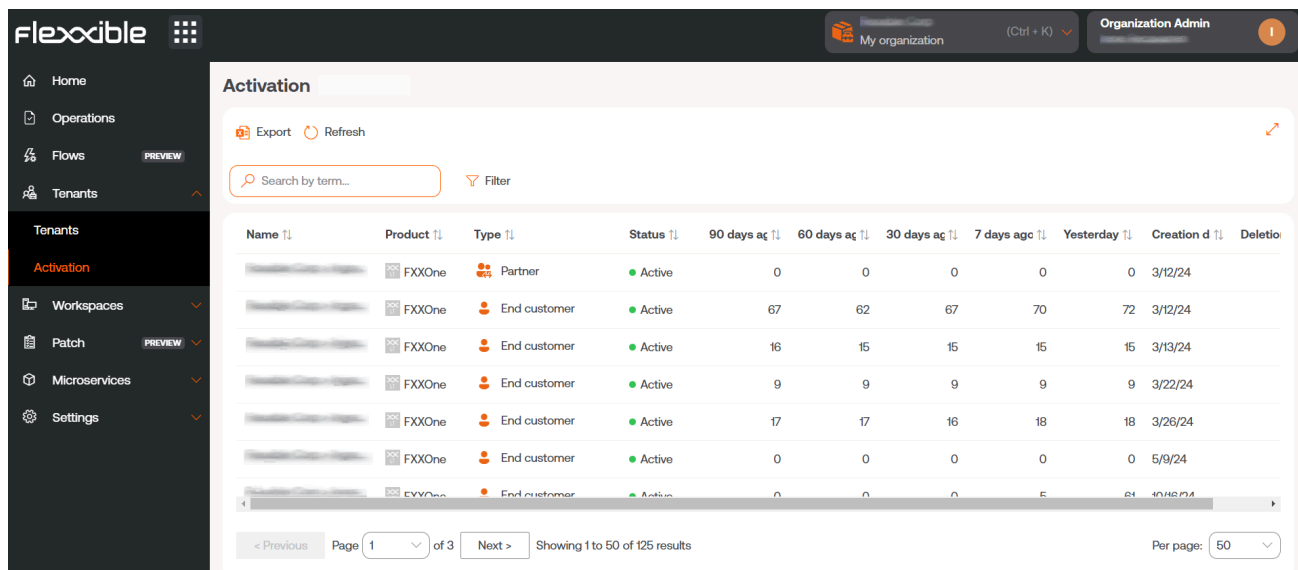
Portal / Tenants / Activation

Activation allows Managed Service Providers (MSPs) to evaluate the evolution of FlexxAgent installations or deployments in client organizations where they have delegated administration.

The list view table shows the names of the tenants. If it is a sub-organization, its name will be preceded by the name of the organization that manages it; for example: *Client A > Sub-organization-01*. This nomenclature is adopted because sub-organizations inherit the FlexxAgent configuration from the client organization that manages them.

The table also indicates the Flexible product owned by the tenant, the type of organization it corresponds to, and time indicators that help to understand the evolution of FlexxAgent adoption in the organization.

The time indicators offered by the table are *90 days ago*, *60 days ago*, *30 days ago*, *7 days ago* and *Yesterday*. Each field specifies the number (units) of active agents at that particular moment.



The screenshot shows the 'Activation' page in the Flexxible portal. The page has a dark sidebar with navigation options: Home, Operations, Flows (PREVIEW), Tenants, Workspaces, Patch (PREVIEW), Microservices, and Settings. The main content area is titled 'Activation' and includes an 'Export' button, a 'Refresh' button, and a search bar labeled 'Search by term...'. Below the search bar is a table with the following columns: Name, Product, Type, Status, 90 days ago, 60 days ago, 30 days ago, 7 days ago, Yesterday, Creation date, and Delete. The table contains several rows of data, each representing a tenant. The 'Status' column shows 'Active' for all entries. The '90 days ago' column shows values ranging from 0 to 67. The '60 days ago' column shows values ranging from 0 to 62. The '30 days ago' column shows values ranging from 0 to 16. The '7 days ago' column shows values ranging from 0 to 15. The 'Yesterday' column shows values ranging from 0 to 18. The 'Creation date' column shows dates ranging from 3/12/24 to 5/9/24. At the bottom of the table, there is a pagination control showing 'Page 1 of 3' and 'Showing 1 to 50 of 125 results'. The 'Per page' dropdown is set to 50.

Name	Product	Type	Status	90 days ago	60 days ago	30 days ago	7 days ago	Yesterday	Creation d	Delete
	FXXOne	Partner	Active	0	0	0	0	0	3/12/24	
	FXXOne	End customer	Active	67	62	67	70	72	3/12/24	
	FXXOne	End customer	Active	16	15	15	15	15	3/13/24	
	FXXOne	End customer	Active	9	9	9	9	9	3/22/24	
	FXXOne	End customer	Active	17	17	16	18	18	3/26/24	
	FXXOne	End customer	Active	0	0	0	0	0	5/9/24	
	FXXOne	End customer	Active	0	0	0	5	61	10/16/24	

Activation also offers the option to search for tenants and the alternative to apply filters to the list of results according to different parameters, such as company name, the product they have, and the type of organization. From **Export** you can download the list view in excel format.

Tenant interface

If the user clicks on the name of a tenant in the table, the Portal interface will automatically switch to the **Home** page of the selected tenant's Portal. This action is very useful because it speeds up the consultation of data from one organization or another.

Portal will not revert to the default organization, even if the page is refreshed. There are two options to return:

- Do **Ctrl + K + 0**.
- Directly select the default organization (**My organization**) from the **Organization Selector**, located at the top of the interface.

Portal / Workspaces in Portal

The Workspaces section of [Portal](#) offers a list of the devices included in the subscription. It displays their inventory data: name, the Fully Qualified Domain Name (FQDN) corresponding to it, IP address, operating system, number of processor cores, amount of RAM, type of device (physical or virtual), and the assigned username.

Name	FQDN	IP Address	Operating Sys	CPU Cores	RAM	Type	Last User
			Microsoft Wind...	12	32581	Physical device	
			Microsoft Wind...	4	8073	Physical device	
			Microsoft Wind...	0	0	Virtual Desktop	
			Microsoft Wind...	4	3985	Physical device	
			Microsoft Wind...	4	8141	Virtual Desktop	
			Microsoft Wind...	12	16308	Physical device	

It also provides the option to perform a specific search, to find a device more quickly. At the bottom, below the list, there is a bar that allows you to scroll through the pages generated by the list of devices.

This section is informative. Actions on the devices must be performed from the [Workspaces](#) module.

Portal / Workspaces / Workspace Groups

The **Workspaces Groups** make the device management process easier for organizations, allowing them to group devices according to shared characteristics or specific criteria to monitor statistics more thoroughly and execute effective actions.

There are three types of groups:

- [Static](#)
- [Dynamic](#)
- [Entra ID](#)

Static Workspaces Group

It is a group created manually, with free criteria. It can be created and managed from Portal and from the **Workspaces** module, by filtering the **Workspaces** list option.

Creating a Static Workspaces Group from Portal

At the top of the list view of **Workspaces Groups**, click on **New**. A form will open where you will be asked to add a name and a description for the new group.

Create workspace group ✕

Name *

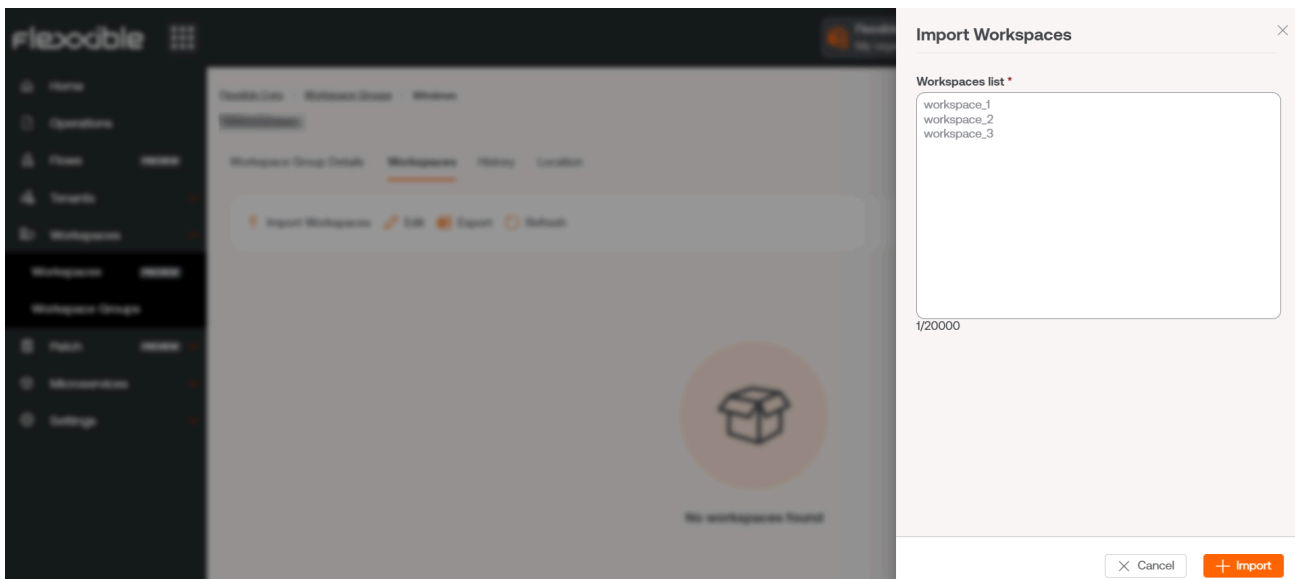
Please enter text here

Description

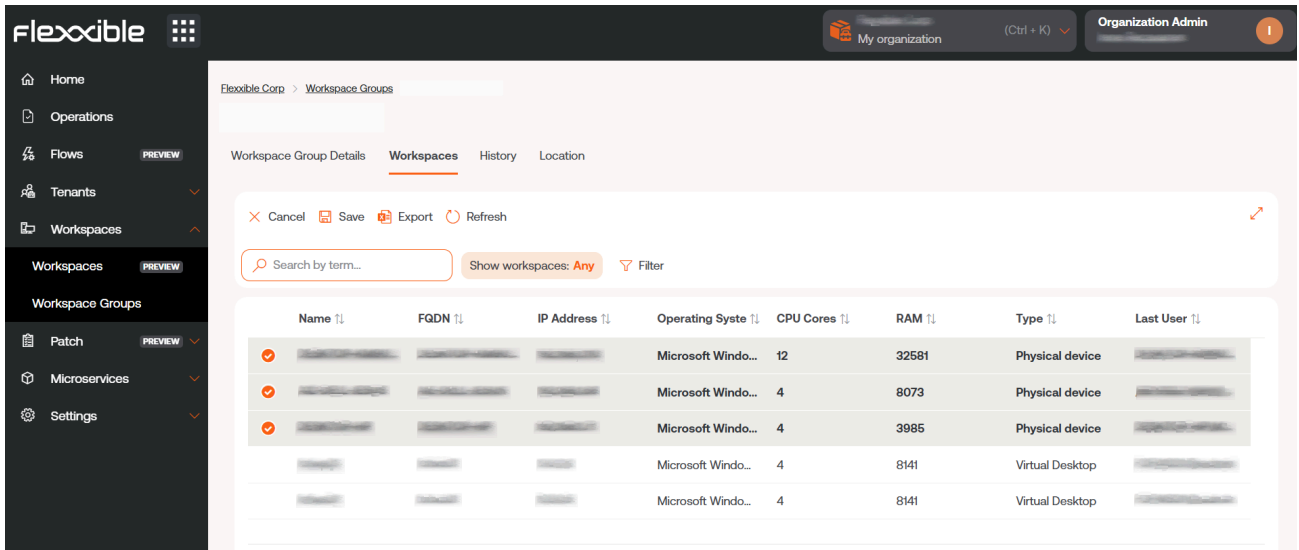
Please enter text here

There are two ways to add devices to a Static Workspaces Group from Portal:

1. In the groups table, click on **Detail View** of the desired group -> **Workspaces** -> **Import devices**. A form opens that allows importing up to 20,000 workspaces.

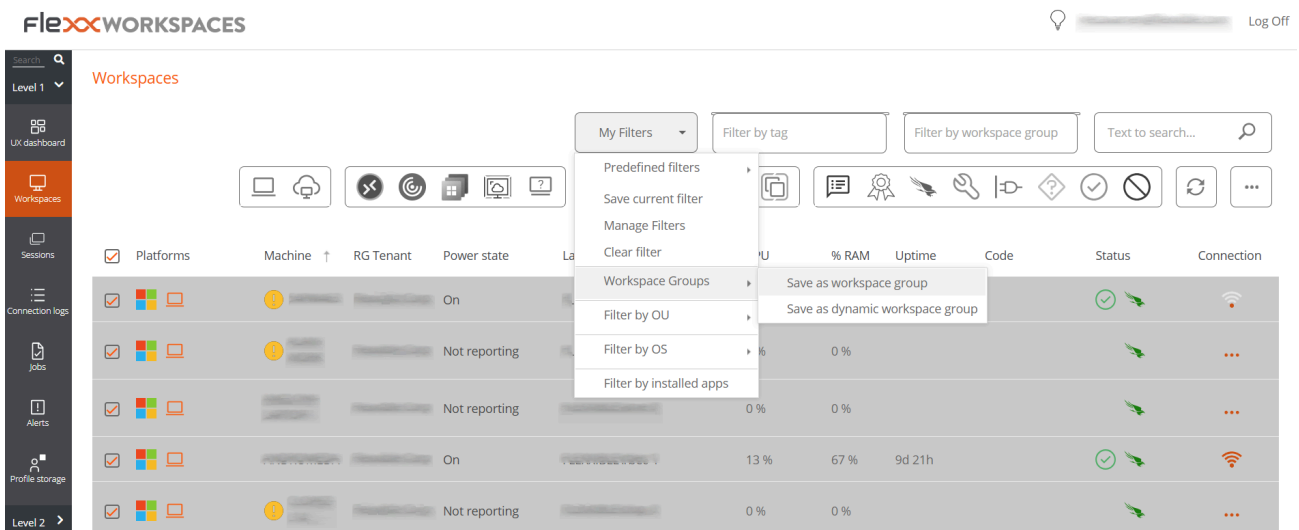


2. In the groups table, click on **Detail View** of the desired group -> **Workspaces** -> **Edit**. Next, select the devices you want to add. Those marked with an orange dot are added to the group and those not marked are removed. In both cases, click on **Save** to keep the changes.



Creating a Static Workspaces Group from Workspaces

In the side menu of the **Workspaces** module, go to the **Workspaces** option. Select the desired devices in the list view and save them in a new group by clicking on **My filters** -> **Workspace Group** -> **Save as static workspace group**.



[More information on how to create and manage static workspace groups.](#)

Dynamic Workspaces Group

It is a group in which some condition is periodically evaluated; for example: "devices with more than 85% memory usage", so its members can change in real-time. It is very useful

when you want to apply specific actions on them, such as microservices to solve a specific problem. They are created from the Workspaces module, by filtering the Workspaces list.

Creating a Dynamic Workspaces Group

From the list view of **Workspaces**, in the **Workspaces** module, right-click any field in the table to access **Filter builder** and choose the necessary filters to get a list with the devices that will form the new group. You can also choose filters from **My filters** -> **Default filters** or from any filtering option offered by the **Workspaces** view.

The screenshot shows the FlexxWorkspaces interface. At the top, there's a search bar and navigation options. The main area displays a table of workspaces. A context menu is open over the 'Estado' column, showing various filtering options. The table columns are: Plataformas, Máquina, Tenant del RG, Estado, and Último usuario. The 'Estado' column shows 'Encendido' for all visible rows.

With the list of devices ready, access **My filters** -> **Workspace Group** -> **Save as dynamic workspace group**. Workspaces will not allow creating a group if the filters for the devices are not specified first.

Workspaces will create a **Job** with the new group. If you want to check that it has been correctly formed, you can do so from the list view of **Workspaces Groups**, in Portal.

Editing a Dynamic Workspaces Group

To change the filters of a Dynamic Workspaces Group, and therefore the members of that group, follow these steps:

1. Find the name of the group in the **Filter by workspace group** search box located in the list view of **Workspaces**.

- Right-click on any field in the table with the list of workspaces to access the **Filter builder**. From there you can delete, edit, or add a new filter for the group. Press **OK**.
- With the new list of devices, go to **My filters** -> **Workspaces Groups** -> **Save as workspace group**. It is important to save the group with the same name it had before so a new group is not created.

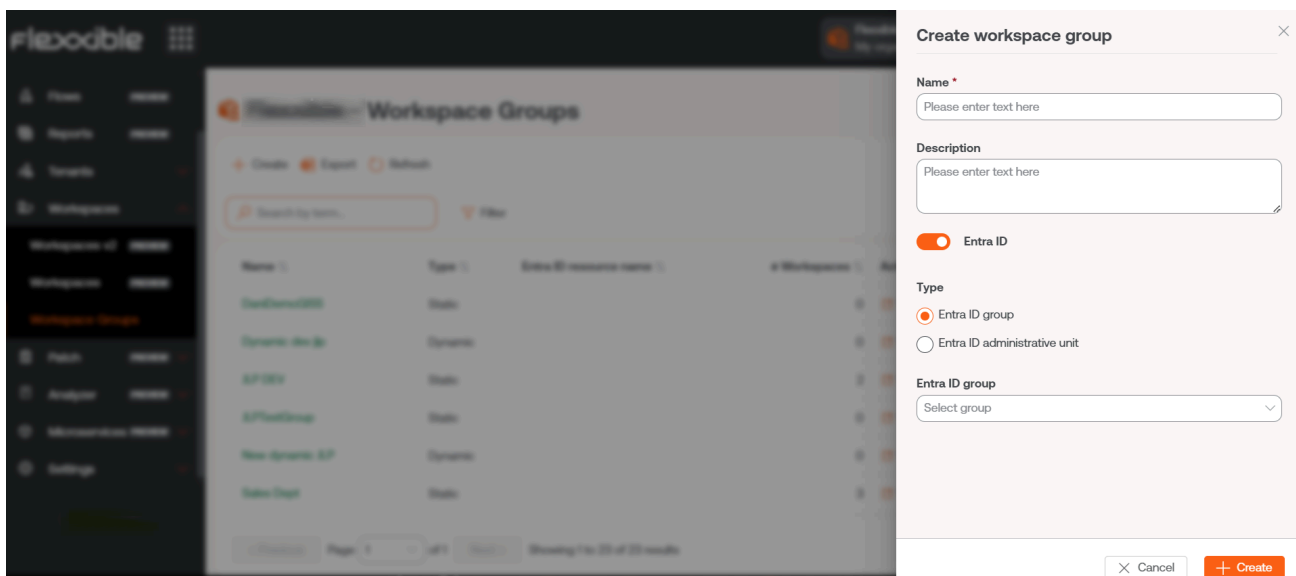
[More information on how to create and manage dynamic workspace groups.](#)

Entra ID Workspace Group

It is a group that can pull members from an existing group or organizational unit in the Entra ID domain in use. The creation of this type of group requires at least one active integration with the Entra ID domain, within **Settings** -> **Integrations**, in Portal.

Creating an Entra ID Workspaces Group

Entra ID groups are created from Portal. In the side menu, go to **Workspaces Groups**. Click on the **New** button located at the top of the list view. A form will open where you must add a name, a description for the group, and activate the **Entra ID** button. Next, select the type of group to be created: **Entra ID Group** or **Entra ID Administration Unit**.



Entra ID groups require an API connection, which can be configured from **Portal** -> **Settings** -> **Integrations**. Only from there can the created **Entra ID Group** and **Entra ID**

Administration Unit be consulted and therefore operations can be carried out on them from the Workspaces module.

Deleting a Workspaces Group

In the list view of **Workspaces Groups**, in Portal, click on **Detail View** of the desired group. In the **Group Details** tab -> **Edit**, a form will open with the **Delete** option.

Group management

The list view of **Workspaces Groups** contains information about the group's name, type, Entra ID characteristic, and the number of devices they contain. **View details** shows specific data of the selected group: Group details, Workspaces, History, Location, and Schedule.

Group details

Shows the same data as the list view, as well as the group's creation date and the user who created it. The **Edit** button allows changing the workspace name, adding a description, or even deleting it.

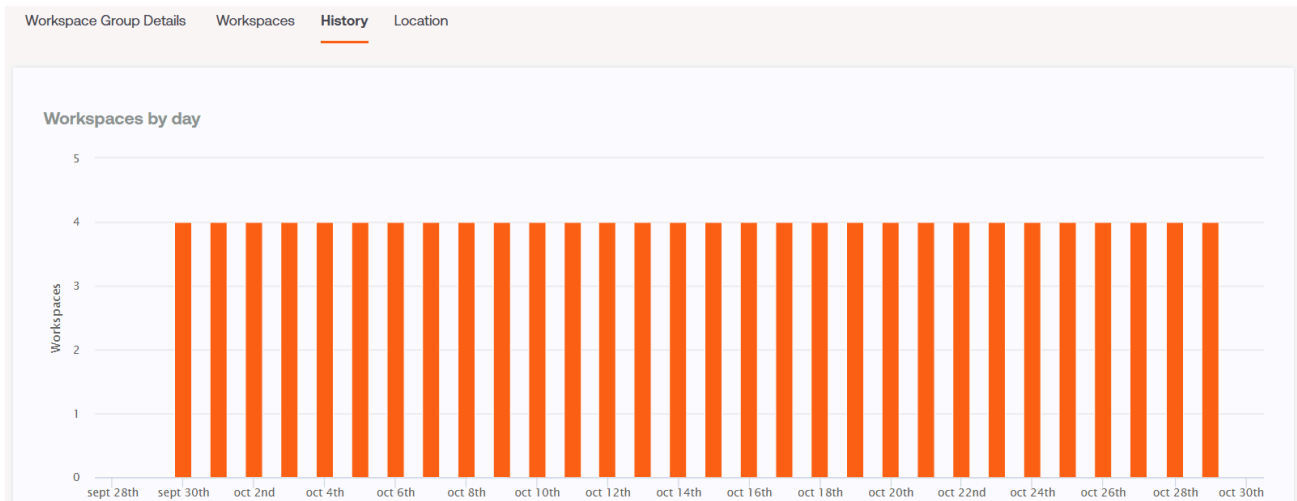
Workspaces

Shows a table with a list of the workspaces that make up that group. Provides information about the Fully Qualified Domain Name (FQDN) of the device, IP address, operating system, CPU cores, Random Access Memory (RAM), type (physical or virtual), and the last user. The options **Import Workspaces** and **Edit** are only available for static workspace groups.

History

Displays a bar chart with the daily amount of workspaces that have made up the group over the last month. You can zoom in on the chart for better reading by selecting the bars

you want to enlarge with the mouse. Using `Reset zoom`, the information returns to its original state.

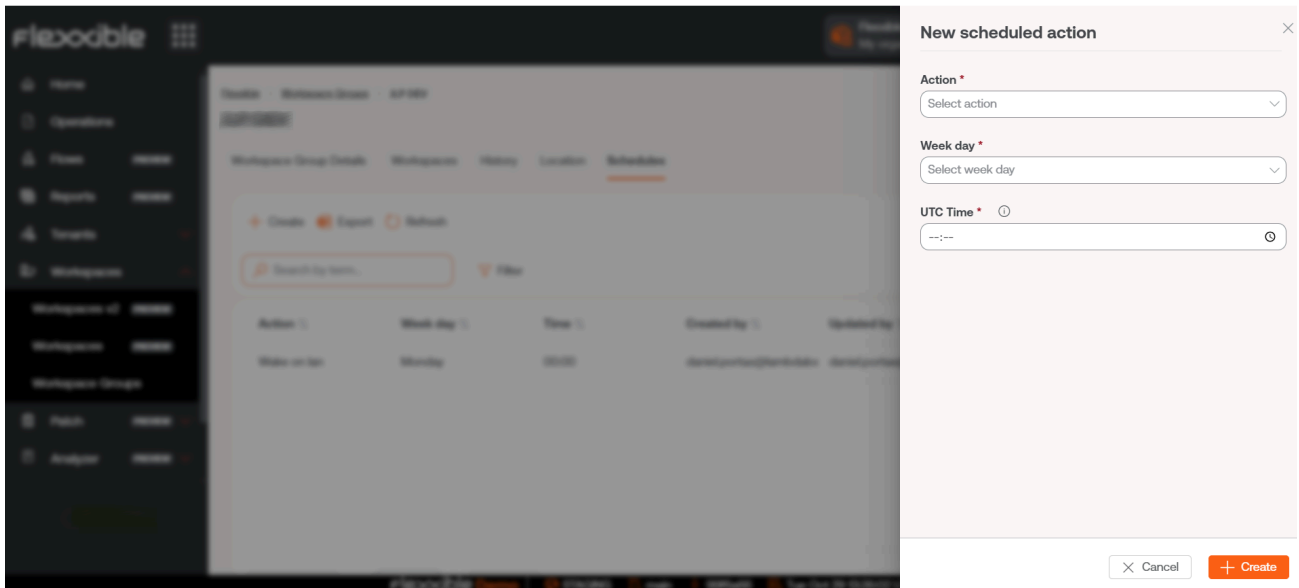


Location

Allows associating GPS coordinates with the workspace group to relate it to a point on the map. This value is just a reference, it does not update if users change location.

Schedule

From this tab, you can schedule the automatic power on (Wake On LAN) or power off of a workspace group. If the user wants to schedule one of these actions, they must click on the `New` button and fill in the form fields for `Action`, `Day of the week`, and `Time UTC`.



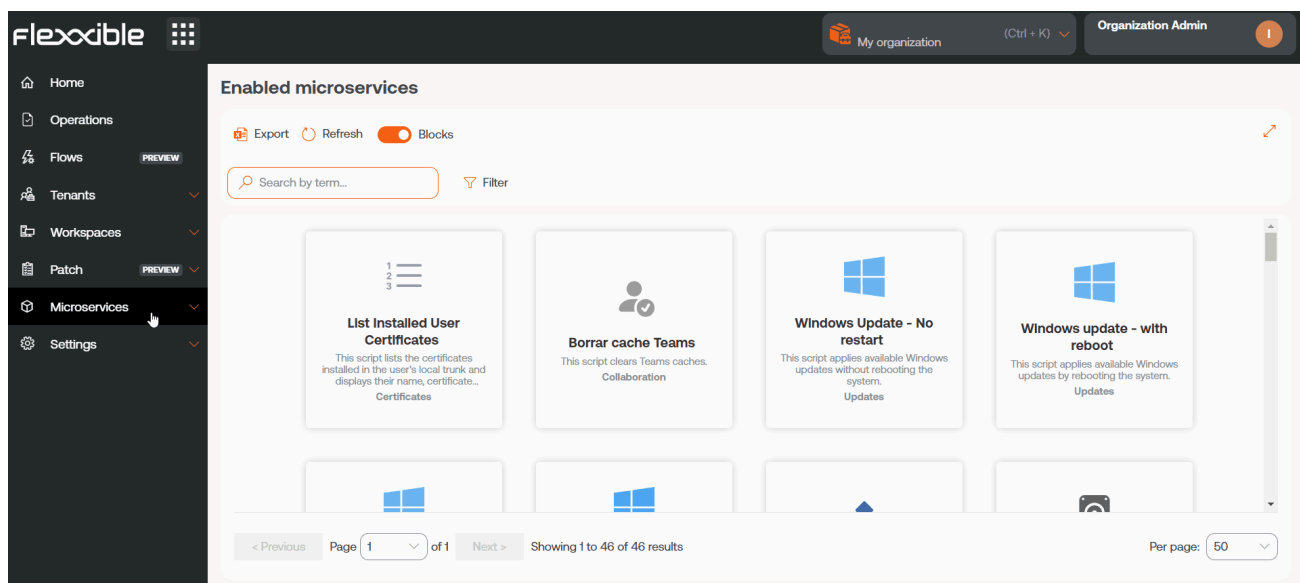
- **Action:** allows choosing between `Wake On LAN` or `Power off`.
- **Day of the week:** allows choosing which day of the week the action will be performed.
- **Time UTC:** allows specifying the exact time to start the action. The time must be specified in UTC.

The created action will then be displayed in a table, with columns showing the information entered in the form, as well as which user created the action and who updated the schedule and when. From `View details` you can edit and delete the scheduled action.

Portal / Microservices

Through **Microservices**, scripts can be created, packaged, and published so that the technical teams of the organization can easily execute them. This also allows initial support levels to delegate their execution, so that user requests can be efficiently handled and the most frequent problems solved.

The created microservices can be executed on the devices themselves, with local administrator permissions or with user session permissions.



They can also be scheduled to run at the most opportune time. They even support event or alert triggers, which can be used as a self-remediation mechanism when a problem is detected.

Microservices management

Microservices have several configuration options that modify their behavior; for instance, it can change depending on whether the script runs from the user session or from the local administrator.

Activation in Portal

To activate a microservice and have it available for execution in Workspaces, go to **Marketplace** in **Microservices** of **Portal**. From there, after exploring and finding the microservice of interest, it can be enabled with the button located in the top right corner of the interface.

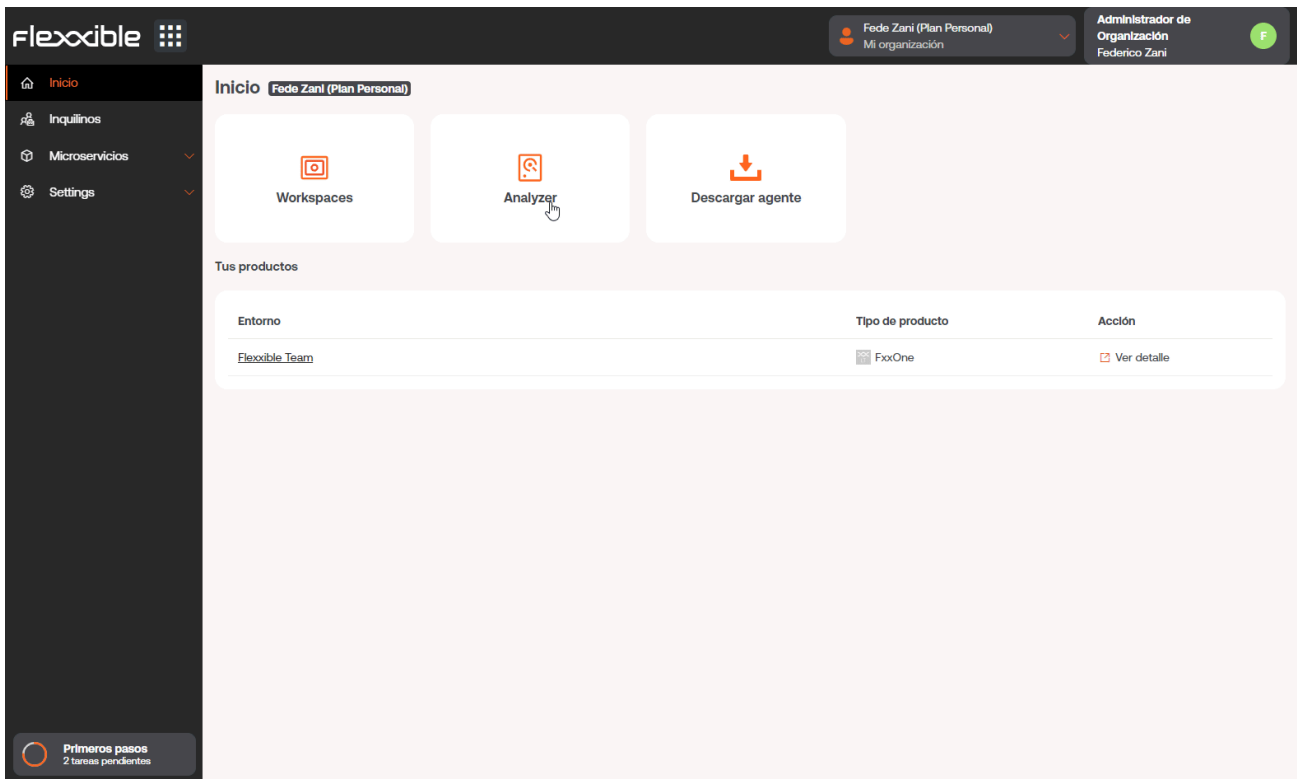
After a few seconds, the microservice will be visible in **Workspaces** and can be executed on the devices.

Microservice creation

To create a new microservice, go to the **Designer** section and click on **New**. The wizard will open, asking to enter the following information:

- Microservice name
- Icon color
- Microservice icon
- Brief description of what the microservice does
- The language it is developed in
- Version number
- Scope of execution, you can select at system level (administrative access) or session level (with user identity)
- Operating system it is designed for
- Category: directory or group of microservices accessible from Workspaces where this microservice will be hosted
- Time efficiency achieved with each execution

The **microservice name should not contain special characters** (such as \ / : * ? " < > and other specific language characters for certain keyboard layouts) if the microservice will be used as an end-user microservice.



States of the microservices

Microservices have three states:

- Enabled
- Disabled
- Archived

Considerations about the code to use

Although microservices allow the execution of any CMD or PowerShell command on Windows devices, the sent commands will be executed from the local administrator or the user session, depending on the assigned scope. This can mean that some cmdlets do not have the expected output in relation to the execution performed; therefore, if a script is being made in PowerShell, a series of considerations should be taken into account:

- It is recommended that the installed version of PowerShell on the devices is the same as the one used to develop the microservices.

- The microservices can be executed under the user session identity or from the local administrator.
 - Execution from the local administrator: in `Scope` you can configure `Applies to Workspaces` or `Applies to servers`, which makes it much easier to interact with processes, services, and act with administrative permissions on the device, but it can complicate accessing specific user or session information.
 - Execution from user session: in `Scope` you can configure `Applies to user sessions`, which is very useful for accessing user information such as the registry, information contained in the profile, etc. It should be noted that the script will be executed with the permission level that the user has, so if the user is not a local administrator, there will be certain limitations when acting at the system level.
- When we want to display a message in the microservice output, it is recommended to use the cmdlet "Write-Output" instead of "Write-Host".
- The output of the execution can be consulted in the details of the `Job` generated in the execution.

Ways to consume microservices

Microservices can be created and enabled in Portal, and from there be configured to be executed by the end-user, launched through a `Flow` or to be executed with automated or support actions from Workspaces.

End-user execution

In `Portal` -> `Enabled` by clicking on a microservice you access its characteristics. In the `Recipients` tab -> `Execution from Workspaces` the execution permissions of the microservice in Workspaces are shown. Next, in `Execution by the end user` you can see if the microservice has the option enabled to be executed by the end user, if so, it shows the name of the user and the number of devices where it is available.

The screenshot shows the Flexible FlexxDesktop interface. The top navigation bar includes the Flexible logo, a user profile dropdown for 'Organization Admin', and a search icon. The left sidebar contains navigation items: Home, Operations, Flows (PREVIEW), Tenants, Workspaces, Patch (PREVIEW), Microservices, Enabled, Marketplace, Designer, and Audit log. The main content area is titled 'Targets' and contains two sections:

FlexWorkspaces execution

	Allow to execute	Allow to execute (individually)
L3	✓	✓
L2	✓	✓
L1	✓	✓

An 'Edit' button is located at the bottom right of this section.

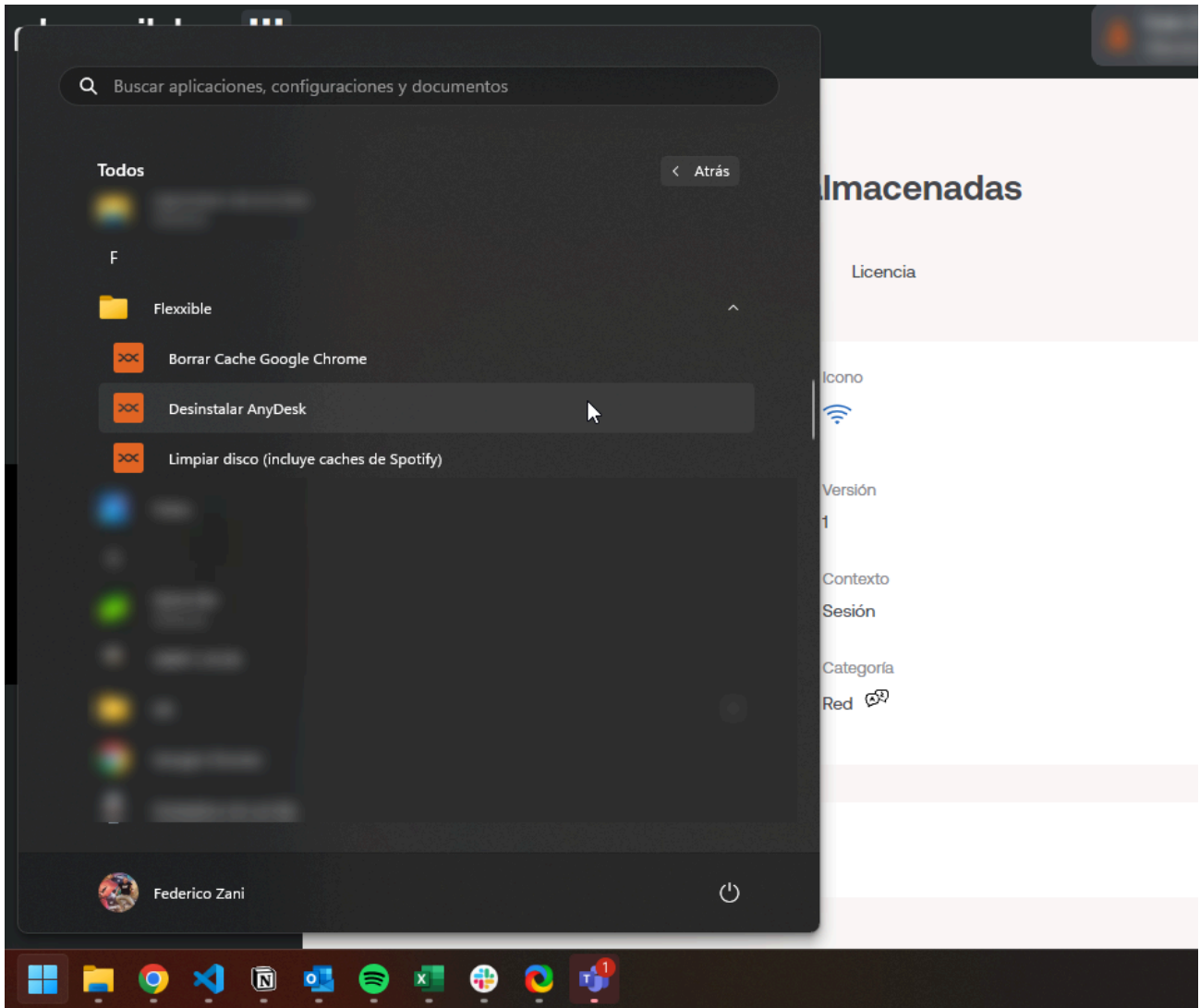
End-user execution

End-user execution
Disabled

An 'Edit' button is located at the bottom right of this section.

If the option `Execution by the end user` is activated, the microservice will add a button on the user's device home screen, so that it can be executed in a quicker and more direct way.

The microservice name should not contain special characters (such as \ / : * ? " < > and other specific language characters for certain keyboard layouts) if the microservice will be used as an end-user microservice.



A configuration change to an existing end-user microservice can take up to 15 minutes to apply to all linked devices.

Execution through a flow

Flows is a feature that can be configured in Portal. It allows creating automation flows and executing a microservice automatically when certain conditions are met on the device.

Its main feature is that, through the execution of a microservice, it simplifies proactive diagnostic actions and quickly solves problems when there is a focus on their detection. In the [Flows](#) section, you can get more information about its features and configuration.

Execution from Workspaces

From the Workspaces module, any microservice that has been previously enabled in Portal can be executed. To do this, the user must go to the **Workspaces** or **Sessions** tab and select the device(s) they want to apply the microservice to.

Microservices will be available from the **Workspaces** tab when they have been previously configured to run at the system level. And from **Sessions** when in their configuration the option to run at session level has been selected.

The ability to execute certain microservices will depend on the role or permissions the user has on the platform.

The screenshot shows the FlexxWORKSPACES interface. The top navigation bar includes the logo, a search icon, and a 'Log Off' button. The main content area is titled 'Workspace' and features a search bar, a refresh button, and an 'Operations' dropdown menu. Below the search bar, there is a yellow alert banner: 'Active alerts: - [Warning] Workspace with Plug and Play errors: Workspace with 2 Plug and play errors'. The 'General' section contains a table with the following data:

Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent ID
	On	On	24.9.1.3	Working	07...

Below the table, there are sections for 'Connection' (Ethernet) and 'Sessions' (1). The 'Operations' dropdown menu is open, showing a list of microservices: AVD, Browsers, Certificates, Cleaning, Connectivity, CustomFields, Intune, Java, Mail, Office, Printers, SCCM, and System. The 'Java' option is selected, and a 'Delete Java Caches' button is visible.

Microservices in Automate

It is also possible to execute a microservice from the Automate module. In this case, users do not have to go to the Home screen of their device to be able to activate it; they can do it from the Service Catalog, a space that acts as a self-service panel for the user to choose the microservice they want to execute.

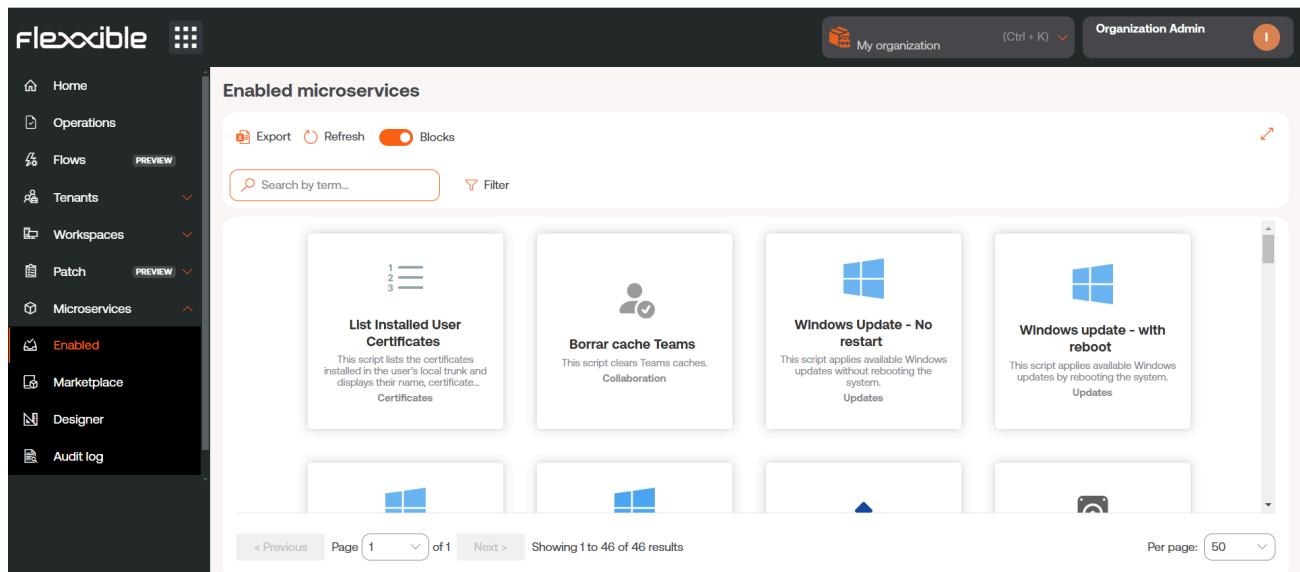
The screenshot displays the Flexible Service Catalog interface. At the top, the Flexible logo is on the left, and navigation links for 'Service Catalog', 'My Requested Items', and 'Knowledge' are on the right. Below the header, there is a breadcrumb trail: 'Home > Servicio para clientes > All Categories'. A search bar is positioned to the right of the breadcrumbs. The main content area features a large banner image of two men in a meeting. Below the banner, there is a 'Categories' sidebar on the left with options for 'FlexxClient', 'FlexxDesktop', and 'Support'. The main area is titled 'Popular Items' and contains a grid of six service cards, each with a title, description, icon, and a 'View Details' link. The cards are: 'Create a Customer Case' (description: 'Create Cases for an account, a consumer, a business location, or for yourself'), 'Clear Cache MS Edge' (description: 'Clear Cache MS Edge'), 'Reset user profile' (description: 'Reset a user's profile'), 'Clear Cache Chrome' (description: 'Clear Cache Chrome'), 'Install CrowdStrike' (description: 'Install CrowdStrike'), and 'Execute FlushDNS over Device' (description: 'Execute FlushDNS over Device').

Executing a microservice from Automate has two advantages:

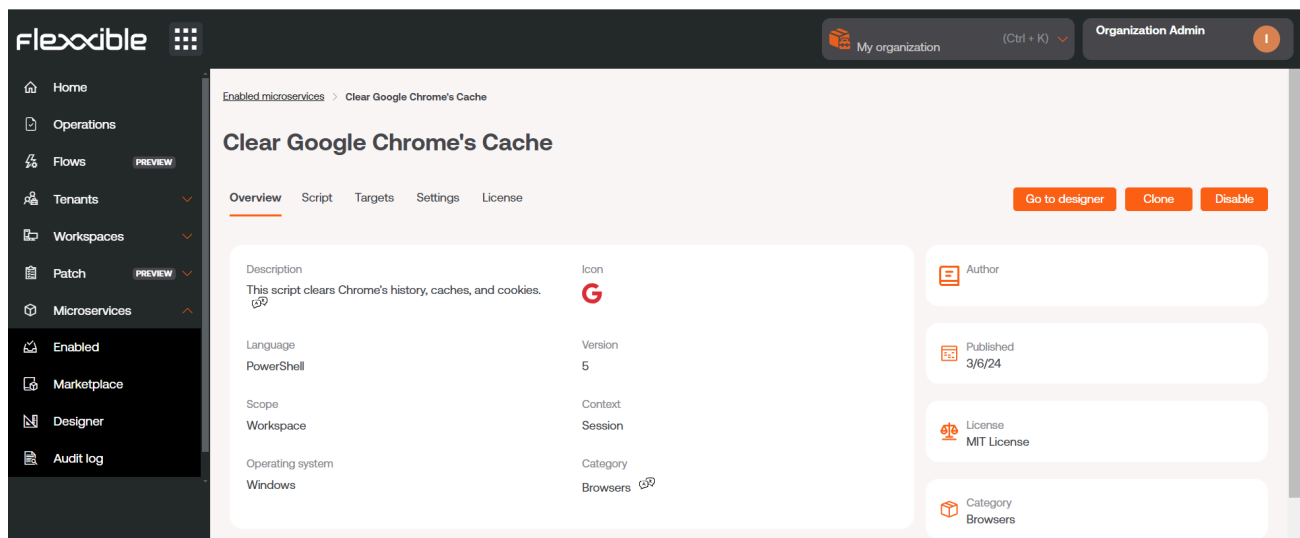
- It allows the creation of parameters: certain microservices can have different selectable values, where the user can decide the type of information they want to obtain when activating the microservice. It also has the option to enter the value of a variable to customize the execution.
- They can go through an approval flow: when it comes to running microservices that can have significant implications, such as economic or security, they will require going through an approval process within their own organization and by Flexible.

Portal / Microservices / Enabled

Enabled shows a list of the microservices that are activated for the selected organization, they can be viewed in block form or table form.



By clicking on the name of the microservice you can see specific information about it, such as the author, creation date, type of license and efficiency, which is the estimated time the user will save when running the script. It is also possible to access the code, with the possibility to clone it and even edit it.



Another way to access the list of enabled microservices is from the [Marketplace](#) section (in block view), where each microservice will show its status: a green dot if it is

enabled and a grey one if it is not.

Enabling a microservice makes it visible and opens the possibility for it to be executed from the Workspaces module, either from the **Workspaces** tab (system context) or from the **Sessions** tab (session context), depending on how the microservice has been configured in Portal.

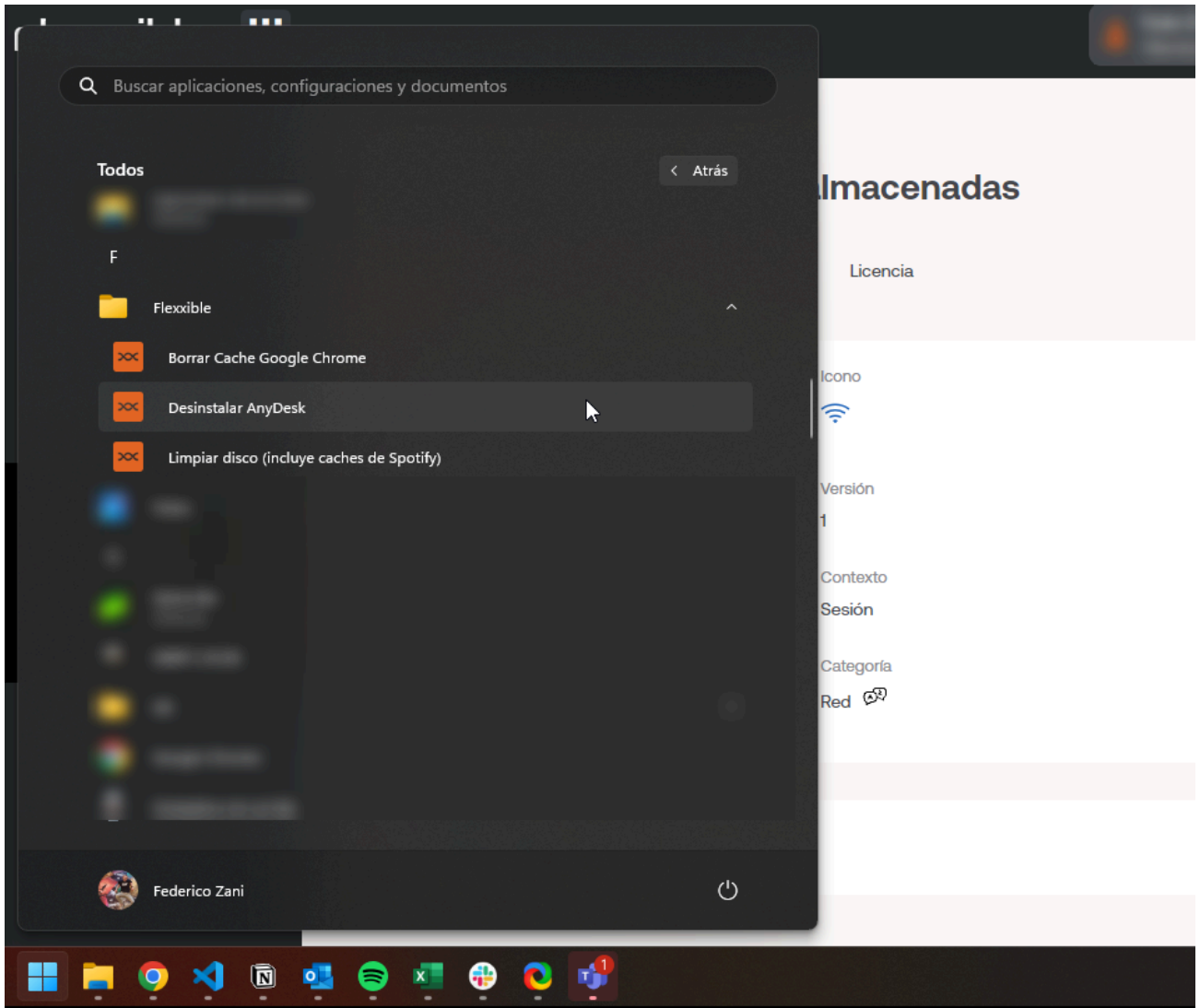
End-user execution

When a microservice is enabled, the user has the option to add a button for that microservice on their device's Home screen. To do this, you have to enable the **End user execution** option from **Recipients**, once you have selected the microservice you want to manage.

The screenshot displays the Flexible portal interface. The top navigation bar includes the Flexible logo, a user profile for 'My organization' (Organization Admin), and a search icon. The left sidebar lists various modules: Home, Operations, Flows (PREVIEW), Tenants, Workspaces, Patch (PREVIEW), Microservices, Enabled, Marketplace, Designer, and Audit log. The main content area is titled 'FlexxWorkspaces execution' and contains a table with two columns: 'Allow to execute' and 'Allow to execute (individually)'. The table lists three levels: L3, L2, and L1, all with green checkmarks in both columns. An 'Edit' button is located at the bottom right of the table. Below the table, there is a section for 'End-user execution' which shows the option is currently 'Disabled'. An 'Edit' button is also present at the bottom right of this section.

	Allow to execute	Allow to execute (individually)
L3	✓	✓
L2	✓	✓
L1	✓	✓

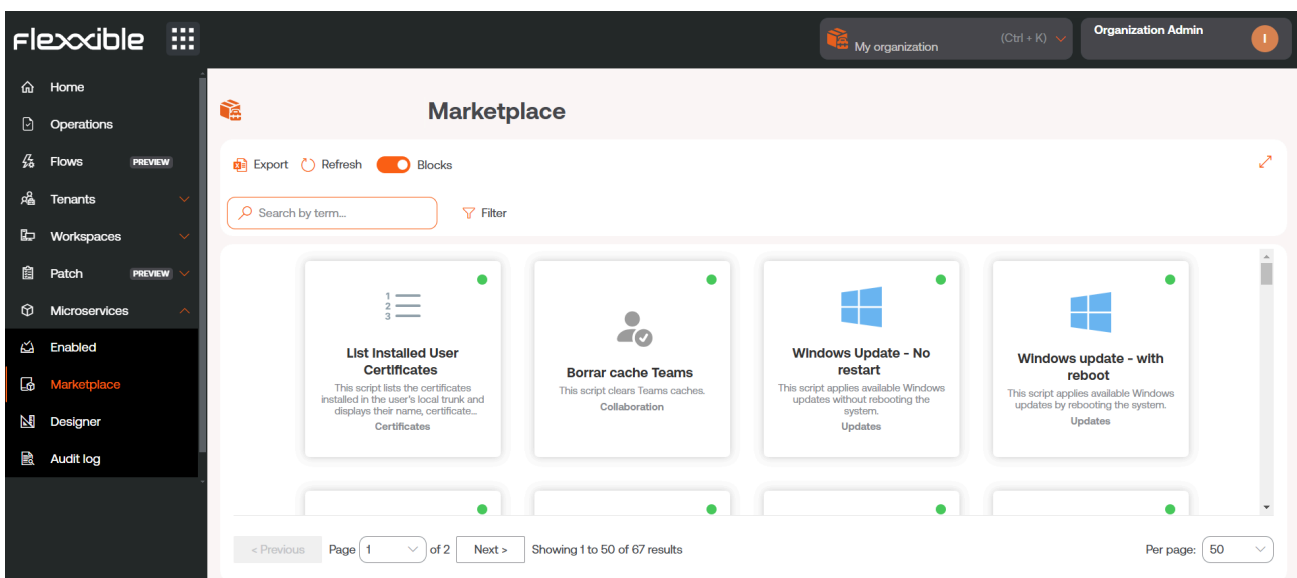
End-user execution
Disabled



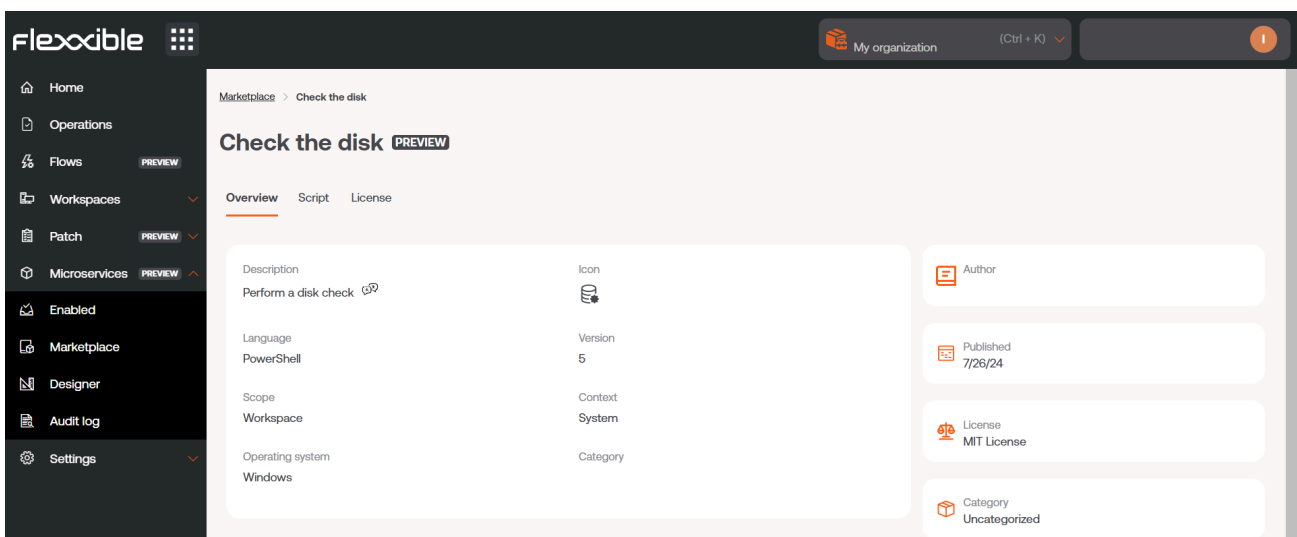
Portal / Microservices / Marketplace

Marketplace offers a great number of microservices that can be used without deep computer knowledge, as they are ready to be enabled and executed instantly.

The overview of `Marketplace` shows microservices in block or table format. In both cases, a green or gray dot is shown next to the microservices. If it's green, it means the microservice is enabled and can be run directly from the `Workspaces` module. And if it's gray, it means it is pending to be enabled.



To enable a microservice, just select the desired microservice and click the `Enable` button.



To run a `Marketplace` microservice, it must be done from the Workspaces module.

flexxWORKSPACES Flexible Team ▼ fzani@flexxible.com Cerrar sesión

Workspaces Mis filtros ▼

Operaciones ▼

Plataformas	Máquina ↑	Tenant del GR	Estado	Último usuario	Sesiones	CPU	% de RAM	Tiempo activo	Código	Estado	Conexión
	DESKTOP-NCLOVHL	Flexible Team	Sin reportar	DESKTOP-NCLOVH\LEKO	0	0 %	0 %		Bigote	●	⋮
	DESKTOP-OM7GPTN	Flexible Team	Sin reportar	DESKTOP-OM7GPTN\Mabel	0	0 %	0 %			●	⋮
	FLX-02-001-037.ad.flexxible.com	Flexible Team	Encendido	FLEXIBLE\Fzani	1	4 %	52 %	7h 42m		●	
	ideapad	Flexible Team	Sin reportar	IDEAPAD\luzma	0	0 %	0 %			●	⋮
	Raven	Flexible Team	Sin reportar	RAVEN\Fede	0	0 %	0 %			●	⋮
	v15g2	Flexible Team	Sin reportar	V15G2\yami	0	0 %	0 %			●	⋮

Count=6 Page size:

Portal / Microservices / Designer

Designer allows access to all information related to existing microservices, such as the author, script, execution dates, problem it solves, or type of license; but above all, it allows creating new microservices.

Microservice creation

To create a new microservice, from the overview view, click on **New**. The wizard will open, asking to enter the following information:

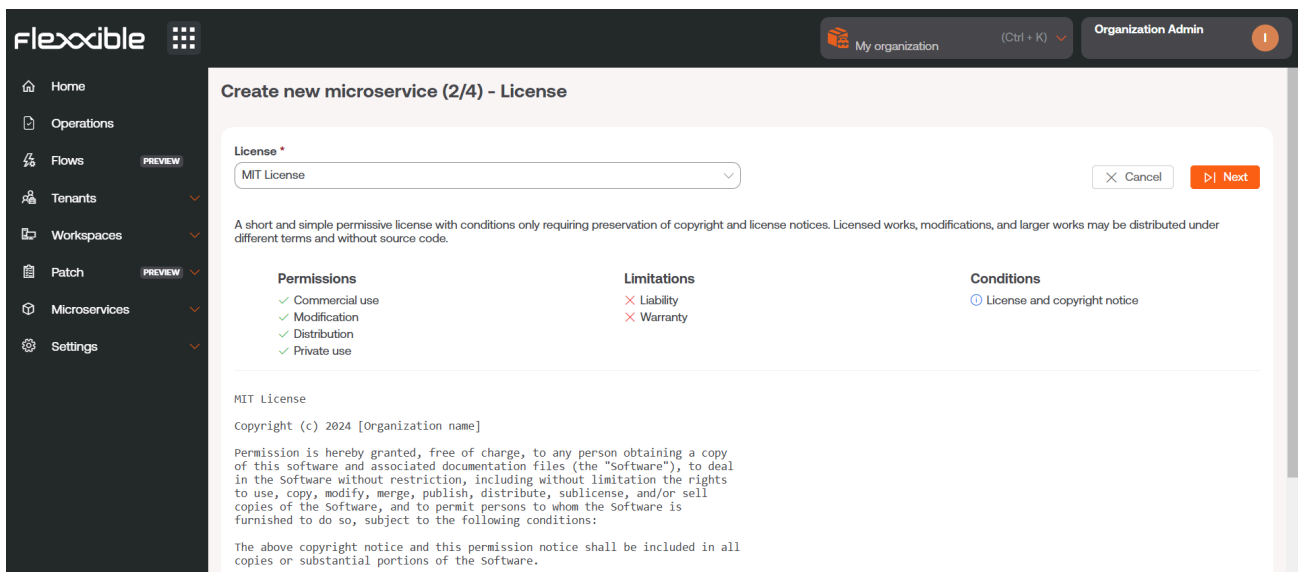
The screenshot shows the 'Create new microservice (1/4)' form in the Flexible Designer. The form is divided into several sections with input fields and dropdown menus. The fields are:

- Name (english)**: Enter the name of the microservice (english). Includes a 'Show languages' button.
- Library**: A dropdown menu currently showing 'Flexible Corp'.
- Colour**: Select the color of the microservice icon.
- Icon**: Select the icon of the microservice.
- Description (english)**: Enter the description of the microservice (english). Includes a 'Show languages' button.
- Language ***: Enter the language of the microservice.
- Version**: A text input field containing '1'.
- Scope ***: Enter the scope of the microservice.
- Context (for Workspace scope)**: A dropdown menu.
- Operating system ***: Enter the operating system of the microservice.
- Category (english)**: Enter the category of the microservice (english). Includes a 'Show languages' button.
- Efficiency ***: Enter the number of minutes that the microservice saves.

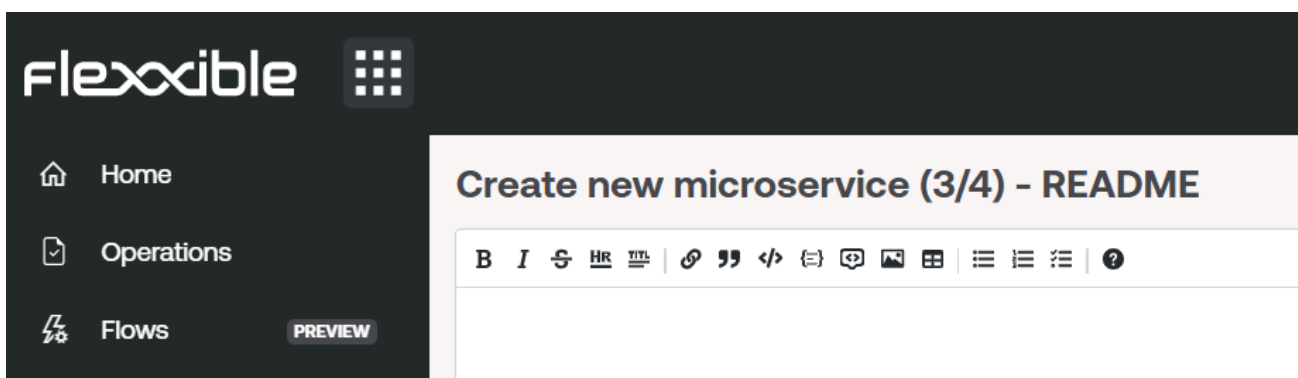
- Microservice name
- Icon color
- Microservice icon
- Brief description of what the microservice does
- The language it is developed in
- Version number
- Scope of execution, you can select at system level (administrative access) or session level (with user identity)
- Operating system for which it is designed.


- Category: directory or group of microservices accessible from Workspaces where this microservice will be hosted
- Time efficiency achieved with each execution




Microservices are created in four steps. Once the above fields are filled in, the application will request, as the second step, to specify the type of license it will have.



As the third and fourth steps, the application will request to insert a more thorough description of the microservice: a README. And, finally, the script.



flexxible 

-  Home
-  Operations
-  Flows PREVIEW

Create new microservice (4/4) - Script

1	<input type="text"/>
---	----------------------

Portal / Microservices / Audit Log

The audit log allows tracking the use of microservices, showing the most recent log of the start and end times of the selected microservice execution.

The screenshot shows the Flexxible interface with the 'Audit log' section selected. The main content area displays details for the microservice 'Clear Google Chrome's Cache Updated'. The interface includes a sidebar with navigation options like Home, Operations, Flows, Tenants, Workspaces, Patch, Microservices, and Settings. The top right shows the user's organization and role as 'Organization Admin'.

Microservice	Type
Clear Google Chrome's Cache	Updated
Status	Success
Report start time	Report end time
10/28/24, 5:10:59 PM	10/28/24, 5:10:59 PM
Execution start time	Execution end time
10/28/24, 5:10:59 PM	10/28/24, 5:10:59 PM

Additional information on the right side of the interface includes:

- Logged at: 10/28/24, 5:10:59 PM
- Initiated by: [User Icon]

From the overview, you can also consult the rest of the information related to the microservice, such as its status, the script author, and the creation date.

The screenshot shows the Flexxible interface with the 'Audit log' section selected. The main content area displays a list of microservices with columns for Microservice, Type, Status, Initiated by, Logged at, and Actions. The interface includes a sidebar with navigation options like Home, Operations, Flows, Tenants, Workspaces, Patch, Microservices, Enabled, Marketplace, Designer, and Audit log. The top right shows the user's organization and role as 'Organization Admin'.

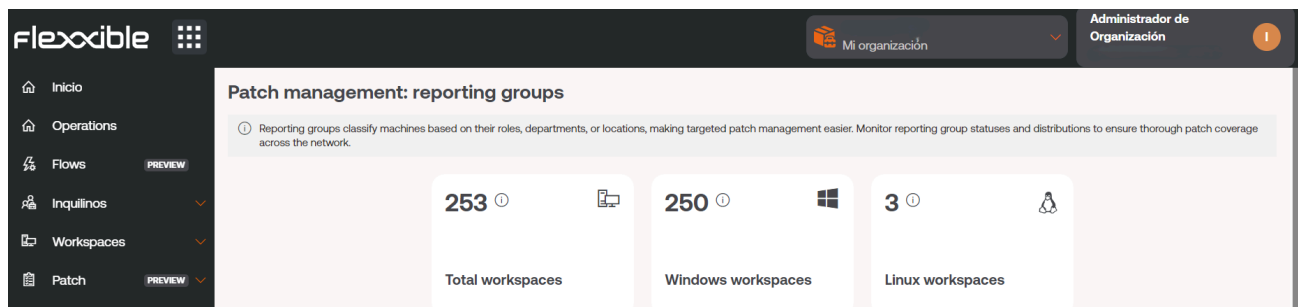
Microservice	Type	Status	Initiated by	Logged at	Actions
Listar redes Wifi available	Activated	Success		11/3/24, 12:58:41 PM	View Detail
Flush & register DNS	Activated	Success		11/3/24, 12:58:11 PM	View Detail
List Installed User Certificates	Activated	Success		11/3/24, 12:57:45 PM	View Detail
Windows Update - No restart	Activated	Success		10/31/24, 12:42:14 PM	View Detail
Clean Disk	Activated	Success		10/31/24, 10:55:53 A...	View Detail
Get Sessions	Archived	Success		10/30/24, 11:146 PM	View Detail
Get Sessions	Deactivated	Success		10/30/24, 11:0:53 PM	View Detail

At the bottom of the list, there is a pagination control showing 'Page 1 of 7' and 'Showing 1 to 50 of 301 results'. The 'Per page' dropdown is set to 50.

Portal / Updates

Patch management is the practice of deploying operating system updates, firmware, drivers, and applications on computing terminals. It is essential for keeping systems updated and secure, as it significantly reduces the potential for an attack.

By applying patches, known vulnerabilities are closed, minimizing the risk of security breaches that could compromise sensitive data and technological integrity.



Considerations on Patch Management

Besides security, patch management ensures the stability and optimal performance of operating systems and applications. Updates also fix bugs, resulting in a smoother and more productive work environment. This translates to fewer interruptions and an overall increase in organizational efficiency.

Many regulations require organizations to keep their systems updated to protect against threats; in this sense, patch management facilitates regulatory compliance and contributes to business continuity.

Portal includes among its functionalities the ability to create policies for the automated application of patches, based on predefined approval criteria, type, or criticality.

Portal / Updates / Summary

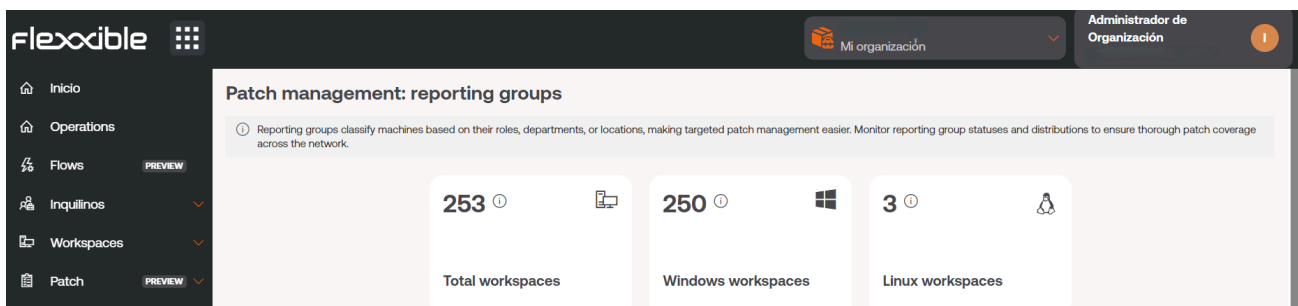
Summary offers a dashboard-type view of the patch application status in the organization. This dashboard is divided into two sections: **Targets** and **Workspaces**, which allow evaluating the progress of patch policy application, as well as the percentage of devices included in them.

On one hand, the **Targets** section shows information on reporting groups without a defined target, which helps to provide visibility of device groups without an established patch policy. The dashboard also provides visibility on targets without an associated schedule. The **Workspaces** graph shows information about devices without an assigned reporting group and with no pending patches with respect to the total.

Portal / Updates / Reporting groups in patch management

Reporting groups classify devices according to their functions and organizations they belong to, making patch management easier. Using reporting groups in patch management ensures coverage across the entire network.

The box `Update Management: Reporting groups` shows the total number of devices that are part of the current organization, divided according to their operating system.



Reporting groups at risk

A reporting group is considered at risk if the Target assigned to it does not comply with an adequate patch policy.

In the image below, the first chart would show the reporting groups at risk due to missing patches (in the image, none); and the second chart details the total devices by reporting groups.

The screenshot displays the Flexible Administrator de Organización interface. On the left is a dark sidebar with navigation items: Inicio, Operations, Flows (PREVIEW), Inquilinos, Workspaces, Patch (PREVIEW), Microservicios (PREVIEW), and Settings. The main content area has a top navigation bar with 'Total workspaces', 'Windows workspaces', and 'Linux workspaces'. Below this, there are two main panels. The left panel, titled 'Reporting groups at risk', contains a warning message: 'A reporting group is considered at risk if it is targeted by a patch policy that includes important or critical patches that have yet to be approved.' Below the message is a legend with a blue dot and the text 'Number of important or critical patches not approved'. The right panel, titled 'Total workspaces by reporting group', features a pie chart. The legend for the pie chart includes: Presales Team (blue), Intune Devices (black), FlexxClient (green), and FlexxDesktop Edge (orange). The pie chart shows FlexxDesktop Edge as the largest segment (orange), followed by FlexxClient (green), and Presales Team (blue). Intune Devices (black) is listed in the legend but has no visible segment in the chart.

Portal / Updates / Recipients

Recipients allows defining the group of devices that will be subject to the patch policy, through reporting groups, as well as the configuration of additional options, such as restarting the device after applying a patch, scheduling, or simultaneous patching.

Settings

Recipients have two configuration scopes:

Details: Provides information about the patch name, creation date, user who created it, and the reporting groups assigned to it. From the **Edit** option, you can configure the target policy:

- **Reporting groups:** Allows you to add the Target to one or multiple reporting groups.
- **Restart after patching:** Allows the device to automatically restart when patch installation is complete.

The screenshot displays the Flexxible web interface for configuring a patch policy. The left sidebar contains navigation links for Home, Operations, Flows, Tenants, Workspaces, Patch, Microservices, and Settings. The main area shows the configuration for a patch policy named 'Patch_PP'. The 'Details' tab is active, showing fields for Name (Patch_PP), Reporting Groups (1), Restart after patching (No), and Wake on LAN (No). An 'Edit' button is located at the bottom right of the details section. To the right, there are two informational cards: 'Creation date' (8/6/24) and 'Created by'. Below the details, the 'Reporting Groups' section shows a table with one entry: 'Presales Team'.

Schedules: Allows you to define the schedule and time zone in which the patches will be applied, as well as the recurrence and time interval, customizable by day.

flexible

My organization

User

Targets > Patch_PP

Patch_PP

Details Schedules

Recurrence: No weeks

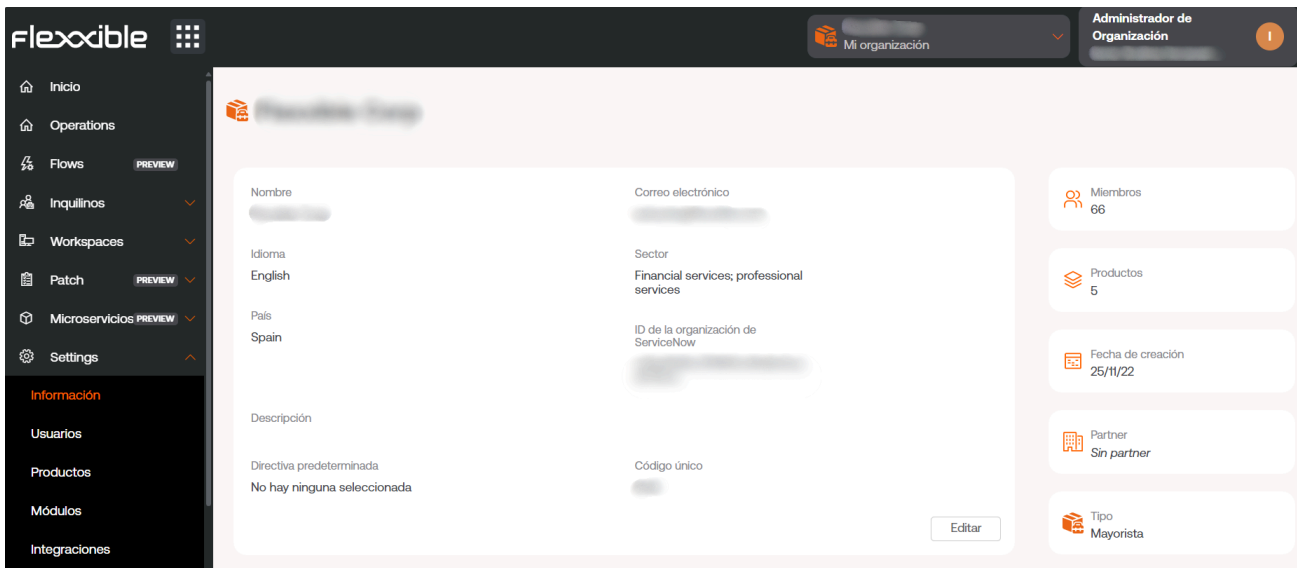
Time zone: (UTC) Coordinated Universal Time

Edit

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h
Sunday																
Monday																
Tuesday																
Wednesday																
Thursday																
Friday																
Saturday																

Portal / Settings

From [Settings](#), you can access different configuration elements of the selected organization.



From there, you can manage:

- [Information](#)
- [Users](#)
- [Products](#)
- [Modules](#)
- [Integrations](#)
- [Reporting Groups](#)

Information

It allows you to see the general information of the selected organization: the number of members it comprises, the contracted products, email, the type of company, and more corporate data.

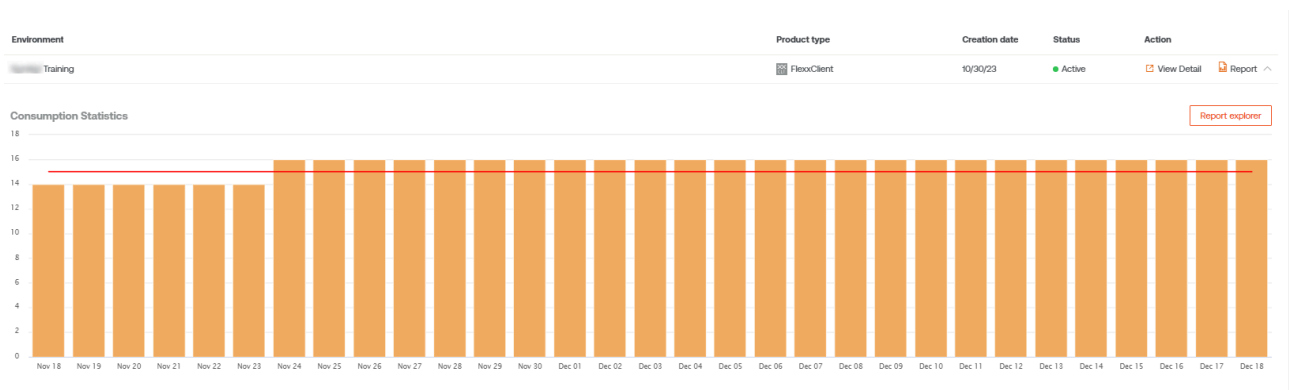
Users

From there, you can manage the users of an organization and, if applicable, those who depend on it. With the necessary permissions, you can create and modify users, assign them roles, and access levels to Flexible modules.

More information about user management in [User Management](#).

Products

From the [Products](#) option, you can check the license consumption details by environment.



This section provides information about the contracted products and their associated license keys.

Modules

In [Modules](#), the active modules in Portal are displayed, and shortcuts can be created to other tools easily; this way, the work of the support technicians is facilitated.

Flexible - Modules

Search for module...

All Featured Secondary + Create

Name	URL	Visibility	Action
Workspaces	https://west-eu-01.one.workspaces.flexible.c	Featured	View Detail
Analyzer	https://west-eu-01.one.analyzer.flexible.com/	Featured	View Detail

Integrations

You can view the integrations made through the Portal API.

Flexible - Integrations

Api Keys

All Active Inactive + Create

Status	Key ID	Role permissions	Created by	Creation date	Last use date	Expiration date
Inactive	66337524d46eb431c4ae8121	User	Fede Zani	5/2/24		5/2/25
Active	6614028101d621f9365ba10a	Organization Admin	Sebastian Prat	4/8/24	5/2/24	4/8/25
Active	65e82bf56fa0cbc58cd3a552	Organization Admin	Sebastian Prat	3/6/24	4/23/24	3/6/25
Active	65e738211c5a051fd2ff5f24		PLATFORM User	3/5/24	5/2/24	3/5/25
Active	65e72d213efbda168c1c451f	Organization Admin	Jesús Sánchez	3/5/24	4/8/24	3/5/25
Inactive	65e72d083efbda168c1c451e	Organization Admin	Jesús Sánchez	3/5/24		3/5/25

Entra ID

Client ID: _____ Client Secret: _____

<https://one.flexible.com/organization/64394bee52fc0c0511f7862/integrations>

And it's possible to create new keys for the integration.

Remember that the key will only be visible during the creation of keys.

From here, you can also revoke active API accesses.

Reporting Groups

The screenshot displays the 'Grupos de reporte' (Reporting Groups) page in the Flexxible administration interface. The page features a dark sidebar with navigation options: Inicio, Inquilinos, Microservicios, Settings, Información, Usuarios, Productos, Módulos, Integraciones, and Grupos de reporte (highlighted). The main content area shows a table with the following data:

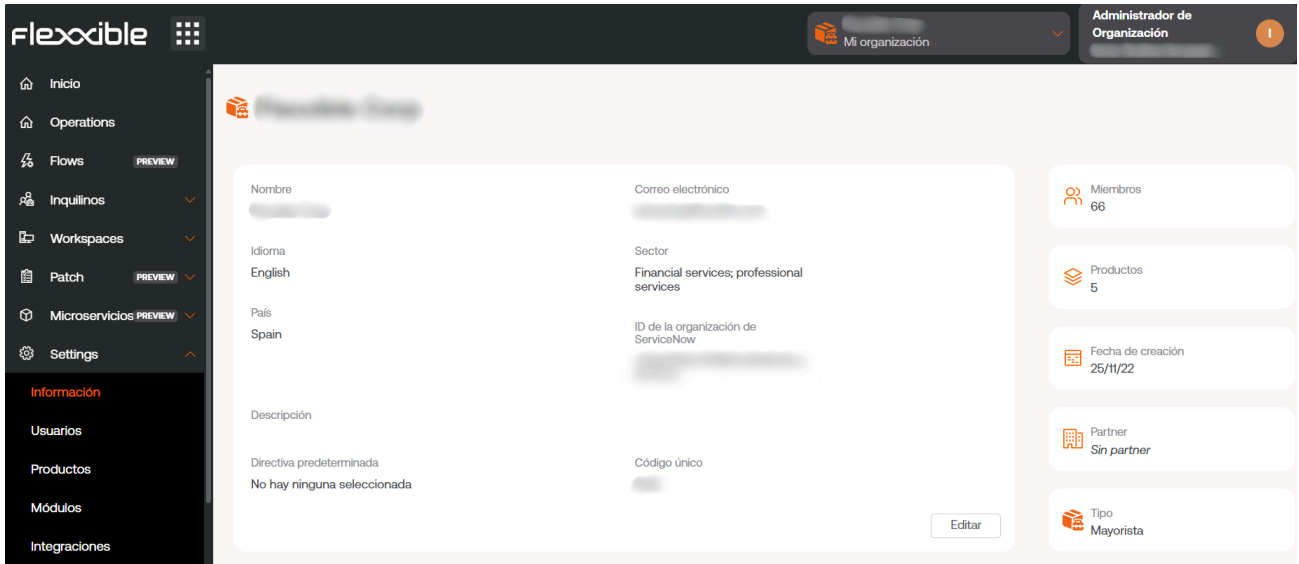
Nombre	Asistencia remota	Usuarios con acceso	Acción
Oficina Barcelona	Interactiva y desaten	[Redacted]	Ver detalle Descargar agente

A '+ Nuevo' button is located in the top right corner of the table area.

In **Report Groups** it's possible to preconfigure FlexxAgent groups, so they can contain devices from different locations, user groups, or other criteria. It also allows you to enable remote assistance features, as well as set permissions for users to view and manage devices in Workspaces.

Portal / Settings / Information

This section provides specific data about the organization, such as name, reference email address, industry they belong to, and a description of the company. Additionally, on the right side of the screen, more quantitative data can be observed, such as the number of members composing it and the number of products they have contracted.



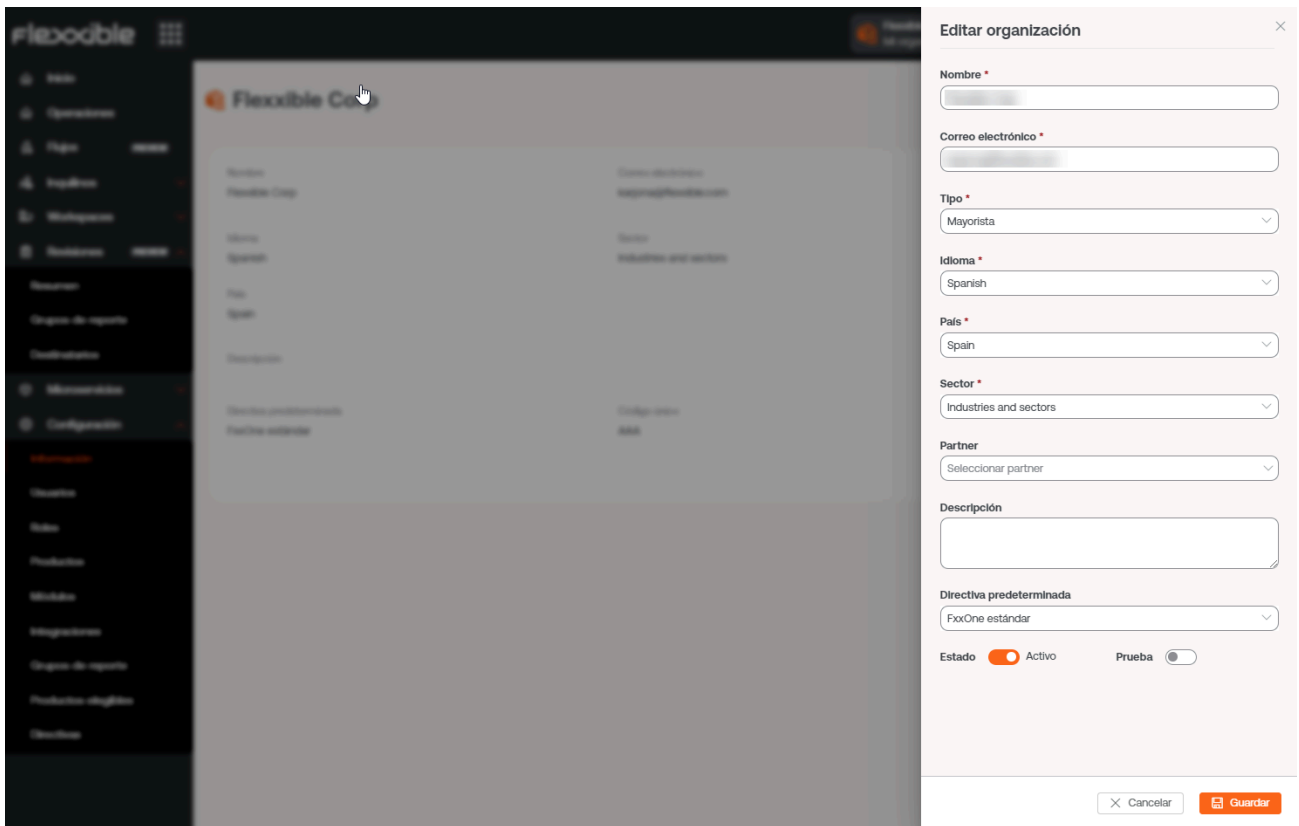
The screenshot displays the 'Administrador de Organización' interface. On the left, a dark sidebar contains navigation options: Inicio, Operations, Flows (PREVIEW), Inquilinos, Workspaces, Patch (PREVIEW), Microservicios (PREVIEW), and Settings. Below these are sections for Información, Usuarios, Productos, Módulos, and Integraciones. The main content area shows organization details in a table-like format:

Nombre	Correo electrónico
Idioma	Sector
English	Financial services, professional services
País	ID de la organización de ServiceNow
Spain	
Descripción	
Directiva predeterminada	Código único
No hay ninguna seleccionada	

An 'Editar' button is located at the bottom right of the main content area. On the right side, a vertical list of statistics is shown:

- Miembros: 66
- Productos: 5
- Fecha de creación: 25/11/22
- Partner: Sin partner
- Tipo: Mayorista

The **Edit** button allows you to modify the information of the organization and even its type.



Fields that can be modified:

- Organization name
- Email Address associated with this
- Type: defines the type of organization. It allows, for example, to establish the belonging of multiple **Client** type organizations to a **Partner** type organization (service provider).
- Language: allows configuring a language from the available options.
 - Spanish
 - Catalan
 - Basque
 - English
 - Brazilian Portuguese
- Country: allows defining the organization's country.
- Industry: allows defining the organization's industry.
- Partner: for **Client** type organizations, it allows defining or modifying the partner.
- Description: allows including a descriptive text.

- Policy: allows applying a policy.
- Status: allows activating or deactivating the organization.
- Trial: allows including the organization's subscription in the trial period.

Portal / Settings / Users

From the side menu, in **Settings** -> **Users**, users of an organization can be managed.

This section allows you to view, modify, or create users, as well as assign them a role and set a language for console use.

Flexible Corp - Usuarios

+ Nuevo ↑ Importar usuarios Exportar usuarios Recargar tabla

Buscar por término... **Filtrar**

Nombre completo	Correo electrónico	Departamento	Rol	Acción
[Redacted]	[Redacted]	[Redacted]	Custom Role 13	Ver detalle
[Redacted]	[Redacted]	[Redacted]	Custom Admin Role 6	Ver detalle
[Redacted]	[Redacted]	[Redacted]	Custom Role 14	Ver detalle
[Redacted]	[Redacted]	[Redacted]	Admins	Ver detalle
[Redacted]	[Redacted]	[Redacted]	Admins	Ver detalle
[Redacted]	[Redacted]	[Redacted]	Custom Admin Role 15	Ver detalle

< Anterior Página 1 de 1 Siguiente > Mostrando 1 a 27 de 27 resultados Por página: 50

Create users

In the list view, the **New** button will open a window with a form to fill in the fields with the information of a new user. In addition to the name, surname, and email, you must assign a user role with which they can access the Portal; as well as the language they will use the console in and the department they belong to within the organization.

The screenshot shows the 'Flexible Corp - Usuarios' interface. On the left, there is a table with columns for 'Nombre completo', 'Correo electrónico', and 'Departamento'. The table contains several rows of user data. On the right, a modal window titled 'Nuevo usuario' is open, containing the following fields:

- Nombre ***: Text input field with placeholder 'Por favor introduce el texto aquí'.
- Apellido ***: Text input field with placeholder 'Por favor introduce el texto aquí'.
- Correo electrónico ***: Text input field with placeholder 'Por favor introduce el texto aquí'.
- Rol de usuario ***: Dropdown menu with 'Seleccionar rol de usuario'.
- Idioma ***: Dropdown menu with 'Seleccionar idioma'.
- Departamento**: Text input field with placeholder 'Por favor introduce el texto aquí'.

At the bottom of the modal, there are two buttons: 'Cancelar' (with a close icon) and 'Nuevo' (with a plus icon).

User export and import

The list view presents a table with all users created for that organization. Each row shows, in addition to the main user data, the [View details](#) button, from where it is possible to edit the user data and even delete them, depending on the role assigned on the platform.

To export the user list seen in the list view, just press [Export users](#). This action will download an Excel file with the list of organization users and their respective data.

If you want to add multiple users at once, then you should click [Import users](#). This action allows you to select a file from the device. If you are looking to perform a mass import, Flexible recommends first exporting to obtain the Excel file with the appropriate format. From there you only need to complete it with the required changes, and finally import it.

The screenshot shows the user management toolbar. It contains the following elements:

- + Nuevo**: Button with a plus icon.
- ↑ Importar usuarios**: Button with an upward arrow icon.
- 📄 Exportar usuarios**: Button with a document icon.
- 🔄 Recargar tabla**: Button with a refresh icon.
- Buscar por término...**: Search input field.
- 🔍 Filtrar**: Filter button with a funnel icon.

Additional options

The options menu in the list view also allows `Reload table`, a performance-enhancing option that is very useful when you want to update the user list, especially when new ones have been created or imported from an Excel file.

The `Search by term` field allows more precise searches, just enter words corresponding to any user data to quickly access them.

`Filter` is a more complete alternative to access specific users according to the fields that correspond to their data: full name, email, department, or role.

Portal / Settings / Roles

Roles allow grouping access to the organization's information or the different functionalities of the platform, according to the user who has logged in. Within the same role, multiple levels of permissions can be assigned in different organizations.

Name	Assigned users	Assigned tenants	Created by	Updated by	Created at	Updated at	Action
Organization Ad...	1	1	PLATFORM User		9/9/24	9/9/24	View Detail Permissions
Level 3 Read Only	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 3	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 2 Read Only	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 2	1	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 1 Read Only	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions

Create a new role

To create a new role, click on the **New** button. A form will open requesting a name for the new role. Once assigned, it will appear in the roles table.

Roles table

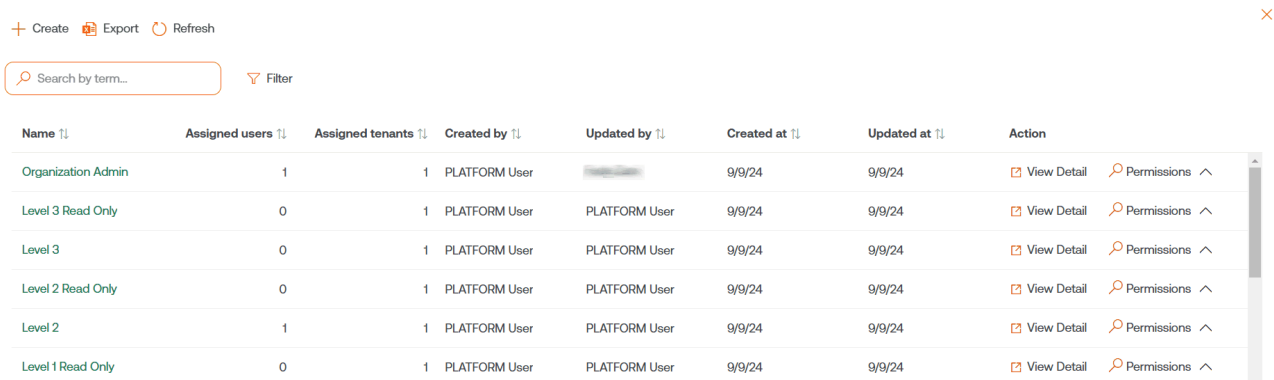
The roles table displays the following information:

- **Name:** name assigned to the role
- **Assigned users:** users who have that role assigned
- **Assigned tenants:** users who have that role assigned
- **Created by:** user who created the role
- **Updated by:** user who updated the role information
- **Created on:** date the role was created

- **Updated on:** date the role was updated
- **Action:** allows access to **View detail** and **Permissions**

Roles subtable

Clicking on **Permissions** will display a subtable from where you can access direct information about the permissions assigned to that role in the Portal and in the Workspaces and Analyzer modules, as well as the tenants assigned that permission.



Name	Assigned users	Assigned tenants	Created by	Updated by	Created at	Updated at	Action
Organization Admin	1	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 3 Read Only	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 3	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 2 Read Only	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 2	1	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions
Level 1 Read Only	0	1	PLATFORM User	PLATFORM User	9/9/24	9/9/24	View Detail Permissions

Detail view

Clicking on an item in the role table takes you to the detail view, where the following tabs will be displayed:

- [Details](#)
- [Permissions](#)
- [Users](#)

Details

The **Details** tab contains additional information about the role: name, number of users and tenants assigned to that role, creation and update date, and the user who created it.

At the bottom right, the **Clone** button allows you to copy and reuse the role. **Edit** gives you the option to change the role name.

Permissions

Through [Permissions](#) you can view, create, or edit permissions. In this view, you can configure a unique group of permissions for each selectable organization.

The [New](#) option allows you to create a new permission with the following information:

- [All Tenants](#)
- [Tenant](#)
- [Permissions in Portal](#)
- [Permissions in Workspaces](#)
- [Permissions in Analyzer](#)
- [All reporting groups](#)
- [Reporting Groups](#)

All tenants

It allows you to apply the permissions to all the organizations you have access to. In service provider use cases, it allows you to centrally manage permissions and replicate changes to the client organizations you manage.

When a role mixes permissions applied at the "All Tenants" level and specific organization configurations, which can be different, the most specific permission wins. In this way, a default configuration can be made for all organizations and overwrite those that require modifications.

Tenant

It allows you to add the role being edited to a single organization.

Portal Permissions

It allows you to select access level to Portal at different levels:

- User: can view, but not modify information.
- Organization admin: can view and change organization information.

Workspaces permissions

Allows you to select the workspace access level:

- Level 1: allows access to all tools in the **Level 1** group.
- Level 2: allows access to all tools in the **Level 1** and **Level 2** groups.

Analyzer permissions

Gives the option to allow or deny access to Analyzer.

All reporting groups

It allows you to apply permissions to all reporting groups you have access to. In service provider use cases, it allows you to centrally manage permissions and replicate changes to the client organizations you manage.

Reporting Groups

It allows you to apply permissions to specified reporting groups; it can be more than one.

Users

This table allows you to see the users assigned to the role and provides the option to search.

Portal / Settings / Roles / Roles included by default

The settings of the default roles affect all report groups of **only** the current organization. If the organization is of partner type and has client-type organizations below, or is client type and has sub-organizations below, they should be included as a new record in the

Permissions tab in two formats:

- All tenants: allows you to set a unified level of access and visibility for all organizations dependent on the root organization.
- Individually: allows you to set different levels of access and visibility for each organization

Default included roles:

- [Level 1](#)
- [Level 1 Read Only](#)
- [Level 2](#)
- [Level 2 Read Only](#)
- [Organization admin](#)

This role setting only affects the current organization. It is possible to assign more organizations with different permission levels in the **Permissions** tab of the same role in edit mode.

Level 1

Users with the **Level 1** role assigned will have the following accesses for their organization:

- Portal: User
- Workspaces: Level 1
- Analyzer: No access

This role allows the most common support actions in **Workspaces**, such as providing remote assistance, sending microservices, energy actions or consulting device information. It does not enable access to Analyzer and allows the user to consult information without modifying it in Portal.

Level 1 Read Only

Users with the **Level 1 Read Only** role assigned will have the following accesses for their organization:

- Portal: User
- Workspaces: Level 1 Read Only
- Analyzer: No access

This role is identical to **Level 1**, but also restricts access to **Workspaces** to view-only, allowing information to be consulted in **Read Only** mode without the possibility of performing support or modification actions.

Level 2

Users with the **Level 2** role assigned will have the following accesses for their organization:

- Portal: User
- Workspaces: Level 2
- Analyzer: Access

This role allows access to **Workspaces** with **Level 2**, which includes all the support functionalities of **Level 1** plus **Level 2** functionalities, including server management, networks, locations, WiFi networks, and alert configuration. Allows access to **Portal** as a user and also to **Analyzer** to consult information about application or device inventory, as well as user experience, carbon footprint, and more.

Level 2 Read Only

Users with the `Level 2 Read Only` role assigned will have the following accesses for their organization:

- Portal: User
- Workspaces: Level 2 Read Only
- Analyzer: No access

This role is identical to `Level 2`, but also restricts access to `Workspaces` to view-only, allowing information to be consulted in `Read Only` mode without the possibility of performing support or modification actions.

Organization admin

Users with the `Organization admin` role assigned will have the following accesses for their organization:

- Portal: Organization admin
- Workspaces: Level 2
- Analyzer: Access

This level is the highest level of access that can be granted to a user. It allows full visibility in `Analyzer`, all `Level 2` actions in `Workspaces` and the ability to modify organization properties in `Portal`, including the creation and activation of `Microservices` or `Flows`, `Patch Policies` and more.

Portal / Settings / Roles / Additional considerations

Roles allow grouping different levels of access for various organizations and, at the same time, allow grouping different levels of access by module for simplified management.

Multiclient environments

The roles of an organization allow configuring access and visibility for the users of the organization, and also allow including the permissions to configure access and visibility to dependent organizations.

An organization is dependent when:

- It is client type and the roles and users are in the partner organization at a higher level.
- It is a sub-organization of a client organization.

Roles are assigned to users and contain the definition of levels of access and visibility, being able to establish different configurations for the root organization and its sub-organizations in the same role. This can only be done in a descending manner; that is, from a higher-level organization, permissions can be assigned to the organization itself and the organizations that depend on it.

Levels of access by modules

The levels of access are also defined for each module of the solution:

- [Portal](#)
- [Workspaces](#)
- [Analyzer](#)

Portal

In **Portal**, there are two roles available: **User** and **Organization Admin**. The first allows viewing actions; and the second can turn functionalities on or off and make changes at a general level.

To access certain functionalities, in addition to the user role in the Portal, access to Workspaces is required, depending on the functionality, with **Level 1** or **Level 2** roles.

Available actions by each role:

Functionality	Action	Organization Admin	User	
Activations	View	X		
Operations log	View	X	X	
Microservices	Create	X	Only if L2 in Workspaces	
Microservices	View	X	Only if L1 or L2 in Workspaces	
Microservices	Modify	X	Only if L2 in Workspaces	
Microservices	Delete	X	Only if L2 in Workspaces	
Enabled microservices	View	X	Only if L1 or L2 in Workspaces	
Enabled microservices		Modify	X	Only if L2 in Workspaces
FlexxAgent	View	X	X	

Functionality	Action	Organization Admin	User	
Configuration				
FlexxAgent Configuration	Modify	X		
Flows	Create	X	Only if L2 in Workspaces	
Flows	View	X	Only if L2 in Workspaces	
Flows	Modify	X	Only if L2 in Workspaces	
Integrations	Create	X		
Modules	Create	X		
Modules	View	X		
Modules	Modify	X		
Operations	View	X	Only if L1 or L2 in Workspaces	
Patch Management	Create	X	Only if L2 in Workspaces	
Patch Management	View	X	Only if L1 or L2 in Workspaces	
Patch	Modify	X	Only if L2 in	

Functionality	Action	Organization Admin	User	
Management			Workspaces	
Patch Management	Delete	X	Only if L2 in Workspaces	
Policies	Create	X		
Policies	View	X	X	
Policies	Modify	X		
Policies	Delete	X		
Reporting Groups	Create	X		
Reporting Groups	View	X		
Reporting Groups	Modify	X		
Roles	Create	X		
Roles	View	X		
Roles	Modify	X		
Roles	Delete	X		
Organizations	Create	X		

Functionality	Action	Organization Admin	User	
Organizations	View	X		
Organizations	Modify	X		
Organizations	Delete	X		
Users	Create	X		
Users	View	X		
Users	Modify	X		
Users	Delete	X		
Workspaces	View	X	Only if L1 or L2 in Workspaces	
Workspace Groups	Create	X		
Workspace Groups	View	X	Only if L1 or L2 in Workspaces	
Workspace Groups	Modify	X		
Workspace Groups	Delete	X		

Workspaces

In **Workspaces**, there are two roles available: **Level 1** and **Level 2**. The first allows the most common support actions, such as providing remote assistance, sending microservices, power actions, or consulting device information and, the second, includes all the support functionalities of **Level 1** plus server management, networks, locations, wifi networks, and alert configuration.

Available actions by each role:

Functionality	Action	Level 1	Level 1 Read Only	Level 2	Level 2 Read Only
UX Panel	View	X	X	X	X
Workspaces	View	X	X	X	X
Workspaces	Execute operations	X		X	
Sessions	View	X	X	X	X
Sessions	Execute operations	X		X	
Connection Logs	View	X	X	X	X
Jobs	View	X	X	X	X
Jobs	Cancel	X		X	
Alerting	View	X	X	X	X
Alerting	Off	X		X	
Profile Storage	View	X	X	X	X

Functionality	Action	Level 1	Level 1 Read Only	Level 2	Level 2 Read Only
Profile Storage	Modify	X		X	
Profile Storage	Delete	X		X	
Alert notification profiles	View			X	X
Alert notification profiles	Modify			X	
Alert notification profiles	Delete			X	
Alert Subscriptions	View			X	X
Alert Subscriptions	Modify			X	
Alert Subscriptions	Delete			X	
Events Log	View			X	X
Events Log	Modify			X	
Events Log	Delete			X	
Locations	View			X	X
Locations	Create			X	
Locations	Modify			X	
Networks	View			X	X

Functionality	Action	Level 1	Level 1 Read Only	Level 2	Level 2 Read Only
Networks	Modify			X	
Notifications	View			X	X
Notifications	Create			X	
Notifications	Modify			X	
Notifications	Delete			X	
Reporting Groups	View			X	X
Servers	View			X	X
Servers	Execute operations			X	
Wireless networks	View			X	X
Wireless networks	Modify			X	

Analyzer

Since **Analyzer** presents information and never allows modifications to the organization or its devices, it does not segment access to the functionalities it contains, therefore access is either granted or denied to users.

Therefore, the access options for **Analyzer** are

- Access
- No access

Portal / Settings / Modules

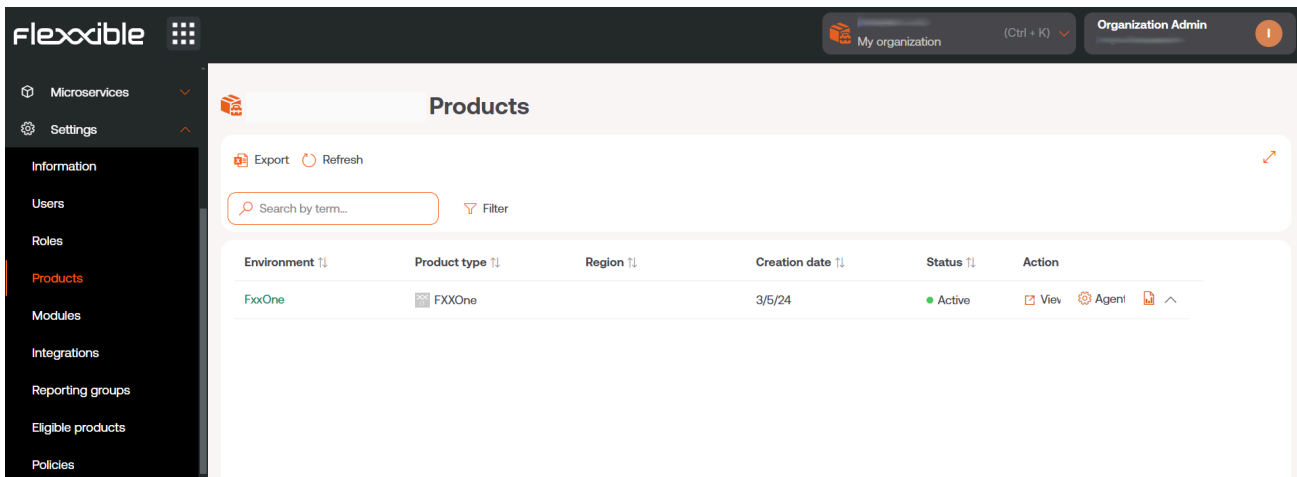
This option shows a list of the available Flexible product modules for the organization; it details their names, the corresponding URL, and their visibility status. And from the top of the overview, it is possible to perform a search to facilitate its configuration.

Name	URL	Visibility	Action
Workspaces		Featured	View Detail
Analyzer		Featured	View Detail

From **View Details**, you can assign a label to the chosen module and define if it is visible as featured or secondary. When it is highlighted, it appears among the top five modules of the **Home** section of **Portal**, standing out by the size of the icon, and when it is secondary it also appears in **Portal** but as a list, under the **View more** button.

Portal / Settings / Products

This section provides information about the Flexible environments and products that the organization has. The list view shows data such as the name of the environment in which the product has been deployed, the type of product available, region, creation date within the organization, and its status; the **Actions** field allows you to view and edit its specific data.

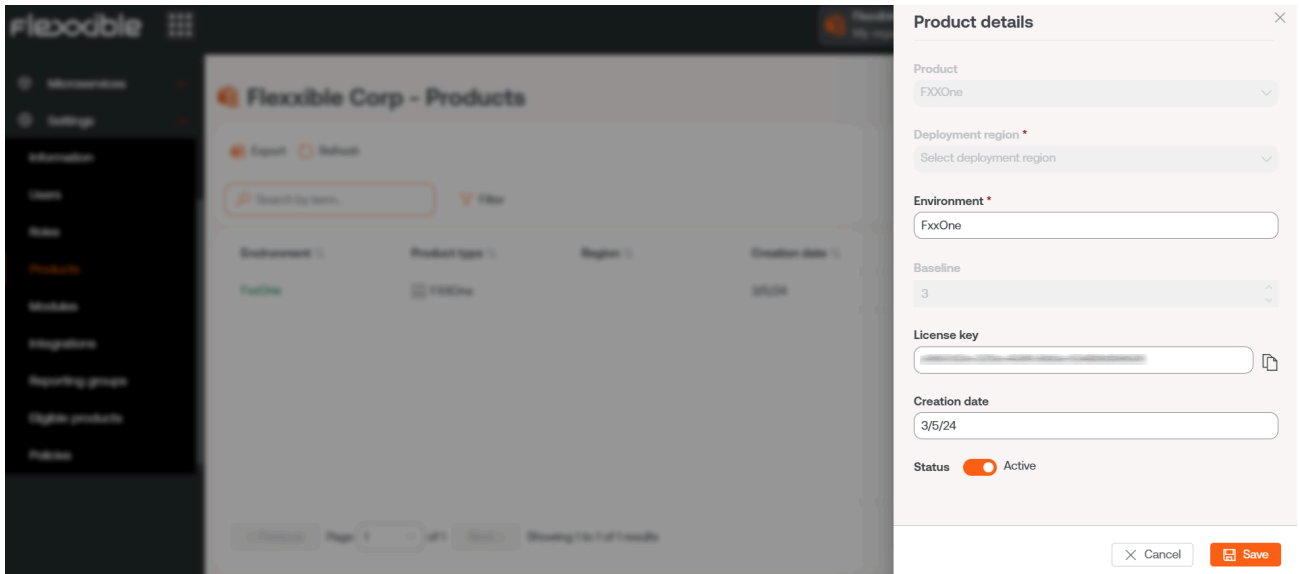


Action's

In the list view table, the **Actions** field shows three buttons to access more precise information and edit the product's behavior: **View details**, **FlexxAgent Configuration**, and **Reporting**.

View details

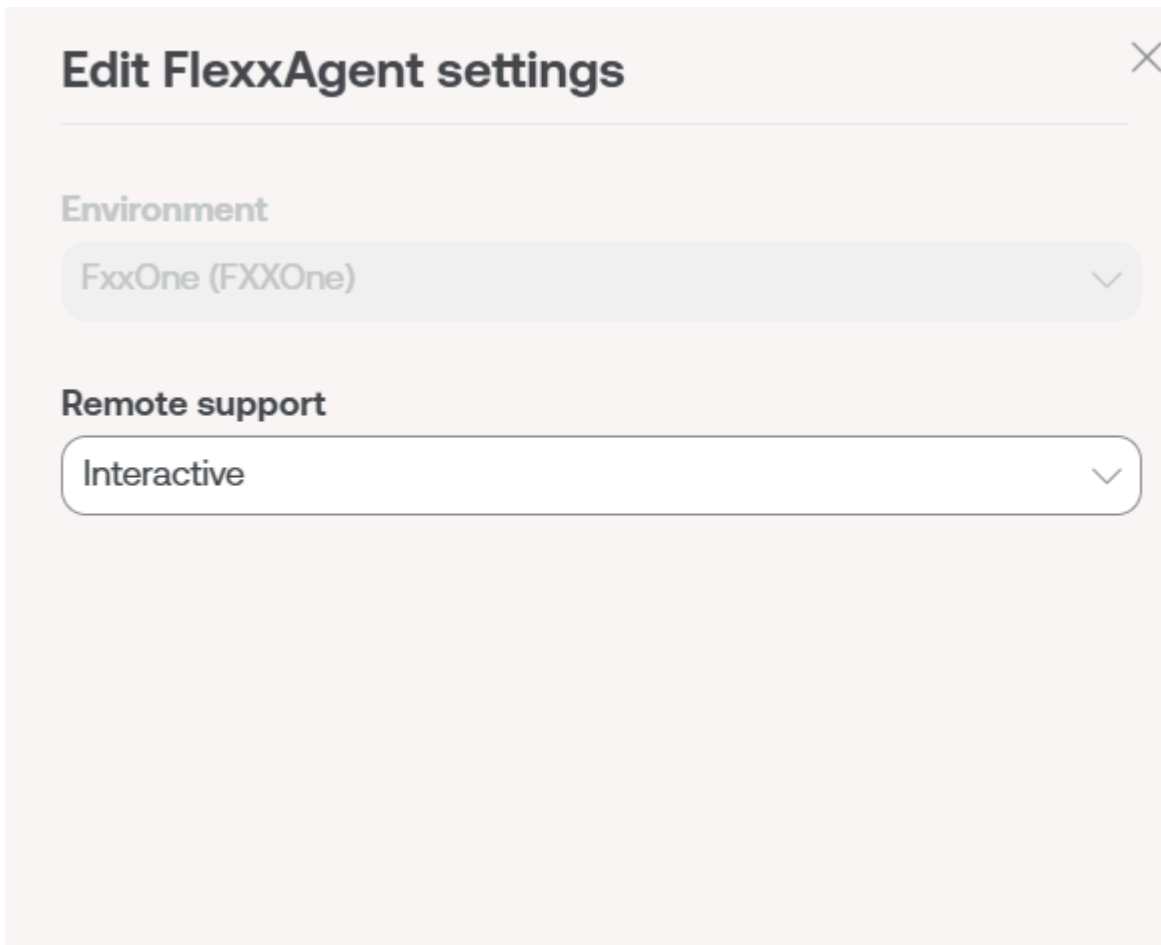
This option allows editing the data of each product that the organization has: the environment in which it has been deployed, the license key, its creation date in the organization, and also its status, which can be active or inactive.



FlexxAgent Configuration (Remote Assistance)

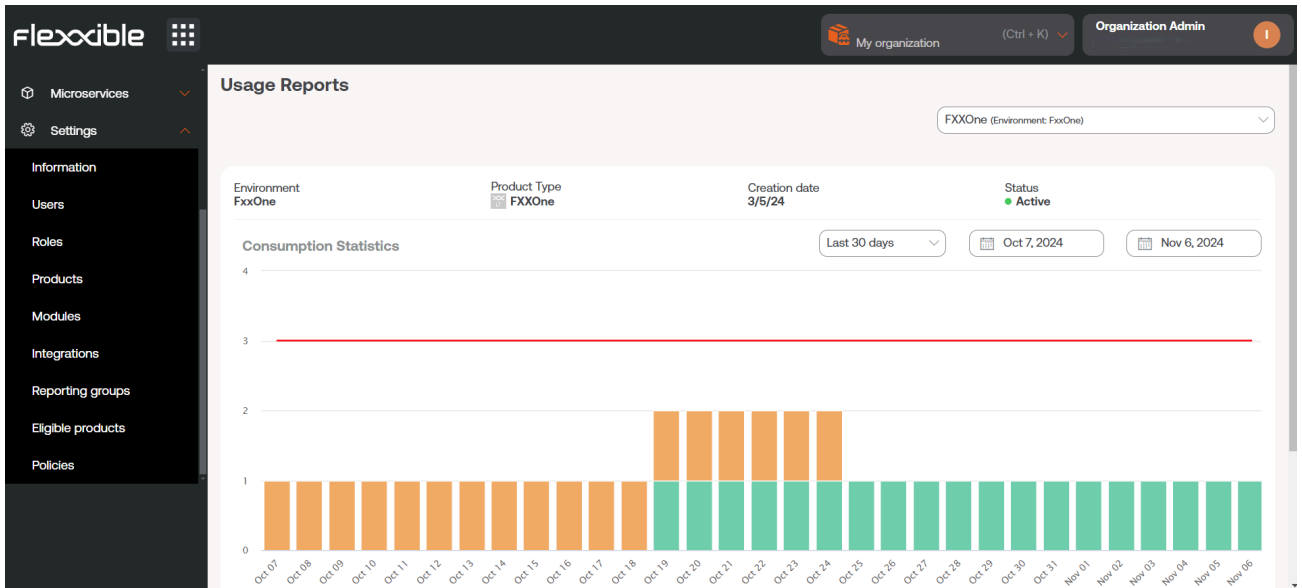
From here, a user with the `Organization Administrator` access level in the Portal can choose what type of remote assistance the organization will use globally. It can be configured to be interactive, unattended, dynamic, or to have no access at all.

Each reporting group that the organization has can edit its own remote assistance configuration to suit its needs.



Reporting

Reporting shows the product's consumption statistics over the past month. Clicking on **Reports Explorer** allows access to the product usage reports by environment over longer time periods: **Last 30 days**, **Current month**, and **Last 3 months**. Specific dates can also be selected using the calendar options.



Portal / Settings / Integrations

From this section, it's possible to manage the integration of organizational units with Entra ID, which is a cloud-based identity management service developed by Microsoft.

If the **Portal** is integrated with Entra ID, you can treat the organizational units of devices as just another **Workspaces** group. This would generate, in addition to dynamic and static Workspace Groups, Entra ID Workspaces Groups.

The integration doesn't imply that these groups will exist in **Portal**, but when you wish to perform any action on them, it will show the list of devices that make them up to make a decision.

The screenshot displays the Flexible portal interface. On the left is a navigation sidebar with the following items: Home, Operations, Flows (PREVIEW), Tenants, Workspaces, Patch (PREVIEW), Microservices, Settings, Information, Users, Products, Modules, Integrations, and Reporting groups. At the bottom of the sidebar, there is a 'Getting Started' section with '7 remaining tasks'. The main content area shows a table of users with columns for status, name, role, and dates. Below the table is an 'Entra ID' configuration form with fields for Client ID, Client Secret, and Tenant ID, and an 'Edit' button.

Status	Name	Role	Start Date	End Date	Other Date
Inactive	[Redacted]	User	5/2/24		5/2
Inactive	[Redacted]	User	5/2/24		5/2/25
Active	[Redacted]	Organization Admin	4/8/24	8/8/24	4/8/25
Active	[Redacted]	Organization Admin	3/6/24	8/7/24	3/6/25
Active	[Redacted]		3/5/24	6/17/24	3/5/25
Active	[Redacted]	Organization Admin	3/5/24	4/8/24	3/5/25
Inactive	[Redacted]	Organization Admin	3/5/24		3/5/25

Entra ID

Client ID: - Client Secret: -

Tenant ID: -

[Edit](#)

Portal / Settings / Reporting Groups

From **Reporting groups** you can create and preconfigure groups within the same organization using different criteria to meet the needs of departments, offices or user groups that make them up.

It is also possible to know which users and which roles have access to the reporting group. As well as activate Remote Assistance functionalities.

Reporting groups creation

To create a reporting group, press the **New** button and fill in the following fields:

- **Tenant:** it is a dropdown, to select the tenant in which the new reporting group will be created.
- **Name:** the name that the reporting group will have.
- **Environment:** opens a dropdown to select the environment in which the reporting group will be.
- **Patch directive destination:** opens a dropdown to select which patch policy the reporting group will be subjected to.
- **Fishing pattern:** it is an optional field. Allows indicating the regular expression (Regex) that will be used to add devices to the reporting group. For example: `company`

(includes all devices whose names contain the word "company") or `.*2023$` (includes devices whose name ends in "2023").

Once the reporting group has been created, it will appear in the table of the list view. The `Reload` button is very helpful if you want to refresh the list to ensure the reporting group has been created.

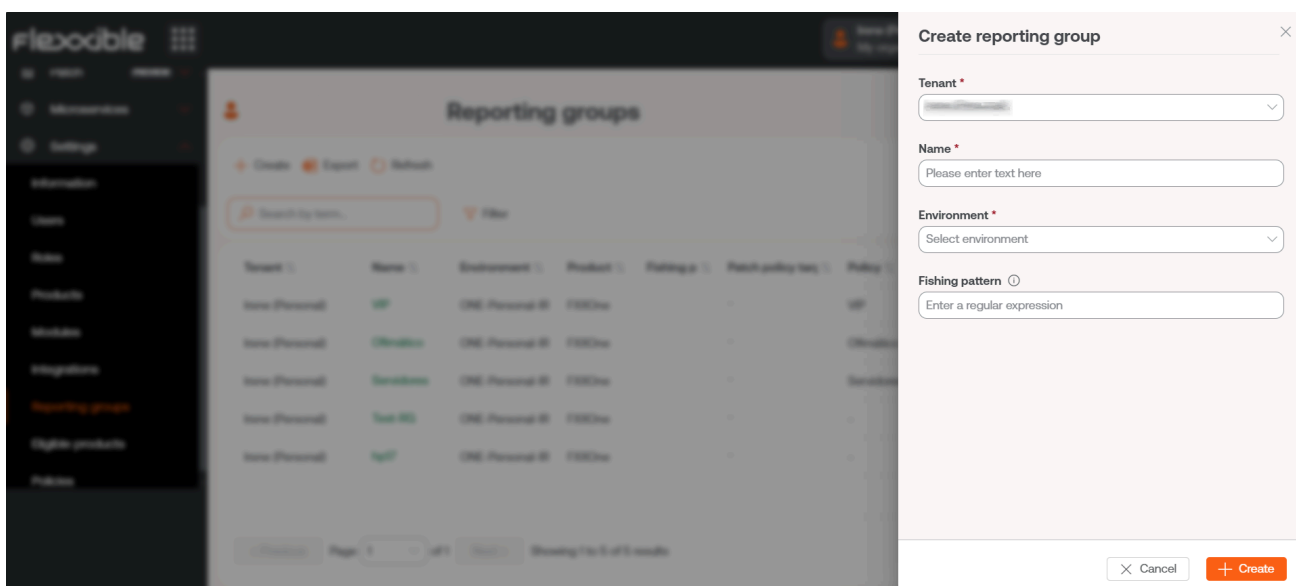
Fishing pattern

The fishing pattern allows automatically grouping in a reporting group the devices that share a regular expression (RegEx) in the name.

The devices that form the reporting group will be updated every hour. It is an automatic process that checks if there are new devices matching the configured RegEx. If there are, the devices will be moved to the corresponding reporting group.

It is important to pay attention to all the active RegEx to avoid conflicts between reporting groups, as it may happen that when creating a new one, its RegEx matches an existing one.

You can verify which reporting group a device is in from `Reporting Groups`, in the `Workspaces` module. And the history of a reporting group can be queried from the `device detail view`, in the `Workspaces` module.



The screenshot displays the FlexxDesktop interface. On the left is a dark sidebar with navigation options. The main area shows a 'Reporting groups' table with columns: Tenant, Name, Environment, Product, Fishing p., and Refresh policy. Below the table are pagination controls showing 'Page 1 of 1' and 'Showing 1 to 5 of 5 results'. Overlaid on the right is a 'Create reporting group' modal form with the following fields:

- Tenant ***: A dropdown menu with 'company' selected.
- Name ***: A text input field with the placeholder 'Please enter text here'.
- Environment ***: A dropdown menu with 'Select environment' selected.
- Fishing pattern**: A text input field with the placeholder 'Enter a regular expression'.

At the bottom of the modal are 'Cancel' and 'Create' buttons.

If you want to check which reporting group the device has been through, you can do so from [Reporting group history](#), in the workspace detail view, in the [Workspaces](#) module.

Reporting groups list

The list view shows a table whose fields match the data requested to create the reporting group. It also has the [Action](#) field, which allows access to [View details](#) and [Agent configuration](#).

View details

The detail view allows consulting three types of information about the selected reporting group:

Details

This tab offers general information about the reporting group being consulted. The [Edit](#) button opens a form that allows you to change the initial characteristics of the group, such as the name or the patch directive destination.

Roles

This tab shows a table with the list of roles that can access the reporting group being consulted. In turn, this table also has the [Action](#) field -> [View details](#), which allows you to consult more specific information about the roles: details, permissions and users.

The screenshot displays the 'Roles' tab for the 'Oficina' reporting group. The table below represents the data shown in the interface:

Name	Assigned users	Assigned tenants	Created by	Updated by	Created at	Updated at	Action
Admins2	2	1			9/9/24	9/25/24	View Detail
Custom Admin Rol...	0	1			9/9/24	9/9/24	View Detail
Custom Role 11	1	2			9/9/24	9/9/24	View Detail
Custom Role 9	1	1			9/9/24	9/9/24	View Detail
	4	1			9/12/24	9/12/24	View Detail

- **Details:** general information about the role. At the bottom right, the **Edit** button allows you to change the name of the role.
- **Permissions:** through a table, shows the permissions that this role has in the Portal, Workspaces and Analyzer modules.
- **Users:** through a table, shows a list of users assigned to that role.

More information about roles, users and permissions in [Roles](#).

Users

This tab shows the name and associated email of the users who make up the reporting group being consulted.

FlexxAgent configuration (Remote Assistance)

From here, a user with the **Organization administrator in Portal** access level can configure the type of remote assistance that the reporting group will have: interactive, unattended, dynamic or none.

Edit FlexxAgent settings ✕

Environment

FxxOne (FXXOne) ▾

Remote support

Interactive ▾

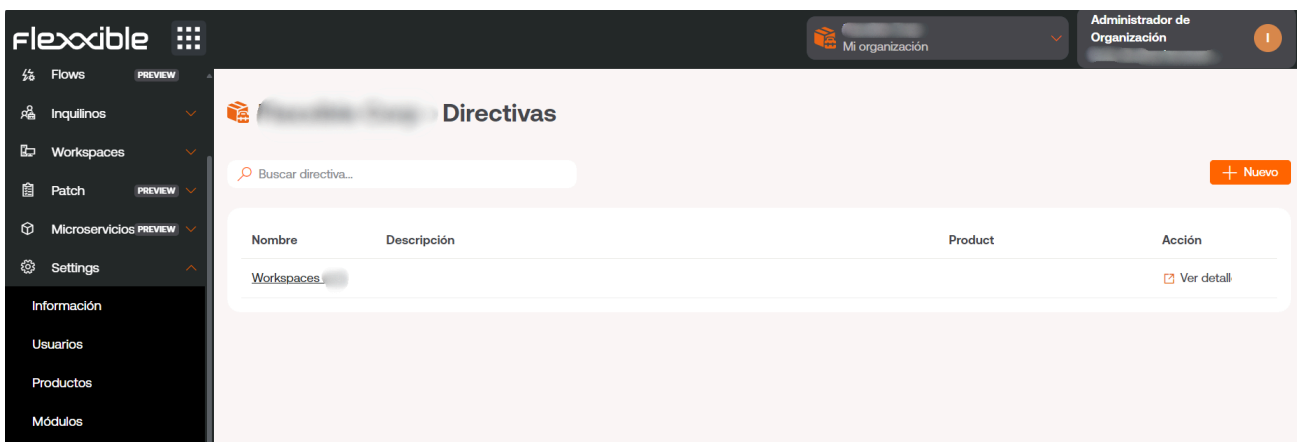
This configuration is set from Productos, however, very specific and particular configurations can be made for the reporting groups.

Portal / Settings / Directives

Policies allow you to create client-type organizations using a template, so that each time an organization is created, it can follow a pattern that can be used to apply certain configurations, such as user access or the activation of FlexxAgent. They are useful for assigning specific characteristics to one or more report groups, thus facilitating their management and saving time for users of managed service provider (MSP) organizations.

From the overview, you can access a list of the created Policies, as well as a brief description of them. By clicking on [View Details](#), you can get more information, such as the report groups to which it is being applied and the names of the users responsible for its management.

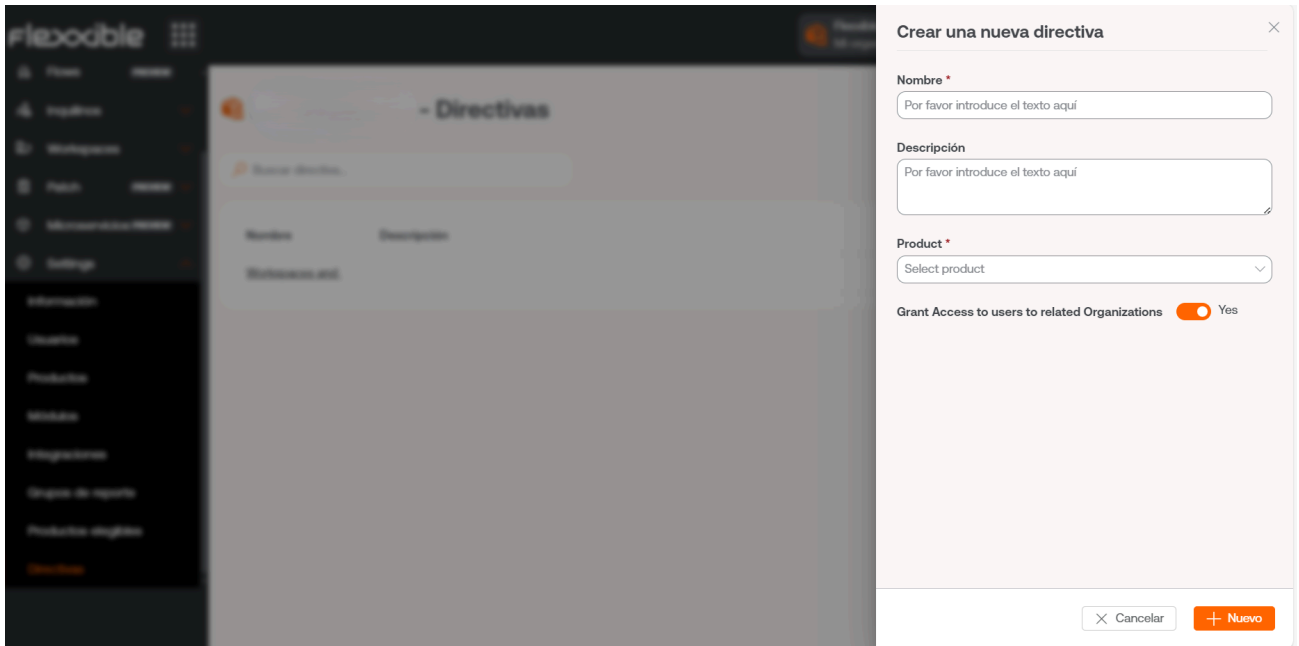
Each time a new organization is created, the report groups defined in the policy will be created, and the users specified in the policy will have access. At the same time, from the Policy itself, you can determine whether partner-type users will have access to manage an organization in Portal or not



New Policy

To create a new policy, you just need to press the [New](#) tab and insert the required information: Name, description, associated product, and user information for the people who will manage it.

It is also possible to assign a Policy to an organization from [Tenants](#).



Portal / Access Considerations

To facilitate logging in to Flexible tools, such as Portal, Analyzer, and Workspaces, authentication is delegated to existing Microsoft Entra ID (formerly Azure Active Directory) or Google accounts, which use OAuth2.

Depending on the organization's configuration and security policies, an administrator may need to authorize the use of Entra ID or Google accounts the first time they want to use them to access Flexible tools.

User authentication

For the Flexible SSO system to verify that the Microsoft Entra ID or Google account is valid and authorized to access its consoles, it needs an administrator to give the following consents:

- Microsoft Entra ID: a Flexible Enterprise Application is used in your tenant (tenant).
- Google Admin: a Flexible OAuth client id is used in your tenant (tenant).

This is one of the usual procedures when third-party applications delegate their log in to Entra ID or Google Admin. The tenant administrator can always see what data the application has access to, who has used the application, and revoke consent, preventing users from logging in again to any Flexible console.

Enterprise Application Consent and Permissions in Entra ID

User access can be granted individually or in groups, although there is a way to simplify the process by having **an administrator consent to the use of the Enterprise Application for your organization**. This allows users in your organization to log in to the Flexible ODIN consoles with their corporate credentials and automatically create the Enterprise Application in your Azure tenant. For this, the administrator only needs to try logging in to Portal for the first time, which will trigger the consent request:



Permissions requested



This application is not published by Microsoft.

This app would like to:

- ✓ Have full access to your calendars
- ✓ View your basic profile
- ✓ Maintain access to data you have given it access to
- Consent on behalf of your organization

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. **The publisher has not provided links to their terms for you to review.** You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Does this app look suspicious? [Report it here](#)

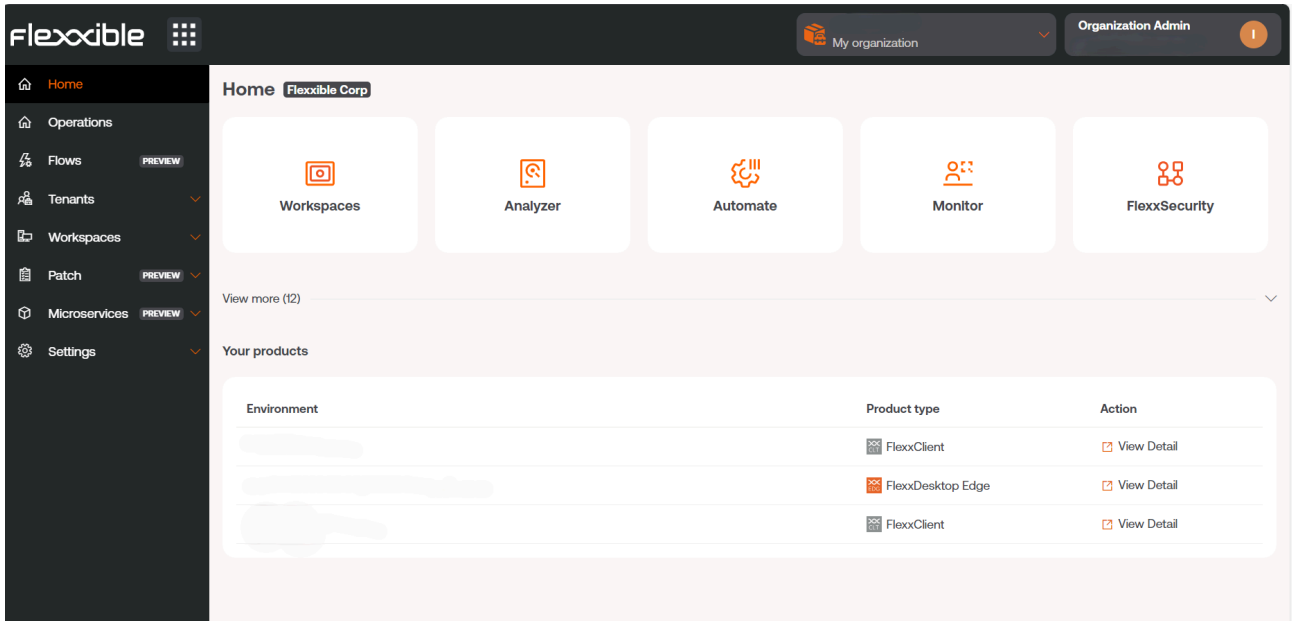
Cancel

Accept

If created manually, to provide authentication the Enterprise Application must have the following permissions:

Permission	Caption
Directory.Read.All	Read directory data
email	View user email addresses
offline_access	Maintain access to data you have given access to
openid	Log In
profile	View basic user profile
User.Read	Log in and read user profile

Portal / Guides and tutorials for Portal



This section offers resources designed to maximize the use of Portal. It includes detailed instructions on initial and advanced configuration, allowing it to be tailored to specific needs.

Each guide has been created to facilitate understanding and application, regardless of the user's level of experience. In addition to step-by-step instructions, you will also find procedures and solutions to common problems.

Portal / Guides and tutorials / Creation and management of Workspaces Groups

The workspaces groups are logical groupings of a set of 'workspaces' (or endpoints) that can be used when managing an organization. They can be static and dynamic.

Static Workspaces Groups

The creation and management of static Workspaces Groups includes:

- [Creation Static Workspaces Groups](#)
- [Managing Static Workspaces Groups](#)
- [Usage from Workspaces](#)

Creation of Static Workspaces Groups

A static group is defined as a series of members (workspaces) that make it up and do not change, except if the group is modified.

To define a static group of workspaces:

1. Log in to Portal and select the **Workspaces** -> **Workspaces Groups** option in the left side menu. A list of available groups will appear (or empty, if none exists).

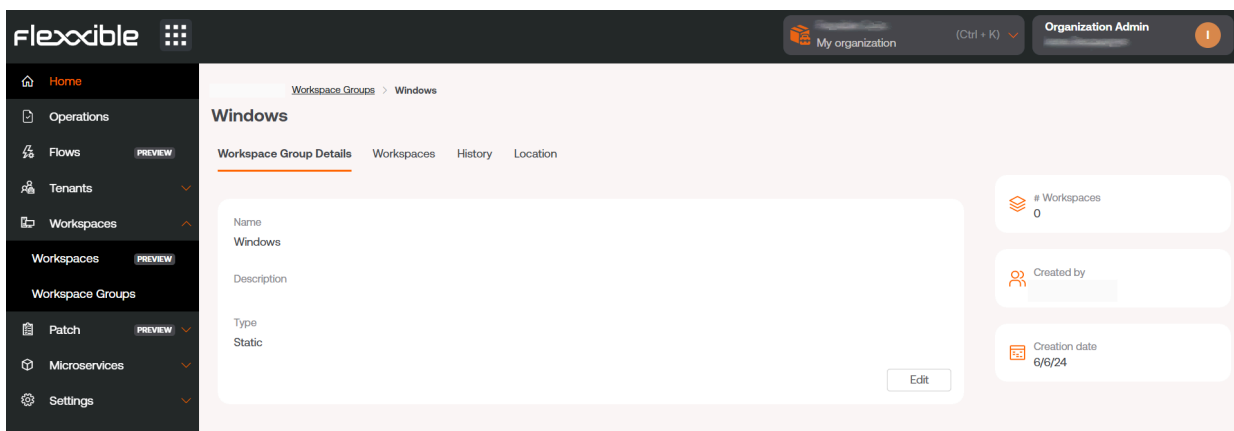
The screenshot displays the 'Workspace Groups' management interface in the Flexxible Portal. The left sidebar menu is open, showing 'Workspaces' and 'Workspace Groups' (highlighted). The main content area features a table with the following data:

Name	Type	# Workspaces	Action
[Redacted]	Static	0	View Detail
[Redacted]	Static	0	View Detail

At the bottom of the page, there is a pagination control showing 'Page 1 of 1' and 'Showing 1 to 2 of 2 results', along with a 'Per page: 50' dropdown menu.

- Click on the **+ New** button at the top of the list. A pop-up panel will appear on the right side of the screen. Enter the group name and description (optional). Once done, click on the **+ New** button at the bottom of the pop-up panel.

- A confirmation message of the group's creation will appear. Close the pop-up panel using the cross, located at the top right of it.
- The new group will appear in the list. Click on its name to access the details.



Management of Static Workspaces Groups

The group control panel has the following tabs:

- **Details:** general information. From here you can delete the group by clicking on the **Edit** button.
- **Workspaces:** controls the devices that are part of this group.
- **History:** offers a daily view of the number of devices that are part of the group.
- **Location:** a geographical location can be added to the group of devices if necessary.

To add devices to the group, click on the **Workspaces** tab and press **Edit**. A list of all available devices in the installation will appear.

Use from Workspaces

Once the group is defined, it can be managed within the **Workspaces** module when filtering results.

The screenshot displays the FlexxWorkspaces interface. At the top, there's a search bar with "Text to search..." and a "Documentación" button. Below the search bar, there are filter options: "Mis filtros" and "Filtrar por etiqueta". The main area shows a table with the following columns: "Plataformas", "Máquina", "Tenant del RG", "Estado", "Último usuario", "Sesiones", "CPU", "% de RAM", and "Tamaño de disco". The table contains several rows of data, including one with "Encendido" status and another with "Sin reportar". A "Cerrar sesión" button is located in the top right corner.

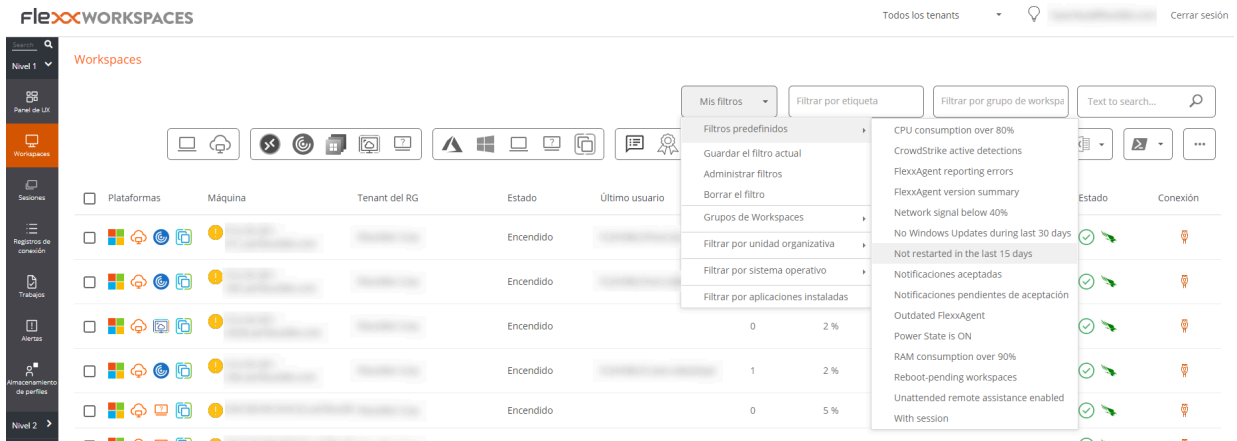
Dynamic Workspaces Groups

In addition to static groups, dynamic groups can be created based on workspaces search filters. Thus, the members of these dynamic groups can change in real-time.

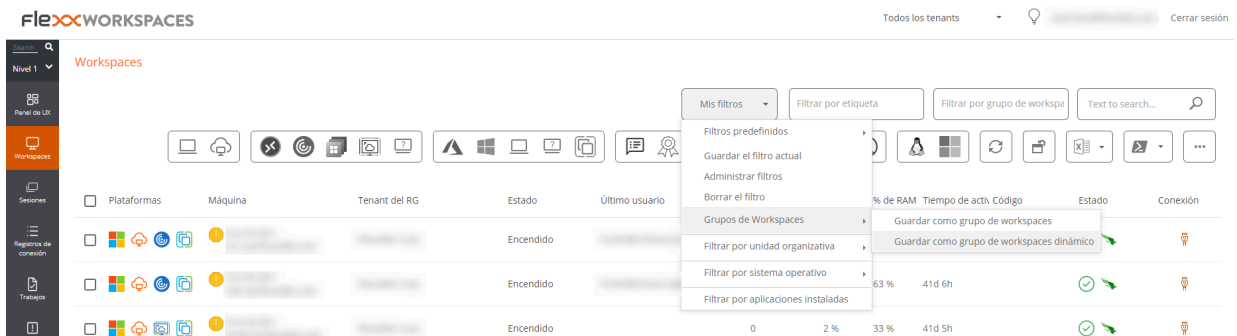
Creation of Dynamic Workspaces Groups

Dynamic groups are created from the **Workspaces** view, within the **Workspaces** module.

1. Access the list of devices within **Workspaces**. Select or create a search filter. For simplicity, in this example a filter that searches for devices that haven't restarted in the last 15 days is used.





2. Once within the filter results, use the **My filters** -> **Workspaces Groups** -> **Save as dynamic workspaces group** option.















3. A pop-up panel will appear. Give the dynamic group a name and click **OK**.
4. The system notifies that a job has been scheduled to create this item. You can audit the task execution in the **Jobs** section of the left menu of the **workspaces** module.
5. Go back to the **Workspaces** -> **Workspaces Groups** menu in Portal to check that the new dynamic group has been created and to view its members.

Grupos de Workspaces Flexible Corp

+ Nuevo  Exportar

 Filter

Nombre 	Type 	# Workspaces 	Acción
15 dias sin reiniciar	Dynamic	21	 Ver detalle
	Static	0	 Ver detalle
	Static	0	 Ver detalle
	Dynamic	5	 Ver detalle
	Static	0	 Ver detalle

Portal / Guides and tutorials / Scheduled Microservice Execution

Microservices allow actions (queries or fixes) to be performed on the devices. They can be scheduled through the **Flows** in Portal, which allows you to execute microservices conditionally; one of these conditions can be to check if a time-based condition is met.

To schedule the execution of a microservice:

1. Click on the **Flows** option from the Portal on the left menu.
2. Once there, create a new flow by clicking the **+ New** button. Or by selecting an existing flow if you want to modify it.
3. Fill in the flow fields. It is important to know if the flow will run at the operating system level or at the user session level. Once the fields are filled in, click on **Save**.

Create new flow

Name (spanish) *
TestFlow Show languages

Description (spanish) *
this is a flow for documentation Show languages

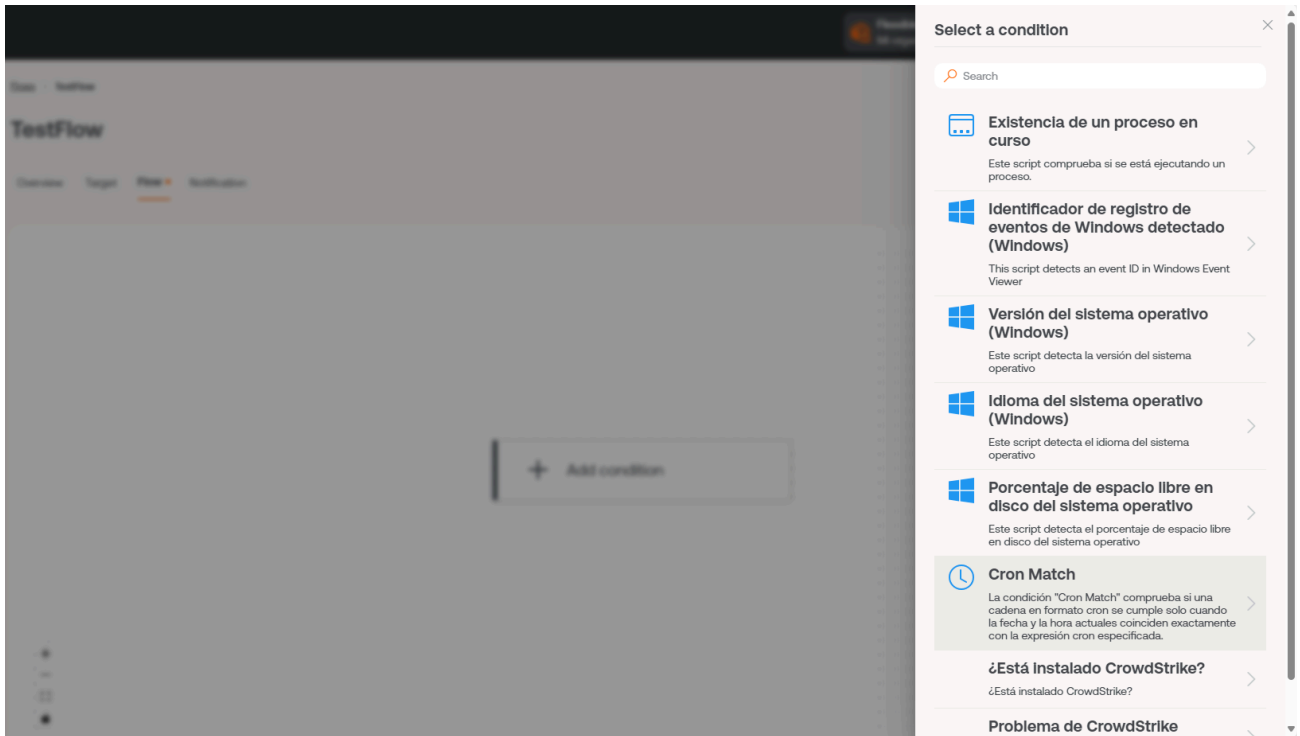
Type *
Workspace ▼

Cooldown *
10 minutes

Detection only

✕ Cancelar Guardar

4. Click on the **Flow** tab.
5. In the panel, click on the **Edit** button on the right side.
6. To add the first condition, click on **+ Add condition**. A floating panel will appear with all the available conditions. Select **Cron Match**.



7. Add the condition check fields (how often it is checked) and the “cron” scheduling condition. Click on **Save** at the bottom of the panel. In this example, the condition is checked every half hour and the “cron” condition is “every Monday at eight in the morning”.

There are many references available to check “cron” scheduling syntax. For example: [Crontab.guru](https://crontab.guru)

Cron Match ✕

Check every *

30 minutes
▾

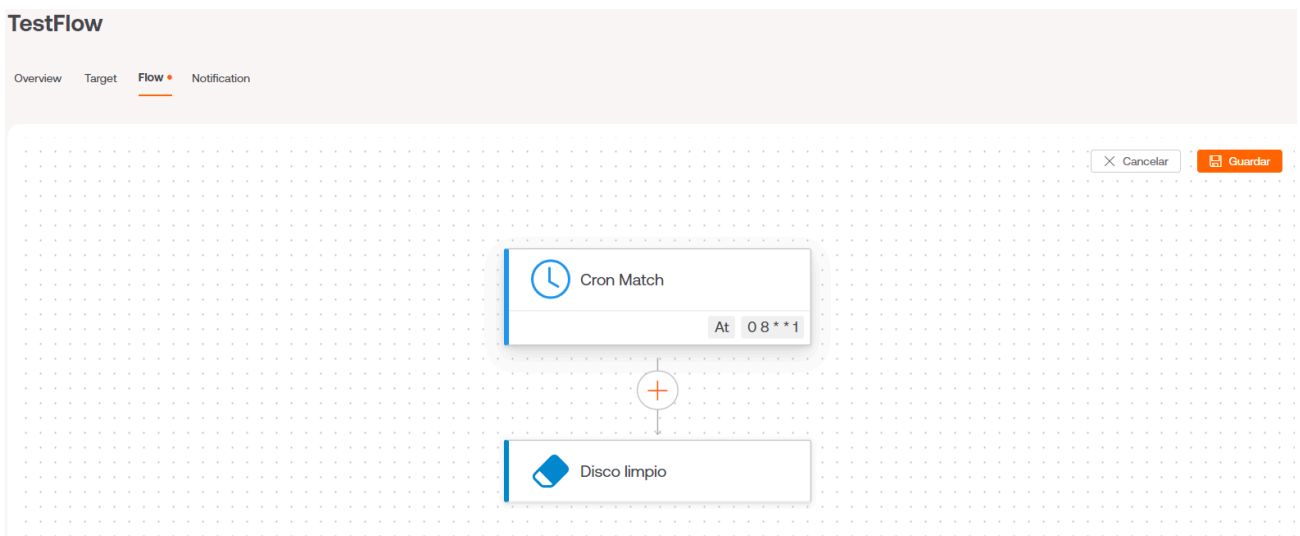
Operator *

At
▾

Value *

0 8 * * 1

1. Click on the **+** button below the condition and select **Add action** to add the microservice to be scheduled. At this point, additional conditions can be added if needed.
2. In the floating panel, select the microservice you want to schedule. In this example, “Clean Disk”. Click on the **Save** button in the upper right corner.



In this example, the disk cleaning microservice has been scheduled to be executed every Monday at eight in the morning.

To activate the periodic execution of this microservice on the devices, it will also be necessary to configure the `Target` of the flow including the reporting groups, the devices, or device groups where the execution is required.

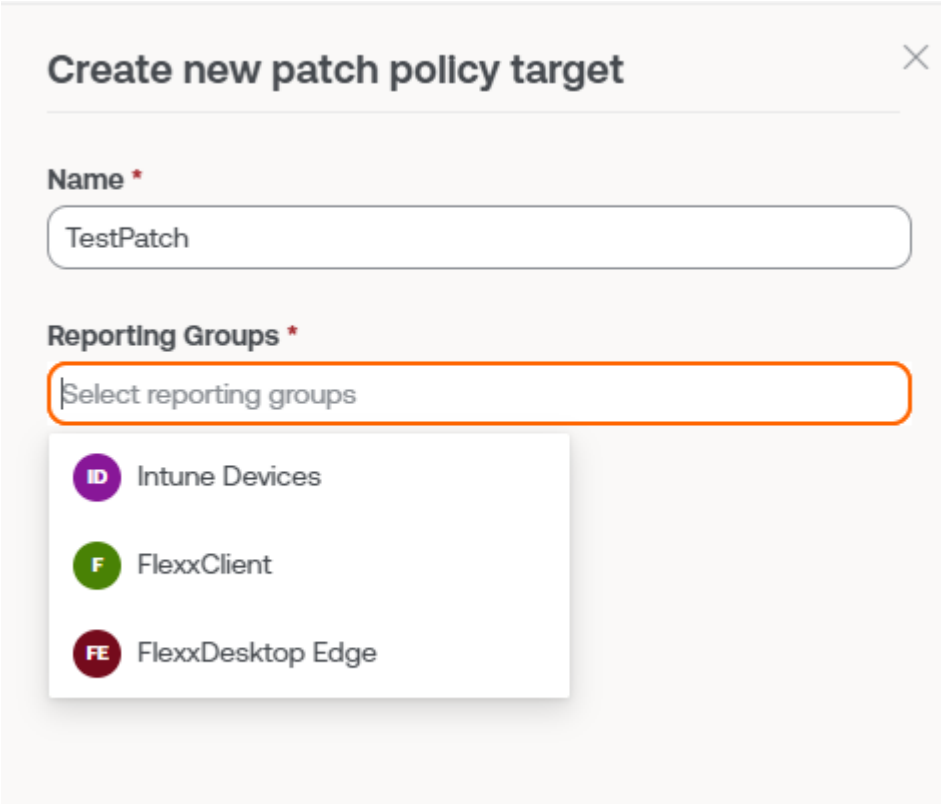
There is also the option to notify users of the flow execution. To do so, the option must be activated and the `Initial text`, `Success text`, and `Error text` fields filled in.

Portal / Guides and tutorials / Define the patching policy

The patch policy indicates how the operating system patching will be managed for a set of devices belonging to a report group. Therefore, the patching is not done individually, but on those devices that belong to a specific report group.

To define the patch policy:

1. In the Portal menu, select the **Patch** -> **Targets** option.
2. Create a new target by clicking the **+ New** button (or select one from the list if you want to modify it). Give it a name and optionally select the report group to which this policy will apply.



Create new patch policy target ✕

Name *

TestPatch

Reporting Groups *

Select reporting groups

- ID** Intune Devices
- F** FlexxClient
- FE** FlexxDesktop Edge

1. Save the policy by clicking on **New** at the bottom of the previous pop-up panel.
2. The information of the new policy will appear on the screen.

TestPatch

Details Schedules

Name	Reporting Groups
TestPatch	1
Restart after patching	
No	
Wake on LAN	
No	

[Edit](#)

Reporting Groups

Name
Intune Devices

5. To change the behavior of the policy, you can use the [Edit](#) button, which allows you to:

- Change the name of the policy.
- Change the report groups to which the policy applies.
- Select whether the devices will reboot or attempt to boot on the network ([Wake On LAN](#)) when applying the patches.

6. To change the scheduling of the patch policy application, go to the [Schedules](#) tab -> [Edit](#).

TestPatch

Details Schedules

[Cancelar](#) [Guardar](#)

Weeks * Time zone *

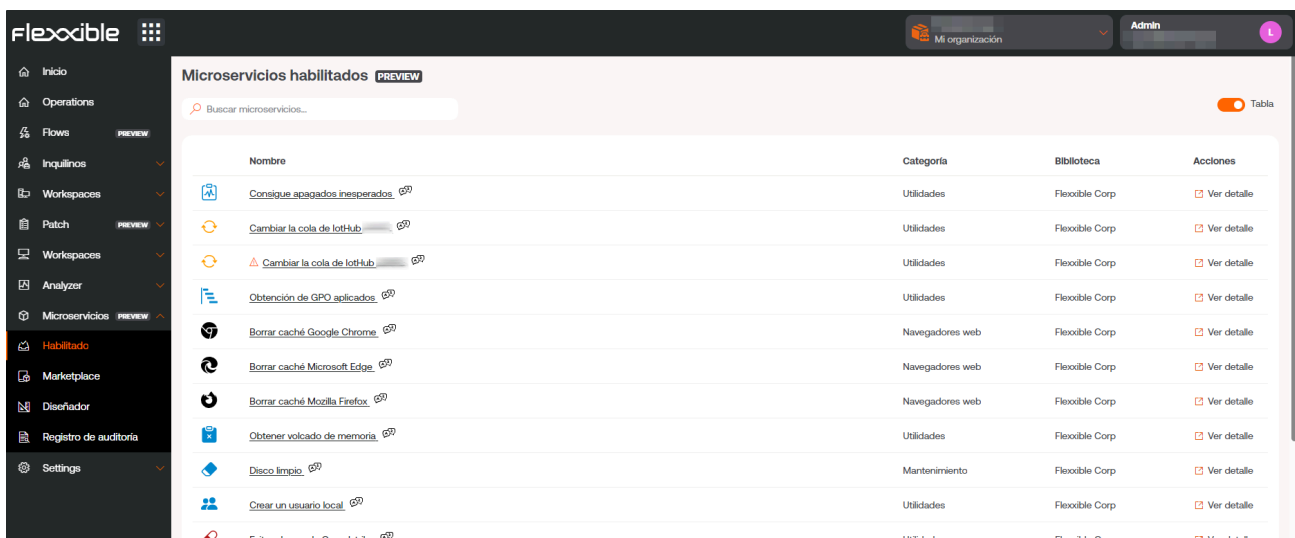
	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	
Sunday																							
Monday																							
Tuesday																							
Wednesday																							
Thursday																							
Friday																							
Saturday																							

Portal / Guides and tutorials / Enable a microservice for the end user

Microservices allow actions (queries or corrections) on devices. A form of self-service is to offer the end user the possibility to run these microservices on demand.

To enable a microservice for the end user:

1. Go to the **Microservices** menu -> **Enabled** within the Flexible Portal.
2. Once there, select the microservice you want to enable. Microservices can be organized in a list or block format.



1. Select the microservice you want to enable by clicking on its name or on the **View details** link on the right side. If the microservices are displayed in block format, click on the desired one. And then the microservice detail will appear (in the example, "Clean Disk").

Disco limpio PREVIEW

Visión general [Código](#) [Destinatarios](#) [Configuración](#) [Licencia](#) Ir al diseñador Clonar Deshabilitar

Descripción
Limpie el disco eliminando archivos de las carpetas temporales, la papelera de reciclaje, las actualizaciones de Windows y ejecute dism.exe

Idioma
PowerShell

Alcance
Workspace

Sistema operativo
Windows

Icono

Versión
3

Contexto
Sistema

Categoría
Mantenimiento

Autor

Publicado
17/7/24

Licencia
MIT License

Categoría
Mantenimiento

Eficiencia
5 minutos ahorrados por ejecución

4. Select the **Recipients** tab, which shows the permissions and recipients of this microservice.

Disco limpio PREVIEW

Visión general [Código](#) [Destinatarios](#) [Configuración](#) [Licencia](#)

Ejecución de FlexxWorkspaces

	Permitir ejecución	Permitir ejecución (Individual)
L3	✓	✓
L2	✓	✓
L1	✓	✓

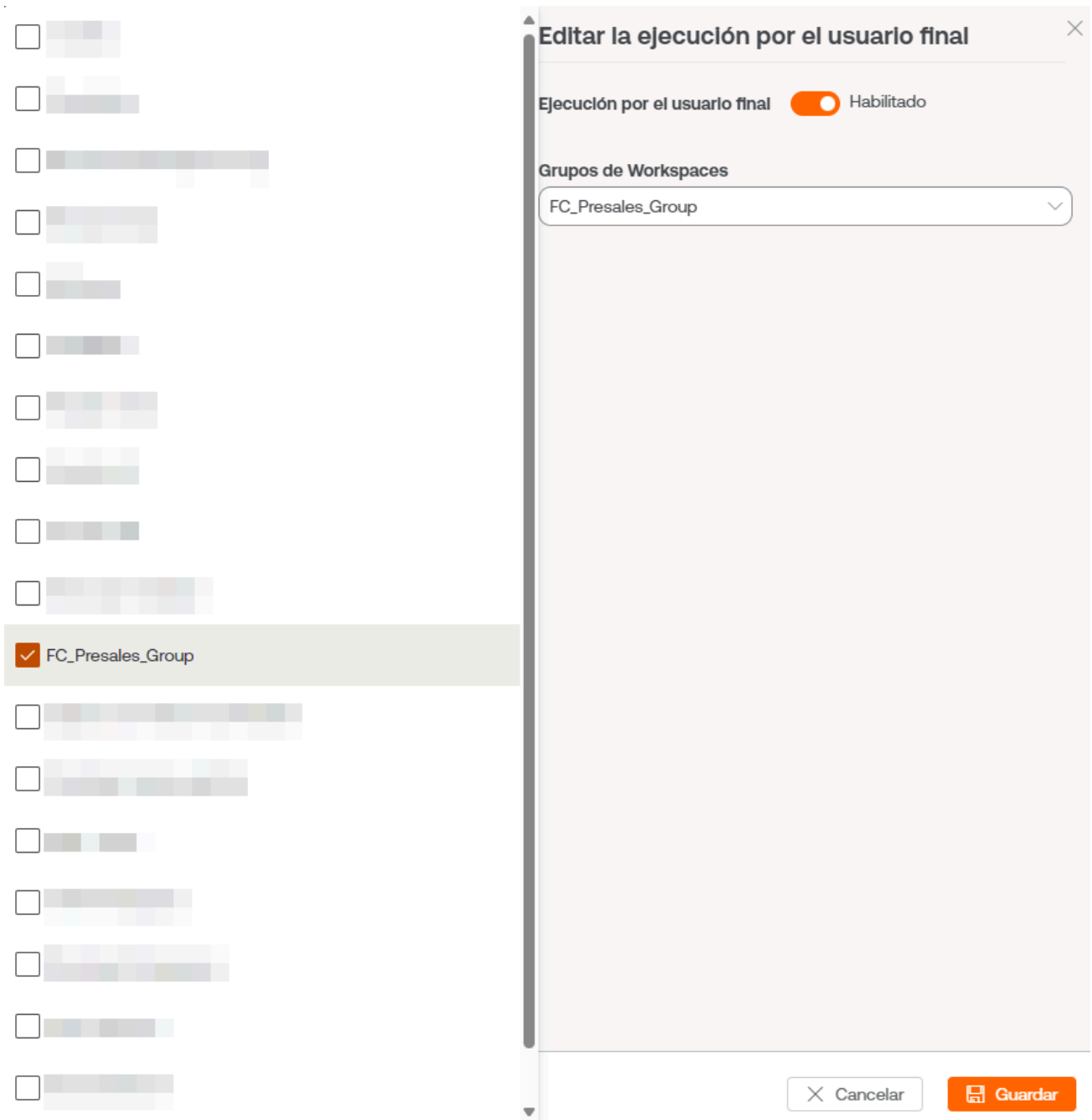
Edit

Ejecución por el usuario final

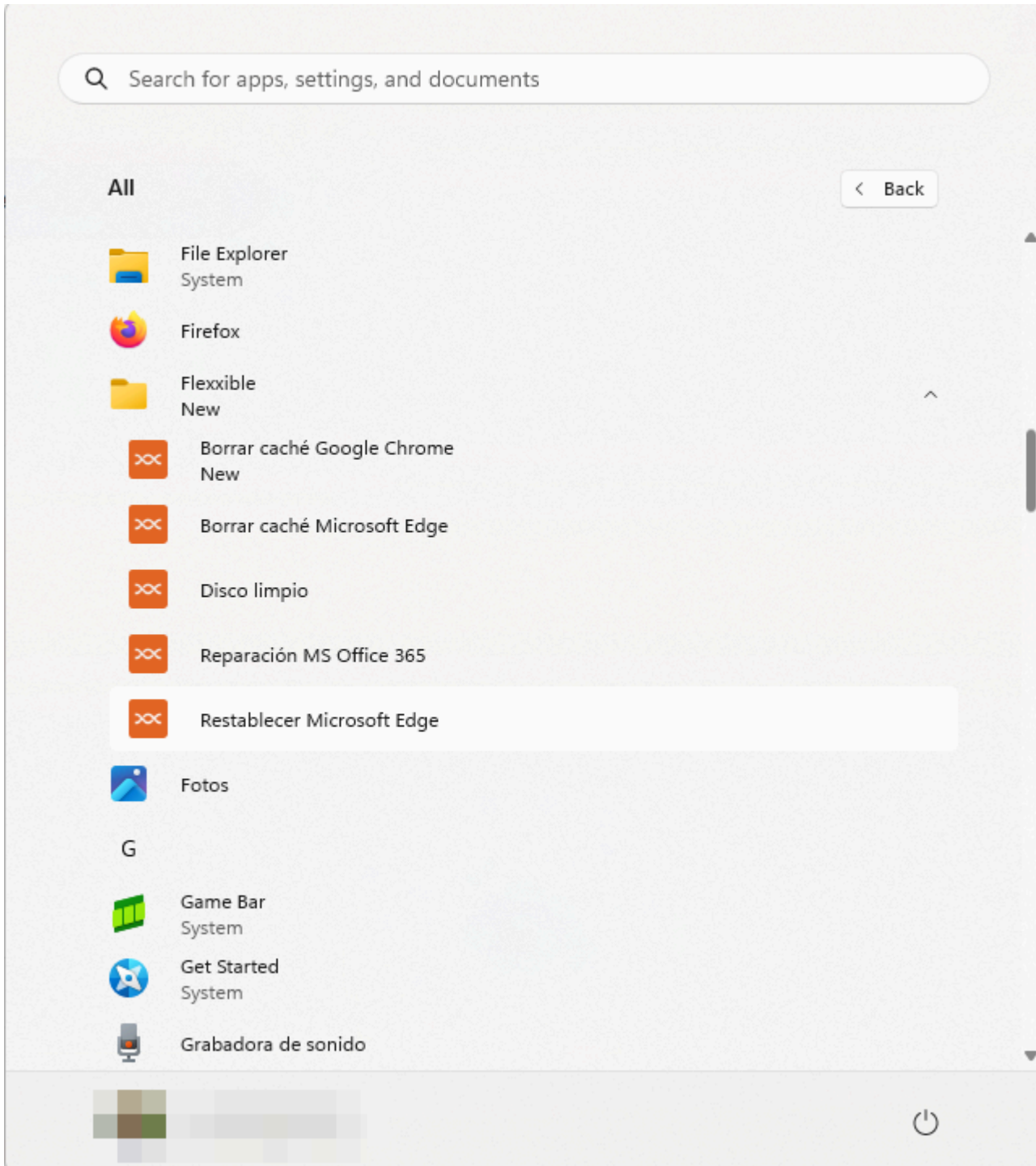
Ejecución por el usuario final
Deshabilitado

Edit

1. Click on the **Edit** button at the bottom right, within the **Execution by the end user** section. A floating panel will appear where you configure this execution:



6. In the panel, enable the execution of the microservice by the end user and select one or more groups of workspaces in which this option will be valid. Once selected, click **Save**.
7. In the following minutes, the new microservice will appear as a new operating system option within the **Flexible** folder in the start menu.



Workspaces

Workspaces is a unified support delivery and RMM solution, where different tools for monitoring, managing, and automating devices converge, as well as tools for interacting with users. Access can be segmented into levels, which ensures the delivery of appropriate tools to each technical or support team through role assignment.

Workspaces is ready to manage user sessions from any technology. FlexxAgent can identify the virtualization and brokering technologies used in each session.

Interface and Access Segmentation

The functionalities available in Workspaces are segmented into two levels, so access to them is granted through roles. Clicking on any level expands the menu options to access specific features.

Level 1

It gathers the tools for the teams that have the most direct contact with end users. Includes views of Dashboard UX, Workspaces, Sessions, Connections Logs, Jobs, Alerts, and Profile Storage. Functionalities available at this level:

- [UX Panel](#)
- [Workspaces](#)
- [Sessions](#)
- [Connection log](#)
- [Jobs](#)
- [Alerts](#)
- [Profile Storage](#)

Level 2

Offers tools that enable more detailed diagnostics, such as monitoring, event log filtering, server management, and more. Functionalities available at this level:

- [Alert notification profiles](#)
- [Alert subscriptions](#)
- [Event log](#)
- [Notifications](#)
- [Servers](#)
- [Locations](#)
- [Networks](#)
- [Wireless networks](#)

For FlexxDesktop deployments that use Azure Virtual Desktop subscriptions as a resource source for user sessions, the following features are included:

- Host pools (AVD)
- Power management policies (AVD)
- Power management activity (AVD)

List Views

List views allow filtering and selecting items in the Workspaces and Sessions screens among others, to obtain listings, such as devices with a certain uptime, with pending reboots due to updates, or not used for a certain period, among many other filtering criteria. Based on the results, the listings can be used to execute specific actions such as running microservices, power actions, remote user support, and more.

FlexxWORKSPACES Log Off

Workspaces

My Filters | Filter by tag | Filter by workspace group | Text to search...

Platforms	Machine ↑	RG Tenant	Power state	Last user	Sessions	CPU	% RAM	Uptime	Code	Status	Connection
			On			26 %	96 %	15h 49m			
			Not reporting			0 %	0 %				
			Not reporting			0 %	0 %				
			On			11 %	62 %	2d 8h			
			On			3 %	34 %	4d 20h			

In addition to filtering, list views also offer other options, such as exporting listings and saving applied filters as user filters, allowing the filter selector to save user filters.

Filtering options in listings

Platforms	Machine ↑

- Sort Ascending
- Sort Descending
- Group By This Column
- Group Panel
- Hide Column
- Show Customization Dialog
- Column Chooser
- Search Panel
- Filter Builder...
- Filter Row
- Footer

Grouping and filtering options are also available in the header row; with a right-click on the column title, you can see options to sort the list:

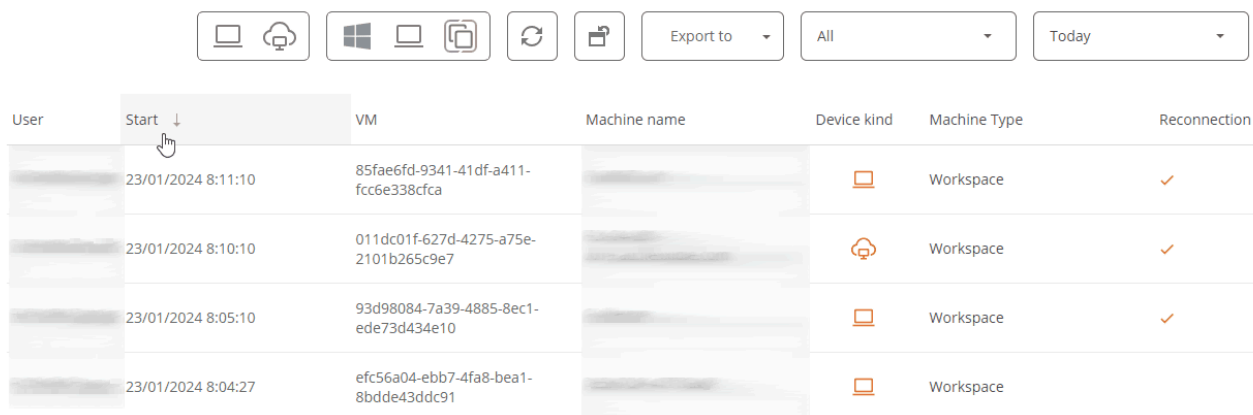
- Sort and group based on data.
- Hide columns or add others.

- Search all values in the column.
- Create a column filter or perform a filter builder, allowing conditional searches with logical functions.

Workspaces offers multiple tools in the list views to filter, search, and group the contained information; these tools include:

- [Column Sorting and Searching](#)
- [Grouping by Column](#)
- - [Column chooser](#)
- [Filter builder](#)
- [Filter management](#)
- [Available operations](#)
- [Detail views](#)




Column Sorting and Searching



User	Start ↓	VM	Machine name	Device kind	Machine Type	Reconnection
	23/01/2024 8:11:10	85fae6fd-9341-41df-a411-fcc6e338cfca			Workspace	✓
	23/01/2024 8:10:10	011dc01f-627d-4275-a75e-2101b265c9e7			Workspace	✓
	23/01/2024 8:05:10	93d98084-7a39-4885-8ec1-ede73d434e10			Workspace	✓
	23/01/2024 8:04:27	efc56a04-ebb7-4fa8-bea1-8bdde43d434e10			Workspace	✓







By clicking on one of the column headers, you can sort the values; with a right-click, you can open the context menu and activate **Filter row** to filter the content of that column within the value options.

Grouping by Column

User	Start ↓	VM	Machine name	Device kind	Machine Type	Reconnection
					Workspace	✓
					Workspace	✓
					Workspace	✓

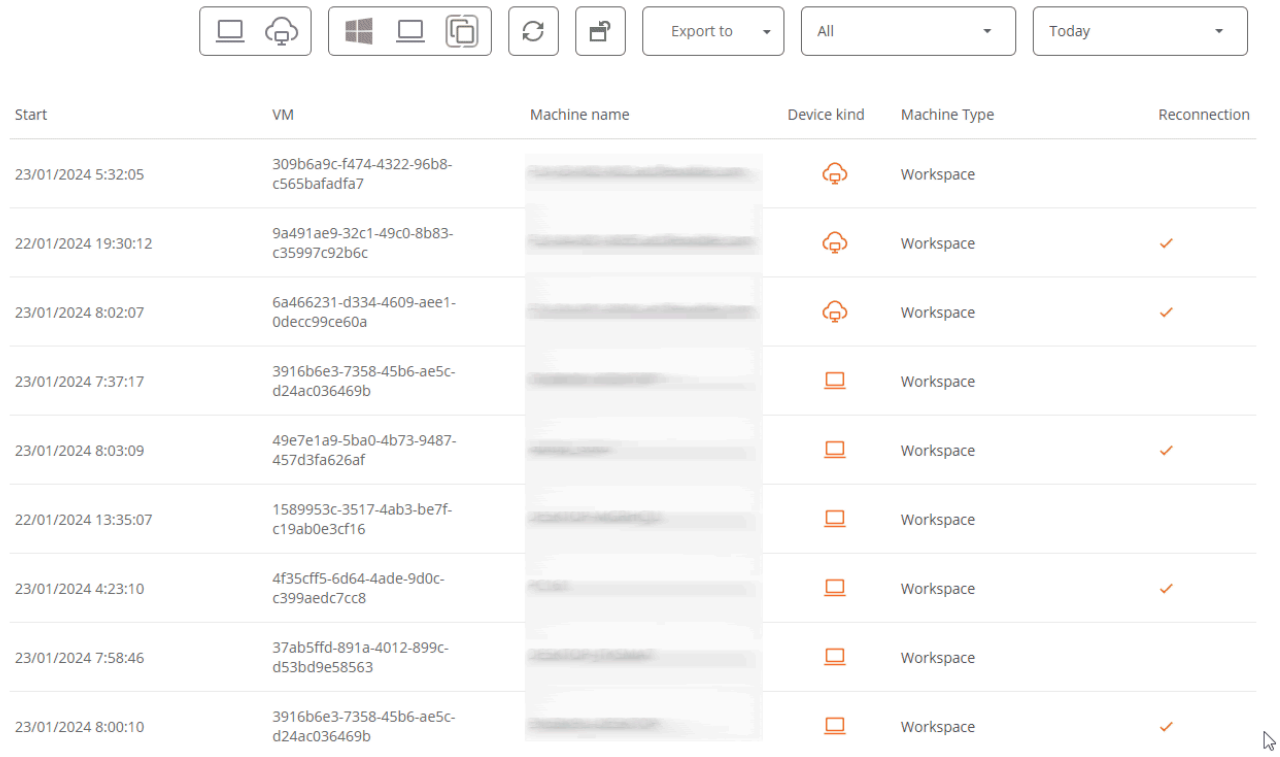
To group records based on the fields of a column, right-click on **Group by this column**. This will create a group of records for each value of the column field used.

Column chooser

User	Start ↓	VM	Machine name	Device kind	Machine Type	Reconnection
	23/01/2024 8:11:10	85fae6fd-9341-41df-a411-fcc6e338cfca			Workspace	✓
	23/01/2024 8:10:10	011dc01f-627d-4275-a75e-2101b265c9e7			Workspace	✓
	23/01/2024 8:05:10	93d98084-7a39-4885-8ec1-ed73d434e10			Workspace	✓
	23/01/2024 8:04:27	efc56a04-ebb7-4fa8-bea1-8bdde43ddc91			Workspace	
	23/01/2024 8:03:09	49e7e1a9-5ba0-4b73-9487-457d3fa626af			Workspace	✓
	23/01/2024 8:02:07	6a466231-d334-4609-ae1-0decc99ce60a			Workspace	✓

By right-clicking on the header of any column, you can access the advanced menu and **Column chooser**. This option allows you to modify the columns displayed in the header, adding or removing column headers.

Filter builder



Start	VM	Machine name	Device kind	Machine Type	Reconnection
23/01/2024 5:32:05	309b6a9c-f474-4322-96b8-c565bafadfa7			Workspace	
22/01/2024 19:30:12	9a491ae9-32c1-49c0-8b83-c35997c92b6c			Workspace	✓
23/01/2024 8:02:07	6a466231-d334-4609-ae1-0decc99ce60a			Workspace	✓
23/01/2024 7:37:17	3916b6e3-7358-45b6-ae5c-d24ac036469b			Workspace	
23/01/2024 8:03:09	49e7e1a9-5ba0-4b73-9487-457d3fa626af			Workspace	✓
22/01/2024 13:35:07	1589953c-3517-4ab3-be7f-c19ab0e3cf16			Workspace	
23/01/2024 4:23:10	4f35cff5-6d64-4ade-9d0c-c399aedc7cc8			Workspace	✓
23/01/2024 7:58:46	37ab5ffd-891a-4012-899c-d53bd9e58563			Workspace	
23/01/2024 8:00:10	3916b6e3-7358-45b6-ae5c-d24ac036469b			Workspace	✓

Filter builder allows you to construct filters by multiple criteria (inclusive and exclusive), analyze the content of fields, and nest queries.

Filter management

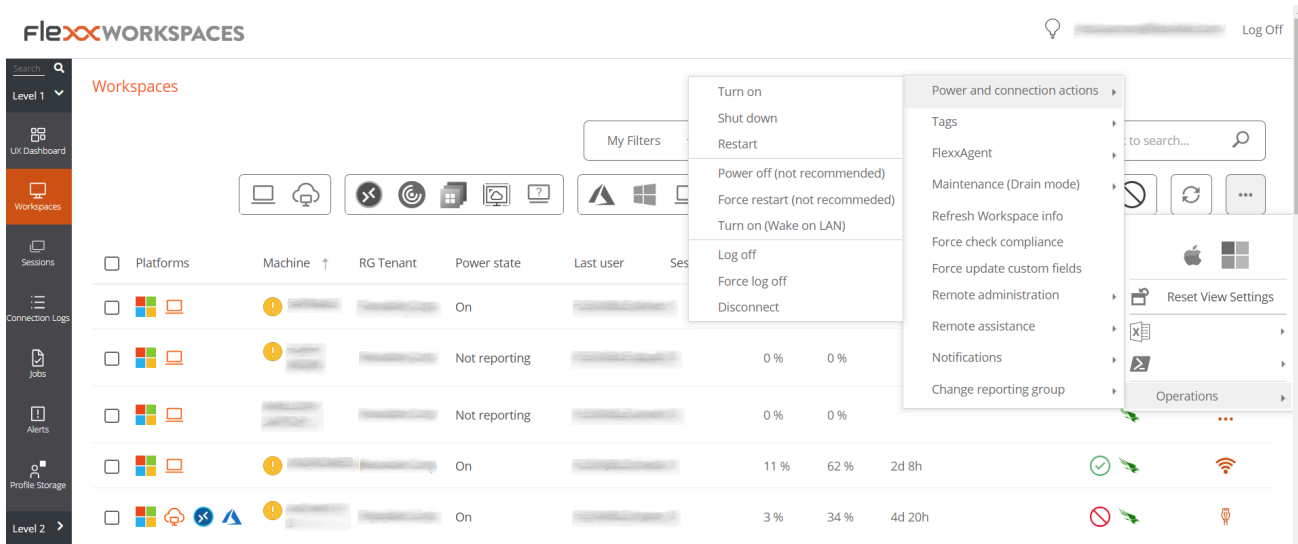
The **My Filters** button allows access:

- Default filters: filters included by default with Workspaces.
- User filters: filters saved by the user.
- User filter management options to save, modify, or delete.
- Opción de filtrado por unidad organizativa (OU)
- Opción de filtrado por sistema operativo (SO)
- Opción de filtrado por aplicación instalada

Below are the buttons that allow:

- Reset the default list view.
- Export the list: allows exporting the list with all details, in *.csv or *.xlsx format.
- Operations: centralizes various actions to facilitate device management.

Available operations



Depending on the list view from which the **Operations** button is activated, different actions will be accessed, such as shutting down the device, logging off the user, or sending a notification or remote support, among others.

Next to the operations button is the button to run microservices on demand.

Detail Views

Clicking on an individual item from a list view will display detailed information. The data is organized into inventory information blocks at the top of the screen; at the bottom, the information is segmented into tabs to facilitate navigation.

flexxWORKSPACES
All tenants ▼ 💡 [Avatar] Log Off

Search 🔍

Level 1 ▼

Dashboard UX 📄

Workspaces 🖥️

Sessions 📅

Connection logs 📋

Jobs 📁

Alerts 🚨

Profile storage 📁

Level 2 ▶

CMDB ▶

⚙️

Session \[Avatar].com


🔄
Operations ▼
◀
▶

GENERAL

User	Machine 📄	Session type 📄	Start date 📄	Connected from 📄	Connected 📄
F[Avatar]	fi[Avatar].com 🔗	Workspace	18/01/2024 9:43:12		Yes
Device kind 📄	Session analyzer 📄	Subscription/Broker 📄	Pool / Catalog 📄	Delivery group 📄	
Virtual 🖥️	Running	[Avatar] 🔗	M[Avatar] P[Avatar]toria	[Avatar] 2 - lting	

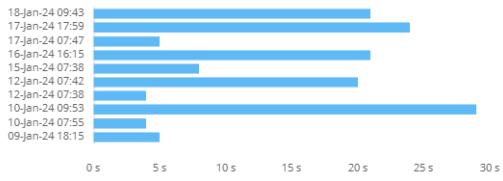
Connections Profile storages Performance Logon info Notifications

Last logon duration 📄



AppX Load packages	9,36 s	Logon Tasks	8,53 s
Start Layout Init	6,25 s	Pre-Shell	4,98 s
Group Policy	4,37 s		

User logon history 📄



18-Jan-24 09:43	22 s
17-Jan-24 17:59	25 s
17-Jan-24 07:47	5 s
16-Jan-24 16:15	22 s
15-Jan-24 07:38	10 s
12-Jan-24 07:42	20 s
12-Jan-24 07:38	5 s
10-Jan-24 09:53	5 s
10-Jan-24 07:55	28 s
09-Jan-24 18:15	5 s

Workspaces / Level 1

FlexxWORKSPACES Log Off

Search Level 1

Workspaces

My Filters | Filter by tag | Filter by workspace group | Text to search...

<input type="checkbox"/>	Platforms	Machine ↑	RG Tenant	Power state	Last user	Sessions	CPU	% RAM	Uptime	Code	Status	Connection
<input type="checkbox"/>				On			26 %	96 %	15h 49m			
<input type="checkbox"/>				Not reporting			0 %	0 %				
<input type="checkbox"/>				Not reporting			0 %	0 %				
<input type="checkbox"/>				On			11 %	62 %	2d 8h			
<input type="checkbox"/>				On			3 %	34 %	4d 20h			

Level 2 >

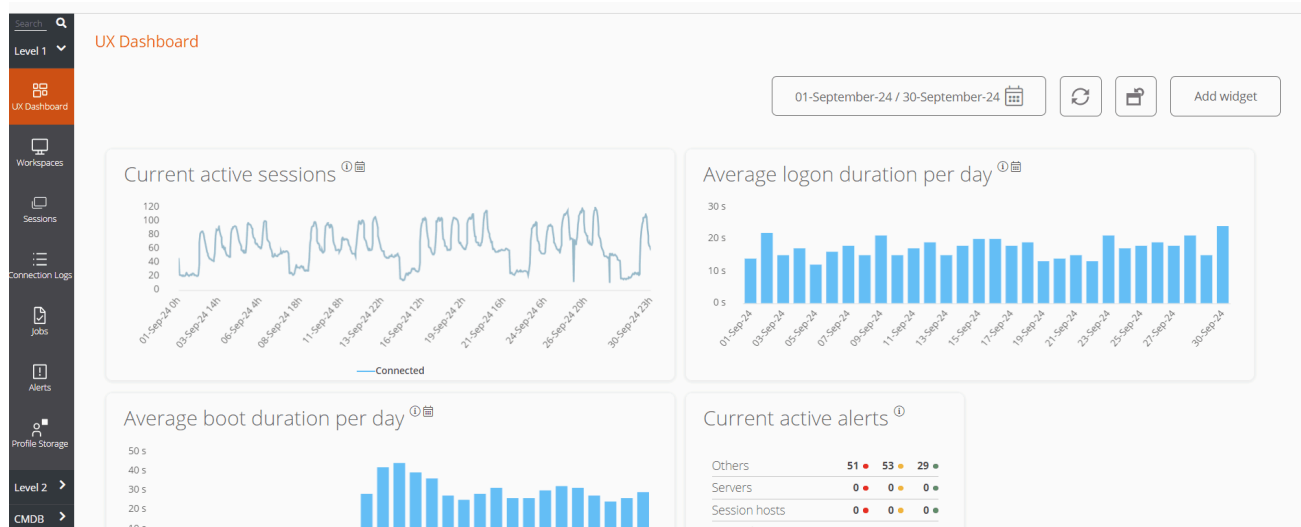
It gathers the tools for the teams that have the most direct contact with end users. It includes views of Dashboard UX, Workspaces, Sessions, Connections Logs, Jobs, Alerts, and Profile Storage.

Functionalities available at this level:

- [UX Dashboard](#)
- [Workspaces](#)
- [Sessions](#)
- [Connections Log](#)
- [Jobs](#)
- [Alerts](#)
- [Profile Storage](#)

Workspaces / Level 1 / UX Panel

The Dashboard UX section allows you to graphically view the most relevant data of the environment, from inventory information, usage, locations, monitoring and much more.



The view is configurable and allows data segmentation by customer organization, date filtering, and selecting the widgets that will be part of the dashboard. The configuration of the widgets included in the dashboard, as well as their position and size, persists between user sessions, so this configuration only needs to be applied once.

Organization filtering

By default, the organization selector located at the top right of the screen has the 'All tenants' option enabled, allowing the aggregated information of all organizations the user has access to in Workspaces to be viewed. To view the data of only one organization, it must be selected.

Note: this selector is only visible when the user has access to more than one organization.

Date filtering

The date selector button allows you to apply time filters to the dashboard data:

- Predefined filters:
 - Today
 - Yesterday
 - Last 7 days
 - Last 30 days
 - This month
 - Last month
- Custom filters that allow selecting start and end date and time.

Widgets

The different information panels within the dashboard are called widgets, which can be repositioned, resized, or directly removed by clicking on the 'x' that appears when you hover over them.

Default widgets

The widgets offered by default in Workspaces are:

Current active sessions

Aggregated concurrent active user sessions on the platform over time. This widget displays data filtered according to the date selector.

Average boot duration per day

Organization average boot time (boot) of their devices. This widget displays data filtered according to the date selector.

Average logon duration per day

Organization average login time (login) of their users. This widget displays data filtered according to the date selector.

Maximum concurrent sessions

Maximum number of simultaneous sessions on the platform during the last month, last week, and today (connected and disconnected users). This widget displays data for a specific time period. Therefore, it is not filtered by the date selector.

Active alerts

Summary of simultaneous active alerts related to different environment elements. Information alerts are shown in green, warnings in yellow, and critical alerts in red. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Inactive users (last seven days)

Users who have ever connected to a session but did not connect during the previous seven days. This widget displays data for a specific time period. Therefore, it is not filtered by the date selector.

Workspace by ISP

A view of the different internet service providers in use by the workspaces. Since these are real-time data, date filtering is omitted.

Workspace by country

A view of the different countries from which the workspaces connect. Since these are real-time data, date filtering is omitted.

Number of Workspaces per Operating system

This widget shows real-time data. Therefore, it is not filtered by the date selector.

FlexxAgent version analysis

An analysis of the different versions of FlexxAgent used by the organization and selected operating system, so there is a widget for each supported operating system. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Top 5 sessions by average duration by user

Top 5 average session duration by user on the platform over time. This widget displays data filtered according to the date selector.

Current sessions capacity

Displays information about the number of sessions that can connect according to the current load in AVD (Azure Virtual Desktop) environments.

- Number of session hosts: number of session hosts in the host pool.
- Users per host: number of users that accept each session host.
- Total sessions: number of maximum sessions according with the number of session hosts and the capacity of each one.
- Available: how many new sessions can connect
- Active: current number of active sessions
- Disconnected: current number of disconnected sessions
- Load: current load percentage of the session host according with the current usage and availability. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Top 10 workspaces by current total used bandwidth

Top 10 workspaces sorted by the currently used bandwidth in KB/s. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Current session host availability

Displays information about session host availability by host pool in AVD (Azure Virtual Desktop) environments.

- Session hosts: number of session hosts. -Available: how many session hosts are ready to accept new connections.
- %: percentage of session hosts that are available.
- Sessions not allowed: number of session hosts that are in drain mode and cannot accept new connections. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Top 10 current most loaded pooled session hosts

Top 10 current most loaded pooled session hosts in AVD (Azure Virtual Desktop) environments. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Average logon duration per pool/catalog

Average logon duration of users in the group (Azure Virtual Desktop) or catalog (Citrix environments). This widget displays data filtered according to the date selector.

Top 10 workspaces by current total sessions

Top 10 workspaces sorted by the current number of sessions. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Average logon duration per operating system

Average logon duration per operating system. This widget displays data filtered according to the date selector.

Top 10 recent alerts

Top 10 most recent alerts, sorted by severity. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Top 10 workspaces by current total RAM used

Top 10 workspaces sorted by the currently used RAM in GB. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Current AVD resources

The number of Workspaces, Host pools, and app groups created in Azure Virtual Desktop. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Disconnected Sessions

Aggregated concurrent disconnected user sessions on the platform over time. This widget displays data filtered according to the date selector.

Workspaces per broker

Number of workspaces by agent, grouped by broker. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Workspace by city

A view of the different cities from which the workspaces connect. Since these are real-time data, date filtering is omitted.

Workspaces by wireless connection

A view of the different wireless connections in use by the workspaces. Since these are real-time data, date filtering is omitted.

Workspace by public ip address

A view of the different public IP addresses in use by the workspaces. Since these are real-time data, date filtering is omitted.

Workspaces per hypervisor

Number of Workspaces per hypervisor. This widget shows real-time data. Therefore, it is not filtered by the date selector.

Workspaces by operating system and build number

A ranking of operating system and build number combinations sorted by number of workspaces using each one. This widget displays data filtered according to the date selector.

Workspaces / Level 1 / Workspaces View

The Workspaces list view allows access to the list of devices that make up the organization. From there you can organize, filter, search, and send operations to the devices.

The screenshot shows the FlexxWorkspaces interface. At the top, there's a header with the FlexxWorkspaces logo, 'All tenants' dropdown, a search icon, and 'Log Off'. Below the header is a navigation sidebar on the left with options like Level 1, Dashboard UX, Workspaces (selected), Sessions, Connection logs, Jobs, Alerts, Profile storage, Level 2, and CMDB. The main area is titled 'Workspaces' and contains a table of devices. Above the table are several filter and action buttons: 'My Filters', 'Filter by tag', 'Filter by workspace group', 'Text to search...', a row of icons for various actions (like refresh, delete, edit), 'Export to', and 'Operations'.

Platforms	Machine ↑	Power state	Last user	Sessions	CPU	% RAM	Uptime	Status	Connection
[Icons]	[Machine ID]	On	[User]	1	22 %	86 %	5d 10h	✓	WiFi
[Icons]	[Machine ID]	Non reporting	[User]	0	0 %	0 %		✓	...
[Icons]	[Machine ID]	On	[User]	1	3 %	57 %	5d 23h	✓	WiFi
[Icons]	[Machine ID]	Non reporting	[User]	0	0 %	0 %		✓	...
[Icons]	[Machine ID]	Off	[User]	0	0 %	0 %		✗	...
[Icons]	[Machine ID]	On	[User]	1	3 %	82 %	2d 1h	✓	WiFi
[Icons]	[Machine ID]	On	[User]	1	1 %	66 %	2d 8h	✓	WiFi
[Icons]	[Machine ID]	On	[User]	0	1 %	33 %	5d 11h	✓	WiFi

Filtering

The information displayed on the screen can be customized by adding or removing columns of information using [Column chooser](#) and saving the filters used for future queries in the user profile.

Header filtering options

At the top of the screen, there are tools, icons for each attribute that allow you to filter the list based on the following criteria:

- Device technology filter:
 - Device kind: physical or virtual
 - Session broker used: Citrix, RDP or unknown
 - Hypervisor: Hyper-V, Nutanix, vSphere, physical or unknown
- Device state filter:

- The device has active notifications.
- The device is off.
- The device is in an unknown state for the broker.
- The device is in OK state.

Once a device is selected, or through multiple selections, the **Operations** button gives access to perform various tasks such as **Power and connection actions** or send **Notifications** to users. You can check the details of these functionalities in the section **Available actions**.

In **My filters** there are also additional filtering options that allow selecting devices according to the applications installed on them.

List filtering options

The filtering options for the list view are available at [Opciones de filtrado del listado](#).

Filter management

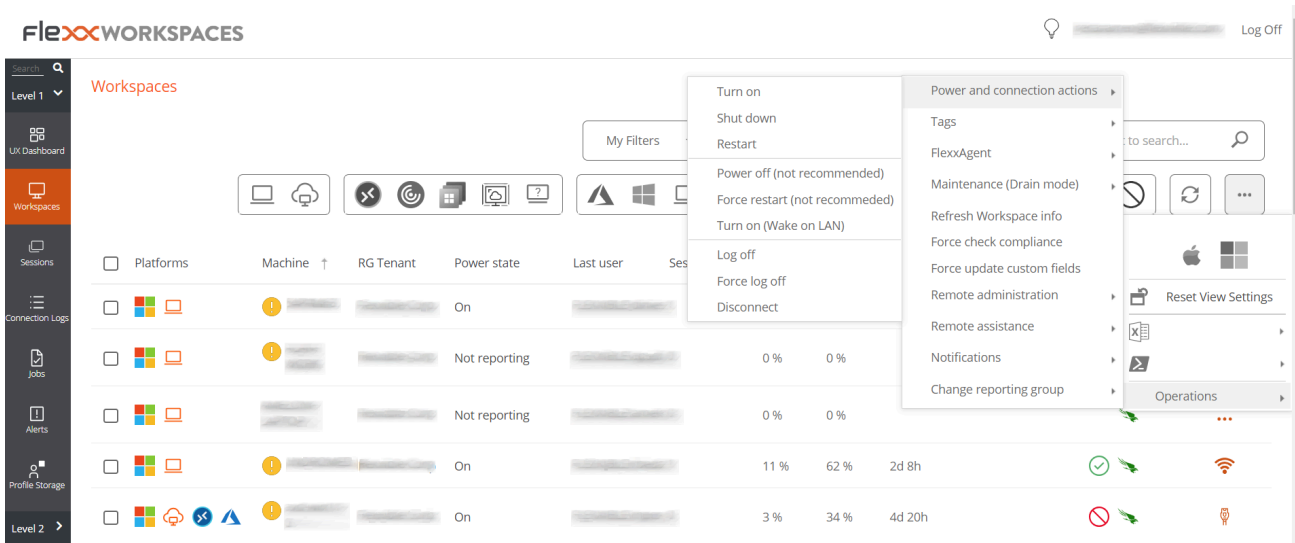
Filters created through interface options can be saved as user filters. They are located along with the predefined filters in the [My filters](#) option

Microservices execution

From the **>-** button it is possible to execute any microservice enabled for the organization that has **System** as the configured context. This allows the execution of microservices with administrative permissions on the devices. The actions of enabling, creating, modifying, or deleting microservices are performed from the Portal.

Available operations

Depending on the view from which the **Operations** button is activated (list view or detail view), access to different actions will be granted.



Operations from the list view

From the Workspaces list view, the following operations can be performed on selected devices.

Power and connection actions

- Power on: only available for devices with an associated broker.
- Power off the device.
- Reboot the device.
- Force power off: only available for devices with an associated broker.
- Force reboot: only available for devices with an associated broker.
- Power on (Wake On LAN): only available for physical devices that are compatible and configured to support wake-on-LAN.
- Log off user.
- Force log off user.
- Disconnect user session.

Tags

Tags are keywords that can be assigned to one or more devices that share some common characteristic, in order to recognize and organize them for efficient management.

To assign one or more tags, first select the devices you want and then, in **Operations**, click **Add**. From here, the available tags, if any, will be displayed so they can be associated with the device.

From **Edit** you can change the tag or assign another to the device. And **Delete** disassociates a tag from this.

The **Filter by tag** option in the top menu of the Workspaces list view allows filtering devices by tag name so that actions can be performed on them simultaneously.

FlexxAgent

Allows updating the agent on the selected devices to the latest version available.

Maintenance (drain mode)

Only available for devices with an associated broker, it allows configuring maintenance mode (Citrix) or Drain (AVD) mode, which inhibits the login for new users on the configured hosts.

Refresh Workspace info

Allows refreshing data for the selected virtual devices with the Citrix and/or Azure broker, easily updating the brokering information of the device, and is very helpful in diagnosing **Unavailable** or **Unregistered** states.

This operation does not act on physical devices. And it requires configuring a subscription to the broker from Workspaces.

Force compliance check

Forces regulatory compliance evaluation at the moment and allows evaluating compliance on the device after making the necessary corrections, without waiting for the refresh time configured in the regulatory settings.

Force update custom fields

Forces the retrieval of custom fields configured in settings. This option allows updating on demand, without waiting for the refresh configured in settings.

Remote Administration

Allows running the Microsoft remote connection, delivering an .rdp or .rdg file. This option is only available for environments connected to Azure Virtual Desktop subscriptions and with Workspace console deployment within the same subscription (also requires network level connectivity Workspace -> Session Hosts).

Remote Assistance

Allows launching remote assistance to users in interactive mode, which requires user consent to view and take control of their session; or execute unattended remote assistance desatendida, which allows administrative access to server or self-service type devices that do not necessarily have a user on the other side of the screen.

Machine type

Allows defining the device type for selected devices so they can be organized in different console views. Available options:

- **Workspace:** type of physical device used by a user. It is visible in the **Workspaces** section.
- **Workspace (AVD Session Host):** type of virtual device hosted in Azure Virtual Desktop used by a user. It is visible in the **Workspaces** section.
- **Server:** type of physical or virtual device that serves multiple users within the organization or its infrastructure. It is visible in the **Servers** section.
- **Hidden:** allows hiding a device from all lists.

Notifications

Allows sending notifications to selected devices. These can be pop-up notifications or those that reserve part of the screen.

Change reporting group

This option allows changing the selected devices' reporting group. When changing, the target reporting group configuration will be applied, which includes:

- Remote Assistance configuration
- Organization users with access and/or visibility
- Associated patching policy

If the user changing the report group on the devices has access to more than one organization, they can also "move" the devices to a report group in another organization.

Workspaces / Level 1 / Workspaces / Detail view

Clicking on any record from the list of workspaces takes you to the device detail view. The interface is structured into four sections:

The screenshot shows the FlexxWorkspaces detail view. The interface includes a sidebar with navigation options and a main content area. The main content area is titled "General" and displays a table of workspace details. The table has columns for Name, Summary status, Power state, FlexxAgent version, FlexxAgent status, and FlexxAgent last report. Below the table, there are sections for Connection (Ethernet), Sessions (1), Code, and OU.

Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent last report
[Redacted]	On	On	24.9.1.1	Working	10/10/2024 23:15:06

Connection: Ethernet

Sessions: 1

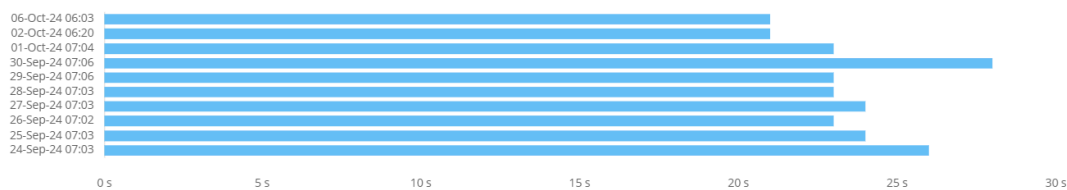
Code

OU

- Available actions at the top
- General information
- Extended information
- Specific information segmented into tabs at the bottom

Alerts Event log Connection logs Windows services Disks **Boot history** Notifications Security Compliance Group Policy (GPO) PnP Devices System Summary

Boot duration



Available actions

The detail view allows you to perform the same actions on the active device as in the list view, except for updating FlexxAgent, as well as other actions that are only available in this view.

Available actions:

- Microservices execution.
- Perform actions included in the **Operations** button.

Microservices execution

From the **>-** button it is possible to execute any microservice enabled for the organization that has **System** as the configured context. This allows the execution of microservices with administrative permissions on the devices. The actions of enabling, creating, modifying, or deleting microservices are performed from the Portal.

Operations

From the detail view of a device you can perform the same **Operations** as in the list view, as well as **Edit**, **Session Analyzer log tracking** and **OS Patching**.

Edit

This operation allows the user to assign an identification code to a workspace and/or a description.

The screenshot shows the FlexxWorkspaces interface. On the left is a navigation sidebar with icons for Level 1, UX Dashboard, Workspaces, Sessions, Connection Logs, Jobs, Alerts, and Profile Storage. The main area is titled 'Workspace' and shows a 'General' section with a table of device information. The 'Operations' menu is open, showing options like 'Power and connection actions', 'Tags', 'Edit', 'FlexxAgent', 'Maintenance (Drain mode)', 'Force check compliance', 'Force update custom fields', 'Remote administration', 'Remote assistance', 'Notifications', and 'Change reporting group'. The 'Edit' option is highlighted.

Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent last ref
	On	On	24.9.1.1	Working	10/10/2024 23:2

Connection	Network	Subnet	MAC address	Network changed
Ethernet				18/09/2024 17:07:41

Sessions	Last user	Connected from	Connection time	Domain
1				

Code:
 OU:

The code allows associating the device with an inventory item. To edit it, click on **Operations** -> **Edit** -> **Code**.

The **Description** field allows adding free text as a description or notes to the device.

When the code and/or description are defined, they will be visible in the general information block of the device, and it will be possible to filter by these fields in the list views.

Session Analyzer trace logging

FlexxAgent Analyzer logs can be configured to include or exclude information by criticality levels. From **Operations** -> **Session Analyzer trace logging** you can manage the log level change for FlexxAgent Analyzer.

! analog

These logs are stored in the directory **%LOCALAPPDATA%\FAAgent\Loggs**.

OS Patching

This option allows managing the patching of the device that has Windows as the operating system.

The screenshot shows the FlexxWORKSPACES interface. The 'General' tab is active, displaying a table of workspace information. The table has columns for Name, Summary status, Power state, FlexxAgent version, FlexxAgent status, and FlexxAgent last report. Below this, there are sections for Connection (Subnet, MAC address, Network changed), Sessions (Last user, Connected from, Connection time, Domain), and Wireless network (Network signal, Code). An 'Operations' menu is open, showing various actions. A sub-menu for 'OS Patching' is also visible, containing 'Get pending patches', 'Get installed patches', and 'Patch OS now'.

Available options:

- **Get pending patches:** retrieves, in list format, the patches available for installation on the device.
- **Get installed patches:** retrieves, in list format, the patches installed on the device.
- **Patch now:** installs the pending patches on the device.

For all patches, **Id**, **Installation/publication date**, **Severity**, and the **Title** or **name** of the package are obtained.

General

The general information block of the device contains:

- **Name:** hostname of the device
- **Status:** power status (on - off)
- **FlexxAgent Version:** FlexxClient version number
- **FlexxAgent Status:** Execution status of FlexxAgent (running - stopped)
- **FlexxAgent Last Report Date:** date of the last report received from FlexxAgent on the device
- **Connection Type:** type of connection used by the device (ethernet - wireless)

- **Subnet:** network addressing
- **MAC Address:** MAC identifier
- **Network Changes:** indicates if the device has recently changed its network configuration
- **Number of sessions on the device:** number of user sessions established on the device in `Connected` or `Disconnected` state
- **Last User:** last user connected to the device in domain\account format
- **Connected from:** when the selected device is a VDI or similar, it shows the name of the endpoint from which the virtual device is accessed
- **Connection Time:** connection date
- **Domain:** domain to which the device belongs
- **OU:** organizational unit in the domain where the device's account resides

Extended

The extended information block of the device contains:

- **RAM:** total amount of RAM
- **Cores:** number of processor cores
- **IP Address:** IP address of the device
- **OS:** operating system
- **Operating system:** operating system version
- **OS Build:** operating system build number
- **Uptime:** time the workspace has been running since the last start or restart. Es importante tener en cuenta que si el inicio rápido (fastboot) está habilitado, el workspace solo está apagado cuando se reinicia.
- **Idle Time:** the time elapsed since the last input event was received in the user session. Shows 0 if the user is actively using any input device connected to the workspace.
- **Last Windows Update:** last patch application date
- **Duración del último arranque:** duración del arranque (boot) del último inicio
- **Pending reboot:** determines if the device has a pending reboot to apply updates.
- **Google Chrome Version:** Google Chrome build number, if installed.

- **Microsoft Edge Version:** Microsoft Edge build number, if installed.

Tabs

The tabs at the bottom show grouped specific information. The following are included:

Sessions

This tab offers a list view for the user sessions established on the device. They can be active or inactive (user disconnected).

Sessions Performance Jobs Alerts Event log Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices

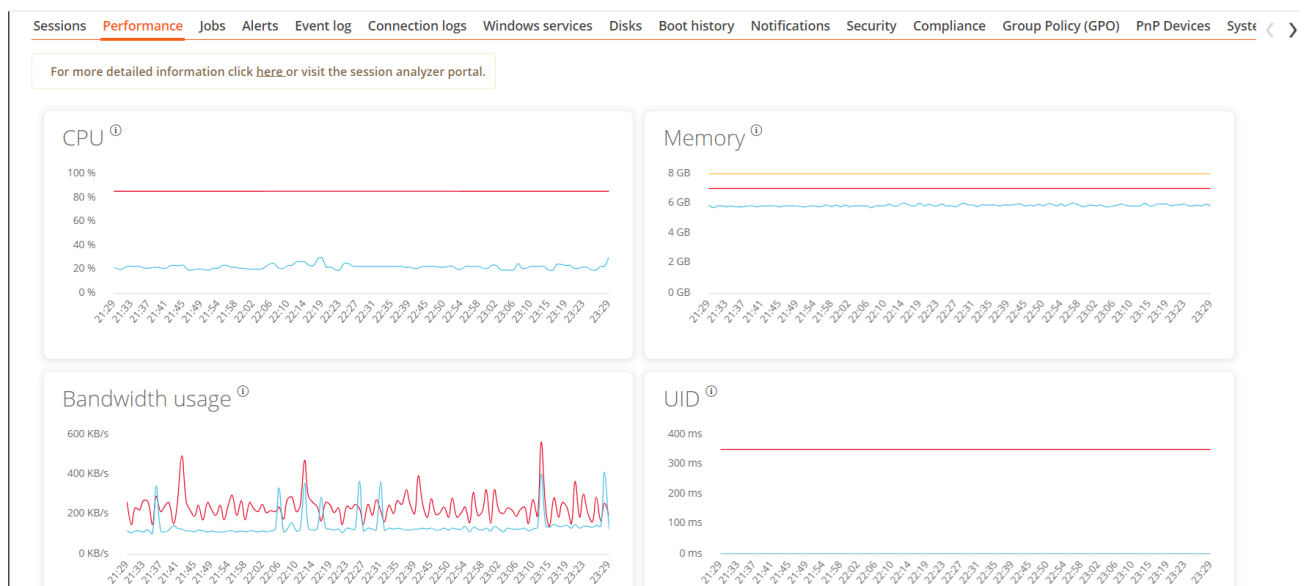
USER Session type Id Connection state Start Date CPU RAM RTT Status

<input type="checkbox"/>	[REDACTED]	Workspace	1	Active	15/07/2024 17:13:55	0 %	2,15 GB	31 ms	
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Count=1

Performance

This tab groups graphs of the main performance counters for the last two hours.





The following graphs are included:







- **CPU:** processor usage percentage
- **Memory:** amount of memory used and available
- **Bandwidth Usage:** amount of incoming and outgoing traffic
- **UID:** user input delay. Refers to the time lapse between the moment a user performs an action, such as clicking a mouse button or pressing a key, and the moment the corresponding response is displayed on the screen or executed.
- **Connection Signal:** signal reception percentage when the device connects via a wireless method.

At the top of the tab, a link allows direct access to the diagnostic view for the active device in Analyzer.

Jobs

Sessions Performance **Jobs** Alerts Event log Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices System < >

Info	Status	Creation date ↓	Start time ↓	End time	Owner
	✓ Completed	25/09/2024 18:29:56	25/09/2024 18:29:56	25/09/2024 18:30:05	
	✓ Completed	19/07/2024 10:38:47	19/07/2024 10:38:47	19/07/2024 10:38:57	
	✓ Completed	19/07/2024 9:30:45	19/07/2024 9:30:45	19/07/2024 9:31:02	

Count=3

< 1 >

Page size 20

All actions performed from Workspaces on one or more devices are audited in the job queue. This tab allows you to check the jobs performed for the active device without having to go to the jobs section.

Alerting

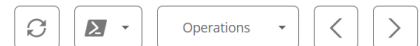
Sessions Performance Jobs **Alerts** Event log Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices System < >

Alert definition ↑ Information Alert status Alert start Date notified Element Severity User

No data to display

Count=0

This tab shows a list of all active alerts, if any, for the active device. When a device has an active alert, a message is also displayed at the top of the screen.



Active alerts:
- [Critical] Low storage free space % for Workspace: Drive: C: Free space: 2 GB, Used Percentage: 98%

General

Events Log

Sessions Performance Jobs Alerts **Event log** Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices System < >

Today

Event log data collection is enabled. Event types: Error and Critical, Event (from agents with version >= 22.10.0.0), Frequency: 10 minutes.

Date ↓	Level	Source	Event ID	Message
10/10/2024 22:07:29	Error	Microsoft Office 16 Alerts	300	Failed to parse element: VersionOverrides StoreId=(null) P1: Apps for Office P4: New Document
10/10/2024 22:07:29	Error	Microsoft Office 16 Alerts	300	Failed to parse element: VersionOverrides StoreType=Unknown, StoreId=(null) P1: Apps for Office

This tab presents information about the log events on the device. By default, it filters errors and only shows those with severity **Error** or **Critical**. They are retrieved from the device at 10-minute intervals.

Using the options available in the configuration, it is possible to modify the sampling time or include specific events by their ID.

Connection log

<input type="checkbox"/>	Start ↓	End	Endpoint	Reconnection
<input type="checkbox"/>	10/10/2024 14:07:10	11/10/2024 0:07:10		✓

Count=1

This tab contains information about the connections to the device, meaning each time a user starts or reconnects a disconnected session.

The session end date is only reported for disconnected or closed sessions; while the session remains active, the session end date will remain empty.

Windows services

<input type="checkbox"/>	Display name ↑	Status	Startup type	Log on as	Ac
<input type="checkbox"/>	Actualizador de zona horaria automática	Stopped	Disabled	NT AUTHORITY\LocalService	
<input checked="" type="checkbox"/>	Administración de aplicaciones	Stopped	Manual	LocalSystem	No

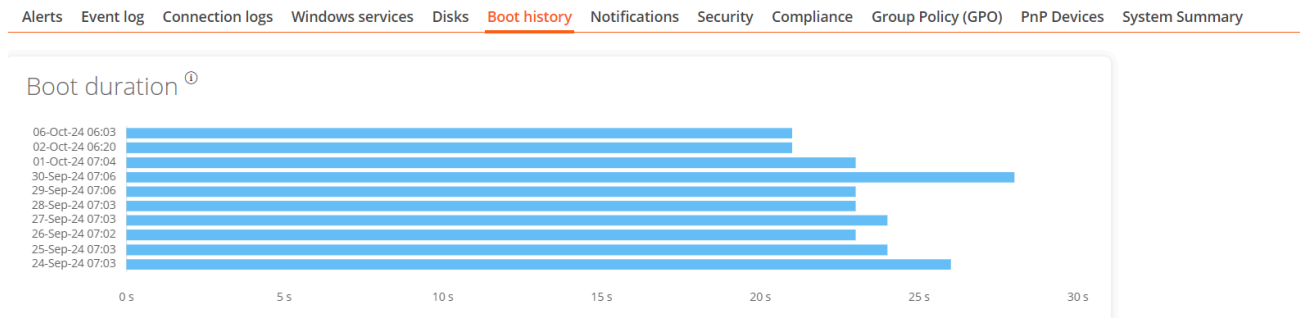
This tab allows viewing the status of the services and performing operations to start, restart, or stop Windows services.

Disks

<input type="checkbox"/>	Device ID ↑	Name ↑	Volume label	Total size	Used size	% Used	OS	Location	Partition	Physical disk size
<input type="checkbox"/>				250 MB	0 MB	0 %		Integrated : Bus 0 : Device 14 : Function 0 : Adapter 0 : Port 3 : Target 0 : LUN 0	Disco #0, partición #0	MB
<input type="checkbox"/>				1.333 MB	0 MB	0 %		Integrated : Bus 0 : Device 14 : Function 0 : Adapter 0 : Port 3 : Target 0 : LUN 0	Disco #0, partición #2	MB
<input type="checkbox"/>				1.438 MB	0 MB	0 %		Integrated : Bus 0 : Device 14 : Function 0 : Adapter 0 : Port 3 : Target 0 : LUN 0	Disco #0, partición #3	MB

This tab offers a list view of all the partitions present on all disks identified in the system, as well as statistics on their capacity and occupation levels.

Boot history



Esta pestaña permite ver una gráfica de registros históricos del tiempo ocupado en el arranque (boot) del dispositivo.

Notifications

Sesiones Rendimiento Trabajos Alertas Registro de eventos Registros de conexiones Servicios de Windows Discos Historial de arranque **Notificaciones** Seguridad Directiva de grupo (GPI) < >

🔒 📄 Active & scheduled

Gravedad	Fecha de inicio	Solicitar aceptación	Mensaje
● Mantenimiento	17/07/2024 16:28:00	✓	Se realizarán tareas de mantenimiento en los servidores de ficheros a partir de las 17hs. por favor guarda los cambios pendientes y cierra los archivos abiertos, de otra forma, se perderán los cambios no guardados.

Allows seeing if the device has any active notifications and its configuration. When there are active notifications, a notice is also displayed at the top of the page.

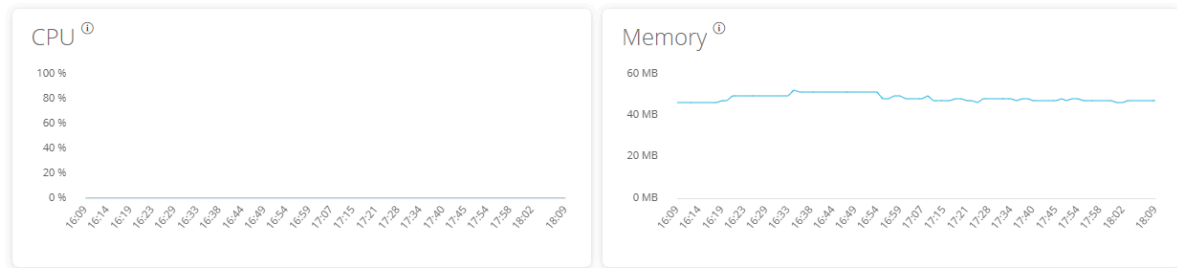
Security

FlexxAgent will detect if a device has CrowdStrike Falcon installed and display the information on the **EDR** tab of the device detail view. There you can check the installed version, the correct or incorrect execution status, as well as the CPU and memory resource usage.

Sessions Performance Jobs Alerts Event log Connection logs Windows services Disks Boot history Notifications **EDR** Compliance Group Policy (GPO) PnP Devices



EDR ⓘ
CrowdStrike (7.06.17807.0)

CrowdStrike status
✔ Installed and working



Detections

 Export to ▾


<input type="checkbox"/>	Severity	Created	Username	Status	Displayname	Description	Cmdline ↑
<input type="checkbox"/>	High	13/02/2024 12:35:17		Active	ProcAccessLsass	An unusual process accessed lsass. This might indicate an attempt to dump credentials. Investigate t	"C:\Users\user\OneDrive\user\pdu\ /SpecialRun 14001bb98 17576
<input type="checkbox"/>	High	19/01/2024 11:16:49		Active	ProcAccessLsass	An unusual process accessed lsass. This might indicate an attempt to dump credentials. Investigate t	"C:\Users\user\OneDrive\user\pdu\ /SpecialRun 14001bb98 24036

Count=2

If you also want to capture detections to display them in Workspaces, you must configure the access data through API to the CrowdStrike Falcon instance in the **CrowdStrike** section of **Level 3** -> **Messaging service (IoT Hub)**.

Compliance



Sessions Performance Jobs Alerts Event log Connection logs Windows services Disks Boot history Notifications Security **Compliance** Group Policy (GPO) PnP Devices System < >

Compliance  Compliant Last execution 21/07/2024 12:29 Microservice Compliance Test

Allows viewing the status of the compliance policy configured for the active device. In the available actions at the top, by accessing the **Operations** button, there is the action **Enforce Compliance** to update this field on demand.

Group Policy (GPO)

Note: GPO info update interval is 10 minutes.

Type ↑	Display name ↑	Last application time
[Redacted]	[Redacted]	10/10/2024 22:35
[Redacted]	[Redacted]	10/10/2024 22:35
[Redacted]	[Redacted]	10/10/2024 22:35
[Redacted]	[Redacted]	10/10/2024 22:35
[Redacted]	[Redacted]	10/10/2024 22:35
[Redacted]	[Redacted]	10/10/2024 22:35



This tab shows information about the group policies applied on the active device. Allows you to view the names of the policies as well as the verification time.

PnP Devices

This tab allows viewing at the top the PnP devices that are in an error state, which could be due to hardware or driver malfunctions or an incorrect configuration of the device or its driver.

Device manager entries with error state

FlexxAgent last PnP devices update
17/07/2024 15:03:44


Operations ▾




<input type="checkbox"/> Name ↓	Detection date	Class	Device ID
<input type="checkbox"/> Cisco AnyConnect Virtual Miniport Adapter for Windows x64	27/11/2023 13:51:47	Net	ROOT\NET\0000

Count=1

< 1 >

Page size 20 ▾

PnP events

<input type="checkbox"/> Action	Date ↓	User	Caption	Device ID
<input type="checkbox"/> Plugged in	17/07/2024 16:01:37	[Redacted]	Generic PnP Monitor	DISPLAYCTX0466\2&123C1CA0&0&UID1
<input type="checkbox"/> Unplugged	17/07/2024 14:40:22	[Redacted]	Generic PnP Monitor	DISPLAYCTX0466\2&123C1CA0&0&UID1

All PnP events are recorded at the bottom of the tab. Each time a peripheral device is connected or disconnected, a record is generated in this table with the device's

information.

System Summary

This tab shows system information for Windows devices. Includes:



Field	Detail
OSVersion	Operating system version number
OtherOSDescription	Additional description of the current operating system version (optional)
OSManufacturer	Nombre del fabricante del sistema operativo. In the case of Windows-based systems, this value is "Microsoft Corporation"
SystemModel	Product name given by a manufacturer to a piece of equipment
SystemType	System running on the Windows-based equipment
SystemSKU	Stock keeping unit (SKU) product information (optional)
Processor	Name, number of cores, and number of logical processors of the processor
BIOSReleaseDate	BIOS Release Date
EmbeddedControllerVersion	Primary and secondary firmware versions of the embedded controller, separated by "."
BaseBoardManufacturer	Name of the organization responsible for manufacturing the physical device

Field	Detail
BaseBoardProduct	Manufacturer-defined part number for the motherboard
BaseBoardVersion	Version of the physical device
PlatformRole	Type of chassis where Unspecified = 0, Desktop = 1, Mobile = 2, Workstation = 3, EnterpriseServer = 4, SOHOServer = 5, AppliancePC = 6, PerformanceServer = 7, MaximumValue = 8
WindowsDirectory	Operating system's Windows directory
SystemDirectory	Operating system's system directory
BootDevice	Name of the disk drive from which the Windows operating system starts
Locale	Name Identifier of language used by the operating system
TimeZone	Name of the operating system time zone
PageFileSpace	Actual amount of disk space allocated for use as a page file, in megabytes
PageFile	Name of the page file
BIOSMode	Device boot mode (BIOS or UEFI)
SecureBootState	Secure boot mode status (Off, On)

Reporting groups history

This tab allows viewing which reporting groups the device being queried belongs to, the inclusion date, and whether the group was assigned manually or automatically.

Event log Connection logs Windows services Disks Boot history Notifications Compliance Group Policy (GPO) PnP Devices System Summary **Reporting groups history** < >

Date ↓	Assignment type	Source	Destination
04/11/2024 20:15:03	Automatic	FlexxDesktop Edge	FlexxDesktop Edge
28/10/2024 10:16:59	Automatic	FlexxDesktop Edge	FlexxDesktop Edge

Count=2

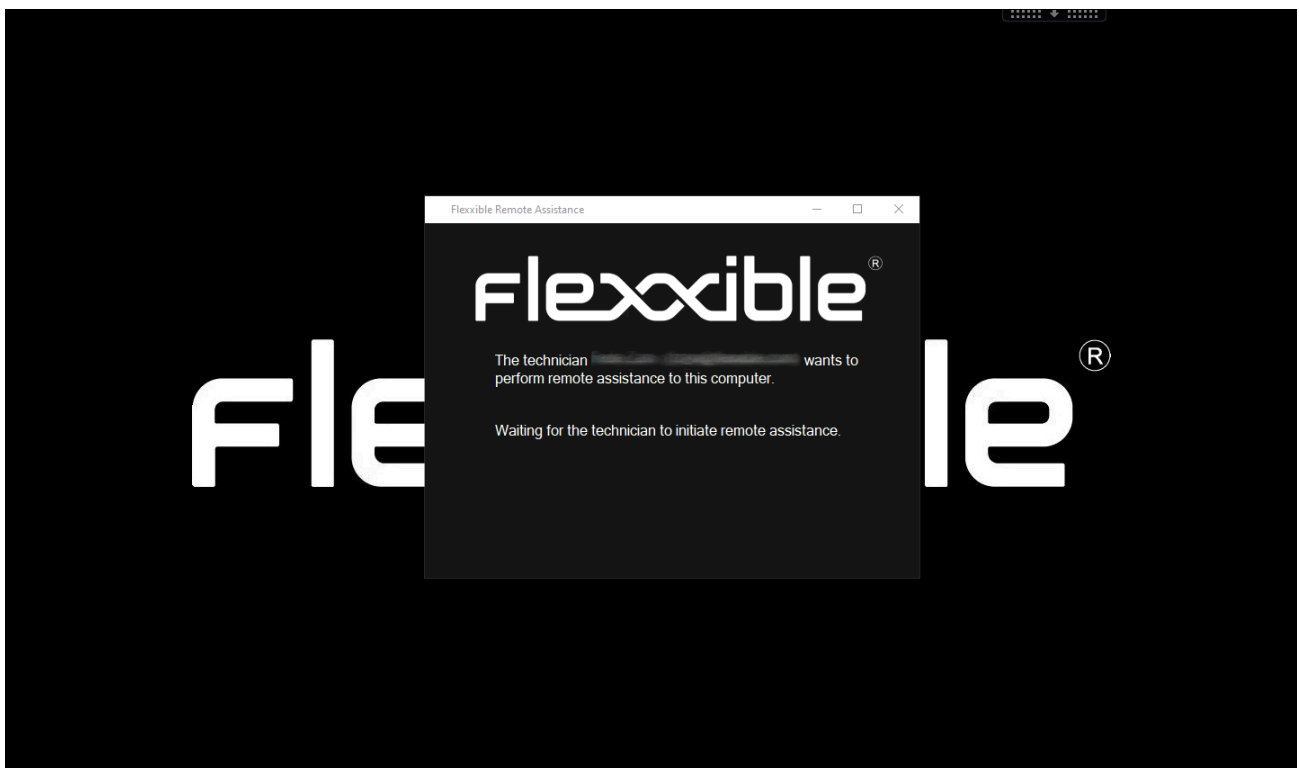
< 1 >

Page size 20 ▾

Workspaces / Level 1 / Workspaces / Remote Assistance

Workspaces includes remote assistance tools so that an operator can efficiently access a device and take control of the user's session to solve problems and make system changes.

The operator can manage all the applications the user sees, including those requiring elevated permissions, launched with *Run as administrator* or executed under User Account Control (UAC).



Features of remote assistance

- It supports all types of sessions, such as users on physical devices, VDIs, shared desktops, and even in virtualized application environments.
- Remote assistance works with or without a proxy, but only with unauthenticated proxies; it does not support authenticated proxies.

- It is designed to cover end-user devices and devices that do not have a user in front of them, like servers or kiosk-type customer service devices.
- It supports devices running Windows as an operating system.
- Thanks to its configuration options, it can be used for quick remote assistance sessions with users and as a remote access mechanism to infrastructure devices, like servers.

! INFO

To minimize the attack surface, exploit vulnerabilities, and maintain device security, FlexxAgent does not install any additional software, so there is no service "listening" for incoming connections. The process runs only (without installation) in real-time when requested from Workspaces.

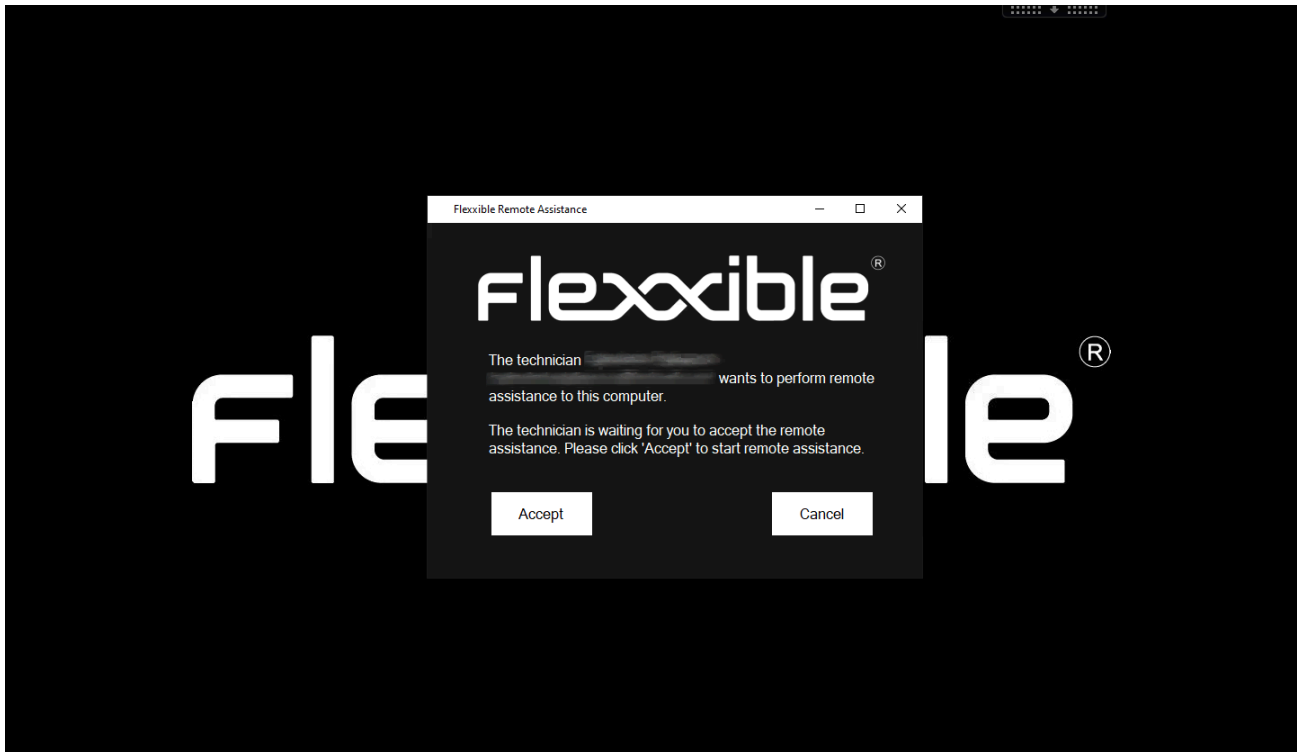
Types of remote assistance

There are three types of remote assistance:

- [Interactive remote assistance](#)
- [Unattended remote assistance](#)
- [Dynamic remote assistance](#)

Interactive remote assistance

Interactive remote assistance is aimed at end users. It allows support staff to access the user's session to see what is happening on their screen or take control easily. This type of assistance requires user consent.



Unattended remote assistance

Unattended remote assistance allows access to server type or self-service kiosk computers, where no specific user is working.

Remote Assistance

Close



La sesión de Asistencia remota está lista para conectarse.

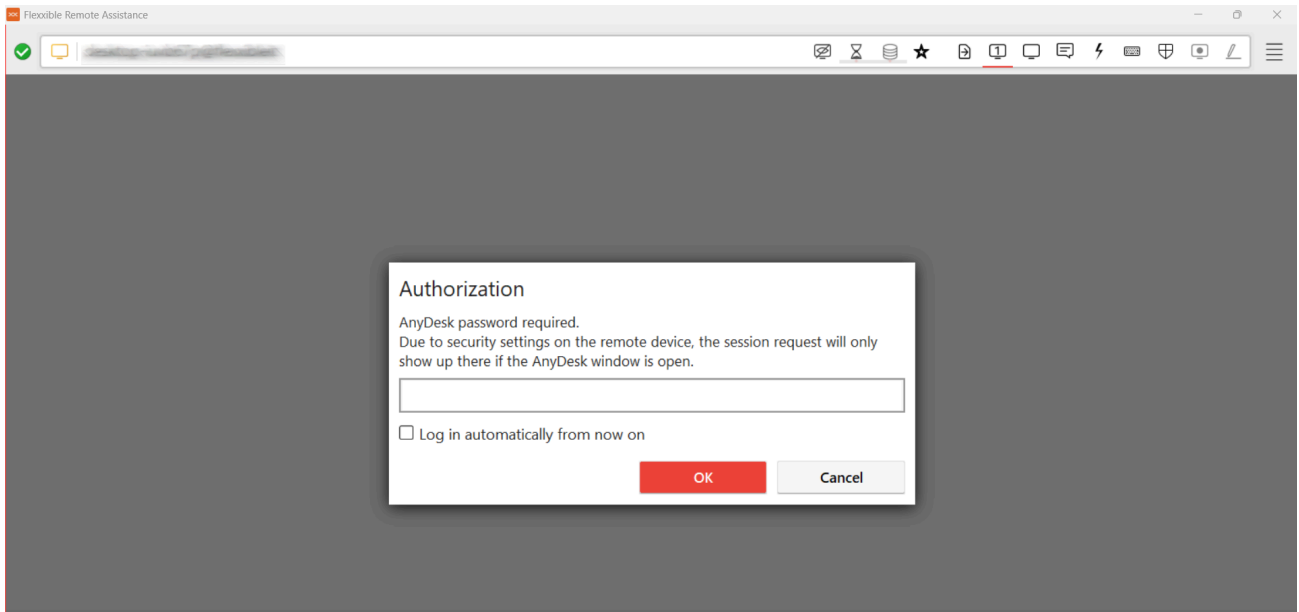
Contraseña: **UgKPXUvDt211720102114_(:** 

Para iniciar la sesión de asistencia remota, [descargar](#) y abra el archivo de Flexible Remote Assistance.

Nota: Es posible que deba autorizar la descarga en su navegador.

When the operator performs this action, Workspaces sends the order to FlexxAgent to install a custom Flexible service, start it up, set up an access password, and inform the operator through the console that the session is already accessible with its respective authentication data:

- Session ID: session identifier.
- Password: dynamic password that regenerates with each session, it is not recommended to store it.
- Download the remote assistance access file for the operator.



Once the access file has been activated by the support operator, it will be necessary to enter the session password to take control of the device.

! INFO

After 15 minutes since the end of the unattended remote assistance connection, it will no longer be possible to reuse the same authentication data or access file. The service will be deactivated from the device, and the session password will have expired.

Dynamic Remote Assistance

Dynamic remote assistance allows an operator to act on a device regardless of whether the user has a session at that time.

When a dynamic remote assistance is launched, FlexxAgent checks the active sessions on the device; if there is any, it launches the interactive remote assistance process. On the contrary, if there is no user session active, it will trigger the unattended remote assistance process, allowing the operator to access the device to perform maintenance tasks, even using other user accounts to log in, without interfering with the user's session or data.

To perform and receive dynamic remote assistance, both devices must have version 24.9.2 or higher of FlexxAgent installed.

Although the reporting group to which the device belongs has been configured to receive **dynamic remote assistance**, Workspaces will display the three options to start remote assistance: interactive, unattended, and dynamic. In that specific case, the operator will not be able to activate interactive or unattended remote assistance. If attempted, Workspaces will display an error message.

Requirements to perform remote assistance

- Have **FlexxAgent 23.7 or higher** (24.9.2 for dynamic remote assistance) installed on the remote device (where the remote assistance is received) and on the technician's device providing the service.
- Device connectivity to ras.flexxible.com, through TCP port 443.

Settings

For a device to receive remote assistance, it must be configured from the FlexxAgent Settings (Remote Assistance) of its reporting group. From there, you can choose which type of remote assistance devices will have access to.

Edit FlexxAgent settings ✕

Environment

FxxOne (FXXOne) ▾

Remote support

Interactive ▾

Activation

Once the configuration is made, from the support side, when wanting to provide remote assistance to a device, it must be done from the `Workspaces` module, previously selecting the device to which assistance is to be provided. `Level 1` -> `Operations` -> `Remote Assistance`. And then choose the type of remote assistance to be provided: interactive, unattended, or dynamic.

The screenshot shows the FlexxWorkspaces web interface. A confirmation dialog is displayed at the top center, asking for confirmation of an operation. Below the dialog, a table lists workspace machines with columns for Platforms, Machine, Last user, Sessions, CPU, % RAM, Uptime, and Code. A context menu is open over one of the machines, showing options for remote assistance. The table data is as follows:

Platforms	Machine	Last user	Sessions	CPU	% RAM	Uptime	Code
[Icons]	[Machine ID]	[User]	0	0 %	0 %		
[Icons]	[Machine ID]	[User]	1	42 %	77 %	49m	
[Icons]	[Machine ID]	[User]	1	13 %	78 %	2d 5h	
[Icons]	[Machine ID]	[User]	1	4 %	78 %	13h 8m	
[Icons]	[Machine ID]	[User]	0	0 %	0 %		
[Icons]	[Machine ID]	[User]	1	2 %			
[Icons]	[Machine ID]	[User]	0	0 %	0 %		

The context menu options are: Start remote assistance, Start unattended remote assistance, and Start dynamic remote assistance. The main interface also includes a sidebar with navigation options like Sessions, Connection logs, Jobs, Alerts, and Profile storage.

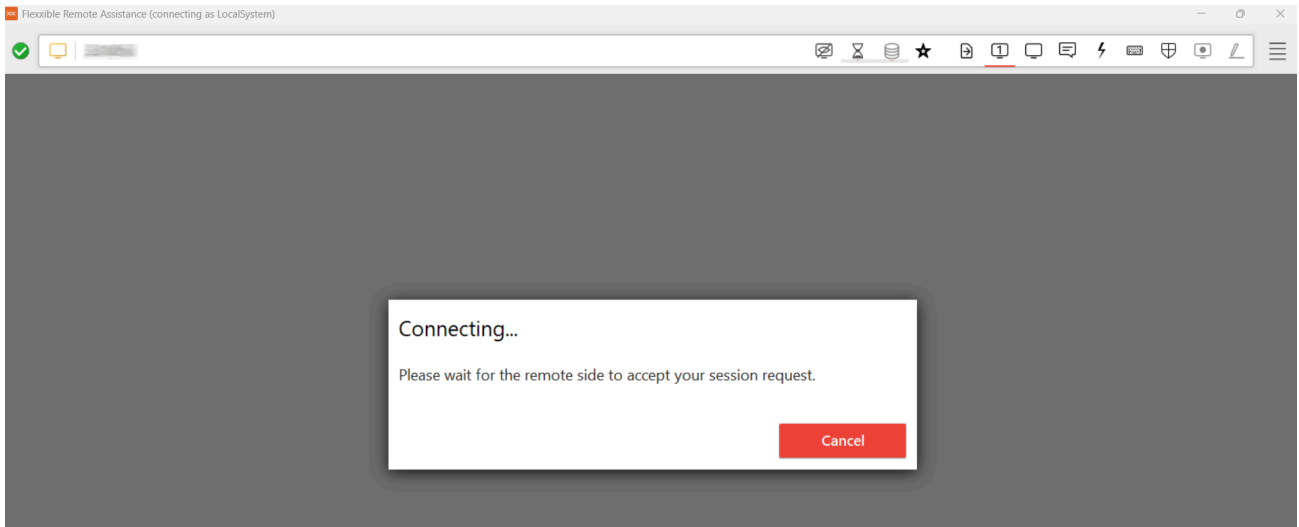
The remote assistance operation can be activated both from the **Sessions** view and from **Workspaces**.

When the operator launches the **Start remote assistance** request, FlexxAgent launches a process (with user permissions) on the device and notifies the user.

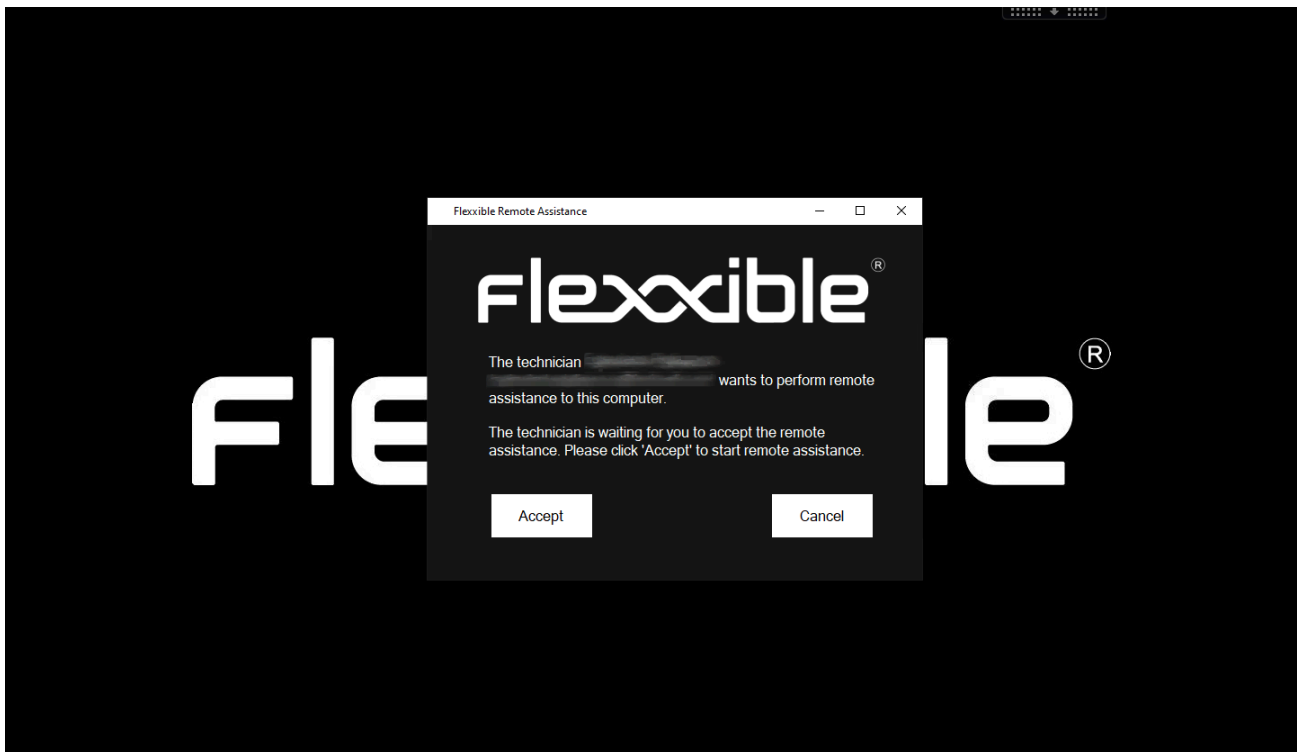
From the support side, a file with the ".FLXRA" extension will be automatically downloaded, which will activate with just one click. The user's consent request will then be launched.

! INFO

The remote assistance session access file expires after 15 minutes.



Wait to receive user consent:



Once remote assistance is accepted, the support operator can gain control of the session.

The file will only be present in the device's filesystem when remote assistance is requested. It will run with user permissions, without installation, and remain active for the duration of the remote assistance session. After the session is finished, the process will be stopped, and the file removed from the filesystem.

! INFO

The fact that the file runs without administrative permissions does not prevent access to the necessary administrative tools for providing support. These are offered for remote assistance within the Flexible Tools menu at the top left of the remote assistance window.

Processes

When the operator downloads the remote assistance file from Workspaces, the following processes are generated, which run automatically.

- FlexxAgent.exe
- FlexibleRA.exe

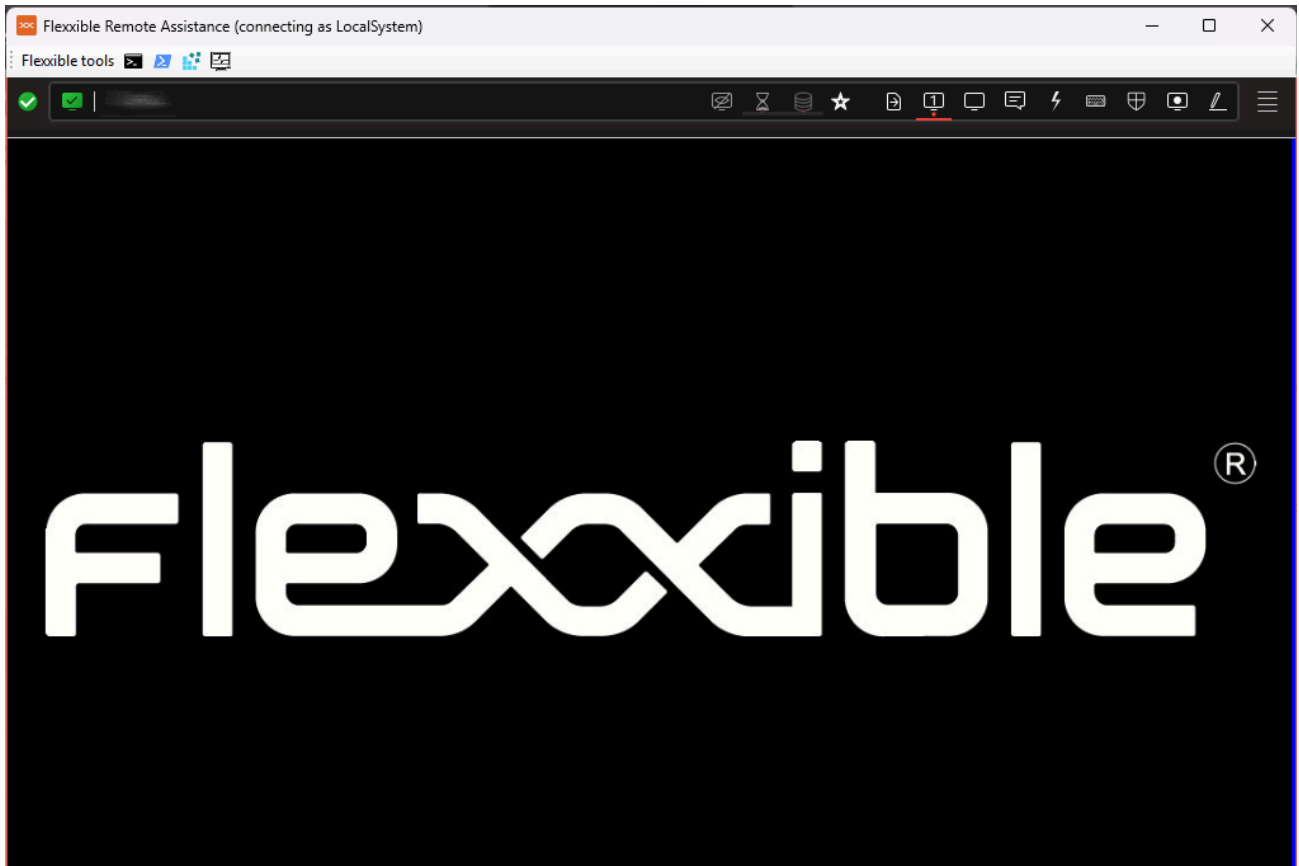
The screenshot shows the Windows Task Manager interface. The 'Processes' tab is selected, and a 'Details' window is open. The search bar contains the text 'Type a name, publisher, or PID to search'. The 'Details' window displays a table of running processes.

Name	PID	Status	User name	CPU	Memory (ac...)
FlexxAgent.exe	20292	Running	SYSTEM	02	117,860 K
FlexibleRA.exe	22116	Running		00	6,736 K

Flexible Tools

Since the remote assistance file is executed with the user's permission level, it may happen that the user is not a local administrator of the device. To cover these cases, **Flexible Tools** have been incorporated.

Flexible Tools allow activating administrative tools for remote assistance. These are a series of functions embedded in the remote assistance application that can be accessed from the top left of the interface.



These tools can be executed with the following administrative permissions:

- CMD
- PowerShell
- Registry editor
- Task Manager

If the user has permissions in Portal, Flexible Tools can be activated for users by role. This can be done in two ways:

- From **Portal** -> **Configuration** -> **Products**: for each product in the list, there is a **FlexxAgent Configuration** button that allows applying the change to all reporting groups.
- From **Portal** -> **Configuration** -> **Reporting Groups**: for one or several reporting groups, functionality can be activated or deactivated.

Workspaces / Level 1 / Sessions

The **Sessions** list view allows you to organize, filter, search, and send operations to active user sessions.

<input type="checkbox"/>	Machine	RG Tenant	Pool / Catalog	Device Kind	Machine type	User	Subscription	Session type	Id	Connection	Start Date	CPU	RAM	RTT	Status
<input type="checkbox"/>					Device				1	Active	10/10/2024 12:53:27	6 %	0,73 GB	0 ms	
<input type="checkbox"/>					Device				1	Active	08/10/2024 14:55:38	1 %	0,78 GB	0 ms	
<input type="checkbox"/>					Device				1	Active	10/10/2024 22:36:28	15 %	1,66 GB	0 ms	

The information displayed on the screen can be customized by adding or removing columns of information using **Column chooser** and saving the filters used for future queries in the user profile.

Header filtering options

In the upper right area of the screen, you will find tools and icons for each attribute that, when clicked, allow you to filter the list based on the following criteria:

- Session device type: Physical or virtual.
- Session broker used: Citrix, RDP, or unknown.
- Hypervisor: Hyper-V, Nutanix, vSphere, physical or unknown.

Once the session is selected, or through multiple selection, the **Operations** button gives you access to various session management tasks like **Power and connection actions** or sending **Notifications** to users. You can check the details of these functionalities in the section [Actions on devices](#).

List filtering options

The filtering options for the list view are available at [Opciones de filtrado del listado](#).

Filter management

Filters created through interface options can be saved as user filters. They are located alongside predefined filters.

Available operations

The **Operations** button allows you to perform the following operations:

Session management

The first three buttons of the **Operations** menu allow you to perform session management actions:

- Log off.
- Force log off.
- Disconnect the session.

Remote Assistance

Allows launching remote assistance to users in interactive mode, which requires user consent to view and take control of their session; or execute unattended remote assistance, which allows administrative access to server or self-service type devices that do not necessarily have a user on the other side of the screen.

Notifications

Allows sending notifications to selected devices, which can be pop-up notifications or notifications that reserve a part of the screen.

Workspaces / Level 1 / Sessions / Detail view

The screenshot displays the 'Session Detail' view in FlexxDesktop. At the top, there is a breadcrumb 'Session' and an 'Operations' dropdown menu. The main content area is titled 'GENERAL' and contains a table with the following data:

User	Machine	Session type	Start Date	Connected from	Connected
[Redacted]	[Redacted]	Workspace	09/10/2024 8:57:36		Yes

Below the table, there are tabs for 'Connections', 'Performance', 'Logon info', 'Notifications', and 'Group Policy (GPO)'. The 'Logon info' tab is selected, showing two charts:

- Last logon duration:** A donut chart showing the distribution of logon tasks. The data is as follows:

Task	Duration (s)
Logon Tasks	6,66 s
Group Policy	0,31 s
Pre-Shell	0,11 s
Others	3,75 s
Start Layout Init	1,9 s
User Profile	0,26 s
ActiveSetup	0,01 s
- User logon history:** A horizontal bar chart showing logon durations for various dates and times. The data is as follows:

Date/Time	Duration (s)
09-Oct-24 08:57	~15
08-Oct-24 23:14	~15
08-Oct-24 21:32	~15
05-Oct-24 14:02	~50
02-Oct-24 19:42	~25
02-Oct-24 08:55	~25
01-Oct-24 18:11	~25
30-Sep-24 12:19	~25
30-Sep-24 09:00	~25
27-Sep-24 08:59	~25

When clicking on a record in the session list, you access the details of the selected session. The interface is structured into 3 sections:

- Available actions at the top
- General information
- Specific information segmented into tabs at the bottom

Available actions

From the device detail view, it's possible to perform the same actions as in the list view for the active device. This includes:

- Microservices execution.
- The actions included in the **Operations** button

Microservices execution

From the **>-** button, you can execute any of the microservices enabled for the organization that have **Session** as a configured context. This allows the microservices to

be executed under the user's identity. The actions of enabling, creating, modifying, or deleting microservices are performed from the Portal.

Operations

From the **Operations** button, you can execute the actions detailed in [Available Operations](#) for the active device.

General

The general information block of the device contains:

- **User:** User of the session in domain\user format.
- **Machine:** Device hostname.
- **Session Type:** Session type, which can be Workspace or application for virtualized application sessions.
- **Start Date:** Date and time of session establishment.
- **Connected From:** When the selected device is a VDI or similar, it shows the endpoint name from which the virtual device is accessed.
- **Connected:** Indicates whether the user is actively connected to the session, or has disconnected from it, otherwise.
- **Device Type:** Which can be virtual or physical.
- **Session Analyzer:** Indicates whether the FlexxAgent session analysis process is active or inactive.
- **Subscription/Broker:** If used, the Microsoft Azure or Citrix service that manages user connections to the workspace (i.e. Microsoft Azure Virtual Desktop (AVD), Citrix DaaS, Citrix On-premises).
- **Group / Catalog:** If used, a collection of machines that defines the specifications of the workspaces and how they are provisioned to users (e.g. e.g. host pools in Azure Virtual Desktop or machine catalogs in Citrix).
- **Delivery Group:** If detected, a collection of machines is selected from one or more machine catalogs. It specifies which users can use those machines, plus the applications and desktops available to those users.

Tabs

The tabs at the bottom show specific grouped information, including the following tabs:

- [Connections](#)
- [Performance](#)
- [Login information](#)
- [Notifications](#)
- [Group Policy_\(GPO\)](#)

Connections

Connections Performance Logon info Notifications Group Policy (GPO)				
Start ↓	End	Endpoint	Reconnection	
<input type="checkbox"/> 10/10/2024 14:07:10	11/10/2024 0:07:10			✓
Count=1				

This tab contains information about the device's connections, i.e., each time a user starts or reconnects a disconnected session.

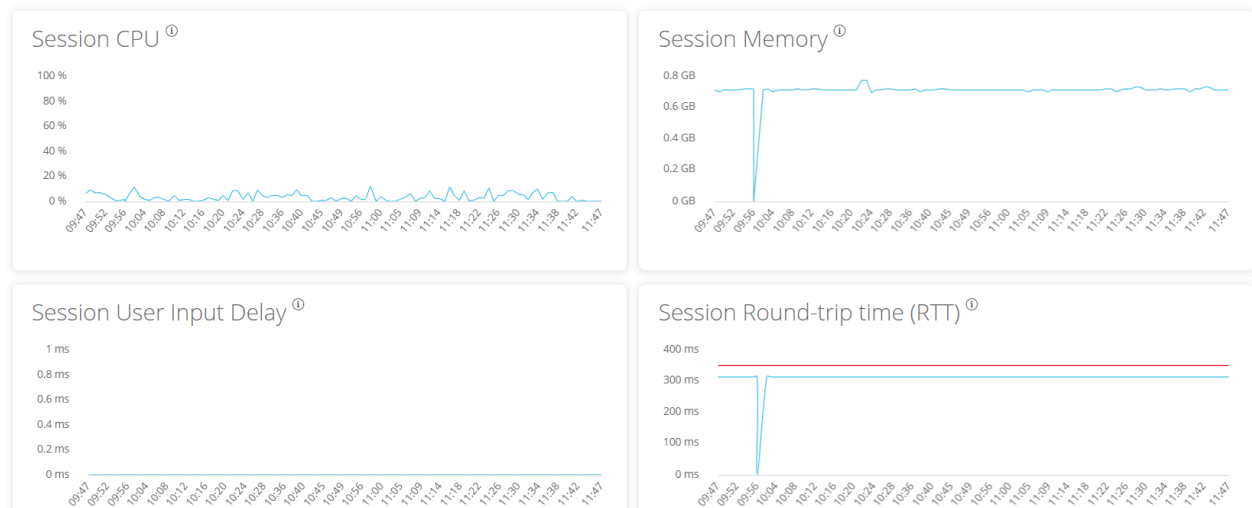
The session end date is only reported for disconnected or closed sessions; while the session remains active, the session end date will remain empty.

Performance

This tab groups graphs of the main performance counters for the last two hours.

Connections **Performance** Logon info Notifications Group Policy (GPO)

For more detailed information click [here](#) or visit the session analyzer portal.

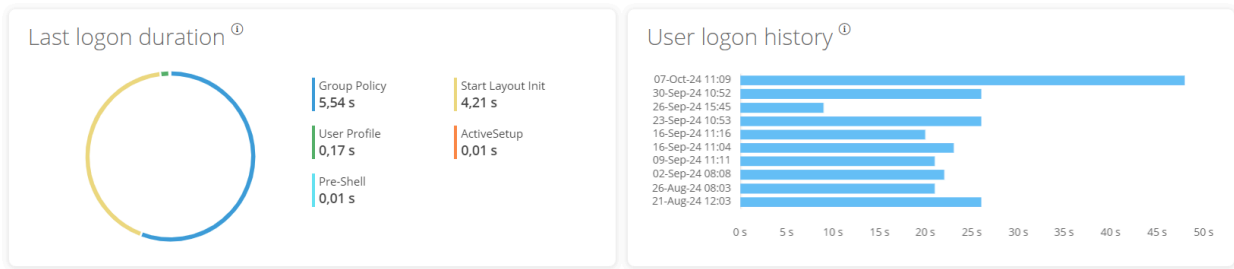


Graphs are included for:

- **CPU:** Percentage of session processor usage, excluding resources used by other sessions or system processes.
- **Memory:** Amount of memory used, excluding resources used by other sessions or system processes.
- **Session User input delay:** User input delay refers to the time lag between when a user performs an action, such as clicking a mouse button or pressing a key, and when the corresponding response is displayed on the screen or executed by the computer.
- **Session Round Trip Time (RTT):** The time it takes for a data packet to travel from the user's device to a server or remote destination, and back to the user.

At the top of the tab, a link allows direct access to the diagnostic view for the active session in Analyzer.

Login information



	Total	ActiveSetup	AppX Load packages	FSlogix Shell Start	Group Policy	Logon Tasks	Pre-Shell	RunOnce	Start Layout Init	User Profile
07/10/2024 11:09:59	48 s	0,03 s			6,46 s	5,75 s	0,01 s		3,69 s	5,41 s
30/09/2024 10:52:40	26 s	0,01 s			15 s	4,52 s			3,81 s	5,62 s
26/09/2024 15:45:21	9 s	0,01 s			5,54 s		0,01 s		4,21 s	0,17 s
23/09/2024 10:53:12	26 s	0,04 s			15,12 s	7,69 s			5,9 s	5,46 s

This tab allows you to view detailed information about user login times. The view is composed of two sections: At the top, two graphs are displayed. The first shows detailed information about the user's last login and the times of each step, and the second graph offers a view of historical logins and their duration in seconds.

At the bottom, there is a table with details of each login step for each recent user login.

Notifications

Allows you to see if the session has any active notifications and their configuration data. When there are active notifications, a warning is shown at the top of the page.

Group Policy (GPO)

Note: GPO info update interval is 10 minutes.



Display name ↑	Last application time
▶ Type: Machine (Count=18)	
▼ Type: User (Count=6)	
[Redacted]	17/07/2024 17:16
[Redacted]	17/07/2024 17:16
[Redacted]	17/07/2024 17:16

This tab shows information about the group policies applied to the active session. It allows you to view the names of the policies applied, both at the user level and at the device level.

Workspaces / Level 1 / Connection Logs

The connection log allows you to view the historical session logs of users in the organization.

User	Start ↓	End	Machine name	Device kind	Machine type	Endpoint	Reconnection	Subscription/Broker	Pool / Catalog
[Redacted]			[Redacted]	[Icon]	Workspace		✓		
[Redacted]			[Redacted]	[Icon]	Workspace		✓		
[Redacted]		11/10/2024 12:00:13	[Redacted]	[Icon]	Workspace		✓		
[Redacted]		11/10/2024 11:55:08	[Redacted]	[Icon]	Workspace		✓		
[Redacted]			[Redacted]	[Icon]	Workspace				
[Redacted]			[Redacted]	[Icon]	Workspace	[Redacted]	✓		

The information provided in this view is (by default):

- User: username of the session account
- Start: start date and time of the connection
- End: end date and time of the connection (an empty field means the session is still open)
- Machine name: The device to which the user is connected.
- Device type: type of device, virtual or physical, used for session connection.
- Machine type: type of machine, device, or session host, serving the connection.
- Terminal: host name of the originating physical connection device
- Reconnection: checks if this session is a reconnection from the previous one.
- Subscription/Broker: name given for each supported subscription and broker.
- Group/Catalog: name of the host group containing the workspace.

This section allows the use of the column selector and the [Filtering options](#) also available in the [Sessions](#) section.

Workspaces / Level 1 / Jobs

Each action performed in Workspaces generates a **Job**. These allow analyzing the results of the executions performed; for example, by checking the output of a microservice execution. **Jobs** gathers all the jobs performed in the organization, so it also provides historical execution records, which allows it to be used as an audit log.

List view

The screenshot shows the Flexx Workspaces interface. The top navigation bar includes the Flexx logo, a search icon, and a 'Log Off' button. The sidebar on the left contains navigation items: Level 1, UX Dashboard, Workspaces, Sessions, Connection Logs, Jobs (highlighted), Alerts, and Profile Storage. The main content area is titled 'Jobs' and features a table with the following columns: Info, Status, Creation date, Start time, End time, and Owner. The table contains three rows of job data, all marked as 'Completed' and triggered by 'Automatic operation trigger'. The jobs occurred on 11/10/2024 at 12:03:00, 11:57:58, and 11:56:56 respectively. Above the table, there are controls for 'My Filters', a search box, a refresh button, a 'Cancel job' button, a volume icon, a dropdown menu, and a 'Today' filter.

Info	Status	Creation date	Start time	End time	Owner
Microservice on [redacted] (LS_disk_cleanup) requested by 'Automatic operation trigger'	Completed	11/10/2024 12:03:00	11/10/2024 12:03:00	11/10/2024 12:03:05	Automatic operation trigger
Microservice on [redacted] (LS_disk_cleanup) requested by 'Automatic operation trigger'	Completed	11/10/2024 11:57:58	11/10/2024 11:57:58	11/10/2024 11:58:03	Automatic operation trigger
Microservice on [redacted] (LS_disk_cleanup) requested by 'Automatic operation trigger'	Completed	11/10/2024 11:56:56	11/10/2024 11:56:56	11/10/2024 11:57:01	Automatic operation trigger

The jobs view consists of the following elements:

- Options at the top of the interface
- Job list view

Top options

- Refresh the job list and show updated values.
- Resets all settings made for the jobs view.
- Filter jobs by age:
 - Today (default filter)
 - This week
 - This month
 - This quarter

- This year
- The **Cancel** button allows canceling jobs in pending status.
- The **Notify** button allows you to subscribe to a specific job to receive an email notification when it is completed.
- The **Export to** button allows exporting in the selected type.
- The **My filters** button allows access to **Predefined filters** or user-created filters.
- Jobs can be filtered by any parameter in the list in the **Search** box.

Jobs list

The job list, like all list views in Workspaces, allows multiple filtering and customization options as defined in [Filtering Options in Listings](#).

Detail view

The screenshot shows the Flexx Workspaces interface. At the top, there's a search bar and a 'Log Off' button. The main content area is titled 'JOB INFORMATION' and displays the following details:

Name	Status	Start time	End time
Microservice on (LS_disk_cleanup) requested by 'Automatic operation trigger'	Completed	11/10/2024 12:03:00	11/10/2024 12:03:05

Additional information shown includes the job owner 'Automatic operation trigger' and the scheduled date '11/10/2024 12:02'. A progress bar indicates 100% completion, and the duration is listed as 00:00:05.

The detail view includes a progress bar indicating the percentage of the job that has already been executed.

Statuses

A job can have four statuses:

- **Pending:** the task is pending to start.
- **In progress:** the task has started and is still in process.
- **Completed:** the task has finished.

- **Error:** the task did not finish correctly or ended with errors.
- **Canceled by the user:** when a user cancels the task.
- **Completed with errors:** when the task has been completed, but at least one step failed with non-critical errors.

Suppose a `job` takes too long in the "in progress" state without recording any information. In that case, its state will automatically change to `Error`. However, this does not mean that the job will not be completed successfully, but there is a timeout due to an activity block during the task execution.

Available information

In all cases, jobs include the following information:

- Change to be made (INFO)
- State
- Created date
- Start Date
- End Date
- User who made the change (OWNER)

At the bottom of the screen, depending on the type of job, the following tabs may appear:

- Logs
- Workspaces

Logs

The logs tab allows consulting the data of each step in the execution; for example, when a microservice is executed on a device and you want to check the script execution output. This information is saved in the corresponding step (log line in list).

To improve the visibility of script outputs, it is recommended, in the case of PowerShell scripts, to use the `Write-Output` command instead of `Write-Host`. More information at [Considerations about the code to use](#).

Workspaces

The **Workspaces** tab allows you to easily see the information of the devices that executed the job, in case of multiple executions.

Job subscription

This feature allows subscribing to specific jobs, that have not yet started or are in progress. The system will notify by email when they are completed.

To subscribe, select the jobs from the list and activate the **Send notification** button.

Workspaces / Level 1 / Alerting

Workspaces has a real-time monitoring system, with all the relevant alerts from devices, sessions, and other important environment information.

The list of active alerts can be found in the **Level 1** -> **Alerts** section.

Severity	Alert definition ↑	Information	Alert status	Alert start	Date notified	Element
Warning	High RAM Usage for Workspace	RAM usage: 95 %	Active	27/02/2024 9:26:57	27/02/2024 9:36:04	
Critical	Low storage free space % for FSLogix Profile	User: FLE Free: 2.49 GB, Used: 95%	Active	16/02/2024 14:33:55	16/02/2024 14:33:56	
Critical	Low storage free space % for FSLogix Profile	User: FLI Free: 1.71 GB, Used: 96%	Active	16/02/2024 14:32:55	16/02/2024 14:32:55	
Critical	Low storage free space % for Workspace	Drive: C: Free space: 12 GB, Used Percentage: 83%	Active	26/02/2024 13:40:58	26/02/2024 13:40:58	
Critical	Low storage free space % for Workspace	Drive: C: Free space: 14 GB, Used Percentage: 81%	Active	26/02/2024 20:10:51	26/02/2024 20:10:52	
Critical	Low storage free space % for Workspace	Drive: C: Free space: 14 GB, Used Percentage: 94%	Active	08/01/2024 7:54:49	08/01/2024 7:54:49	

Available actions at the top of the list

As in all Workspaces list views, a series of tools are concentrated at the top to facilitate filtering and management. Included:

1. Refresh the view.
2. Restore default view.
3. Export the current view to **CSV File** or **XLSX File**.
4. View alerts by status: **Active**, **Active or Warning**, **Ignored** or **All**.
5. Enable notifications for an alert.
6. Disable notifications for an alert.
7. Filter by various categories.

8. Search alerts by text.

All active alerts allow notifications to be disabled, so they can be "hidden".

Alerts in device or session views

Alerts are also visible in the list and detail views of the **Workspaces** and **Sessions** sections:

<input type="checkbox"/>	Platforms	Machine ↑	Power state	Last user	Sessions	CPU	% RAM	Uptime	Status	Connection
<input type="checkbox"/>		54FW43	On	FLEXIBLE@flexible	1	4 %	67 %	19h 18m		
<input type="checkbox"/>		ALAN-WORK	Non reporting	FLEXIBLE@pedrillo	0	0 %	0 %			
<input type="checkbox"/>		ANDRON-LAPTOP	On	FLEXIBLE@amelandi	1	3 %	54 %	6d 2h		
<input type="checkbox"/>		ANDROMEDA	On	FLEXIBLE@flexible	1	5 %	78 %	13d 2h		
<input type="checkbox"/>		AVILAVIN1-3	Off	FLEXIBLE@perez	0	0 %	0 %			
<input type="checkbox"/>		CLOPPEZ-L14	On	FLEXIBLE@poper	1	1 %	63 %	2d 23h		
<input type="checkbox"/>		CPC-uprat-PZHDB	On	FLEXIBLE@papat	0	1 %	35 %	12d 6h		

When a device has an active alert, in addition to the system alert itself, an alert icon can be seen in the device list view.

A warning is also added when accessing the details screen.

Active alerts:
- [Critical] Low storage free space % for Workspace: Drive: C: Free space: 38 GB, Used Percentage: 84%

General

Name	Summary status	Power state	FlexxAgent version	FlexxAgent status	Domain
ANDROMEDA	On	On	24.2.0.0	Working	flexible.com

Workspaces / Level 1 / Profile Storage

When FlexxAgent detects the use of FSLogix profiles in user sessions, it collects information about them in this section.

<input type="checkbox"/>	Account Name With Domain	Last active	Days	Type	Capacity (GB)	Used GB	VHD Size (GB)	Status	Path
<input type="checkbox"/>	[Redacted]	31/10/2022 16:06:49	626	FSLogix office and search profile	48,83	0,32	0,00	OK	[Redacted]
<input type="checkbox"/>	[Redacted]	04/08/2023 8:33:07	349	FSLogix user profile	0,00	5,57	9,13	OK	[Redacted]
<input type="checkbox"/>	[Redacted]	04/01/2023 19:07:26	561	FSLogix user profile	48,83	0,60	0,00	OK	[Redacted]
<input type="checkbox"/>	[Redacted]	06/07/2023 16:33:19	378	FSLogix user profile	48,83	2,44	2,85	OK	[Redacted]
<input type="checkbox"/>	[Redacted]	27/06/2024 12:10:39	21	FSLogix user profile	48,83	0,25	0,38	OK	[Redacted]
<input type="checkbox"/>	[Redacted]	18/07/2024 7:10:32	0	FSLogix user profile	48,83	11,95	18,10	OK	[Redacted]

This information is also visible as a tab in the active session details view.

List view

This view groups all detected profiles and allows the same [filtering functionalities](#) available in Workspaces.

Available operations

At the top of the interface, the **Profile Data** button allows you to perform the following operations with the selected profile(s):

- **Delete profile:** removes the VHDX file from the folder, allowing a new VHDX file to be created at the user's next login.
- **Compact now:** starts a compaction job using Jim Moyle's "Invoke-FsIshrinkDisk.ps1".

- **Compact Now Forcing Logout:** Forces any existing user session to close and initiates a compaction operation.
- **Set status to Ok:** when an operation fails, this option returns the profile to an "OK" status in the list.
- **Remove from this list:** removes the profile from the list. If it still exists physically, it will appear back in the list when the agent detects it again.

Detail view

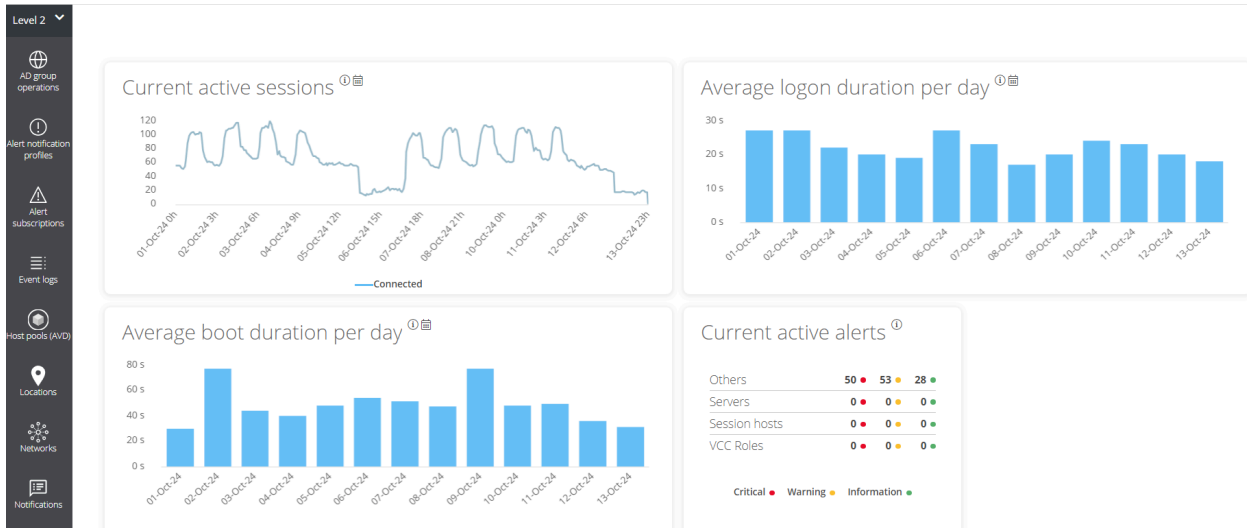
The profile detail view contains all the information, as well as the history of actions performed on them. Information fields available for a profile:

- **User:** in domain\account format
- **Path:** UNC path to the profile storage
- **Status:** indicates if the profile is functional or has any integrity issues.
- **Is backup:** determines if it is a backup profile and therefore not directly accessible to the user.
- **Type:** type of profile. It may be the profile itself or Office caches.
- **Uses Cloud Cache:** indicates if the Cloud Cache functionality is enabled.
- **Last activity:** last usage record in date and time format.
- **Days Inactive:** Indicates the number of inactive days in the profile.
- **Machine:** Last device that used the profile.
- **VHD size (GB):** current profile size.
- **VHD size update:** date and time of the last data update by FlexxAgent.
- **Used (GB):** Space occupied by the profile in GB.
- **Capacity (GB):** Maximum space available in the profile.
- **Last compaction:** date and time of the last compaction.
- **Last size update:** last profile size refresh by FlexxAgent.
- **Last Update Duration:** Processing time for data retrieval.
- **Notes:** Allows adding annotations to the profiles.

The bottom contains a table with the list of historical compactations performed on the selected profile.

More information about this functionality and its configuration in [FSLogix Optimization](#).

Workspaces / Level 2



The **Level 2** section groups functionalities to expand the range of available actions. Includes access to configuration functions that allow sending alerts externally, accessing the unified Windows event log, notifications management, and servers.

Functionalities available at this level:

- [Alert notification profiles](#)
- [Alert subscriptions](#)
- [Event Logs](#)
- [Notifications](#)
- [Servers](#)
- [Locations](#)
- [Networks](#)
- [Wifi networks](#)

For FlexxDesktop deployments that use Azure Virtual Desktop subscriptions as a resource source for user sessions, the following features are included:

- Host pools (AVD)
- Power management policies (AVD)
- Power management activity (AVD)

Workspaces / Level 2 / Alert notification profiles

This function allows a user with the `Level1 2` role to configure an alert notification profile. An alert notification profile consists of a name and an email address, and once an alert definition subscription is created, it allows subscription to specific alert definitions to receive an email when they are triggered.

This functionality can be accessed from `Level1 2` -> `Alert notification profiles`.

The screenshot displays the FlexxWorkspaces application interface. At the top, the logo 'FlexxWORKSPACES' is visible on the left, and 'All tenants' and 'Log Off' are on the right. A search bar and a 'Text to search...' field are present. Below the search bar, there are buttons for 'New', 'Delete', and a refresh icon. The main content area shows a table with columns for 'Name' and 'Mail list'. A 'Count=1' indicator is visible below the table. At the bottom right, there is a 'Page size' dropdown menu set to '20'.

Creating a notification profile is very easy. Just click on `New`, provide a name and an email address, and save the changes.

To receive alerts via email, you need to select the alerts of interest and subscribe to them. More information at [Alert subscriptions](#).

Workspaces / Level 2 / Alert Subscriptions

You can access alert subscriptions via the side menu **Level 2** -> **Alert subscriptions**

Alert subscriptions allow you to receive important alert notifications as needed. For example, if a user only wants to receive alerts related to low mobile or wifi signal on the devices, they can subscribe to **Low connection signal for Workspace** in **Alert definition**, so they will only receive alert emails of this type.

Creating subscriptions

To create a new alert, you have to click on the **New** button at the top right of the list view and fill in the following fields:

- **Alias**: a friendly name for the subscription
- **Alert definition**: the type of alert that will be used
- **Alert notification profile**: the type of alert notification that will be used

An email with the alert data will be sent once the subscription is created, if any of the alert definitions associated with it are triggered.

Workspaces / Level 2 / Events Log

The event log is a powerful diagnostic tool that, by default, centralizes critical and error events.

List view

This tab presents information about the log events present on the device. By default, it filters the errors and only shows those errors with **Error** or **Critical** severity and retrieves them from the device at ten-minute intervals. This time can be modified in the Workspaces settings.

The **Event Log** section lists the event viewer events for Windows devices. By default, Workspaces only processes and shows in this section the critical and error events from the application, security, and system event logs.

FlexxWORKSPACES All tenants Log Off

Events logs

My Filters Text to search...

Today

Event log data collection is enabled. Event types: Error and Critical, Frequency: 10 minutes.

Event date ↓	Level	Source	Machine name	Message
11/10/2024 11:59:48	Error			[Thread ...] The execution request Notifications is not informed. Cause: System.ApplicationException: The execution request Notifications is not informed. at ...MicroServiceExecutor.Execute(ExecutionRequest request) at ... (Closure, Object, Action `1) at Akka.Actor.ReceiveActor.ExecutePartialMessageHandler(Object message, PartialAction `1 partialAction) at Akka.Actor.UntypedActor.Receive(Object message) at Akka.Actor.ActorBase.AroundReceive(Receive receive, Object message) at Akka.Actor.ActorCell.ReceiveMessage(Object message) at Akka.Actor.ActorCell.Invoke(Envelope envelope) Machine name: ... Process name: FlexxAgent (24.9.1.0)
11/10/2024 7:06:33	Error	Service Control Manager		The Servicio de Google Update (gupdate) service failed to start due to the following error: The service did not respond to the start or control request in a timely fashion.

The default view is for **Today**, which starts at 12:00 p.m. in the time zone defined in the Workspaces instance. The time filter can be changed to the values:

- Today
- This week
- This month

- This quarter
- This year

Filtering options

This view allows the same filtering functionalities available in Workspaces. An example would be to filter by an event with a specific ID to obtain a list of affected devices, subsequently applying corrective actions.

Events logs info in Workspaces

Sessions Performance Jobs Alerts **Event log** Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices System < >

📄 📄 Today ▾

Event log data collection is enabled. Event types: Error and Critical, Event (from agents with version >= 22.10.0.0), Frequency: 10 minutes.

Date ↓	Level	Source	Event ID	Message
10/10/2024 22:07:29	❗ Error	Microsoft Office 16 Alerts	300	Failed to parse element: VersionOverrides StoreId=(null) P1: Apps for Office P4: New Document
10/10/2024 22:07:29	❗ Error	Microsoft Office 16 Alerts	300	Failed to parse element: VersionOverrides StoreType=Unknown, StoreId=(null) P1: Apps for Office

In the details view of a Windows device, a tab is activated that groups the event logs for that device.

Detail view

The detail view of an event log contains all its information:

- **Event Date:** event registration date in day and time format
- **Level:** event severity level
- **Source:** event source
- **Event ID:** numeric identifier of the event
- **Log File:** event log file that hosts the event
- **Machine Name:** hostname of the device that logs the error

- **Message:** content of the event message

Additional event settings

Users with an administrator role can add events that do not meet the default filtering conditions to, for example, add events with a specific ID that, although they have an informational severity level, are relevant to the organization, as well as change the log update time.

Workspaces / Level 2 / Locations

Workspaces supports physical locations as a grouping entity for devices and networks, to which coordinates can be linked for geolocation.

List view

The screenshot displays the FlexxWorkspaces application interface. At the top left, the logo 'flexxWORKSPACES' is visible. On the right side of the header, there is a user profile icon and a 'Log Off' button. A vertical sidebar on the left contains navigation icons for 'Level 1', 'Level 2', 'AD group operators', 'Alert notification profiles', 'Alert subscriptions', 'Event logs', 'Host pools (AVD)', 'Locations' (which is highlighted in orange), and 'Networks'. The main content area is titled 'Locations' and features a table with two columns: 'Name' and 'Address'. Below the table, it indicates 'Count=0'. To the right of the table, there are several interactive elements: a 'My Filters' dropdown menu, a search box labeled 'Text to search...' with a magnifying glass icon, and three icons for refreshing, saving, and printing.

Networks allow associating one or more wireless networks to them, and locations allow associating multiple networks.

Detail view

A location consists of the following information:

- **Name:** friendly name of the location
- **Address:** postal address
- **Latitude:** numerical value of latitude
- **Longitude:** numerical value of longitude

At the bottom, you can see the tabs:

- **Networks:** networks identified by FlexxAgent included in that location; it contains two options:
 - **Link:** allows linking a new network to the policy.
 - **Unlink:** allows unlinking a network from the policy.
- **Workspaces:** devices included in the location

Workspaces / Level 2 / Networks

FlexxAgent collects multiple network information from devices. When more than five devices report the same network in the same organization, the network is automatically created in Workspaces. These help to automatically maintain an inventory of all networks detected in devices to get an accurate location mapping based on network data.

The screenshot shows the FlexxWorkspaces interface. At the top left is the logo 'FlexxWORKSPACES'. On the right, there is a user profile icon and a 'Log Off' link. A search bar is located at the top right with the text 'Text to search...' and a magnifying glass icon. Below the search bar are three buttons: 'My Filters' with a dropdown arrow, a refresh button, and a print button. On the left side, there is a vertical navigation menu with icons for 'Level 1', 'Level 2', 'AD group operators', 'Alert notification profiles', 'Alert subscriptions', 'Event logs', 'Host pools (AVD)', 'Locations', and 'Networks' (which is highlighted in orange). The main content area is titled 'Networks' and contains a message: 'Only networks in use by a minimum of 5 workspaces are displayed in this list.' Below this message is a table with the following columns: Name, CIDR, Public IP, Gateway, VLAN, and Location. There are four rows of network data, each with a checkbox in the 'Name' column.

<input type="checkbox"/>	Name	CIDR	Public IP	Gateway	VLAN	Location
<input type="checkbox"/>	[Redacted]	[Redacted]	[Redacted]	[Redacted]	0	
<input type="checkbox"/>	[Redacted]	[Redacted]	[Redacted]	[Redacted]	0	
<input type="checkbox"/>	[Redacted]	[Redacted]	[Redacted]	[Redacted]	0	
<input type="checkbox"/>	[Redacted]	[Redacted]	[Redacted]	[Redacted]	0	

List view

The list view allows you to see the relationship of networks discovered by the agent. It allows searches, filtering, sorting, showing or hiding columns, and more.

It also allows you to select a network from the list and delete it; in that case, if FlexxAgent detects that network again on more than five devices, it will recreate it.

Detail view

The screenshot displays the FlexxWorkspaces interface. At the top left, the logo 'FlexxWORKSPACES' is visible. A search bar and navigation menu are present. The main content area shows a 'Network' configuration page. The configuration fields are as follows:

Name	CIDR	Public IP	Gateway	VLAN	Location
[Redacted]	[Redacted]	[Redacted]	[Redacted]	0	[Redacted]

Below the configuration fields, there are two tabs: 'Workspaces' and 'Wireless networks'. The 'Wireless networks' tab is active, showing a table with the following columns:

Machine name	Current Subnet	Public IP address	Current machine IP	Network changed
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

At the top block of the detailed view of a network, there is a list of collected fields:

- **Name:** network name; by default the CIDR followed by the public IP. Allows customization.
- **CIDR:** Network CIDR
- **Public IP:** the network's public IP for internet access
- **Gateway:** IP address of the network's gateway
- **VLAN:** VLAN identifier, if any
- **Location:** `Location` associated with the network. Requires preconfiguring at least one location.

At the bottom of the interface, there are two tabs:

- **Workspaces:** shows the list of devices connected to the network.
- **Wireless Networks:** shows the list of `Wireless Networks` linked to the network. It allows linking or unlinking wireless networks previously discovered by FlexxAgent on the devices with the link or unlink buttons at the top of the list.

Workspaces / Level 2 / Notifications

Notifications are a powerful tool for communicating directly, securely, and effectively with users. Given their versatility, they are especially useful in service disruption scenarios as they allow maintaining effective communication with users even when the company's communication infrastructures and tools are not functional.

Notifications section

By default, the **Notifications** section displays information about active and scheduled notifications. To close them, you need to select the notifications you wish and press the **Close notifications** button.

As with all list views, you can filter the list content using the tools available in [filtering functionalities](#).

Types of notifications

Workspaces includes two types of notifications that allow you to send different types of messages to users:

- **Pop-up notifications** that allow launching a pop-up window with a message that the user can close with a click.
- **Notifications**: designed for service disruption events, where corporate communication channels might not be available. They are used when ensuring the message reaches users as quickly as possible to avoid a high volume of users trying to contact the support department.

Popup notifications

Sending notifications is available in the **Sessions** and **Workspaces** sections of Level 1. To send a popup notification, select the target sessions or devices and execute:

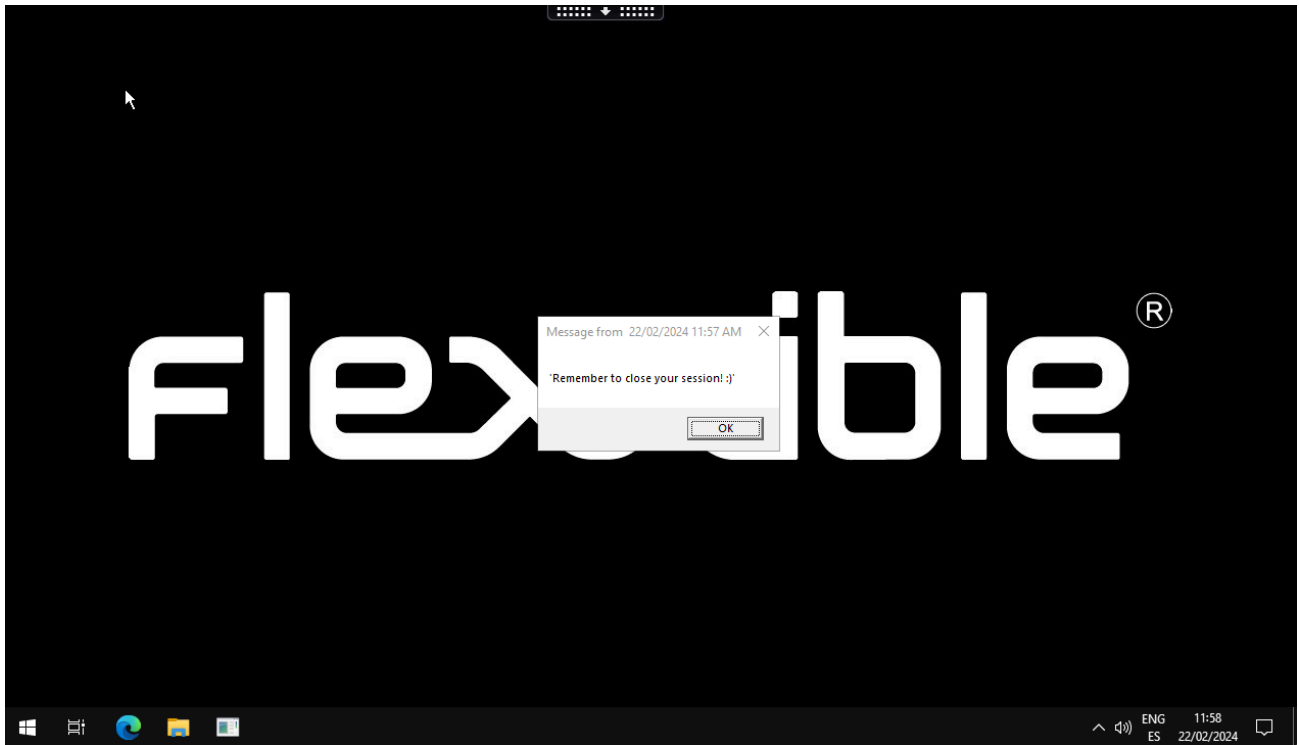
- **Operations** -> **Notifications** -> **Send pop-up message**.
- Specify the message and click **Ok**.

The screenshot shows the FlexxDesktop interface. At the top right, there is a navigation bar with 'All tenants', a search icon, and a 'Log Off' button. Below this is a toolbar with various icons and filters, including 'Custom operations', 'My Filters', and a filter for 'FZ_Host'. The main area displays a table of sessions with columns for 'Last user', 'Sessions', 'CPU', '% RAM', 'Uptime', 'Status', and 'Connection'. The table shows three sessions, with the second one highlighted. A 'Page size: 20' dropdown is visible at the bottom right.

Last user	Sessions	CPU	% RAM	Uptime	Status	Connection
[blurred]	1	4 %	78 %	4h 14m	[check] [hand] [award]	[wifi]
[blurred]	1	5 %	46 %	4h 53m	[check] [hand] [award]	[usb]
[blurred]	0	1 %	34 %	3d 11h	[check] [award]	[usb]

The user in the session will receive a window in the center of their screen with the configured message.

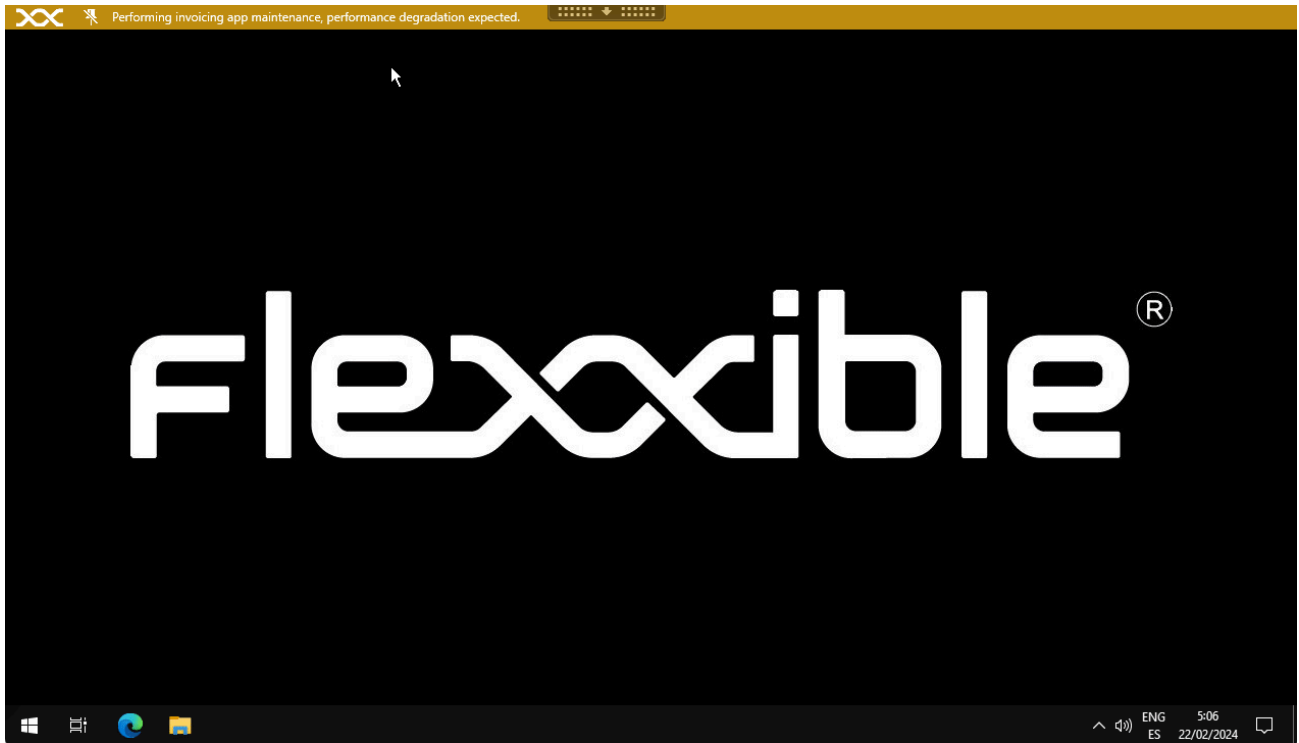
These notifications are based on Windows system tools. If all devices or sessions are selected and a message of this type is sent, the message will only reach the users who are working (in session) at that moment. If any user enters their session after the message is received, it will not be visible.



Notifications

Notifications have many additional features aimed at maintaining effective communications and protecting the information transmitted to users.

While on screen, notifications reserve that space so the user can no longer occupy it with their applications. This is a mechanism to ensure that the user has the message visible.



Notifications can be configured for time intervals; intervals can be defined in which all sessions already started and future sessions receive this notification and it remains active during that period of time.

To configure and launch a notification, the following is required:

- Define a time zone.
- Set start and end date and time.
- Severity, with three levels to choose from:
 - Informative: generates a gray notification.
 - Maintenance: will generate a yellow notification.
 - Technical issue: generates a red notification.
- Request acceptance: enables a button to get user feedback; once accepted, it closes for the user.
- Disable minimize: when enabled, prevents users from minimizing the notification.
- Message text
- Additional information: extra message that will appear when hovering over the notification.

- Link: to include a status page, if available. -Blinking: allows configuring blinking in the notification to increase its visibility.

Workspaces / Level 2 / Reporting groups from Workspaces

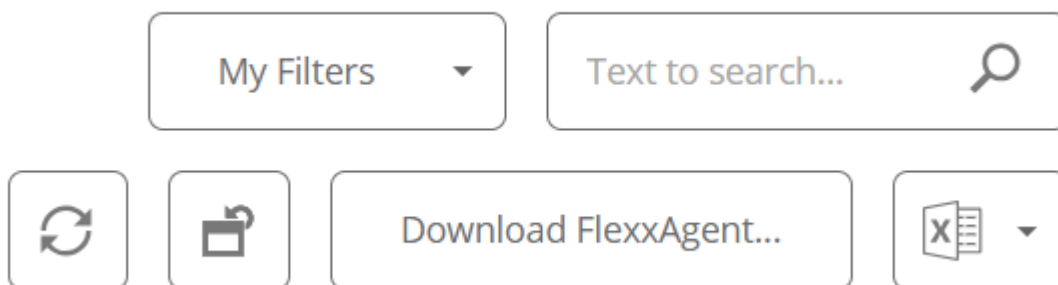
The **Report Groups** view from the **Workspaces** module allows you to see the status of the report groups created in the organization. It shows general information about the devices that make them up and offers the possibility to download FlexxAgent onto them.

List view

The list view shows a table with the listing of the report groups, according to their ID number, name, and corresponding organization.

At the top, there are a series of buttons that allow actions on the list of report groups.

- **My filters:** allows you to manage filters to search for report groups.
- **Text to search:** free search box to find groups that match the entered term.
- **Refresh:** reloads the list of report groups after applying search filters.
- **Reset all settings for this view:** returns to the initial settings of the list.
- **Export all items:** allows you to download the list of report groups in CSV and XLSX formats.
- **Download FlexxAgent:** FlexxAgent will be downloaded to the selected report groups.



Download FlexxAgent

In the list view table, you must select the report group for which you want to download the agent and click on the **Download FlexxAgent** button.

The screenshot shows the FlexxWorkspaces interface. On the left is a navigation sidebar with icons for Alert notification profiles, Alert subscriptions, Event logs, Locations, Networks, Notifications, and Reporting groups. The main area is titled 'Reporting groups' and contains a table with columns 'Id', 'Name', and 'Tenant'. Three rows are visible, with the third row selected. Above the table are controls for 'My Filters', a search box, and a 'Download FlexxAgent...' button highlighted with a red box. Other buttons include a refresh icon, a print icon, and a list view icon. At the bottom right, there is a 'Page size' dropdown set to 20.

A window will open to download the FlexxAgent installer.

The screenshot shows a dialog box titled 'Download FlexxAgent Installer' with 'OK' and 'Cancel' buttons. The text inside reads: 'Download a .zip file to install or repair FlexxAgent on machines communicating through this messaging service.' Below this, there is a 'Target processor architecture' dropdown menu set to 'x64' and a checked checkbox for 'Generate standalone installer (offline)'. At the bottom, there is a note: 'Please refer to <http://5f8e840348819.helpdocsonline.com> for information on the FlexxAgent-Installer.exe command line arguments.'

If the **Generate standalone installer (offline)** option is selected, during installation, the binary will not require internet access for verification or downloading binaries.

If, on the contrary, the **Generate standalone installer (offline)** option is not selected, the minimum installation package will be downloaded. In this manner, the binary will access the internet to verify and download the latest binaries.

For other installation options, you can consult the [FlexxAgent](#) documentation.

Detail view

To obtain specific information about a report group, you need to select one in the list view table.

The detail view offers specific data about the selected report group: name, ID, FlexxDesktop license key, Portal update date, whether it has an Analyzer session enabled, client SID (security identifier), region, types of proxy and remote assistance enabled.

The screenshot shows the FlexxWorkspaces interface. At the top, there's a header with the FlexxWorkspaces logo, the word 'Flexible', a user profile icon, and a 'Log Off' button. A sidebar on the left contains navigation icons for 'Alert notification profiles', 'Alert subscriptions', 'Event logs', 'Locations', 'Networks', and 'Notifications'. The main content area is titled 'Reporting groups' and shows a 'Reporting Group' detail view. The details are organized into several sections: 'Name', 'Id', 'FlexxDesktop license key' (with an eye icon), and 'Portal Update Date' (06/09/2024); 'Enable session analyzer' (True), 'Customer SID' (with an eye icon), and 'Region'; 'Proxy type'; and 'Remote assistance' (UNASSISTED). A 'Download FlexxAgent...' button is visible in the top right of the main content area.

Devices

The detail view of the report groups also presents specific information on three areas:

Devices

This is the list of devices that make up the report group being consulted. When it comes to a group that uses the fishing pattern to add devices, the configured RegEx term appears in a top box, as well as the id associated with the report group being queried.

The screenshot displays the 'Users' section within the 'Reporting groups' category. The interface features a sidebar on the left with navigation icons for Notifications, Power management policies (AVD), Power management activity (AVD), Reporting groups (highlighted in orange), Servers, and WiFi networks. The main content area has a breadcrumb trail: 'Devices' > 'Devices history' > 'Users'. Below this, there are search filters for 'Fishing pattern' (containing '^EquiposEstandar*') and 'Fishing pattern scope'. A table lists users with columns for 'Name', 'User', and 'Status'. A summary row shows 'Count=1'. At the bottom right, there is a 'Page size' dropdown menu set to 20.

Devices history

It provides the name and the date of incorporation of the devices to the report group, also whether they have been assigned the group manually or automatically and the source and destination groups to which the devices have belonged.

Users

This is the list of users who belong to the report group. La tabla informa sobre el inquilino y rol que tienen asignados dentro de la organización

Workspaces / Level 2 / Servers

The screenshot shows the FlexxWorkspaces interface. At the top, there is a search bar and a 'Log Off' button. Below the search bar, there are navigation tabs for 'Level 1' and 'Level 2'. The 'Servers' view is active, showing a table of server data. The table has columns for 'Server type', 'Subscription', 'Name', 'RG Tenant', 'Power state', 'CPU', '% RAM', 'Code', 'Uptime', and 'Connection'. A single server is listed with a 'None' server type, 'On' power state, 5% CPU usage, and 60% RAM usage. The uptime is 24d 11h. Below the table, there is a 'Count=1' indicator and a 'Page size' dropdown set to 20.

The 'Servers' view allows access to the list of servers in the environment. When FlexxAgent is installed on a device, it will by default appear in the **Workspaces** section. To move the device to the **Servers** view, from the **Workspaces** section you must select the device and execute the **Machine Type** -> **Server** operation

[More information](#) on how to include a device in this list.

List view

The list view contains all servers configured as such in Workspaces and allows the same actions with the devices listed in the **Workspaces** view.

Available operations


From the list view, at the top right of the interface, the following tools are included:

- [Filtering Options](#)
- [Microservices](#)
- [Operations](#)

Filtering options

This view allows the same [filtering functionalities](#) available in Workspaces.

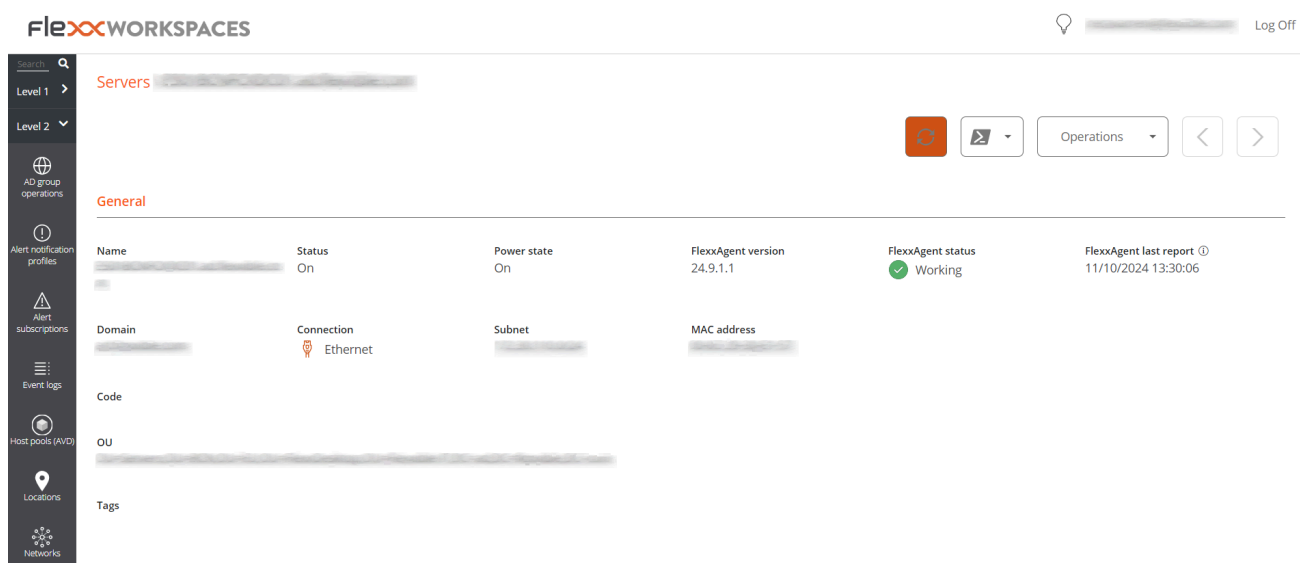
Microservices

From the  button it is possible to execute any of the microservices enabled for the organization that have **System** as the configured context. This allows the execution of microservices with administrative permissions on the devices. The actions of enabling, creating, modifying, or deleting microservices are performed from the Portal.

Operations

The **Operations** button allows executing the same device management actions as the Workspaces view.

Detail view



The screenshot shows the FlexxWorkspaces interface. At the top, there is a search bar and a 'Log Off' button. The main content area is titled 'Servers' and features a 'General' section. Below this, there is a table with the following columns and data:

Name	Status	Power state	FlexxAgent version	FlexxAgent status	FlexxAgent last report
[Redacted]	On	On	24.9.1.1	Working	11/10/2024 13:30:06

Below the table, there are sections for 'Domain', 'Connection' (Ethernet), 'Subnet', and 'MAC address'. At the bottom, there are sections for 'Code', 'OU', and 'Tags'.

The detail view of a server, in addition to the operations available at the top of the interface, contains the following sections:

- General information
- Extended information
- Specific information segmented into tabs at the bottom

General

The general information block of the device contains:

- **Name:** hostname of the device
- **Status:** power state (on-off)
- **FlexxAgent Version:** FlexxClient version number
- **FlexxAgent Status:** FlexxAgent execution status (running - stopped)
- **FlexxAgent Last Report Date:** date of the last report received from FlexxAgent on the device
- **Domain:** domain to which the device belongs
- **Connection Type:** type of connection used by the device (ethernet - wireless)
- **Subnet:** network addressing
- **MAC Address:** MAC identifier
- **Code:** allows a string to be set as code
- **Network Changes:** indicates if the device has recently changed its network configuration
- **Tags:** allows identification tags to be associated
- **OU:** organizational unit in the domain where the device's account resides

Extended

The extended information block of the device contains:

- **RAM:** total amount of RAM
- **Cores:** number of processor cores
- **IP Address:** IP address of the device
- **Windows Edition:** edition of the operating system
- **OS Build:** operating system build number
- **Uptime:** the length of time the workspace has been running since it was last started or restarted; it's important to note that if fast startup (fastboot) is enabled, the workspace is only off when restarting.
- **Fast Startup:** indicates if fastboot is enabled on the server
- **Last Windows Update:** date of last patch applied
- **Duración del último arranque:** duración del arranque (boot) del último inicio
- **Pending reboot:** determines if the device has a pending reboot to apply updates.

- **System disk:** indicates the used space of the system disk.
- **Public IP and ISP:** if public IP data collection is enabled, shows the public IP and the provider.
- **Region:** if it's an Azure virtual machine, will show the Azure region of the host.
- **BIOS Manufacturer:** BIOS manufacturer
- **BIOS Version:** current BIOS version
- **SMBIOS Version:** current SMBIOS version
- **BIOS Serial Number:** unique BIOS identifier
- **Session Analyzer:** indicates the status of the FlexxAgent Analyzer process, which can be:
 - **Not configured:** The FlexxAgent is configured to not launch Session Analyzer.
 - **Disabled:** The FlexxAgent is not launching Session Analyzer because it has been disabled using the registry key 'AvoidLaunchAnalyzer'.
 - **Configured:** The FlexxAgent is configured to launch Session Analyzer in all the user sessions.
 - **Installed:** Session Analyzer is already installed in the workspace so FlexxAgent won't try to launch it.
 - **No compatible:** FlexxAgent no inicia Session Analyzer porque no es compatible con el sistema operativo del workspace (por ejemplo, una versión de Windows de 32 bits).



Tabs

The tabs at the bottom show grouped specific information. The following are included:

- [Trabajos](#trabajos)
- [Rendimiento](#rendimiento)
- [Alertas](#alertas)
- [Registro de eventos](#registro-de-eventos)
- [Discos](#discos)
- [Historial de arranque](#historial-de-arranque)
- [Seguridad](#seguridad-edr)
- [Directiva de grupo (GPO)](#directiva-de-grupo-gpo)
- [Dispositivos PnP](#dispositivos-pnp)

Jobs

Sessions Performance **Jobs** Alerts Event log Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices System < >

Info	Status	Creation date ↓	Start time ↓	End time	Owner
[Redacted]	✓ Completed	25/09/2024 18:29:56	25/09/2024 18:29:56	25/09/2024 18:30:05	[Redacted]
[Redacted]	✓ Completed	19/07/2024 10:38:47	19/07/2024 10:38:47	19/07/2024 10:38:57	[Redacted]
[Redacted]	✓ Completed	19/07/2024 9:30:45	19/07/2024 9:30:45	19/07/2024 9:31:02	[Redacted]

Count=3

< 1 >

Page size 20



All actions performed from servers on one or more devices are audited in the job queue. This tab allows you to check the jobs performed for the active device without having to go to the section.

Performance

In the performance tab, graphical information about CPU, memory, and bandwidth usage is displayed.

Alerting





Sessions Performance Jobs **Alerts** Event log Connection logs Windows services Disks Boot history Notifications Security Compliance Group Policy (GPO) PnP Devices System < >

Alert definition ↑	Information	Alert status	Alert start	Date notified	Element	Severity	User
No data to display							

Count=0

This tab shows a list of all active alerts, if any, for the active device. When a device has an active alert, a message is also displayed at the top of the screen.



Operations



Active alerts:
- [Critical] Low storage free space % for Workspace: Drive: C: Free space: 2 GB, Used Percentage: 98%

General

Events Log



Event log data collection is enabled. Event types: Error and Critical, Event [redacted] (from agents with version >= 22.10.0.0), Frequency: 10 minutes.

Date ↓	Level	Source	Event ID	Message
10/10/2024 22:07:29	Error	Microsoft Office 16 Alerts	300	Failed to parse element: VersionOverrides StoreId=(null) P1: Apps for Office P4: New Document
10/10/2024 22:07:29	Error	Microsoft Office 16 Alerts	300	Failed to parse element: VersionOverrides StoreType=Unknown, StoreId=(null) P1: Apps for Office

This tab presents information about the log events present on the device; by default, it filters errors and only shows those with **Error** or **Critical** severity; it obtains them from the device in 10-minute intervals.

Using the available options in **Settings**, it is possible to modify the sampling time or include specific events by their ID.

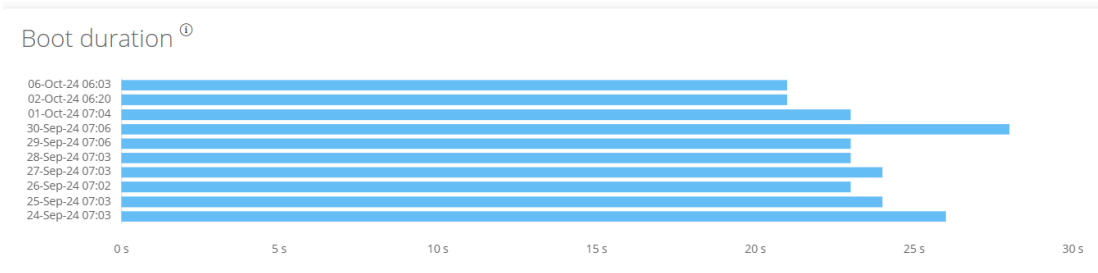
Disks



<input type="checkbox"/>	Device ID ↑	Name ↑	Volume label	Total size	Used size	% Used	OS	Location	Partition	Physical disk size
<input type="checkbox"/>	[redacted]			250 MB	0 MB	0 %		Integrated : Bus 0 : Device 14 : Function 0 : Adapter 0 : Port 3 : Target 0 : LUN 0	Disco #0, partición #0	MB
<input type="checkbox"/>	[redacted]			1.333 MB	0 MB	0 %		Integrated : Bus 0 : Device 14 : Function 0 : Adapter 0 : Port 3 : Target 0 : LUN 0	Disco #0, partición #2	MB
<input type="checkbox"/>	[redacted]			1.438 MB	0 MB	0 %		Integrated : Bus 0 : Device 14 : Function 0 : Adapter 0 : Port 3 : Target 0 : LUN 0	Disco #0, partición #3	MB

This tab offers a list view of all partitions present on all disks identified in the system, as well as statistics on their capacity and occupancy levels.

Boot history

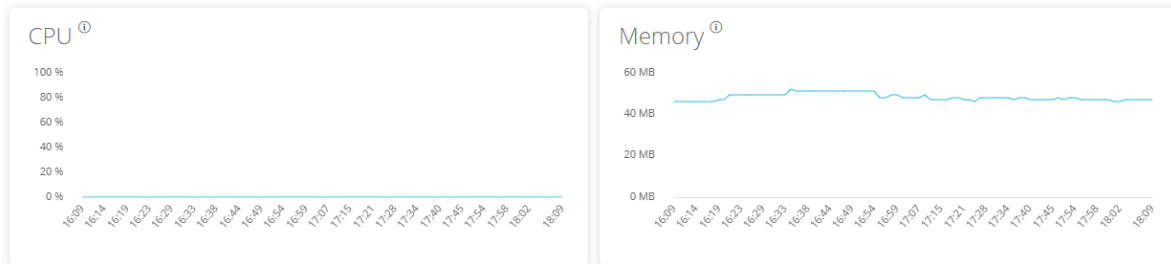


Esta pestaña permite ver una gráfica de registros históricos del tiempo ocupado en el arranque (boot) del dispositivo.

Security (EDR)

FlexxAgent will detect if a device has CrowdStrike Falcon installed and display the information on the **EDR** tab of the device detail view. There you can check the installed version, the correct or incorrect execution status, as well as the CPU and memory resource usage.

EDR ⓘ
CrowdStrike (7.06.17807.0) ✔ CrowdStrike status: Installed and working



Detections

Export to ▾



<input type="checkbox"/>	Severity	Created	Username	Status	Displayname	Description	Cmdline ↑
<input type="checkbox"/>	High	13/02/2024 12:35:17		Active	ProcAccessLsass	An unusual process accessed lsass. This might indicate an attempt to dump credentials. Investigate t	"C:\Users\user\OneDrive\user\OneDrive\SpecialRun 14001bb98 17576
<input type="checkbox"/>	High	19/01/2024 11:16:49		Active	ProcAccessLsass	An unusual process accessed lsass. This might indicate an attempt to dump credentials. Investigate t	"C:\Users\user\OneDrive\user\OneDrive\SpecialRun 14001bb98 24036

Count=2

If it is also desired to capture detections to display them in Workspaces, access data must be configured via API to the CrowdStrike Falcon instance in the **CrowdStrike** section of **Level 3** -> **Messaging service (IoT Hub)**.

Group Policy (GPO)

Note: GPO info update interval is 10 minutes.

Type ↑	Display name ↑	Last application time
...	...	10/10/2024 22:35
...	...	10/10/2024 22:35
...	...	10/10/2024 22:35
...	...	10/10/2024 22:35
...	...	10/10/2024 22:35
...	...	10/10/2024 22:35



This tab shows the information of the group policies applied on the active device. Allows viewing information of policy names such as the name and time of check.

PnP Devices

This tab allows you to see at the top the PnP devices that are in error status, which may be due to hardware or driver malfunction or incorrect configuration of the device or its driver.

Device manager entries with error state

FlexxAgent last PnP devices update
17/07/2024 15:03:44


Operations ▾




<input type="checkbox"/> Name ↓	Detection date	Class	Device ID
<input type="checkbox"/> Cisco AnyConnect Virtual Miniport Adapter for Windows x64	27/11/2023 13:51:47	Net	ROOT\NET\0000

Count=1

< 1 >

Page size

PnP events

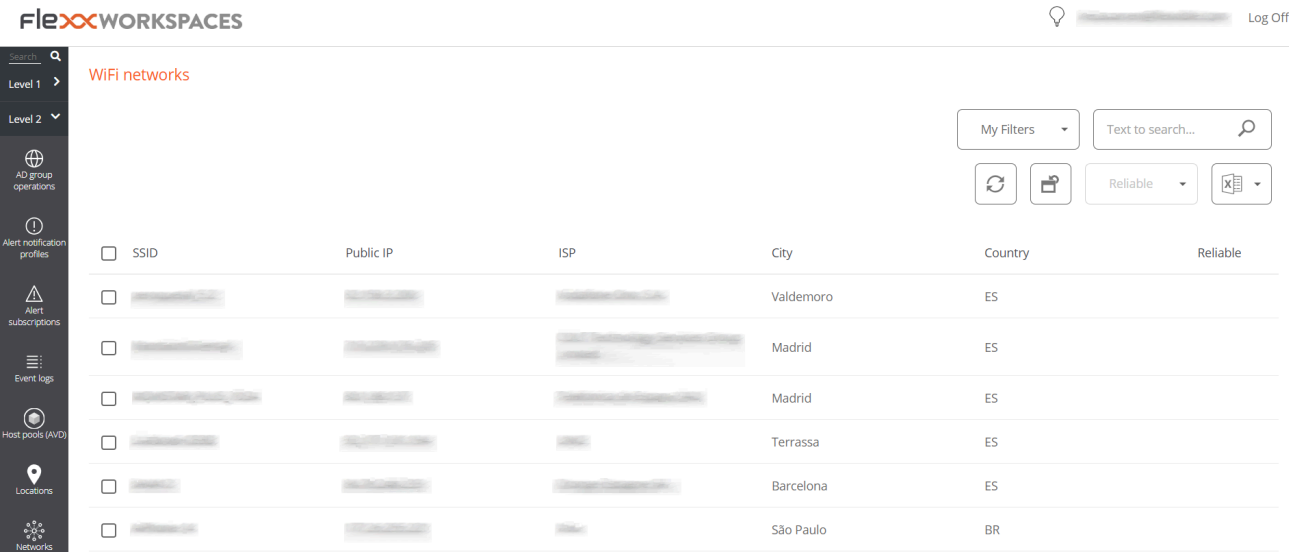
<input type="checkbox"/> Action	Date ↓	User	Caption	Device ID
<input type="checkbox"/> Plugged in	17/07/2024 16:01:37	...	Generic PnP Monitor	DISPLAY\CTX0466\2&123C1CA0&0&UID1
<input type="checkbox"/> Unplugged	17/07/2024 14:40:22	...	Generic PnP Monitor	DISPLAY\CTX0466\2&123C1CA0&0&UID1

At the bottom of the tab, all PnP events are recorded. Each time a peripheral device is connected or disconnected, a record is generated in this table.

Workspaces / Level 2 / Wireless networks

FlexxAgent collects multiple network information from devices. When FlexxAgent identifies the use of a wireless network, it is automatically created in Workspaces. These help to automatically maintain an inventory of all networks detected on devices to get precise location mapping based on network data. It is possible to associate it with [Networks](#) and [Locations](#) allowing to build a network inventory, the connected devices, the network operators in use, and much more.

List view



The screenshot shows the FlexxWorkspaces interface. At the top, there is a search bar and a "Log Off" button. The main content area displays a list of WiFi networks. The table has the following columns: SSID, Public IP, ISP, City, Country, and Reliable. The data rows are as follows:

SSID	Public IP	ISP	City	Country	Reliable
[Redacted]	[Redacted]	[Redacted]	Valdemoro	ES	
[Redacted]	[Redacted]	[Redacted]	Madrid	ES	
[Redacted]	[Redacted]	[Redacted]	Madrid	ES	
[Redacted]	[Redacted]	[Redacted]	Terrassa	ES	
[Redacted]	[Redacted]	[Redacted]	Barcelona	ES	
[Redacted]	[Redacted]	[Redacted]	São Paulo	BR	

The list view allows you to see the relation of wireless networks discovered by the agent. You can search, filter, sort, show or hide columns, and more.

It also allows selecting a wireless network from the list and marking it as a trusted network; in that case, if FlexxAgent detects the network again in more than five devices, it will recreate it.

Detail view

The screenshot shows the FlexxWorkspaces interface. At the top, there is a search bar and a 'Log Off' button. The main content area is titled 'WiFi network' and displays the following fields:

SSID	Public IP	Source device	<input type="checkbox"/> Reliable
ISP	City	Country	Network
	Madrid	ES	

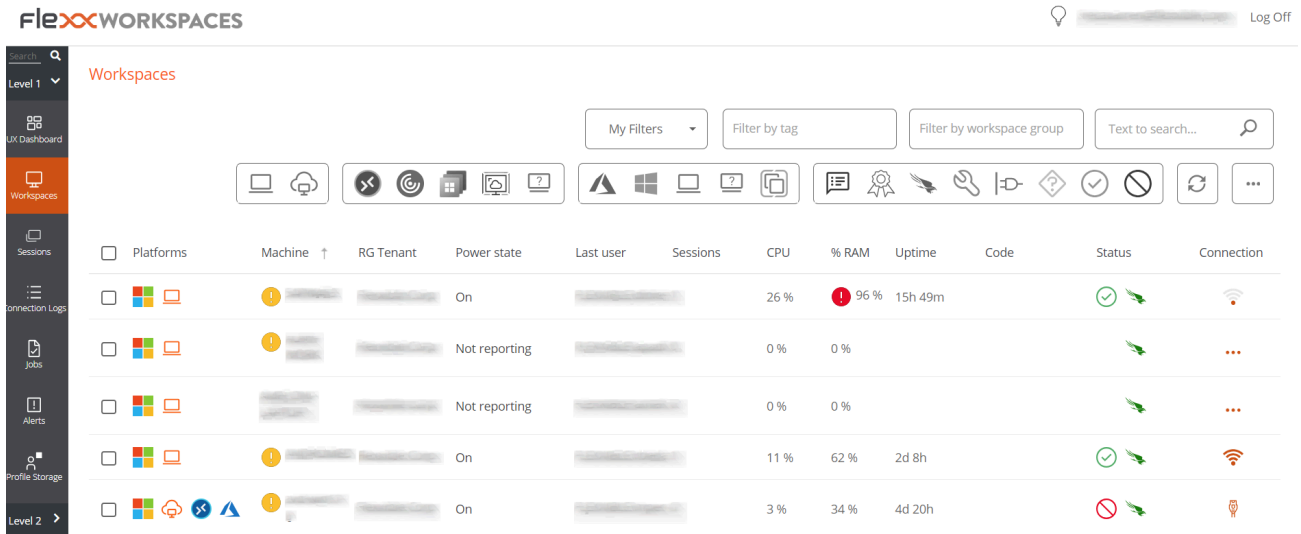
Below the fields, there are buttons for 'Operations' and 'Power state'. The bottom section shows a table with columns for 'Machine name', 'User name', and 'Power state', but it currently displays 'No data to display' and 'Count=0'.

At the top block of the detailed view of a network, there is a list of collected fields:

- **SSID:** network name; by default the CIDR followed by the public IP. Allows customization.
- **Public IP:** The public IP for internet access of the network
- **Source device:** name of the device that declared the wireless network for the first time.
- **Trusted:** shows if this wireless network has been marked as trusted.
- **ISP:** connectivity provider
- **City:** Shows the city from which the internet exit is established.
- **Country:** shows the country from which the internet access is established.
- **Network:** allows associating this wireless network with a **Network**.

Connected devices to the network are displayed at the bottom.

Workspaces / Guides and tutorials for Workspaces



The screenshot displays the FlexxWorkspaces dashboard. At the top, there is a search bar and a 'Log Off' button. Below the search bar, there are filter options: 'My Filters', 'Filter by tag', 'Filter by workspace group', and a search input field. A toolbar with various icons for workspace management is visible. The main content is a table with the following columns: Platforms, Machine, RG Tenant, Power state, Last user, Sessions, CPU, % RAM, Uptime, Code, Status, and Connection. The table contains five rows of workspace data.

Platforms	Machine	RG Tenant	Power state	Last user	Sessions	CPU	% RAM	Uptime	Code	Status	Connection
[Icons]	[Machine ID]	[Tenant]	On	[User]	[Sessions]	26 %	96 %	15h 49m	[Code]	✓	[Connection]
[Icons]	[Machine ID]	[Tenant]	Not reporting	[User]	[Sessions]	0 %	0 %		[Code]	✓	[Connection]
[Icons]	[Machine ID]	[Tenant]	Not reporting	[User]	[Sessions]	0 %	0 %		[Code]	✓	[Connection]
[Icons]	[Machine ID]	[Tenant]	On	[User]	[Sessions]	11 %	62 %	2d 8h	[Code]	✓	[Connection]
[Icons]	[Machine ID]	[Tenant]	On	[User]	[Sessions]	3 %	34 %	4d 20h	[Code]	✗	[Connection]

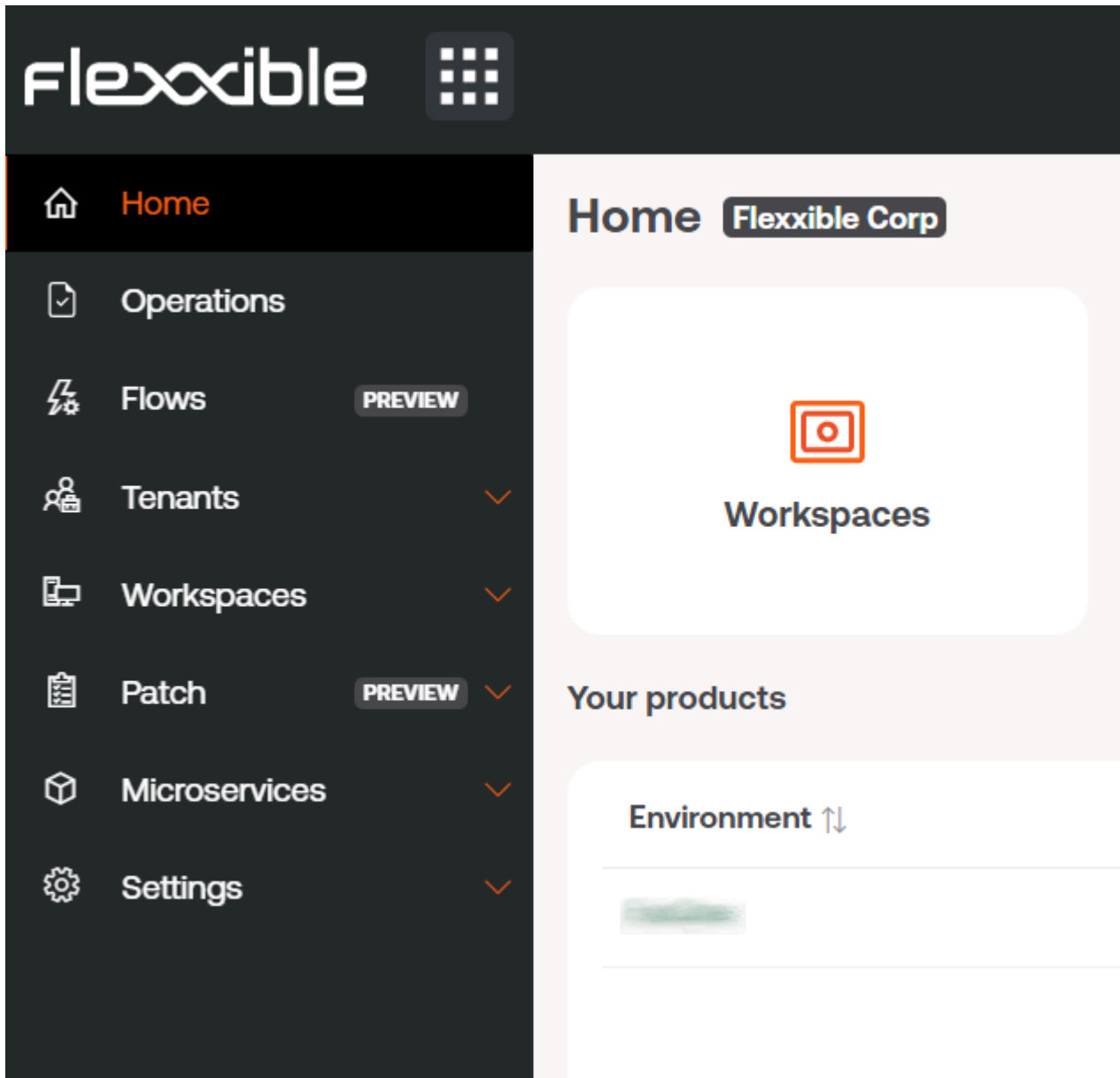
This section offers resources designed to maximize the use of Workspaces. It includes detailed instructions on configuring and using functionalities, along with advanced settings that will allow you to tailor Workspaces to specific needs.

Each guide has been created to facilitate its understanding and application, regardless of the user's experience level. In addition to step-by-step instructions, you will also find detailed procedures and solutions to common problems.

Workspaces / Guides and tutorials / Configure email alerts

Any operator authorized by the Level 2 role can configure the receipt of email alerts:

1. Open the `Workspaces` module.



2. In the left menu, go to `Level 2` -> `Alert Notification Profiles`.

3. Click on **New** in the top right. This action will allow you to create a new profile to receive alert notifications. You need to define a name for the profile and the email address or addresses to which notifications will be sent.

4. Click the **Save** button in the top right.
5. Next, link an alert definition to the notification profile that was created in previous steps. Select the **Alerts Subscriptions** option from the **Level 2** menu in the left navigation bar. Click on the **New** button on the top left. A panel like the following will appear:

FlexxWORKSPACES Log Off

Alert subscription

Save Delete Refresh

Alias

Alert definition

Alert notification profile

Last execution time

13/10/2024 21:55:12

6. Name the subscription with an alias, select the alert or alerts using the magnifying glass icon on the right side of the field. Using this icon will bring up a floating panel to search and select one or more alerts. Then, select the desired subscription profile (in this example, the one created in previous steps).

7. Once the fields are filled, click the **Save** button. The new subscription will appear in the list.

Alert subscriptions

Mis filtros Text to search...

Nuevo Eliminar Refresh Print X

Alias ↑	Perfil de notificación de alertas	Definición de la alerta
<input type="checkbox"/> Duración del inicio de sesión	Documentacion	Duración del inicio de sesión

Count=1

< 1 >

Tamaño de página 20

In this example, each time an alert is issued about the session startup duration, the notification profile called “Documentation” will be notified by email to the address or addresses specified in its definition.

Workspaces / Guides and tutorials / How to provide remote assistance to a user

Remote assistance allows direct operation on a user's workstation desktop. The operator acts as the device administrator and works remotely with the user's desktop.

To provide remote assistance:

1. Access the **Workspaces** module.
2. Access the **Workspaces** or **Sessions** section from the navigation bar on the left side.

Sessions allow searching for a specific user, while **Workspaces** lists the available devices. When performing remote assistance on a device, it will be conducted on the session that is currently active.

1. Search and/or select the device/session on which remote assistance will be performed.

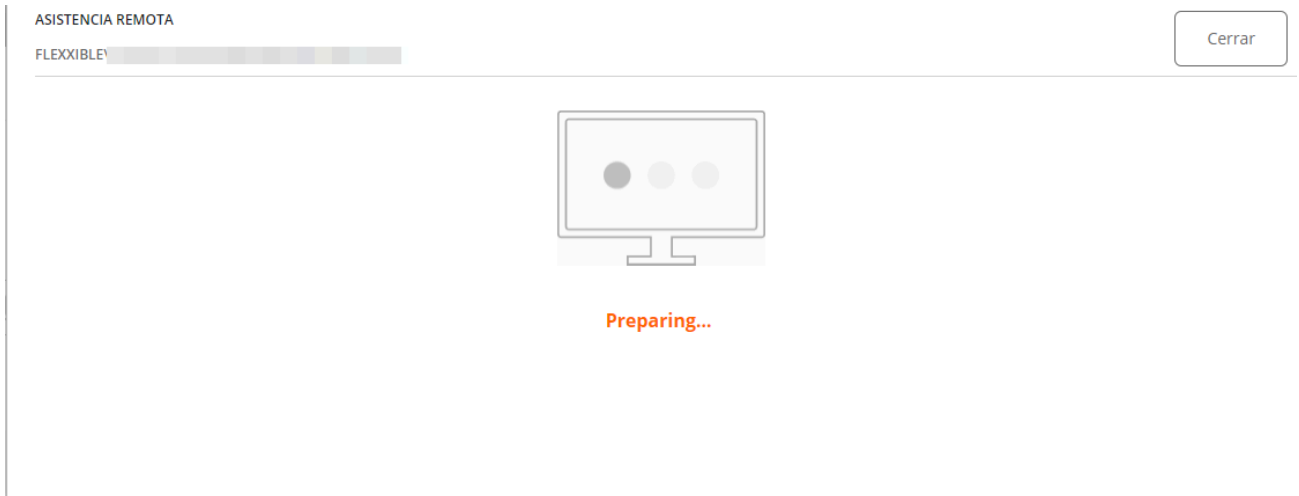
The screenshot shows the FlexxWorkspaces interface. The top navigation bar includes the FlexxWorkspaces logo, a search bar, and a 'Log Off' button. The left sidebar contains navigation options: UK Dashboard, Workspaces (highlighted), Sessions, Connection Logs, Jobs, and Alerts. The main content area is titled 'Workspaces' and features a table with columns: Platforms, Machine, RG Tenant, Power state, Last user, Sessions, CPU, % RAM, Uptime, Code, Status, and Connection. Above the table is a toolbar with icons for various actions, including an 'Operations' button with a dropdown arrow. A search bar and filter options are also present at the top of the main area.

4. Open the **Operations** menu on the button in the upper bar of the equipment list. In some cases, as in the previous image, the button will be behind the button with three dots (...) on the mentioned bar. Next, select:

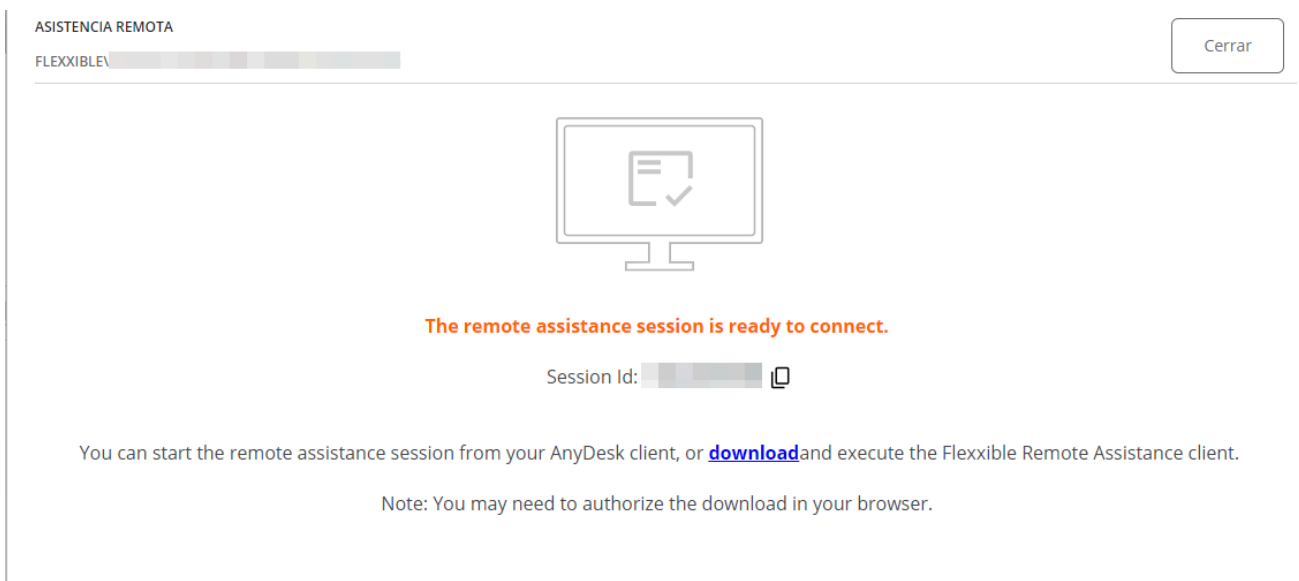
Operations -> **Remote Assistance** -> **Start remote assistance**

5. Select **Ok** to confirm the operation.

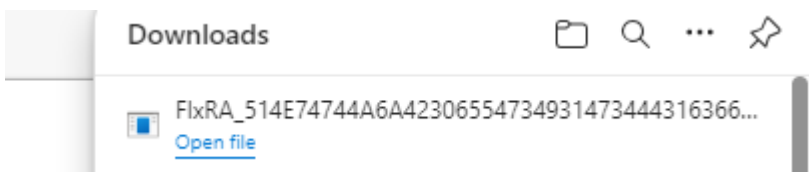
6. A floating panel will appear indicating that remote assistance is being prepared.



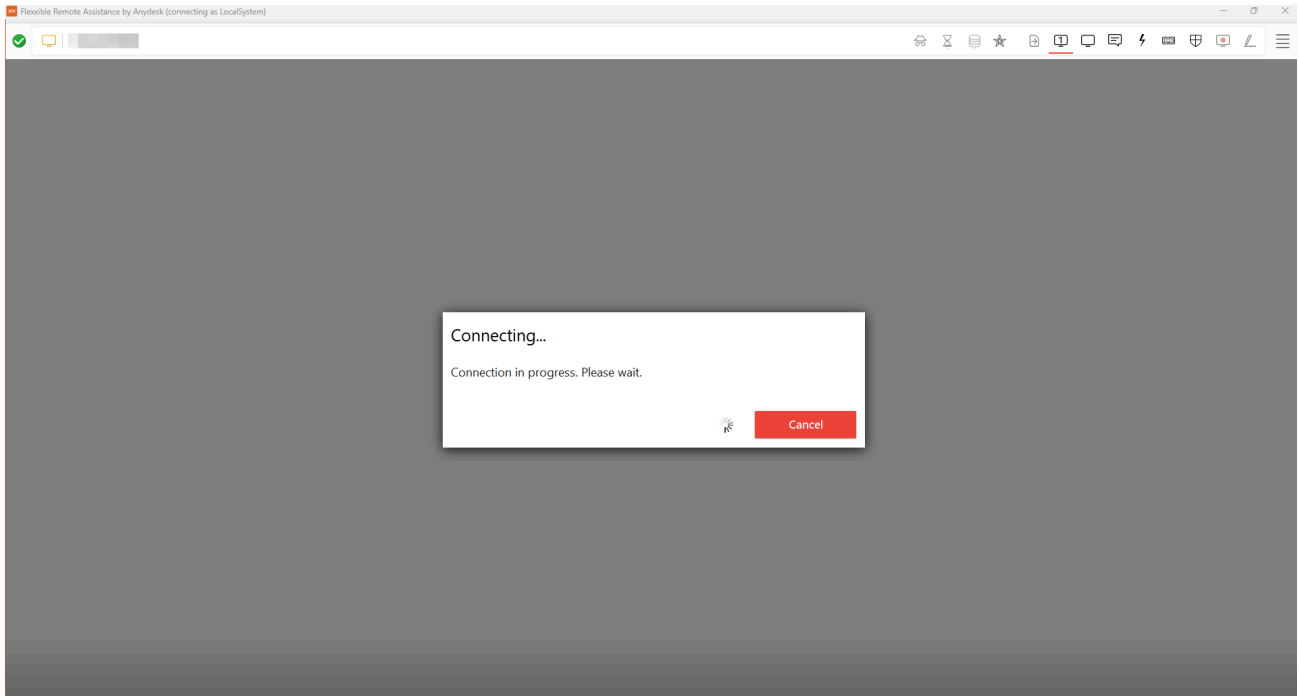
7. Once prepared, the information will appear.



8. This assistance is temporary, and the operator will need to download an executable file from the `download` link in this floating panel.

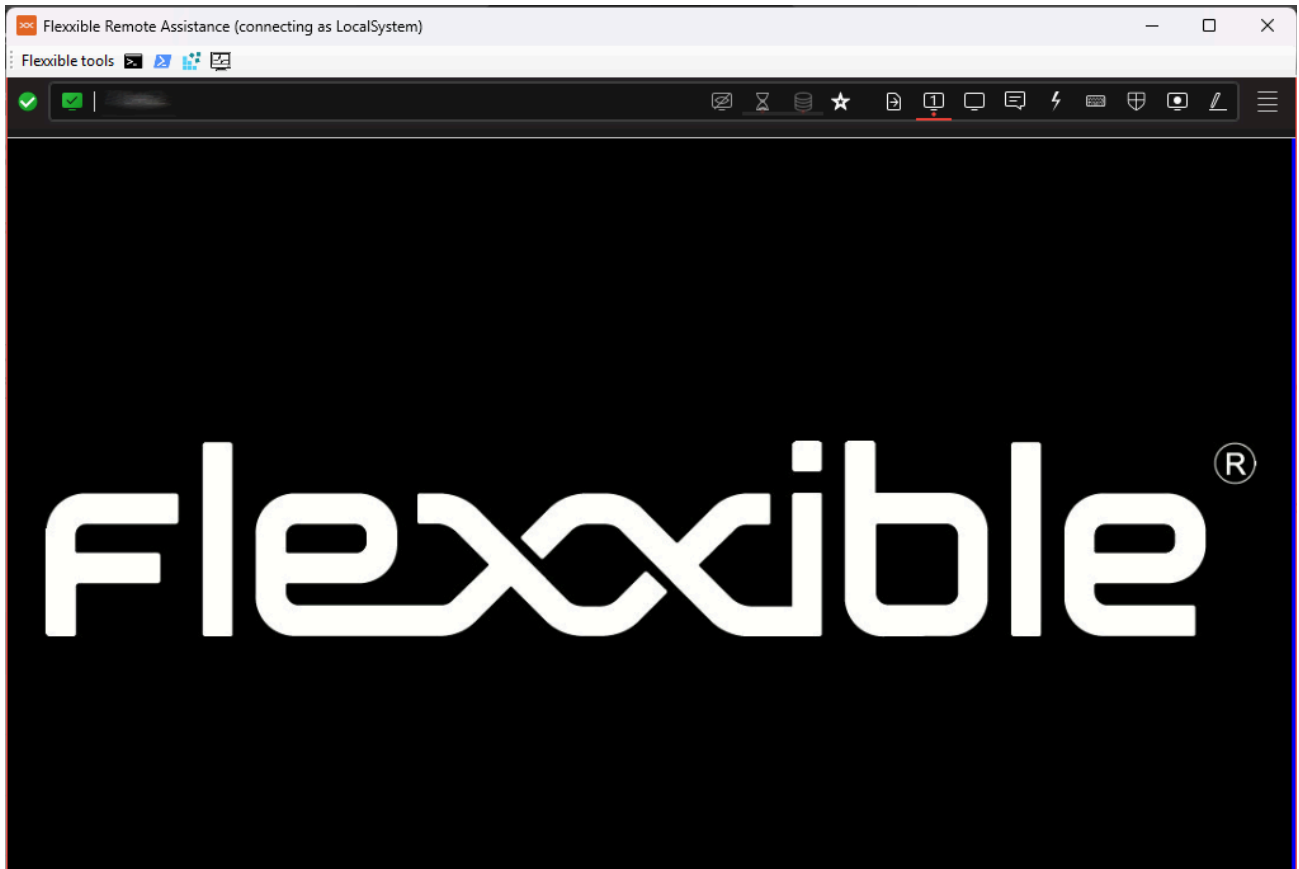


9. Download and run the file. This operation will run an application to facilitate remote assistance. The operator will have to wait for the user to give permission to perform remote assistance on their device.



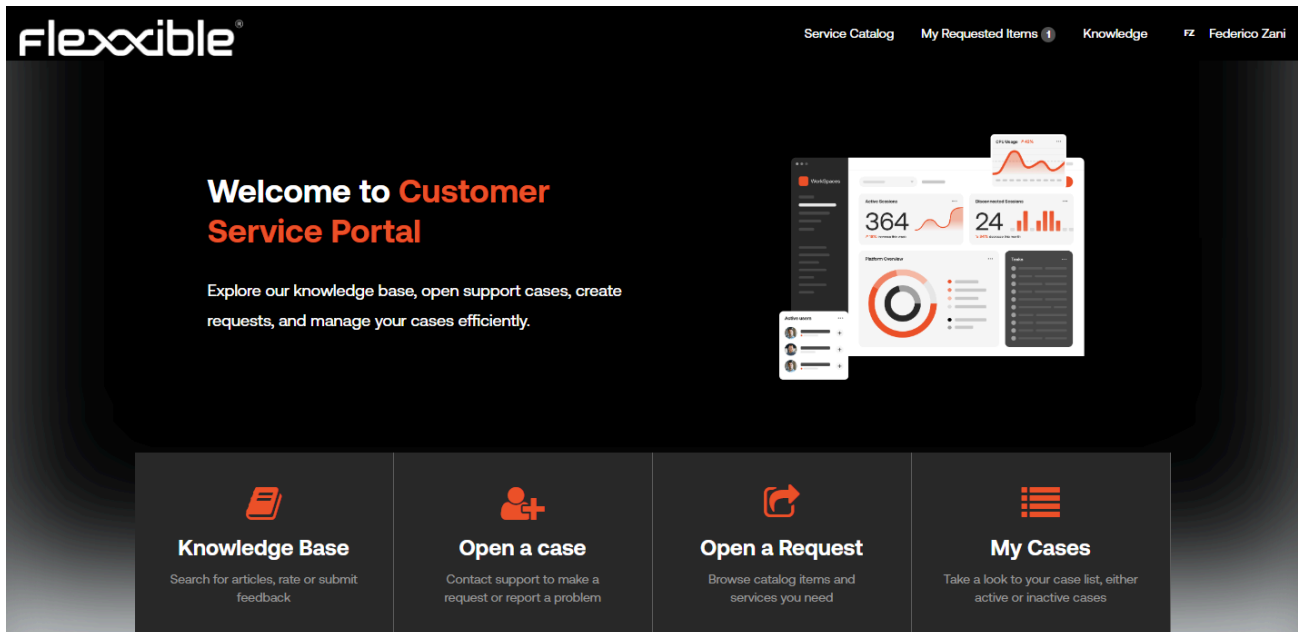
10. Once the user grants their consent, the remote assistance session can be conducted. The operator has access to the user's desktop and can perform operations and provide the needed help to solve the user's problems.

If the operator has the necessary permissions and is in a user session without administrative permissions, they can use **Flexible Tools** to act on the device with administrative permissions:



Automate

It's the module that provides users and IT teams, through a portal, a catalog of microservices that can be executed automatically, offering a self-service panel, accessible via browser for the user. It also offers the possibility to contact the specialized support team for any incidents, requests, or queries.



Thanks to the workflows developed by the Flexible team using ServiceNow, it is possible to execute the microservices based on approval workflows defined with the client and proactive management in incident resolution. The fact that the Automate module is based on ServiceNow also allows easy integration with customers' CRM tools, whether by email, APIs, Integration HUB, etc. In this way, end users, technical staff, and administrative personnel are in direct contact with Flexible's operations teams.

From Automate it is possible to:

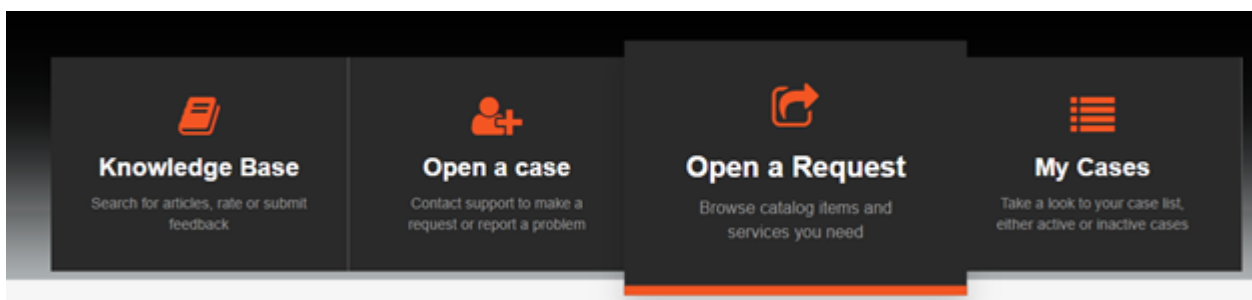
- [Publish a self-service dashboard for end users and technical teams.](#)
- [Contact Flexible support services.](#)

Automate / Self-Service Panel

Automate is a module developed for the interaction of the client with the Flexible support team and is also responsible for the automatic execution of microservices that, due to their particular configuration, need to go through an approval workflow or the selection of various parameters before they can be executed.

Features

On the main screen of the Automate portal, there's a section called “Open a Request”.



This section leads to a catalog of microservices available based on the services contracted by the client. This catalog may contain automations for FlexxClient, FlexxDesktop, or even both, depending on the active subscription products.

To access the available microservices, the user only needs to select the available/desired option and the different categories with the existing microservices will be displayed. By selecting one of the categories, the enabled microservices for it will appear on the right:

Parameters

Certain microservices may have different selectable values; for example, in the case of “Get Wifi information”, where the user can select the type of information they want to obtain:

* Option ?

Please, check what the different options below before execute the microservice.

- networks mode=BsSid** -Shows wireless networks within the range.
- all** - Shows complete wireless device and networks information.
- allowexplicitcreds** - Shows the allow shared user credentials settings.
- autoconfig** - Shows whether the auto configuration logic is enabled or disabled.
- blockednetworks** - Shows the blocked network display settings.
- createalluserprofile** - Shows whether everyone is allowed to create all user profiles.
- drivers** - Shows properties of the wireless LAN drivers on the system.
- filters** - Shows the allowed and blocked network list.
- hostednetwork** - Show hosted network properties and status.
- interfaces** - Shows a list of the wireless LAN interfaces on the system.
- networks** - Shows a list of networks visible on the system.
- onlyUseGPProfilesforAllowedNetworks** - Shows the only use GP profiles on GP configured networks setting.
- profiles** - Shows a list of profiles configured on the system.
- randomization** - Shows whether MAC randomization is enabled or disabled.
- settings** - Shows the global settings of wireless LAN.
- tracing** - Shows whether wireless LAN tracing is enabled or disabled.
- wirelesscapabilities** - Shows the wireless capabilities of the system

networks mode=BsSid

In other cases, it is necessary for the user to directly enter the variable value of the microservice execution; for example, in “Kill Process by EXE name” it will be the user who must indicate the name of the executable they want to remove from the computer:

*Workspace

*executable

Approval Workflow

Certain requests may require approval before they can be executed automatically, as they may have a financial impact, or perhaps require prior analysis to ensure they can be executed safely. For example, the deployment of new virtual desktops within a DaaS service environment, or the modification of a registry key on physical machines for specific application configuration.

Automate allows approval workflows to be defined for the microservices identified within that casuistry. By default, there are two types of approval flows:

- Approval by a client or MSP manager: in this case, one or more users within the organization with permissions to approve requests are identified. When a user requests the execution of a microservice that requires approval, the approvers will receive an email indicating the details of the request, as well as the possibility to approve, reject it directly from the email, or access the request for more information.
- Approval by a client or MSP manager and the Flexible manager: this type of approval flow is indicated for requests where new resources are deployed within a FlexxDesktop environment, where Flexible is responsible for the service (FlexxDesktop Advanced, Enterprise, or Edge). In this way, the request is analyzed by the technical team before execution to ensure it does not affect the service provided to the client.

The image below shows an example of the notification automatically sent by the system requesting approval for the execution of the microservice to create a new Azure

subscription. In this case, given the economic impact, the client has decided to include it within the approval flows.

Hi [REDACTED],

You have received an approval request

Approval Request Details:

- **Short Description:** Create Azure Subscription for [REDACTED]
- **Priority:** 4 - Low
- **State:** Requested
- **Approval for Approval history:**

22/07/2024 11:06:42 CEST - System	Approval history
[REDACTED] requested to approve task	

Justification:

Nuevo despliegue [REDACTED]

Sign In Name:

[REDACTED]

Subscription Name

[REDACTED]

Approval Activity:

You are the sole approver.

✓
 Approve

✗
 Reject

Click here to view Approval Request: [LINK](#)
 Click here to view Requested Item: [LINK](#)

Default Microservices Included

Flexible has an Automate catalog of microservices available to FlexxDesktop customers.

The following are included:

- Active Directory:
 - Active Directory VM reset Account
 - Create AD user account
- Image Management
 - Create Snapshot from Template
 - Restore Snapshot from Template
- Session Management
 - Backup User Profile

- Close user Session
- Close all user sessions
- Reset user Profile
- Restore user profile Backup
- Workspace Management
 - Create a set of APPServers or VDIs
 - Execute action over workspace
 - Execute action over workspace group
 - Modify Resources Assigned to VM
 - Set maintenance ON/OFF for a workspace
 - Set maintenance ON/OFF for a workspace group
 - Update Set of VMs

The client can request through their service provider or directly to Flexible the creation of other microservices to meet the specific requirements of their operation.

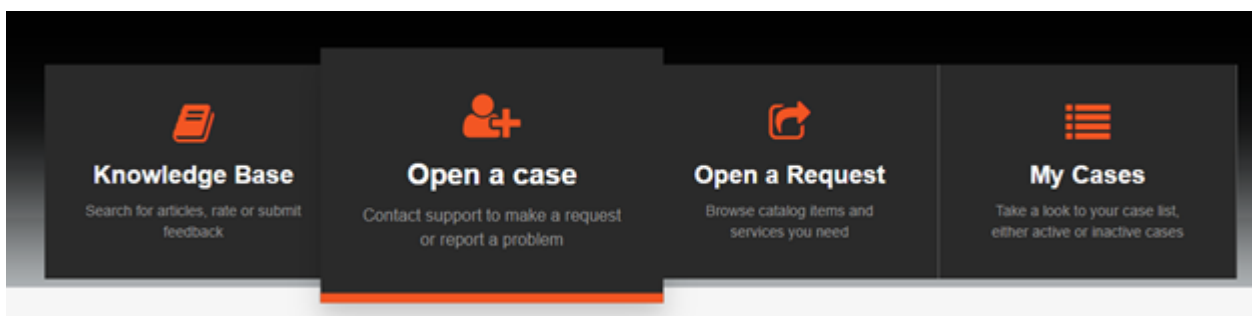
Automate / Support

Automate allows end users, technical staff, and administrative personnel to interact with the Flexible team through support options that allow opening and staying updated on the lifecycle of support cases.

Case opening

For any user, whether from the technical team or an end user, to open a support case with Flexible, they must have been previously registered through the portal with the necessary permissions to access Automate services.

Once the user is inside the portal, the option to open a case will appear in the central part of the page, as shown in the following image:



Once the user clicks on [Open a case](#), a screen will appear where, based on their permissions, they can select the account on which they want to open the case or if they want to open it on behalf of someone else.

Create a Customer Case

Create Cases for an account, a consumer, a business location, or for yourself

* Indicates required

* Reported By

Daniel Zurdo Admin

* Account

Contact

Category

-- None --


















* Environment


Impact ?

-- None --

* Subject

Description



 Paragraph
 















 Add attachments

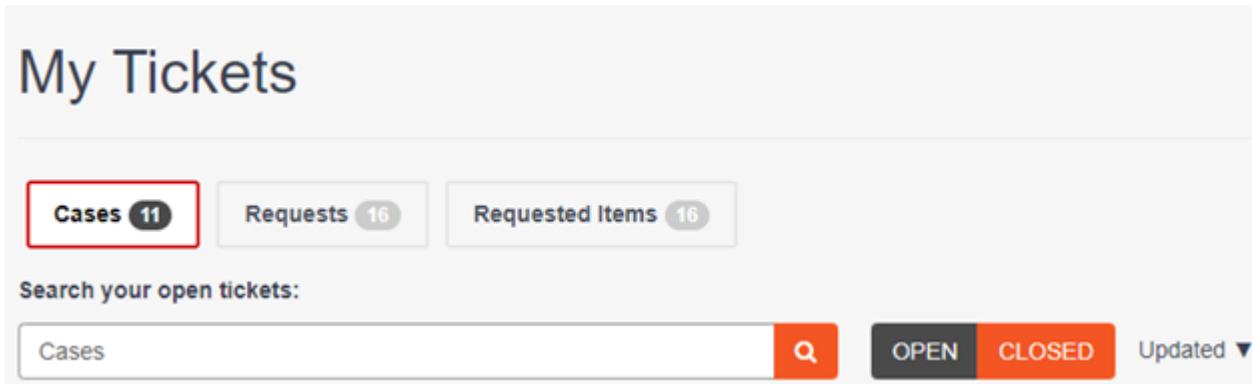
Required information

Field	Caption
reported by	It will always be the user who opens the case.
Account	It will be selectable if the user belongs to an MSP and has more than one client/account assigned.
contact	It is used to open the case “on behalf of”; that is, on behalf of another user who has the issue, query, or request.
Environment	It is related to the tenant or reporting group where the user's team with the issue, query, or request is located.
Impact	It is the categorization of the urgency of the case being opened; it can have three values: “High”, “Medium”, and “Low”.
Subject	It is to provide a brief description of what is required.
Description	It is to provide case details so that the operations teams can start working on it. The more detail provided, the easier it will be to complete the request.

There is also an option at the bottom right of the form to add attachments to the request. Images or documents that can facilitate the completion of the requested task can be included.

Case tracking

Once a case has been created on the main screen, information about cases will appear under the **My tickets** section, both those being managed and those already resolved.

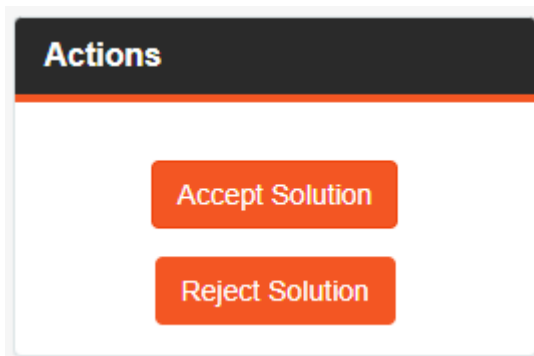


This information is also accessible from the upper menu of the page, in the [My Cases](#) section.

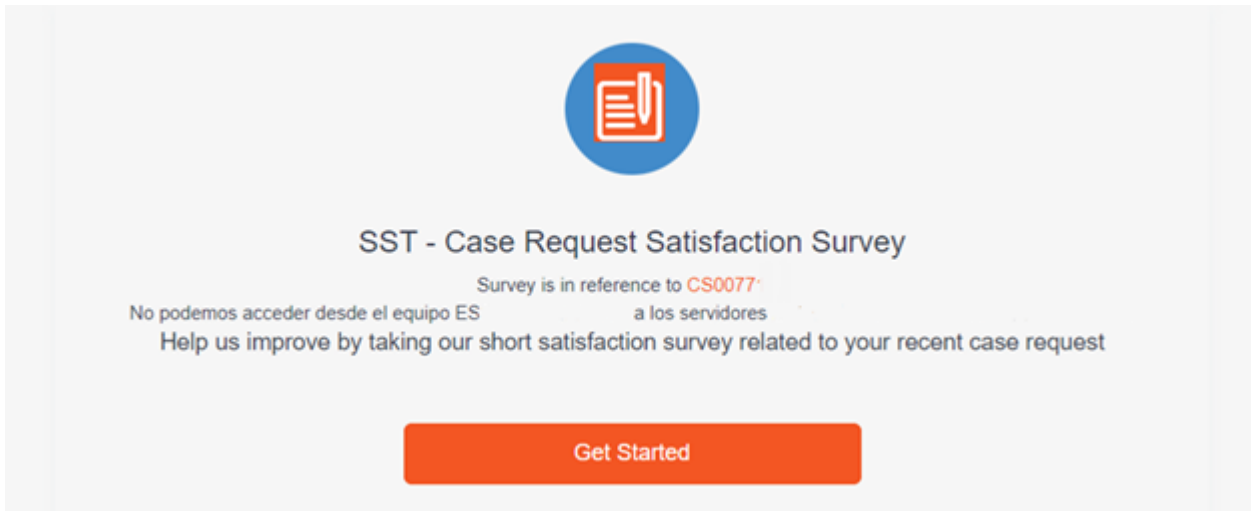
Case statuses

A case is in the [New](#) state when it has been created.

When a case has been resolved, it changes to the [Resolved](#) state. The user can accept the resolution, in which case the ticket will change to the [Closed](#) state, or reject the resolution so the case reverts to the [Open](#) state. To reject or accept the request, it is necessary to access the ticket and in the [Actions](#) section select the desired option.



If the resolution acceptance is selected, the system may ask you to complete a two-question survey.



If the rejection of the solution is selected, a new screen will appear requesting the reasons for rejecting it. Once the information has been added in the text field in the form, the **Reject Solution** button will be enabled as shown in the following image:

The image shows a dialog box titled "Reject Solution" with a close button (X) in the top right corner. Inside the dialog, there is a question: "What is the reason for rejecting this solution?". Below the question is a text input field containing the text "Still happens". At the bottom of the dialog, there are two buttons: "Cancel" and "Reject Solution".

Case closure

While the Flexible team is working on a case, the user can close it if the issue has been resolved or for any other reason. To do this, access the case and, within the **Actions** section, press **Close case**.

Monitor

Monitor is a monitoring module based on Grafana Cloud, which allows graphical visualization of information obtained from Workspaces and Analyzer. It queries data from the APIs and displays them in custom graphs for good information management. Its main function is to help monitor and analyze various data sources in real-time, facilitating the interpretation and tracking of systems and applications.

System and application monitoring

Monitor supervises systems and applications. It can monitor the status and performance of devices linked to Workspaces, as well as the applications installed on them.



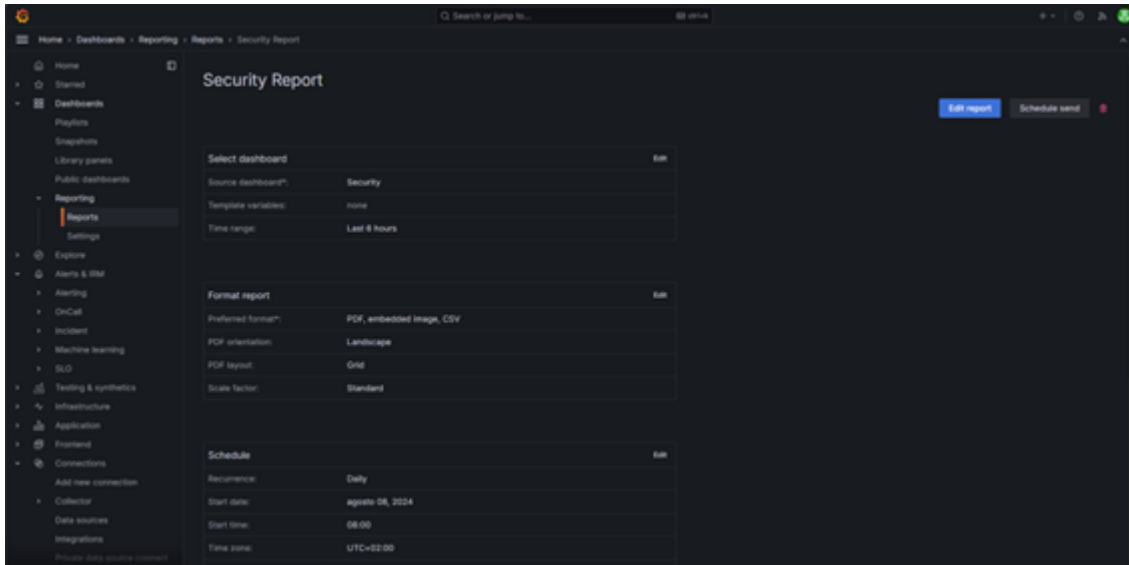
Real-time data visualization

With Monitor, you can see all the information from Workspaces and applications in real-time. It allows setting specific time intervals for each dashboard to emphasize specific moments. It also helps identify and prevent errors as they happen and to analyze incidents by time intervals.



Analysis and reports

One of Monitor's key features is its ability to analyze data in detail and generate automatic reports. This is useful to understand how resources work, make informed decisions, and improve efficiency.



Data sources

Monitor can integrate with multiple data sources. This functionality allows gathering and visualizing information from different tools. Currently, by obtaining data from Workspaces and Analyzer, it can provide a complete view of the systems and applications, integrating

queries to observe specific data. This integration offers various benefits such as centralizing information, correlating it, and flexibility when graphing it.

Paneles de control (dashboards)

One of Monitor's most powerful features is its dashboards, which allow you to visualize, analyze, and monitor data more efficiently by creating panels that display information obtained from data sources.

These panels not only display data graphically but also offer interactivity with the user, allowing exploration of information, application of filters, and adjustment of time ranges to analyze trends or patterns.

Some functionalities of the dashboards:

- Full customization
- Interactive visualization
- Share and collaborate

Alerts and notifications

Configurations that monitor a specific metric and send alerts when it reaches a predefined threshold. This feature allows you to stay informed in real-time about important events and take action when necessary, facilitating intervention and minimizing the impact of potential problems before they become critical incidents.

User and permissions management

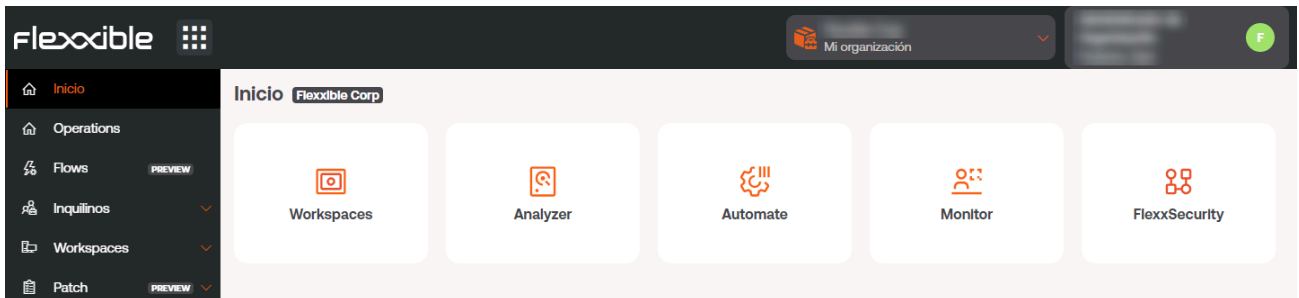
User and permissions management allows controlling who can access the dashboards, what actions users can perform, or limit access to certain data sources, helping to secure and maintain the integrity of the information.

Some key functions in user and permission management:

- User groups: allows managing users by groups, facilitating the management of permissions at a group level.

- Folder and dashboard access control: permissions can be configured at the folder or dashboard level, allowing control over who can access certain information.

Access to Monitor

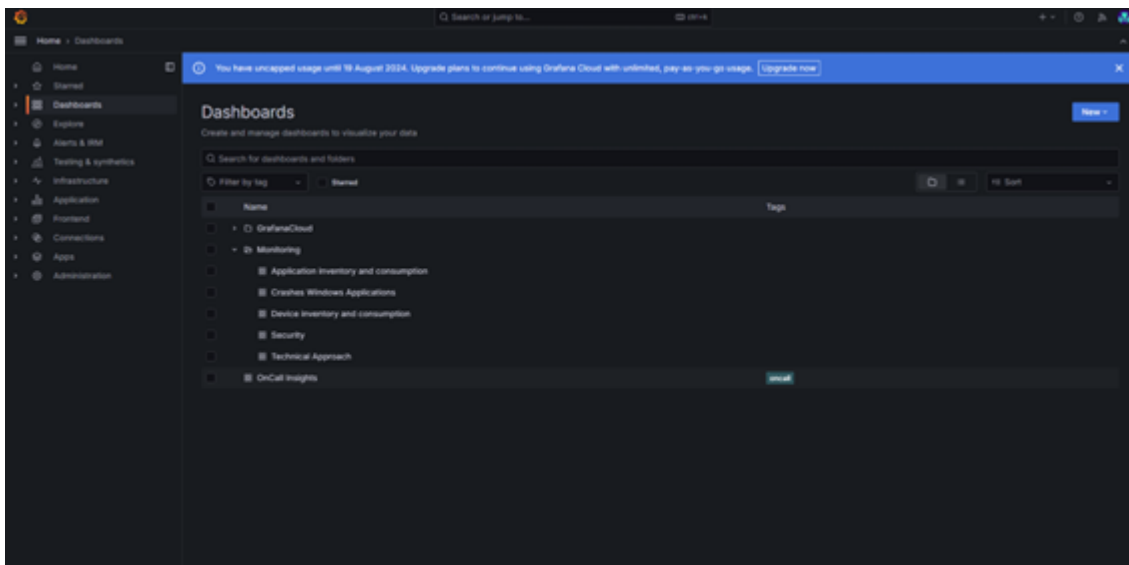


'Monitor' can be accessed from [Portal](#). Clicking on the module will lead to the Login page:

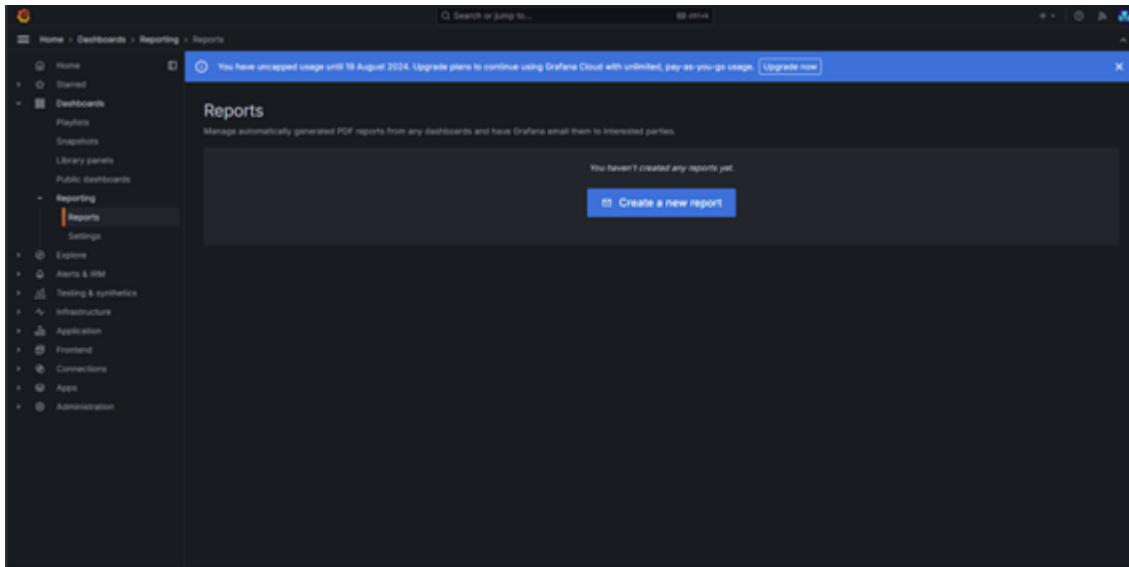
- Select the [Sign In](#) option to log in.
- Enter username and password.

Navigate

To access all available charts and navigate through them, select [Dashboards](#) -> [Monitoring](#).



You can configure or manage automatic or on-demand reports by accessing [Dashboards](#) -> [Reporting-Reports](#).



Default dashboards

There are five default charts that allow managing different aspects of the environment:

- Technical focus
- Windows application errors
- Application inventory and consumption
- Device inventory and consumption
- Security

It is possible to adapt or create custom charts depending on the focus or usage.

Use Cases

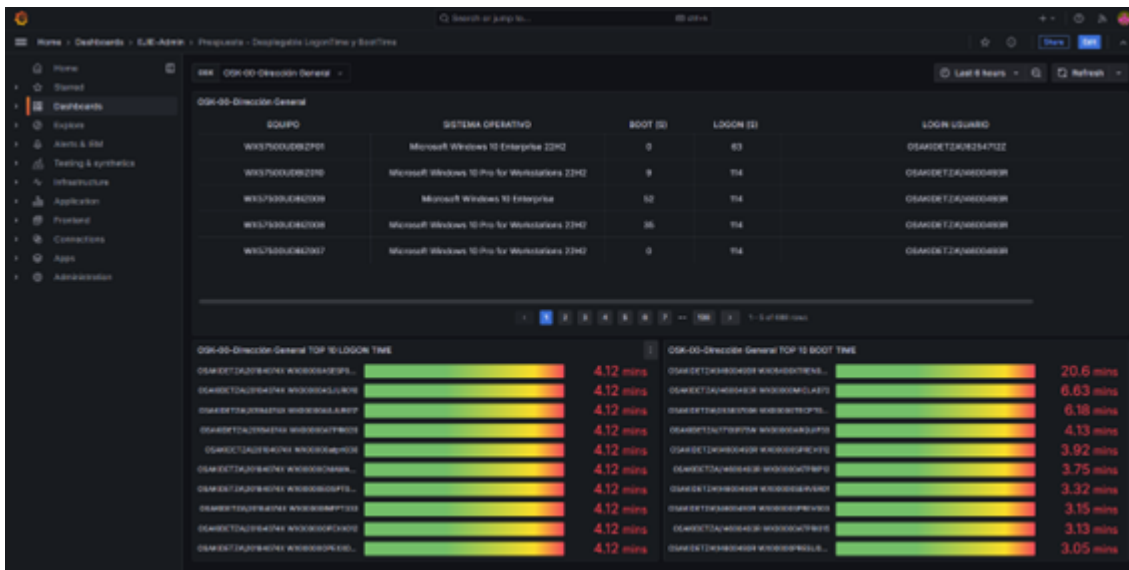
Below are a series of use cases as examples to describe Monitor's possibilities.

Uptime monitoring

If you need to ensure devices comply with usage policies by monitoring uptime and user logon time.

With Monitor, it is possible to create detailed charts showing each device's uptime and user logon time. It also offers the option to apply filters for a clear and detailed view of

devices showing high times or to generate a periodic report with this data. All of this is useful if the organization needs to ensure its devices comply with usage policies.



Application monitoring

You need to control consumption on devices, monitor the usage of a group of applications or a specific application.

Monitor creates charts that collect information on consumption, application usage, versions, etc. Thanks to Monitor's dashboards, it is possible to have an overall view of device usage to know how to act based on the analysis results.



Environmental impact assessment

Given the significant number of copies made per printer in the last month, it is necessary to monitor and manage the environmental impact associated with these activities, and thus take measures to reduce the carbon footprint generated by printers.

By obtaining the data from [Green IT](#) it is possible to create monitoring and management panels that allow you to see the analysis of the environmental impact created, taking into account factors such as color, black and white prints, equipment switching on time, etc.

