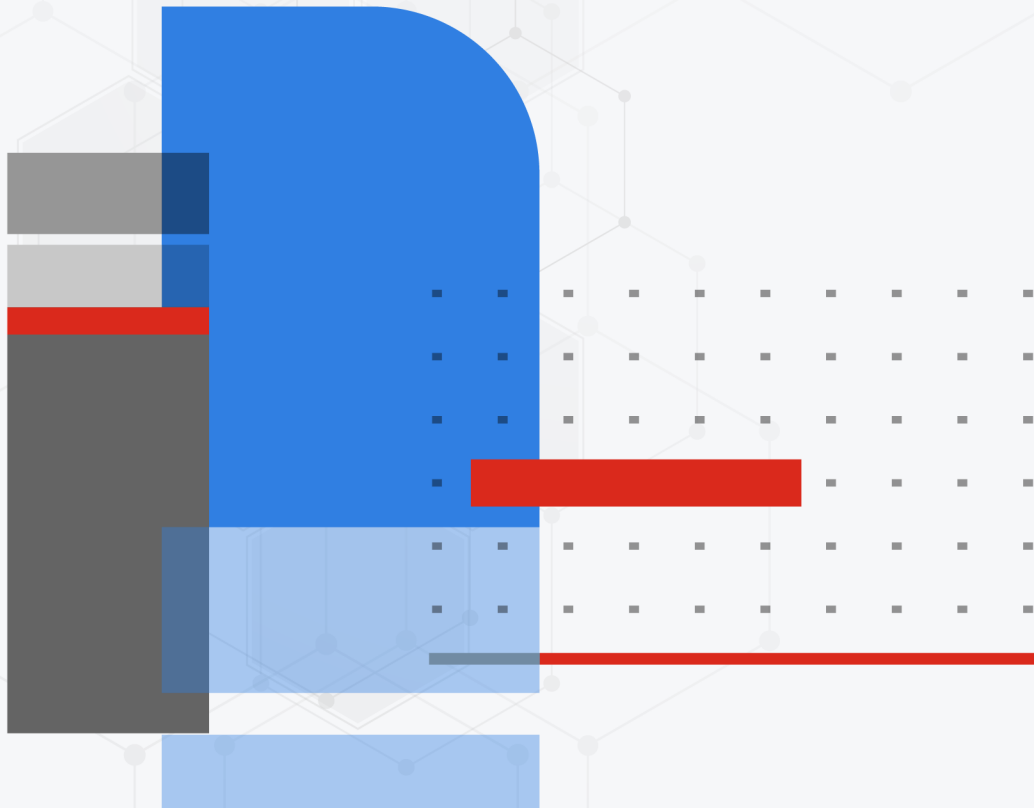




Administration Guide

FortiGate Cloud New Layout 23.2



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June 02, 2023

FortiGate Cloud New Layout 23.2 Administration Guide

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Change log

Date	Change Description
2023-04-25	Initial release. See What's new for a list of enhancements for this release.
2023-05-11	Updated: <ul style="list-style-type: none">• Introduction on page 7• Functions on page 8• Getting started with FortiGate Cloud New Layout on page 10• Port and access control information on page 13• License types on page 15• Sandbox on page 60
2023-05-31	Updated: <ul style="list-style-type: none">• User management on page 64• IAM users on page 65• FortiGate Cloud users on page 67• Account Setting on page 68
2023-06-02	Added Migrating legacy FortiGate Cloud users to IAM users on page 69 . Updated To deploy a device to FortiManager: on page 24 .

Introduction

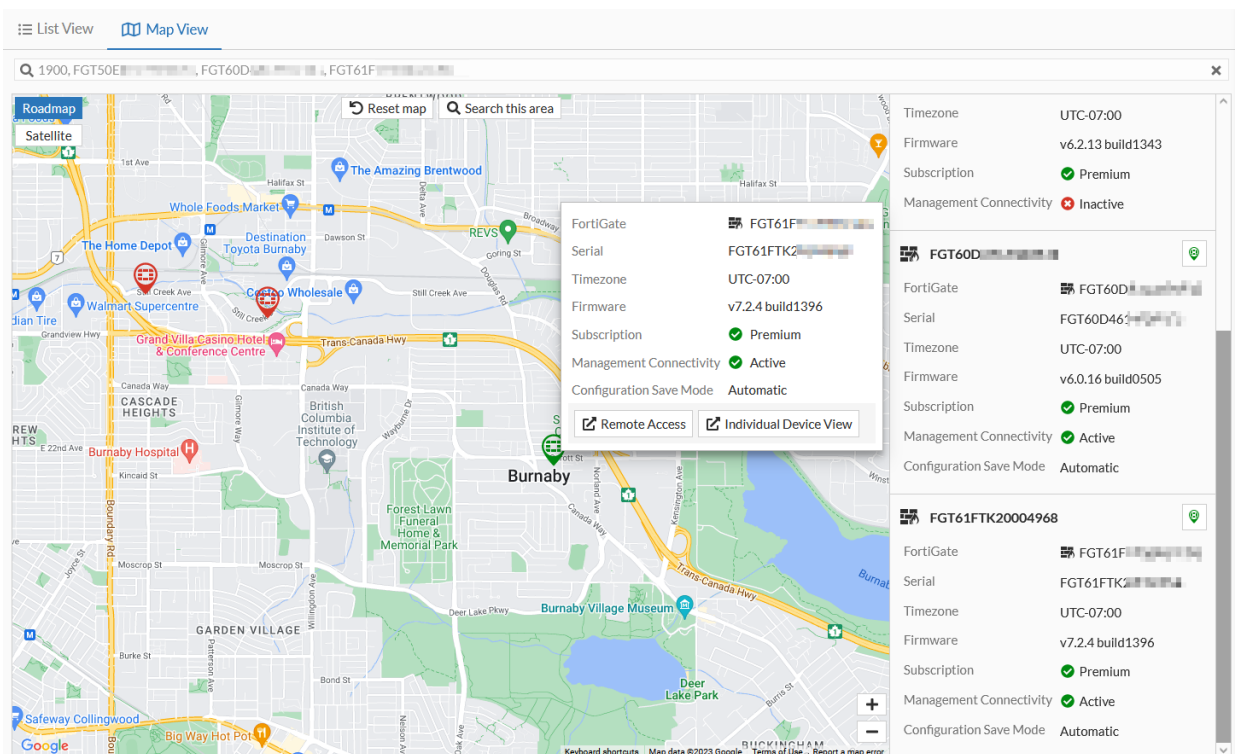
FortiGate Cloud is a cloud-based software-as-a-service (SaaS) offering a range of management, reporting, and analytics for FortiGate next generation firewalls. FortiGate Cloud simplifies the initial deployment, setup, and ongoing management of FortiGate with SD-WAN functions, FortiSwitch, FortiAP, and FortiExtender with zero-touch provisioning, providing you with visibility of your entire deployment. FortiGate Cloud grows with your requirements from a single FortiGate to a complete managed security services management solution for thousands of devices across multiple customers.

FortiGate Cloud New Layout features a new GUI layout with all of the functionality of the legacy FortiGate Cloud portal. With FortiGate Cloud New Layout, you can do the following:

- Manage FortiGate and FortiWifi devices, including configuration, backup, firmware upgrade, and running scripts
- Use Remote Access to easily connect to a device without physical connection
- Run full web, event, and traffic analysis on your FortiGates
- Review different types of past-date logs from your FortiGates
- Create, schedule, and customize a full range of reports
- Receive email alerts on device and network events as configured

To add subaccounts and subaccount users under your primary account, you can upgrade your regular account to a multitenancy account. See [Multitenancy on page 73](#).

FortiGate Cloud New Layout also integrates other Fortinet services: FortiSandbox SaaS and FortiDeploy. See [Sandbox on page 60](#) and [FortiDeploy on page 25](#).



For information about FortiGate Cloud New Layout new features, see the [FortiGate Cloud New Layout Release Notes](#).

Functions

FortiGate Cloud New Layout has the following functions:

Function	Description
Centralized dashboard	System and log widgets plus real-time monitors.
FortiView log viewer	Real-time log viewing with filters and download capability.
Drilldown analysis	Real-time location, user, and network activity analysis, and alert profiles.
Report generator	Create custom report templates and schedule reports in different formats to display location-based analytics or illustrate network usage platforms.
Device management	Scheduled configuration backup and history and script management. If using multitenancy license, includes group management.
Antivirus (AV) submission	Shows the status of suspicious files undergoing cloud-based sandbox analysis.
AP, FortiSwitch, and FortiExtender management via FortiGate	<ul style="list-style-type: none"> • Wireless configuration: <ul style="list-style-type: none"> • View, add, and remove APs managed by FortiGates • View WiFi user statistics and health monitor • Create and edit SSID settings • Create and edit FortiAP profiles • Create and edit WIDS profiles • FortiSwitch management: add, delete, configure, create, and edit FortiSwitch profiles • FortiExtender management: add, delete, deploy, create, and edit FortiExtender profiles
Remote access	Access device configuration from web browser, modify configuration, and push changes through to device through the network.
FortiGate virtual domain (VDOM) support	Support for VDOMs configured in FortiGate devices.
Active Directory (AD) management	Integration with AD.
Firmware upgrade	Remotely upgrade FortiOS on FortiGate devices and FortiAP, FortiSwitch, and FortiExtender devices connected to the FortiGate.
Event management	Set up email alerts for specific network structure emergencies, such as FortiGate Cloud New Layout losing connection to the device, or the device's power supply failing.
Regions	<p>Datacenters located in Canada, Germany, the United States, and Japan for better performance and GDPR compliance for international customers.</p> <p>FortiGate Cloud includes the Global, Europe, U.S., and Japan regions.</p> <p>FortiSandbox SaaS includes the Global, Europe, U.S., and Japan regions.</p>

Function	Description
	For U.S. government devices, the default datacenter is the U.S. datacenter, and the device is provisioned to FortiGate Cloud's U.S. region. The U.S. datacenter stores the data of FortiGates with the US-Government license key or that are provisioned to the U.S. region with a paid FortiGate Cloud Service subscription. FortiGates that are provisioned to the U.S. region without paid FortiGate Cloud Service subscriptions use the Canada datacenter.

Requirements

The following items are required before you can initialize FortiGate Cloud New Layout:

Requirement	Description
FortiCloud account	Create a FortiCloud account if you do not have one. Launching FortiGate Cloud requires a FortiCloud account. A primary FortiCloud account can invite other users to launch FortiGate Cloud as secondary administrators/regular users. Some customers may be using their FortiCloud or FortiCare account. Merging these accounts to your FortiCloud account is strongly recommended.
FortiGate/FortiWifi license	You must register all FortiGate/FortiWifi devices on FortiCloud.
FortiGate Cloud entitlement	Purchase FortiGate Cloud licenses from Fortinet.
Internet access	You must have Internet access to create a FortiGate Cloud instance and to enable devices to communicate with and periodically send logs to FortiGate Cloud New Layout.
Browser	FortiGate Cloud New Layout supports Firefox, Chrome, and Edge.

FortiGate Cloud supports all high-end, mid-range, and entry-level FortiGate models. You can find more information about FortiGate models and specifications on the [Fortinet website](#). All FortiWifi models support FortiGate Cloud.

See [Product Life Cycle](#). FortiGate Cloud supports the following:

- FortiGate Cloud supports 30E, 50E, and 240D models, where 7.0 is unavailable, until the hardware EOS.
- For devices with a free subscription, FortiGate Cloud supports the latest three major.minor versions.

Upgrading your device to the latest firmware or replacing EOS hardware is recommended for continued support and security.

The following summarizes FortiGate Cloud support for older FortiOS versions:

- FortiGate Cloud will support FortiOS 5.X and 6.2 until March 31, 2024.
- FortiOS 6.4:
 - FortiGate Cloud will support FortiGates on FortiOS 6.4 with an Elite license until March 31, 2026.
 - Otherwise, FortiGate Cloud will support FortiGates on FortiOS 6.4 until June 30, 2024.

For FortiDeploy, FortiGate Cloud New Layout supports FortiGate/FortiWiFi/POE desktop and 1U models up to 900D running FortiOS 5.2.2 and later. See [FortiDeploy on page 25](#).

The following table lists port numbers that outbound traffic requires. On request, Fortinet can supply the destination IP addresses to add to an outbound policy, if required.

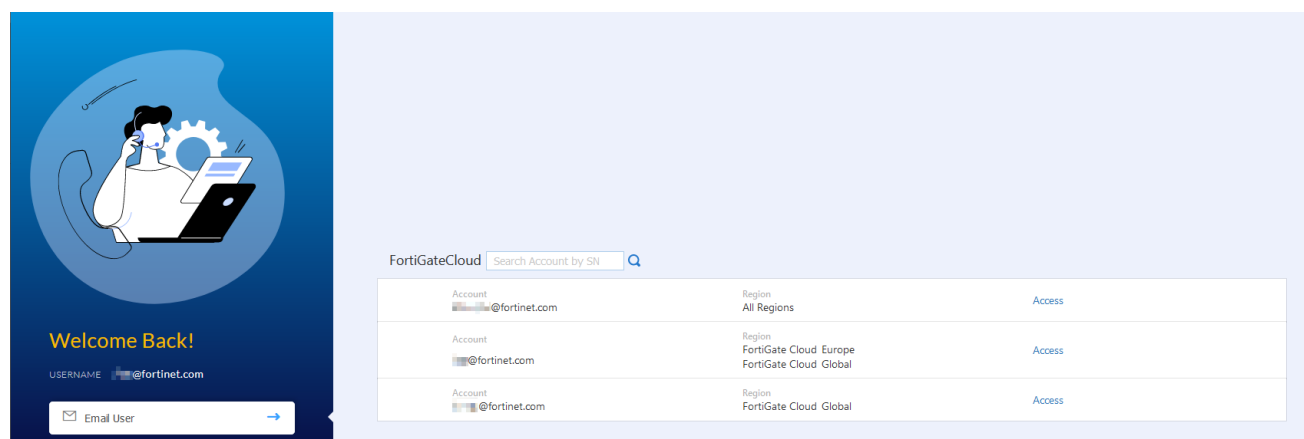
Purpose	Protocol	Port
Syslog, registration, quarantine, log, and report	TCP	443
OFTP	TCP	514
Management	TCP	541
Contract validation	TCP	443
Config portal	TCP	8443

Getting started with FortiGate Cloud New Layout

After activating your FortiCloud SSO account and ensuring that you have met all requirements in [Requirements on page 9](#), go to one of the following to access FortiGate Cloud New Layout:

Region	URL
Global	https://forticloud.com
Europe	https://europe.forticloud.com
U.S.	https://us.forticloud.com

When you initially log in to the FortiGate Cloud New Layout portal, the login page displays. The login page displays all accounts that you have access to. The page lists regions that each account can access. You can also search for an account using the serial number of a FortiGate deployed on that account. Click the *Access* link beside the desired account.



To initially activate the new layout, you can enable the *New Layout (Beta)* toggle on the top banner of the GUI. The portal reloads with the new layout. If desired, you can toggle back to the legacy layout.



If the FortiGate Cloud New Layout account does not have a FortiCloud ID or does not exist in FortiCare, FortiGate Cloud New Layout displays a registration dialog when you log in to the account. After you enter all required information and click *Register*, the account is registered to FortiCloud.

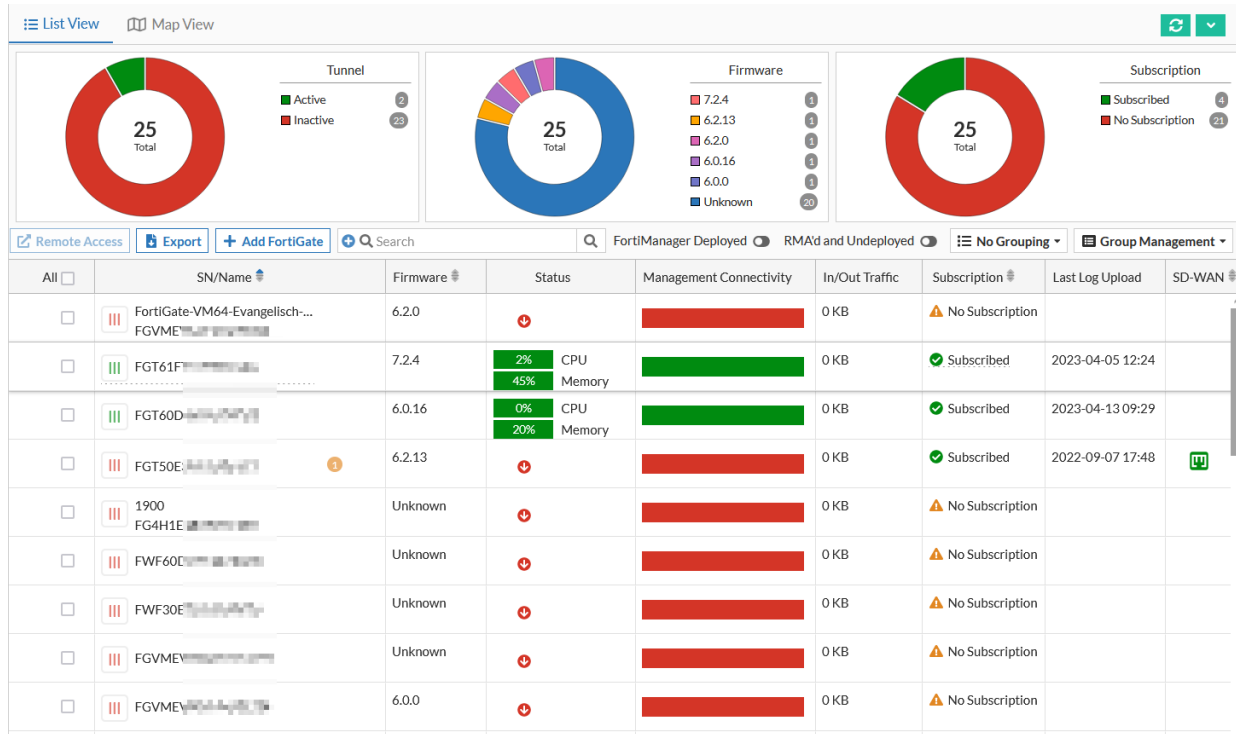
Register and Upgrade your FortiGate Cloud account

Register and upgrade your FortiGate Cloud account to FortiCloud account to enable access to FortiGate Cloud, support and other cloud services with a single unified account

Company	<input type="text"/>	0/128
Address	<input type="text"/>	0/128
Country:	<input type="text" value="Select a country"/>	
City	<input type="text"/>	0/64
State/Province	<input type="text"/>	0/64
ZIP/Postal Code	<input type="text"/>	0/32
Phone:	<input type="text" value="Select a country/area code"/> <input type="text"/>	0/16
Fax:	<input type="text" value="Select a country/area code"/> <input type="text"/>	0/16
Industry:	<input type="text" value="Select an organization industry"/>	
Organization Size:	<input type="text" value="Select an organization size"/>	
Master User:	<input type="text" value="@fortinet.com"/>	
First Name	<input type="text"/>	0/64
Last Name	<input type="text"/>	0/64
Password for Verification	<input type="text"/>	0/128

After you access the desired account, the FortiGate Cloud New Layout portal displays the *Assets* page. You can access notifications regarding maintenance, multitenancy expiration, and unregistered devices from the FortiCloud banner at the top of the page. You can access FortiGate Cloud documentation from the ? icon on the lower banner.

The *Assets* page displays the list of devices that are currently deployed to FortiGate Cloud New Layout. From the left pane, you can access other options including scripts, reporting, and account settings features.

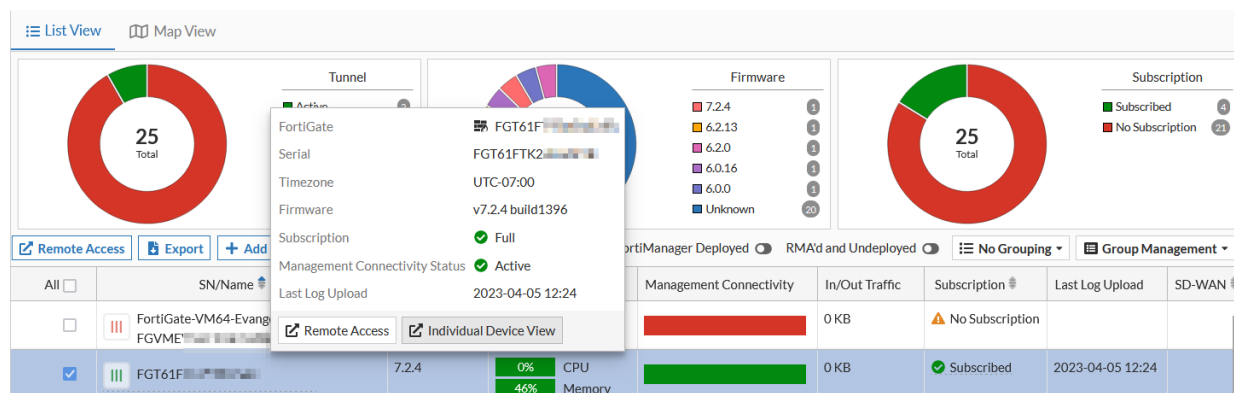


The following describes the portal options available from the left pane:

Option	Description
Assets	Assets displays a list of devices that are currently deployed to FortiGate Cloud New Layout. For details on actions available in Assets, see Assets on page 29 .
Analytics	Create and alter report configurations and their settings. These report configurations are available for all deployed devices. See Report configurations on page 56 .
Management	Create script files to check device status or get bulk configuration information quickly. See Management on page 34 .
Sandbox	View Sandbox scan results. See Sandbox on page 60 .
Inventory	View a centralized inventory of all FortiGate and FortiWifi devices from all FortiGate Cloud New Layout instances in a domain group, regardless of datacenter. See Inventory on page 23 .
Configuration	Manage Sandbox settings. See Sandbox on page 60 . Add and manage FortiGate Cloud New Layout administrator accounts. See Account Setting on page 68 .

Option	Description
Audit Log	View a log of actions that users performed on the FortiGate Cloud New Layout portal. See Audit Log on page 71 .

FortiGate Cloud New Layout also provides the device-specific *Analytics*, *Sandbox*, and *Management* modules. To access *Analytics*, *Sandbox*, and *Management*, hover over the desired device in *Assets*, then click *Individual Device View*.



The following describes the device-specific modules available:

Option	Description
Analytics	Monitor and log your device's traffic for centralized oversight of traffic and security events. See Analytics on page 45 .
Sandbox	Upload and analyze files that FortiGate AV marks as suspicious to FortiSandbox SaaS. See Sandbox on page 60 .
Management	Remotely manage FortiGate and FortiWiFi devices that are connected to the FortiGate Cloud New Layout service. See Management on page 34 . For details on remotely accessing a device, see To remotely access a device: on page 34 .

Port and access control information

FortiGate Cloud New Layout uses TCP ports 80, 443, 514, 541, and UDP ports 5246/5247. IP address ranges differ depending on the region:

Region	IP address range
Global	208.91.113.0/24, 173.243.132.0/24
Japan	208.91.113.0/24, 173.243.132.0/24 Subnet is 210.7.96.0/24. Gateway IP address is 210.7.96.1.
Germany	154.52.10.0/24

Region	IP address range
France	154.45.6.0/24

The following summarizes FortiSandbox SaaS (SaaS) information for FortiGate Cloud New Layout:

Region	IP address range
Global	173.243.139.0/24, 184.94.112.0/24, 154.52.26.0/24
Japan	210.7.96.0/24, 154.52.7.0/24
EU	83.231.212.128/25, 154.45.1.0/24, 154.52.11.0/24
US	208.184.237.0/24, 209.66.107.0/24

License types

You can use FortiGate Cloud New Layout for free or with a subscription.



You do not need a support contract to enable the service. However, you must register each device on the [Fortinet Support site](#). You cannot enable FortiGate Cloud New Layout (free or subscribed) without registering each device in your network.

You can enjoy the free subscription of FortiGate Cloud New Layout on any FortiGate or FortiWifi device, or purchase an annual-subscription-based license with a one-, two-, or three-year service term. A FortiGate Cloud license entitles devices to advanced features including the Indicator of Compromise (IOC) service, as well as one-year log retention compared to the seven-day log retention with the free subscription.

To activate FortiGate Cloud, you must acquire a subscription license based on the SKUs listed in the following table:

Description	SKU
FortiGate Cloud management, analytics, and one-year log retention	
FortiGate and FortiWifi	FC-10-00XXX-131-02-DD
FortiGate Cloud IOC	
FortiGate 20 to 90 models	FC-10-90803-142-02-12
FortiGate 100 to 300 models	FC-10-90804-142-02-12
Other services	
FortiGate Cloud multitenancy	FCLE-10-FCLD0-161-02-12
FortiDeploy access	FDP-SINGLE-USE
FortiGate FortiSandbox SaaS	FC-10-XXXX-811-02-DD FC-10-XXXXX-879-02-DD FC-10-XXXXX-950-02-DD FC-10-XXXXX-928-02-DD FC-10-XXXXX-100-02-DD

For the IOC license, activation on device requires FortiOS 5.4.2 or later. The IOC service requires an existing FortiGate Cloud subscription.

You must purchase a subscription for each FortiGate in a high availability (HA) cluster. FortiGate Cloud New Layout handles each device separately regardless of configuration. FortiGate Cloud New Layout accepts inbound logs from each device independently and cannot detect whether connected devices are in an HA cluster. Though multiple HA clustered devices theoretically send identical logs to FortiGate Cloud New Layout, if one device stops logging or cannot reach FortiGate Cloud New Layout, the other devices do not send logs on its behalf.

The FortiSandbox SaaS feature allows the following file upload sources:

- File uploads from FortiGate:
 - For a FortiGate with a free subscription, FortiSandbox SaaS supports up to 100 uploads per day or two uploads per minute.
 - For a FortiGate with a paid subscription, the limits are as follows:

FortiGate model	Per minute	Per day
FortiGate 30-90/VM00	5	7200
FortiGate 100-400/VM01	10	14400
FortiGate 500-900/VM02, VM04	20	28880
FortiGate 1000-2000/VM08, VM16	50	72000
FortiGate 3000/VM32 and higher models	100	144000

- For manual uploads from FortiGate Cloud New Layout, FortiSandbox SaaS supports up to 50 uploads per day per account.

For pricing information, contact your Fortinet partner or reseller.

FortiGate Cloud reserves the right to impose limits upon detection of abnormal or excessive traffic originating from a certain device and perform preventive measures including blocking the device and restricting log data.

Feature comparison

FortiGate Cloud New Layout offers a different feature set depending on whether or not the device has a paid subscription. The following chart shows the features available for FortiGate Cloud New Layout for these scenarios:

Feature	Device without paid subscription	Device with paid subscription
Analysis	Yes	Yes
FortiView	Yes	Yes
Monitor	Yes	Yes
Logview	Yes	Yes
Log retention	Seven days	One year
Raw log download	No	Yes
Event Management	No	Yes
360 Degree Activity Report	Yes	Yes
All other reports	No	Yes
Sandbox	Yes	Yes
Audit Log	Yes	Yes

Feature	Device without paid subscription	Device with paid subscription
Management	No	Yes
Configuration management	No	Yes
Configuration backup and restoration	No	Yes
Scripts	No	Yes
Remote access	Yes In FortiGate Cloud New Layout 23.3, remote access with read and write rights will require a registered FortiGate Cloud Service subscription on the FortiGate. Enforcement starts from the following FortiOS versions: <ul style="list-style-type: none"> • 7.4.1 • 7.2.6 • 7.0.13 	Yes
Firmware upgrade	No	Yes
Multitenancy	No	No

You can enable multitenancy features by activating a multitenancy license on a regular account. For details, see [Multitenancy on page 73](#).

Upgrading to FortiGate Cloud Premium Portal (Beta)

A FortiGate Cloud Premium Portal (Beta) is available to upgrade your FortiGate Cloud New Layout environment to. The FortiGate Cloud Premium Portal (Beta) provides the following features:

- Centralized dashboard
- Enhanced user experience with a new modern theme and smoother performance
- Full real-time FortiOS configuration management and log analysis for paid tier devices
- Centralized logging, analytics, and reports powered by [FortiAnalyzer Cloud](#)
- Read-only configuration view for free tier devices

The following summarizes eligibility requirements for FortiGate Cloud Premium Portal (Beta):

- All FortiGates in the FortiGate Cloud account must be registered to the same account in FortiCloud Asset Management.
- For FortiGate Cloud accounts in the global/Europe region, the account must have been created within the last six months.
- FortiGate Cloud Premium Portal (Beta) is unavailable in the Japan region.
- You must migrate a multitenancy account to organizational unit to use FortiGate Cloud Premium Portal (Beta).

To upgrade your environment:

1. Add FortiGates with a FortiGate Cloud subscription (FortiGate Cloud New Layout Management, Analysis, and 1 Year Log Retention) to your FortiCloud account.
2. Upgrade all FortiGates with a subscription to FortiOS 7.0.2 or a later version. FortiGate Cloud Premium Portal (Beta) allows FortiGates without a subscription to have any version of FortiOS installed.
3. Log in to your FortiGate Cloud New Layout environment.
4. The portal displays an upgrade dialog. Read and select the acknowledgment checkboxes, then click *Proceed with Upgrade*. The dialog only displays for the first user who logs in to an account that is eligible for upgrade. If you do not see the upgrade dialog, click the *Upgrade* button in the upper right corner. The upgrade typically takes five minutes. If the upgrade cannot complete after 30 minutes, it times out and you can restart the upgrade procedure.

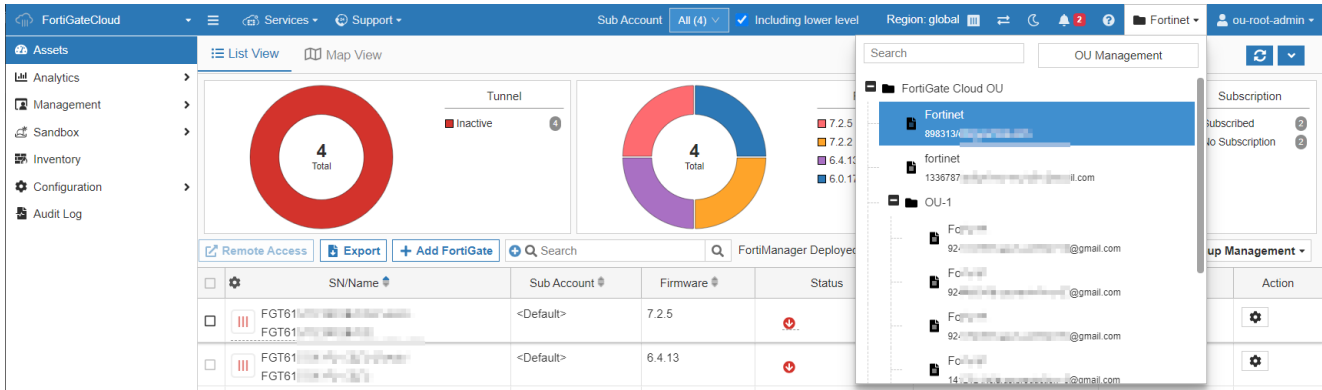
When accounts in the U.S. region upgrade to FortiGate Cloud Premium Portal (Beta), the upgrade migrates existing logs and reports to the FortiGate Cloud Premium Portal (Beta) portal. This migration does not occur for accounts in other regions.

See the [FortiGate Cloud New Layout Premium Portal \(Beta\) Administration Guide](#) for details on FortiGate Cloud Premium Portal (Beta).

OU

FortiGate Cloud New Layout supports organizational unit (OU) account selection and switching. OU support is currently in beta and available to external customers with FortiCloud Premium license accounts. See [Organization Portal](#) for details on creating an OU.

To move to another OU or account, select the desired OU from the dropdown list in the upper right corner.



When you log in to an OU, FortiGate Cloud New Layout displays an OU dashboard. The following lists OU dashboard widgets:

Widget	Description
Devices	Displays a donut chart that details the device type breakdown and total number of devices in this OU.
Accounts	Displays a donut chart that details the total number of accounts in this OU.
Management Connectivity	Displays a donut chart that details the management connectivity status breakdown and total number of devices in this OU.
FortiGate Cloud License	Displays a donut chart that details the FortiGate Cloud license type breakdown and total number of devices in this OU.
Sandbox License	Displays a donut chart that details the Sandbox license type and total number of devices in this OU.

Deployment

You can deploy FortiGate Cloud New Layout using one of the following methods:

- [FortiCloud or FortiDeploy key](#)
- [FortiOS GUI](#)

After deploying FortiGate Cloud New Layout using one of the methods described, complete basic configuration by doing the following:

1. Create a firewall policy with logging enabled. Configure log uploading if necessary.
2. Log in to FortiGate Cloud New Layout using your FortiCloud account.

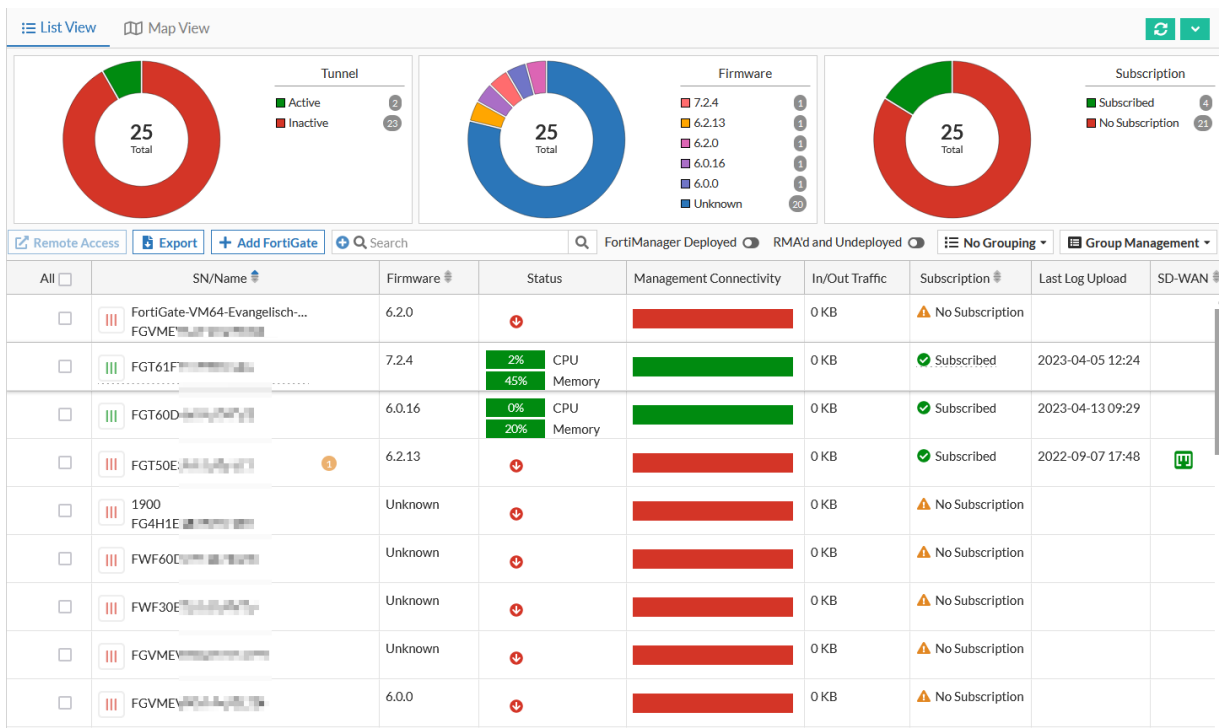


For FortiGates that are part of a high availability (HA) pair, you must activate FortiGate Cloud on the primary FortiGate. Activate FortiGate Cloud on the primary FortiGate as [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI: on page 22](#) describes. FortiGate Cloud activation on the primary FortiGate activates FortiGate Cloud on the secondary FortiGate. Local FortiGate Cloud activation on the secondary FortiGate fails.

For a FortiGate with a US-Government license to use the US region service of FortiGate Cloud, you must import the device into your US region FortiGate Cloud account by a cloud/FortiDeploy key or use the CLI login command `execute fortiguard-log login <email> <password> US` if cloud/FortiDeploy key is unavailable.

To deploy a FortiGate/FortiWifi to FortiGate Cloud New Layout using the FortiCloud or FortiDeploy key:

1. Log in to the [FortiGate Cloud New Layout portal](#).
2. Do one of the following:
 - a. Click *Add FortiGate*.



- b. Go to *Inventory*, then click *Import FortiCloud or FortiDeploy Key*.

The screenshot shows the FortiGate Inventory page. At the top, there are tabs for FortiGate Inventory (8), FortiGate Cloud Deployed (26), FortiManager Deployed (9), and FortiManager Cloud Deployed (0). Below the tabs is a table with columns: All, FortiDeploy Key, Device, and Claimed On. The table lists several devices with their respective FortiDeploy keys and claimed on dates.

All	FortiDeploy Key	Device	Claimed On
<input type="checkbox"/>		FGT61E	2023-04-05 20:21
<input type="checkbox"/>	4PT	FG4H1E	2023-04-05 20:09
<input type="checkbox"/>		FG100F	2023-03-03 21:28
<input type="checkbox"/>		FG100F	2023-03-03 21:28
<input type="checkbox"/>		FGT60F	2023-02-07 01:41
<input type="checkbox"/>		FWF60C	2023-02-04 02:50
<input type="checkbox"/>		FGT60F	2023-02-04 02:49
<input type="checkbox"/>	4PT	FG4H1E	2022-11-18 22:55

3. Enter the key printed on your FortiGate.
4. For *End User Type*, select non-government or government user.
5. For *Provision*, select one of the following:
 - a. Select *Later* to deploy the FortiGate at a later time.
 - b. Select *Now* to deploy the FortiGate Cloud.
6. If you selected *Now*, from the *Display Timezone* dropdown list, select the desired time zone.

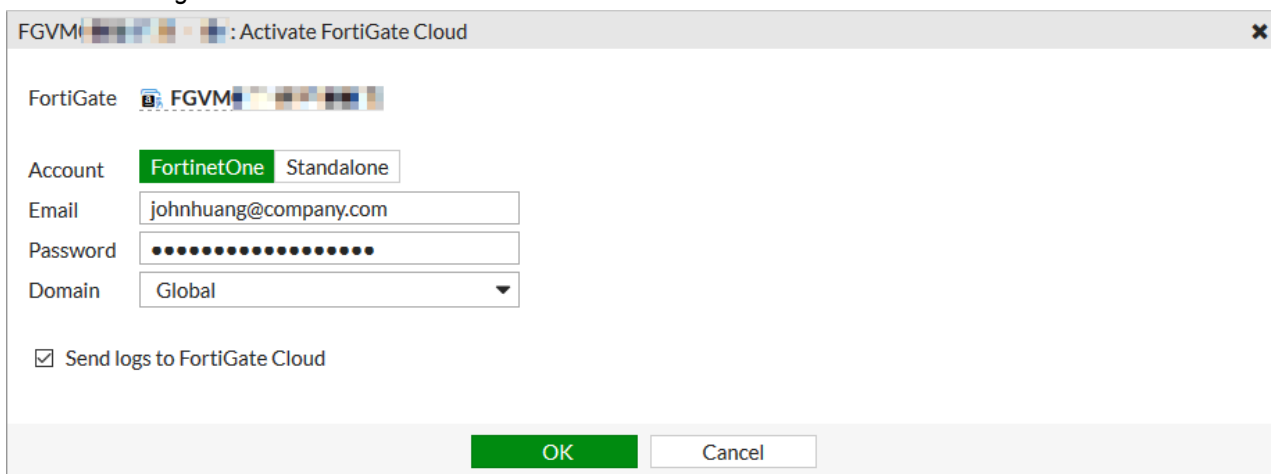
7. Under *Select Sub Account*, select the desired subaccount.
8. Click *OK*.



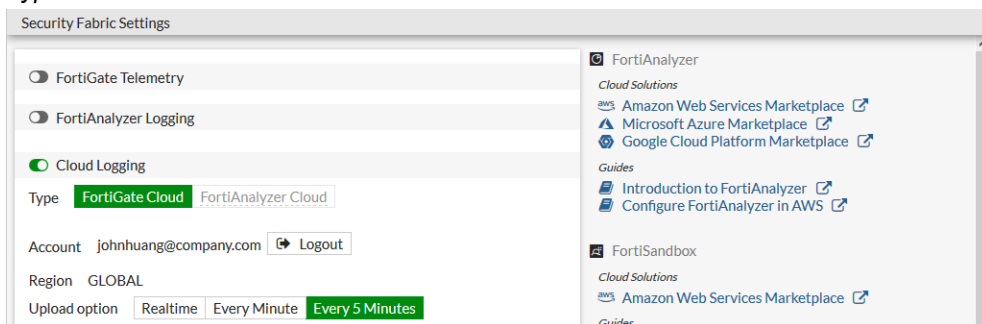
After the device successfully deploys, the device key becomes invalid. You can only use the key once to deploy a device.

To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI:

1. In the FortiCloud portal, ensure that you have a product entitlement for FortiGate Cloud New Layout for the desired FortiGate or FortiWifi.
2. In FortiOS, do one of the following:
 - a. Go to *Security Fabric > Settings*, and enable *Central Management*. Click *FortiGate Cloud*.
 - b. In the *Dashboard*, in the *FortiGate Cloud* widget, the *Status* displays as *Not Activated*. Click *Not Activated*.
3. Click *Activate*.
4. In the *Activate FortiGate Cloud* panel, for *Account*, select *FortinetOne*.
5. In the *Email* and *Password* fields, enter the email address and password associated with the FortiCloud account.
6. Enable *Send logs to FortiGate Cloud*. Click *OK*.



7. This automatically enables *Cloud Logging*. Ensure that *Cloud Logging* is enabled. If it is disabled, enable it, then set *Type* to *FortiGate Cloud*.



8. At this point you can access Analytics and Sandbox features for this device. To access Management features, you must authorize the FortiGate in FortiGate Cloud New Layout by entering the a local superadministrator username and password when prompted. After authorization, you can manage that FortiGate from FortiGate Cloud New Layout.

9. You must set the central management setting to FortiCloud, as this is the initial requirement for enabling device management features.

To unsubscribe from FortiGate Cloud New Layout:

You can disconnect your account from the dashboard in your FortiGate/FortiWifi.

1. In the FortiOS *Dashboard* FortiGate Cloud widget, the *Status* appears as *Activated*. Click *Activated*, then click *Logout*.
2. In the confirmation dialog, click *OK*. This detaches the FortiGate/FortiWifi from the account and stops uploading logs.

To move a FortiGate/FortiWifi deployed to FortiGate Cloud New Layout to another account:

To move a FortiGate/FortiWifi that is already deployed to FortiGate Cloud New Layout to another account and retain its historical data, you must follow these instructions.

1. Log in to the FortiGate Cloud New Layout portal using the account that the FortiGate/FortiWifi is currently deployed on.
2. Click the *Action* icon for the desired device.
3. Click *Migrate Existing Data*.
4. In the *Account ID* field of the *Migrate Existing Data* dialog, enter the desired new account. Click *OK*.
5. In FortiOS, go to *Security Fabric > Settings*. Log out of the FortiGate Cloud New Layout account that the FortiGate/FortiWifi is currently deployed on.
6. Deploy the device to FortiGate Cloud New Layout using the new account by following the instructions for [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI: on page 22](#).

After moving a FortiGate to another FortiGate Cloud New Layout account, you must also transfer that FortiGate to the same account in FortiCare.

Inventory

Inventory displays a centralized inventory of all FortiGate and FortiWifi devices from all FortiGate Cloud New Layout instances in a domain group, regardless of region. For example, if you access *Inventory* from the Europe region, you see the region of a connected FortiGate Cloud New Layout instance from the global region.

Inventory is divided into tabs: *FortiGate Inventory*, *FortiCare Inventory*, *FortiGate Cloud Deployed*, *FortiManager Deployed*, and *FortiManager Cloud Deployed*. You can filter each list by searching for the device serial number (SN) in the *SN* searchbar.

If you add devices using the FortiDeploy bulk key, the *FortiGate Inventory*, *FortiGate Cloud Deployed*, *FortiManager Deployed*, and *FortiManager Cloud Deployed* tabs allow you to filter the device list by the FortiDeploy bulk key, and display a *Bulk Key* column in the device list.

FortiGate Inventory

FortiGate Inventory displays the inventory of all FortiGate and FortiWifi devices imported by FortiCloud key or FortiDeploy bulk key to FortiGate Cloud, including each device's subscription status. The inventory provides a

centralized view of all devices imported into the Europe and global services. From here, you can deploy devices to FortiGate Cloud or FortiManager, if configured. You can also delete an imported device from the inventory.

To deploy a device to FortiGate Cloud New Layout:

1. On the homepage, go to *Inventory*.
2. Select the desired devices.
3. Click *Deploy to FortiGate Cloud*.
4. From the *Select Display Timezone* dropdown list, select the desired time zone. Click *Next*.
5. For a multitenancy account, you can select the desired subaccount to add the devices to. Select the subaccount, then click *Next*.
6. Click *OK*. These devices deploy to FortiGate Cloud, and you can now access them on the *FortiGate Cloud Deployed* tab.

To deploy a device to FortiManager:

1. On the homepage, go to *Inventory*.
2. From the *FortiManager* dropdown list, select *FortiManager Setup*.
3. In the *FortiManager Setup* dialog, enter the desired FortiManager IP address/FQDN and SN. To deploy to FortiManagers that are part of a high availability pair, enter the two serial numbers separated by a comma. Click *OK*.
4. Select the desired devices.
5. From the *FortiManager* dropdown list, click *Deploy to FortiManager*.
6. From the *Select Display Timezone* dropdown list, select the desired time zone. Click *Next*.
7. Click *OK*.
8. Go to *FortiManager Deployed*. The *Status* column displays the deployment process current status. Once the *Status* column displays that the process is complete, these devices deploy to FortiManager, and you can view their SNs on the *FortiManager Deployed* tab. Once deployed to FortiManager, FortiGate Cloud has no control over the device. You cannot manage the device in FortiGate Cloud until you set central management back to FortiGate Cloud.

To delete a device from inventory:

1. On the homepage, go to *Inventory*.
2. Select the desired devices.
3. Click *Delete*.
4. In the confirmation dialog, click *OK*.

FortiCare Inventory

FortiCare Inventory displays the devices that are registered to FortiCare under the account's primary administrator email address with a verified key. Only the primary administrator can view and deploy these devices from the FortiCare Inventory to FortiGate Cloud. To deploy FortiCare devices to FortiGate Cloud, follow the instructions in [To deploy a device to FortiGate Cloud New Layout: on page 24](#), from the *FortiCare Inventory* tab. To deploy FortiCare devices to FortiManager, follow the instructions in [To deploy a device to FortiManager: on page 24](#) from the *FortiCare Inventory* tab.

FortiGate Cloud Deployed, FortiManager Deployed, and FortiManager Cloud Deployed

The *FortiGate Cloud Deployed*, *FortiManager Deployed*, and *FortiManager Cloud Deployed* tabs displays all FortiGate and FortiWifi devices deployed to FortiGate Cloud, FortiManager, and FortiManager Cloud respectively. The tabs also display the devices' subscription statuses and the date and time that they were deployed. Click a device SN to access Analytics, Management, and Sandbox functions for that device.

The *FortiGate Inventory* tab provides a centralized view of all devices imported into the Europe and global services. However, after you deploy a FortiGate to FortiGate Cloud, you can only view the FortiGates deployed to the service that you are currently logged in to on the *FortiGate Cloud Deployed* tab. For example, if you are currently logged in to the Europe service, the *FortiGate Cloud Deployed* tab only displays FortiGates deployed to the FortiGate Cloud Europe service.

FortiDeploy

FortiDeploy is a product built into FortiGate Cloud New Layout for zero-touch provisioning (ZTP) when devices are deployed locally or remotely. FortiDeploy provides automatic connection of FortiGates for management by FortiGate Cloud New Layout or FortiManager.

At time of purchase, you can order a FortiDeploy SKU in addition to your FortiGate Cloud New Layout subscription.

When you visit the [FortiGate Cloud New Layout portal](#) and enter the FortiDeploy bulk key, you see a list of serial numbers from the order that contained the FortiDeploy SKU. After you confirm that the devices are connected, you can perform basic configuration on the devices remotely, such as sending a FortiManager IP address to all remote FortiGates, so that the FortiManager can manage them remotely.

FortiDeploy support starts the moment you send an email to cs@fortinet.com. You can also contact cs@fortinet.com if you already purchased a FortiGate Cloud New Layout subscription and want to purchase FortiDeploy to add to your existing subscription.

FortiDeploy requires a FortiGate model that supports the ZTP (autojoin) feature. FortiGate/FortiWiFi/POE desktop and 1U models up to 100F support the ZTP feature. For other models, FortiDeploy supports one-touch provisioning. For these models, you must configure DHCP on the port of choice. The FortiDeploy server can push FortiManager settings to devices that fulfill this requirement. Having trained personnel handle larger deployments is recommended. FortiDeploy is available for devices running FortiOS 5.2.2 and later.

To enable autojoining FortiGate Cloud New Layout:

From FortiOS 5.2.3 and later, the `auto-join-forticloud` option is enabled by default. It must be enabled for FortiDeploy to function correctly. You can ensure that the option is enabled by running the following commands:

```
config system fortiguard
  set auto-join-forticloud enable
end
```

After changing this setting, restart the device and ensure that the device sends traffic to FortiGate Cloud New Layout to verify that you configured it correctly.

To set central management to FortiGuard:

If your device is connected to FortiGate Cloud New Layout but not cloud-managed, ensure that central management is set to FortiGuard:

```
config system central-management
    set type fortiguard
end
```

Reboot the device, log into FortiGate Cloud New Layout, and see if you can manage the device.

To use FortiDeploy with a device deployed behind a NAT device:

The internal or LAN interface default address is the 192.168.1.0/24 subnet. IP address conflicts can occur with departmentalization devices. You can unset each device's default IP address:

```
config system interface
    edit internal
        unset ip
    end
end
config system interface
    edit lan
        unset ip
    end
end
```

You can change the web-based management interface's internal interface IP address in *Network > Interfaces*.

To set a port to DHCP mode:

```
config system interface
    edit "portX"
        set mode dhcp
        set role wan
    next
end
```

FortiCloud and FortiDeploy keys

The following table summarizes the differences between FortiCloud and FortiDeploy key usage:

Account type	Key type	Key reuse policy	Autojoin policy
Regular	FortiCloud	Valid until a new device is deployed	24 hours from first autojoin (grace period) If join request is from the same IP address: 15 minutes after reenabling autojoin.
	FortiDeploy	Valid only once	Always
Multitenancy	FortiCloud	Valid until a new device is deployed	Always
	FortiDeploy	Valid only once	Always

A FortiGate that is imported by FortiCloud or FortiDeploy key which has not been registered in FortiCare is registered upon deployment to FortiGate Cloud or FortiManager.

You can reenable autojoin for a device in *Assets* or *Inventory*.

FortiCloud key

A FortiCloud key is printed on a sticker attached to a FortiGate/FortiWiFi's top surface. You can use this key for one of the following:

- Directly add a new individual device to a FortiGate Cloud New Layout account.
- Import the key to a FortiGate Cloud New Layout account inventory.

See [To deploy a FortiGate/FortiWifi to FortiGate Cloud New Layout using the FortiCloud or FortiDeploy key: on page 21](#)

Either action allows the next autojoin request from the device. After the device successfully connects to FortiGate Cloud New Layout, its FortiCloud key becomes invalid.

If you load a device by FortiCloud key to a regular account, FortiGate Cloud New Layout always allows the device's autojoin request if the source IP address is the same as the last time it autojoined. If the device source IP address differs from the last time it successfully autojoined, you have the option to reenable autojoin for 15 minutes. You must reboot the device within that time to finish the autojoin process. You have a maximum of five attempts to reenable autojoin and reboot the device. After you reach five attempts, you must contact [Customer Service & Support](#) to reset the number of attempts. When the device successfully completes the autojoin process, this resets the number of attempts.

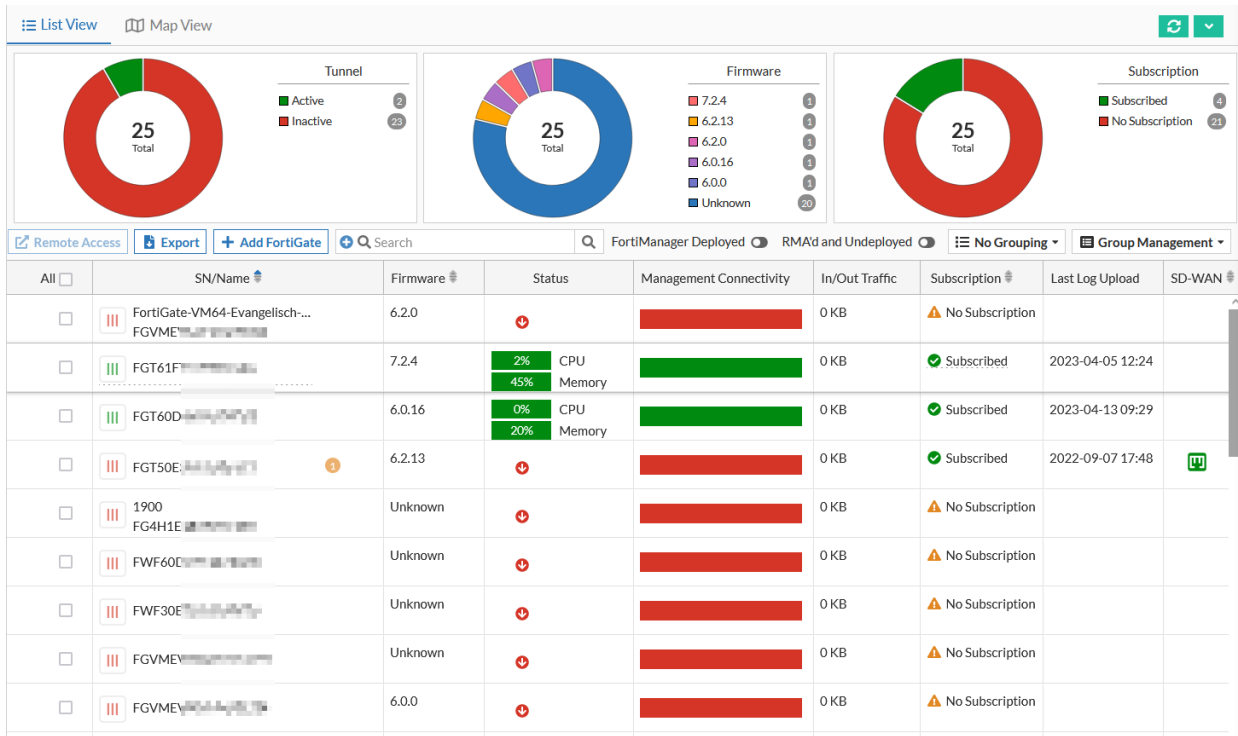
For multitenancy accounts, autojoin is always allowed.

FortiDeploy key

A FortiDeploy key is purchased with a SKU to load one or multiple new FortiGate/FortiWiFi(s) to a FortiGate Cloud New Layout account inventory. See [To deploy a FortiGate/FortiWiFi to FortiGate Cloud New Layout using the FortiCloud or FortiDeploy key: on page 21](#). This load action allows autojoin requests from all devices on the FortiDeploy key. Once you use a FortiDeploy key to load devices to a FortiGate Cloud New Layout account, you cannot reuse it to reload the devices. FortiGate Cloud New Layout always allows autojoin for a device added by FortiDeploy key.

Assets

You see the **Assets** page when you first open the FortiGate Cloud New Layout interface. From the **Assets** page, you can add a FortiGate as [To deploy a FortiGate/FortiWifi to FortiGate Cloud New Layout using the FortiCloud or FortiDeploy key: on page 21](#) describes. A user with an admin role can also go the device-specific [Analytics on page 45](#), [Management on page 34](#), [Sandbox on page 60](#) pages. A user with a regular role or subaccount admin role (multitenancy) can only go to the [Analytics on page 45](#) and [Sandbox on page 60](#) pages. You can view the device CPU and memory usage under the **Status** column.



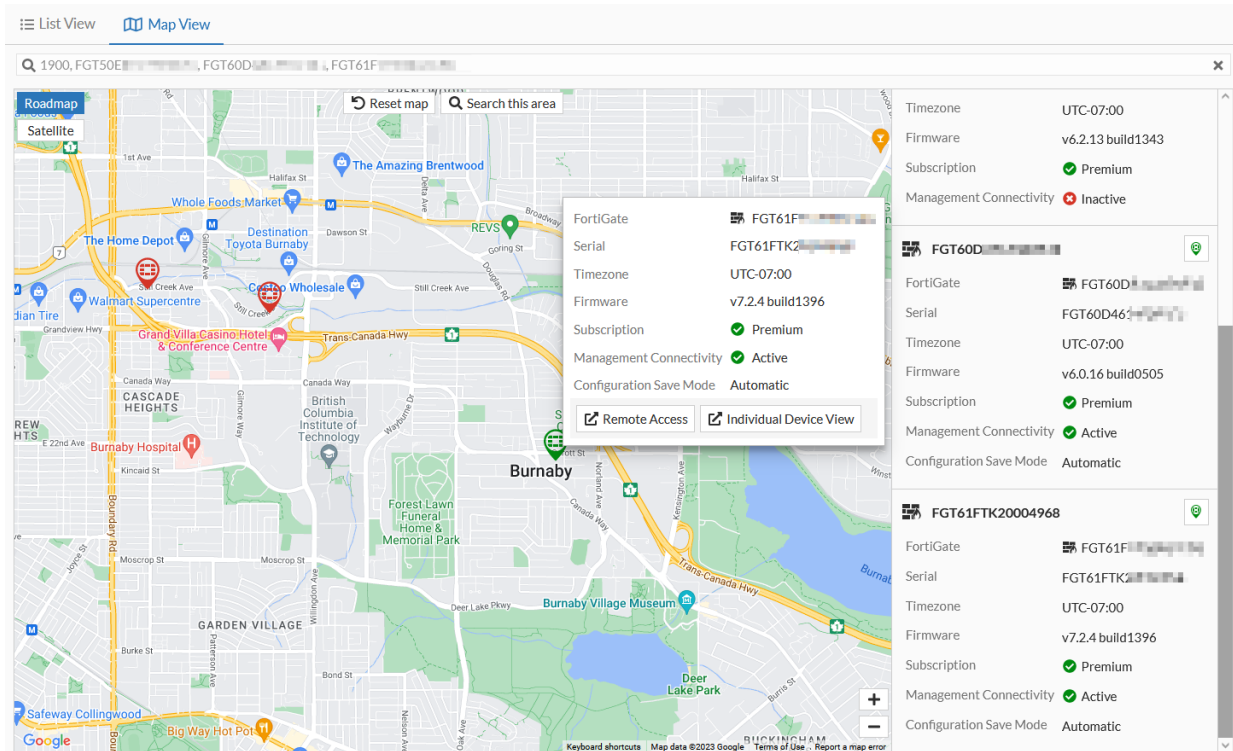
Assets provides the following information about devices. You can select a device's serial number or name to access analysis tools for that device. **Assets** displays the following device information in both list and map views.

- Model/serial number
- Fortinet product type
- Firmware version
- Status (If the device is connected through a management tunnel)
- SD-WAN status
- Last log uploaded
- DHCP clients
- In/out traffic
- Indicators of compromise
- Configuration sync status
- Outbound IP address
- Subaccount

- For devices that are paired in a high availability configuration, a peer icon appears beside the serial number. You can click the icon to view the HA information.

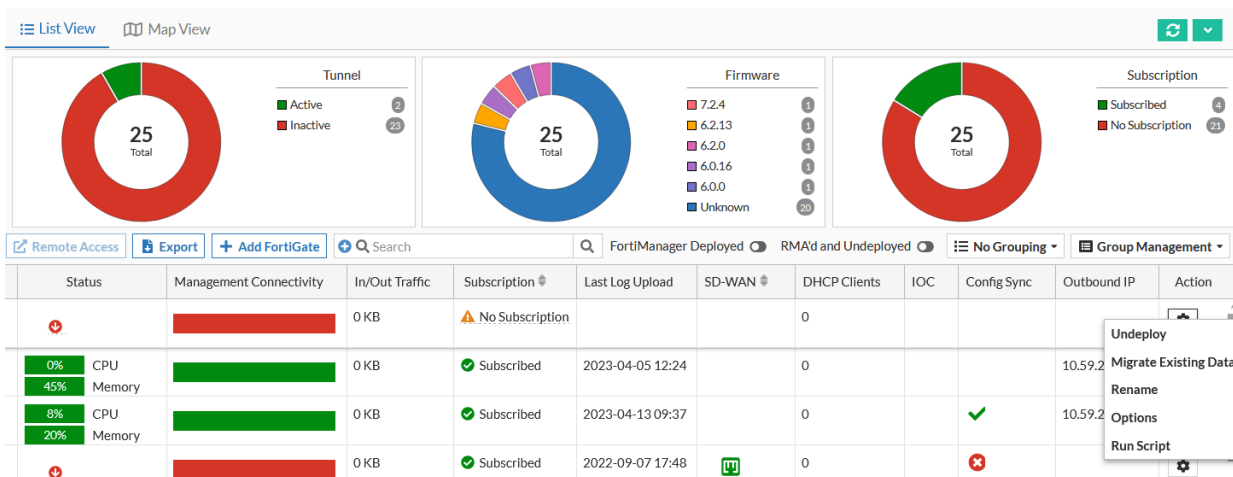
You can download a .csv file of device information by clicking the *Export* button.

You can select *Map View* to view the device list as a map. This allows you to see the geographic location of the deployed devices. You can also place a device at a desired location on the map that does not need to correspond to the device's actual geographic location. You can also view the map in satellite view.



You can toggle on *FortiManager Deployed* to view devices deployed to FortiManager. You can then click on a displayed device to access its Sandbox page.

You can use the gear icon in the *Action* column to access additional functions:



To undeploy the FortiGate:

1. Go to *Assets*.
2. Click the *Action* icon for the desired device.
3. Click *Undeploy*.
4. If desired, select *Keep Data*.
5. In the confirmation dialog, click *OK*.
6. You have the option to place a unit where the FortiGate was deployed. The unit contains historical data and a serial number that starts with U.

An admin user can undeploy a device from one service, then deploy it from another service. For example, an admin user can undeploy a device from the global service, then deploy the same device to the Europe service.

The device may automatically join back to the account due to the autojoin feature. See [FortiCloud and FortiDeploy keys on page 27](#).

To authorize a new account to access the FortiGate's historical data:

You can use this function to transfer historical data to an authorized new account when moving the device to that account.

1. Click the *Action* icon for the desired device.
2. Click *Migrate Existing Data*.
3. In the *Account ID* field, enter the desired account ID.
4. Click *OK*.

To rename the FortiGate:

1. Go to *Assets*.
2. Click the *Action* icon for the desired device, then click *Rename*.
3. In the *Device Name* field, enter the desired name. Click *Update*.

To move a FortiGate from the global service to the Europe service:

You can move a FortiGate from the global service to the Europe service, or vice-versa. The example illustrates moving a FortiGate Cloud New Layout from the global service to the Europe service.

1. Log in to the FortiGate Cloud New Layout global service.
2. Undeploy the FortiGate:
 - a. Click the *Action* icon for the desired device.
 - b. Click *Undeploy*.
 - c. In the confirmation dialog, click *OK*.
 - d. You have the option to place a unit where the FortiGate was deployed. The unit contains historical data and a serial number that starts with U.

An admin user can undeploy a device from one service, then deploy it from another service. For example, an admin user can undeploy a device from the global service, then deploy the same device to the Europe service.

After a device under a non-multitenancy account is undeployed, the device cannot automatically join back to any account due to the autojoin feature being disabled, even after an admin user deploys the device to another service. You must reactivate FortiGate Cloud New Layout on the device GUI using your account email address and password.

3. Go to *Inventory* and confirm that the FortiGate is now listed under inventory.

4. Log in to the FortiGate Cloud New Layout Europe service.
5. Go to *Inventory*. Select the desired FortiGate, then click *Deploy to FortiGate Cloud*.
6. Log in to the FortiOS GUI. Reactivate FortiGate Cloud New Layout by following [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI: on page 22](#).

Group management

When you select multiple devices on the *Assets* page, you can perform group management actions. You can apply actions to a group of FortiGate and FortiWifi devices, simplifying administrative tasks. If you only select paid devices, the dropdown list displays all available actions. Some group management actions require that you enable management on the selected device. See [Management on page 34](#).

Some actions are not unique to group management and this document describes them elsewhere in the context of use on a single device. For descriptions of these functions, see the following topics:

Run Script	To execute a script on a remote device: on page 42
Upgrade Firmware	To upgrade remote device firmware: on page 36
Set Auto Backup	To enable auto backup: on page 35

The following describes actions exclusive to group management:

To set the display timezone:

The display timezone only affects log data view for the FortiGates and does not affect the FortiGates' configured timezone. You can modify the FortiGates' display timezone after it has already been set.

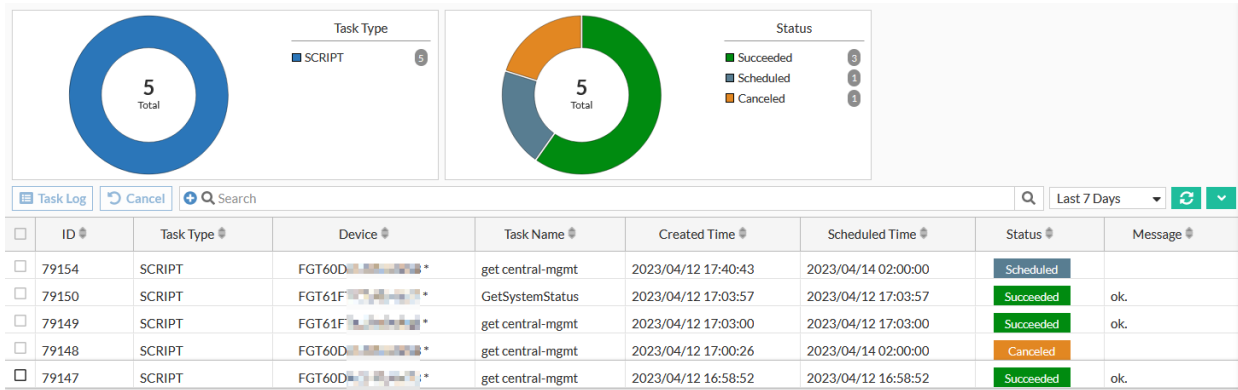
1. Go to *Assets*.
2. Select the desired devices, then click *Set Display Timezone*.
3. From the dropdown list, select the desired timezone. Click *OK*.

To view group task status:

You can view the current status of group management actions.

1. Go to *Assets*.
2. (Optional) Select the desired devices.

3. Select *Group Management > Task Status*. Group management actions and their statuses display.



Management

In *Management*, you can remotely manage FortiGate and FortiWiFi devices that are connected to the FortiGate Cloud New Layout service.

To access *Management* for a device, select the desired device in *Assets* or from the dropdown list in the upper right corner.

When you access *Management* for a new or newly factory reset device with no password configured, you must configure the device admin password to access the *Management* interface.

A FortiGate device without a FortiGate Cloud New Layout subscription license that is running FortiOS 7.0 or later will have read-only remote access.

To remotely access a device:

Remote access is only available for a device that has management enabled and the management tunnel is up.

1. Go to *Assets*.
2. Select the desired device, then click *Remote Access*.
3. Enter the username and password of a user with `super_admin` profile.
4. FortiGate Cloud New Layout displays a popup where you can provide the FortiGate web GUI port. The popup is prepopulated with the default value of 443 or the last updated port number from the device. If the port value in the popup is correct, click *OK* to remotely access the FortiGate. Otherwise, enter the correct value in the popup to remotely access the FortiGate from FortiGate Cloud New Layout.
5. Click *OK*.
6. A login page pops up for the user to enter the local username and password. A user with a `prof_admin` profile is allowed to remotely access a virtual domain (VDOM)-enabled device only if the user profile has access to the management VDOM.

You must first enable the management tunnel on your device before you can see any management functions. On the device, run the following CLI commands:

```
config system central-management
  set mode backup
  set type fortiguard
end
```

Backup

Revision Number	Date Created	Firmware Version	Description
10	2023/04/13 00:00:19	v7.2.4, build 1396	config automatic backup
9	2023/04/12 00:00:17	v7.2.4, build 1396	config automatic backup
8	2023/04/11 00:00:16	v7.2.4, build 1396	config automatic backup
7	2023/04/10 00:00:30	v7.2.4, build 1396	config automatic backup
6	2023/04/09 00:00:19	v7.2.4, build 1396	config automatic backup
5	2023/04/08 00:00:19	v7.2.4, build 1396	config automatic backup
4	2023/04/07 00:00:28	v7.2.4, build 1396	config automatic backup
3	2023/04/06 00:00:20	v7.2.4, build 1396	config automatic backup
2	2023/04/05 00:00:15	v7.2.4, build 1396	config automatic backup
1	2023/04/04 18:11:13	v7.2.4, build 1396	config initial backup

In *Backup*, you can back up, *View*, *Compare* (to other revisions), *Download*, *Restore* (to device), and *Delete* revisions. You can filter the revision list by revision number, date created, firmware version, and description. You can also search for a specific backup.



You cannot restore backups for FortiGates that are running FortiOS 6.2.3.

To back up the device configuration to the cloud:

1. Go to *Management > Backup*.
2. Select *Backup config* in the upper right, and enter the backup revision name. FortiGate Cloud New Layout adds the new configuration to the list. You can rename, view, compare, download, restore, and delete configuration files. The compare icon only appears once you have multiple revisions available.

To enable auto backup:

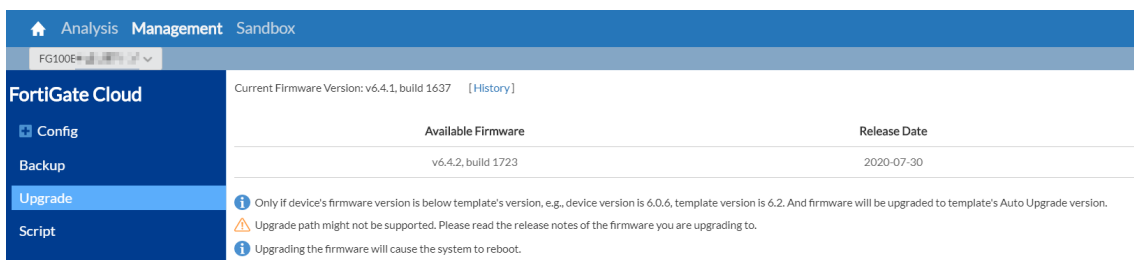
1. Go to *Management > Backup*.
2. Click *Schedule auto-backup*.
3. Enable *Auto backup*. Only setting changes on the FortiGate (locally from the FortiGate or from FortiGate Cloud New Layout) trigger auto backup. You can select one of the following auto backup settings:

Option	Description
Backup interval	Select one of the following: <ul style="list-style-type: none"> • Session: by default, the session duration is 600 seconds. For example, if you modify FortiGate settings at 10:00 AM, FortiGate Cloud New Layout schedules an auto backup in 600 seconds. If no other setting changes occur within the 600 seconds, FortiGate Cloud New Layout performs an auto backup at 10:10 AM. However, if you further modify settings, for example, at 10:05 AM, this resets the timer and FortiGate Cloud New Layout schedules an auto backup for 600 seconds after 10:05 AM. FortiGate Cloud New Layout keeps every backup revision for all sessions in one day.

Option	Description
Backup when config change	<ul style="list-style-type: none"> • Daily: automatically backup the configuration once per day. • Weekly: automatically backup the configuration once per week. <ol style="list-style-type: none"> 1. Configure the auto backup to only occur if the configuration changed.
Backup mail notification	Configure an email address to send a notification to when the backup occurs. The email does not contain a copy of the backup revision. From the <i>Mail notification language</i> dropdown list, select the desired language for the notification email.

4. Click *OK*.

Upgrade

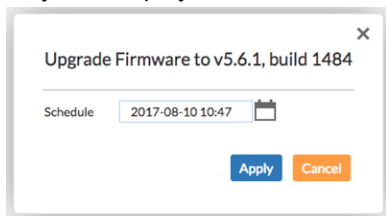


In *Upgrade*, you can see the current firmware version installed on the device, and update to newer stable versions if they are available. The upgrade path that FortiGate Cloud New Layout displays may differ from the upgrade path that FortiGuard displays.

For an account where multitenancy is enabled, you can schedule firmware upgrades via group management across subaccounts.

To upgrade remote device firmware:

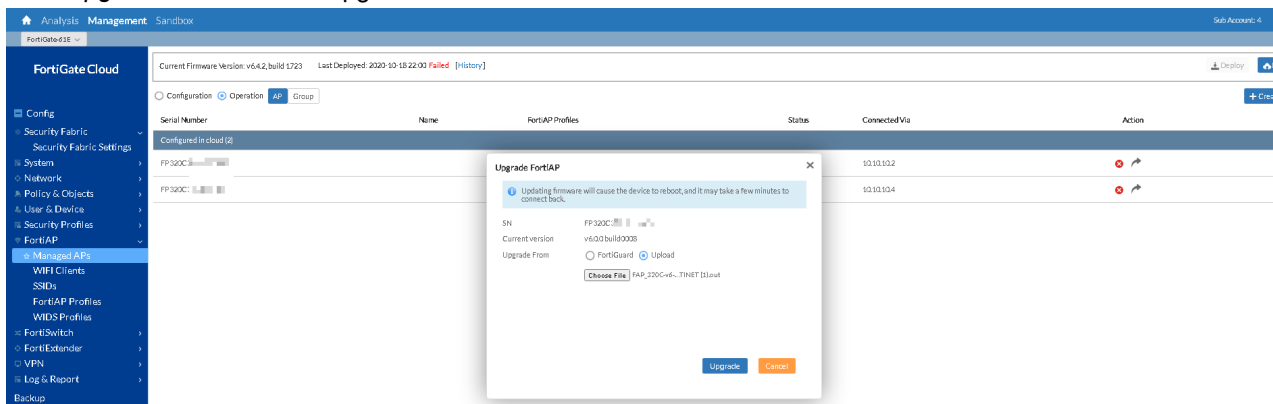
1. Go to *Management > Upgrade*.
2. Verify your device's current firmware version in the upper left before continuing.
3. If you are concerned about the effects of upgrading or have not upgraded recently, use the [Upgrade Path Tool](#) to ensure you follow the recommended upgrade path.
4. Backing up your device configuration before upgrading in *Management > Backup* or in the device's management interface is recommended.
5. Select an available firmware version from the list, and select *Upgrade*. Schedule a time and date to perform the remote upgrade. Scheduling the upgrade during downtime is recommended to minimize disruption. A caution icon may also display to indicate that FortiOS does not support the upgrade path.



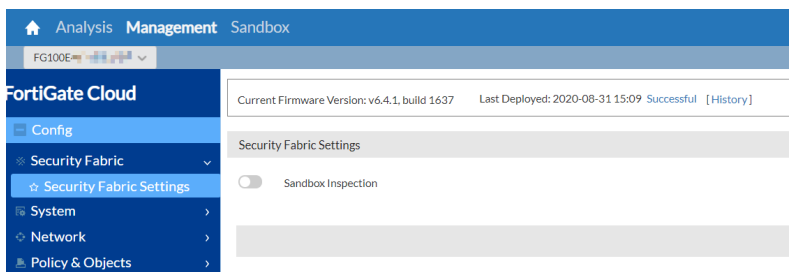
6. Wait for the upgrade to take effect.

To upgrade FortiAP, FortiSwitch, or FortiExtender firmware:

1. Go to *Management > Config > FortiAP > Managed APs*, *> FortiSwitch > Managed FortiSwitches*, or *FortiExtender > FortiExtender*.
2. For the desired device, click *Upgrade*.
3. In the *Upgrade* dialog, select *Upload*.
4. Click *Choose File*.
5. Browse to and upload the desired firmware file.
6. Click *Upgrade*. The device is upgraded to the selected firmware version.



Config



In *Config*, you can access a pared-down version of the remote device's management interface to configure major features as if you were accessing the device itself. For configuration option descriptions, see the [FortiOS documentation](#).

The configuration you see in FortiGate Cloud New Layout does not autorefresh. FortiGate Cloud New Layout displays a notification if the current local FortiGate configuration differs from the latest configuration uploaded to FortiGate Cloud New Layout. You can overwrite the FortiGate Cloud New Layout configuration with the current local FortiGate configuration by clicking *Import*, or merge the two configurations by clicking *Merge*. If you merge the configurations and there is a conflict between them (for example, an option is enabled locally on the FortiGate but disabled in FortiGate Cloud New Layout), FortiGate Cloud New Layout keeps the local FortiGate Cloud New Layout configuration for that option. You can then make any changes you want to reflect on the device and click *Deploy* to push the configuration to the device.

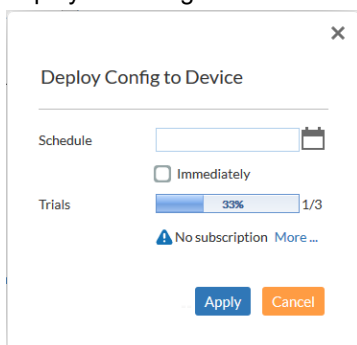
In the case that your device configuration version does not match the firmware version, FortiGate Cloud New Layout may display a *Device config version does not match device firmware version* message. You can click the *Import* button to synchronize the configurations.

FortiGate Cloud New Layout also supports CLI configuration using FortiExplorer over websocket with FortiOS 6.4.1 and later versions.

FortiGate Cloud New Layout supports configuring and deploying SD-WAN for FortiOS 5.6, 6.0, and 6.2, and SD-WAN zones for 6.4, 7.0, and 7.2.

To deploy cloud configuration to devices:

1. Go to *Management > Config*.
2. Before you edit any settings, click the *Import* button to retrieve the most up-to-date configuration from the FortiGate Cloud New Layout-connected device.
3. On this page, you have limited access to a pared-down version of the FortiOS interface, allowing you to edit interfaces, routes, policies, and so on. Edit the FortiOS configuration as needed.
4. When you are ready to push your updated configuration back to the device, click the *Deploy* button in the upper right.
5. In the *Schedule* field, select the date and time to deploy the configuration to the device.
6. Select *Immediately* if desired.
7. Click *Apply*. When using the free version of FortiGate Cloud New Layout, you are limited to three successful configuration deployments per device. The GUI displays the number of deployments left on the *Deploy* button on the *Config* page and in the *Trials* field in the *Deploy Config to Device* dialog. Once you reach the limit for a device, FortiGate Cloud New Layout grays out the *Apply* button in the *Deploy Config to Device* dialog and you cannot deploy the configuration.



8. Wait for the configuration to download to the device. When it completes, a deployment log appears, showing you the changes as they appear in the CLI.

To download a deployment log:

1. Go to *Management > Config*.
2. Do one of the following:
 - a. To download the log for the last successful deployment, beside *Last Deployed: <yyyy-mm-dd hh:mm>*, click *Successful*.
 - b. To download the log for another deployment, beside *Last Deployed: <yyyy-mm-dd hh:mm>*, click *History*. Beside the desired deployment instance, click *log*.
3. Click *Download*.

Managing FortiAP, FortiSwitch, and FortiExtender devices

You can use FortiGate Cloud New Layout to manage FortiAP, FortiSwitch, and FortiExtender devices that are connected to a FortiGate deployed to FortiGate Cloud New Layout. If these devices are already connected to the FortiGate when the FortiGate connects to FortiGate Cloud, and FortiGate Cloud New Layout creates the FortiSwitch and FortiExtender profiles based on their uploaded configurations, while the FortiAP profile is predefined. If these devices are not already connected to FortiGate, you can preauthorize them by adding their serial number and selecting a predefined profile.

Managing FortiAPs

To create a managed FortiAP:

- (Optional) Create an SSID by going to *Management > Config > FortiAP > SSIDs*. Creating an SSID is only necessary if a radio on the FortiAP profile is configured to use a manual SSID.
- (Optional) Create a FortiAP profile by going to *Management > Config > FortiAP > FortiAP Profiles*. You can also use the default profile instead of creating a new profile. To configure the SSID that you created, select *Manual* for *SSIDs*, then select the SSID from the dialog.
- Create the managed FortiAP:
 - Go to *Management > Config > FortiAP > Managed APs*.
 - Select *Create New > Managed APs*.
 - Configure the FortiAP as desired, then click *Save*.
- The new managed FortiAP displays in *Management > Config > FortiAP > Managed APs*. Deploy the configuration to the FortiGates.

To configure a newly joined FortiAP:

- Go to *Management > Config > FortiAP > Managed APs*.
- Select the newly joined FortiAP, then select *Edit*.
- Edit as desired, then click *Save*.

To authorize a managed FortiAP:

- Go to *Management > Config > FortiAP > Managed APs*.
- Select the *Authorize* icon for the desired FortiAP.
- In the dialog, select *YES*.

Serial Number	Name	FortiAP Profiles	Status	Connected Via	Action
FP320C		FAP320C-default	Rejected	10.10.10.3	
FP320C	test688	FAP320C-default(Overridden)	Disconnected	0.0.0.0	
FP320C	test	FAP320C-default	Disconnected	0.0.0.0	
FP320C	FP320C	test_profile	Disconnected	0.0.0.0	

Managing FortiSwitches

To create a managed FortiSwitch:

1. Create a FortiSwitch profile by going to *Management > Config > FortiSwitch > FortiSwitch Profile*, then clicking *Create New*.
2. Create the managed FortiSwitch:
 - a. Go to *Management > Config > FortiSwitch > Managed FortiSwitches*.
 - b. Select *Create New*.
 - c. Configure the FortiSwitch as desired, then click *Save*.
3. The new managed FortiSwitch displays in *Management > Config > FortiSwitch > Managed FortiSwitches*. Deploy the configuration to the FortiGates.

To configure a newly joined FortiSwitch:

1. Go to *Management > Config > FortiSwitch > Managed FortiSwitches*.
2. Select the newly joined FortiSwitch, then select *Edit*.
3. Edit as desired, then click *Save*.

To authorize or deauthorize a managed FortiSwitch:

1. Go to *Management > Config > FortiSwitch > Managed FortiSwitches*.
2. Select the *Authorize* or *Deauthorize* icon for the desired FortiSwitch.
3. In the dialog, select *YES*.

Current Firmware Version: v6.4.5, build 1828 Last Deployed: 2021-03-10 12:08 Successful [History] Last Modified: 2021-03-10 12:20 [Deploy] [Import]

Configuration Operation [Search] [Create New]

Serial Number	Name	Description	FortiSwitch Profile	Status	Connected Via	Action
Configured in cloud (2)						
S108E1	[Icon]	[Icon]	S108E1 [Icon]	Disconnected		[Deauthorize] [Authorize]
S108E1	FSW123		test_FSW_profile	Up	169.254.1.2	[Deauthorize] [Authorize]

Are you sure you want to deauthorize S108E1? YES Cancel

Managing FortiExtenders

To create a managed FortiExtender:

1. Create a FortiExtender interface by going to *Management > Config > Network > Interfaces*, then clicking *Create New > FortiExtender*.
2. Create a FortiExtender profile by going to *Management > Config > FortiExtender > FortiExtender Profiles*, then clicking *Create New*.
3. Create the FortiExtender:
 - a. Go to *Management > Config > FortiExtender*.
 - b. Select *Create New*.

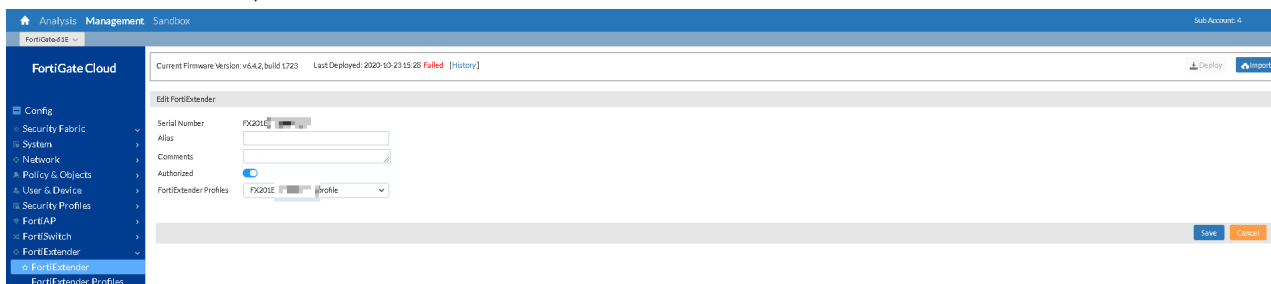
- c. From the *FortiExtender Profiles* dropdown list, select the profile that you configured in step 2. Configure other fields as desired, then click *Save*.
- 4. The new managed FortiSwitch displays in *Management > Config > FortiSwitch > Managed FortiSwitches*. Deploy the configuration to the FortiGates.

To configure a newly joined FortiExtender:

1. Create a FortiExtender interface by going to *Management > Config > Network > Interfaces*, then clicking *Create New > FortiExtender*.
2. Create a FortiExtender profile by going to *Management > Config > FortiExtender > FortiExtender Profiles*, then clicking *Create New*.
3. Go to *Management > Config > FortiExtender*.
4. Select the newly joined FortiSwitch, then select *Edit*.
5. From the *FortiExtender Profiles* dropdown list, select the profile that you configured in step 2. Edit other fields as desired, then click *Save*.

To edit a FortiExtender device:

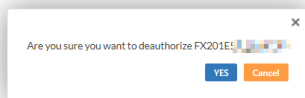
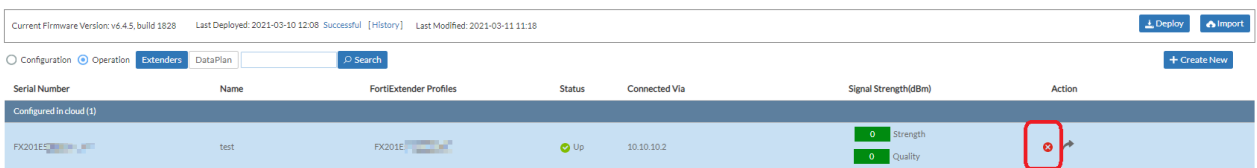
1. Go to *Management > Config > FortiExtender > FortiExtender*.
2. For the desired device, click *Edit*.



3. Edit the fields as desired, then click *Save*.

To authorize or deauthorize a FortiExtender:

1. Go to *Management > Config > FortiExtender > FortiExtender*.
2. Select the *Authorize* or *Deauthorize* icon for the desired FortiExtender.
3. In the dialog, select *YES*.



Script

Script Name	Description	Last Modified
get central-mgmt		2022-07-29 15:06
GetSystemStatus	CLI script to get system status	2017-07-13 09:43

In *Script*, you can create and run script files on connected remote devices to check device status or get bulk configuration information quickly.

To execute a script on a remote device:

1. Go to *Management > Script*.
2. (Optional) To create a new script, do the following:
 - a. Select *Add Script*.
 - b. Enter a name and a description, and the CLI script content that you want to run. Each script is a series of CLI

commands, one command per line. Click *OK*.

The screenshot shows the 'Add Script' dialog box. It features a title bar with the text 'Add Script' and a close button (X). The main content area includes a dropdown menu for 'Script Name' with 'GetSystemStatus' selected. Below this is a text input field for 'Script Name' containing 'GetSystemStatus' and a character count '15 / 50'. A large text area for 'CLI Script' contains the text 'get system status'. Below that is a text input field for 'Description' containing 'CLI script to get system status' and a character count '31 / 1024'. At the bottom of the dialog are two buttons: 'OK' (highlighted in green) and 'Cancel'.

3. For the desired script, click the *Deploy* icon, and select a time to automatically deploy the script to the device.
4. To cancel the scheduled run, click the *Cancel* icon next to the scheduled time.
5. FortiGate Cloud New Layout records that script's output. You can read it by clicking *View Result*.

To download a deployment log:

1. Go to *Management > Script*.
2. Do one of the following:
 - a. To download the log for a script's last successful deployment, click *View Result* for the desired script.
 - b. To download the log for another deployment, click *History*. Beside the desired deployment instance, click *Log*.
3. Click *Download*.

Analytics

Analytics provides tools for monitoring and logging your device's traffic, providing you centralized oversight of traffic and security events.

To access *Analytics* for a device, select the desired device in *Assets* or from the dropdown list in the upper right corner.

FortiView

The default FortiView page is the summary view, which uses widgets to show a general overview of what is happening with your device. You can add new widgets by selecting *Add Widget*.

Each widget is a customizable box, showing certain information about the device. You can do the following with widgets:

- Click a widget title and drag it to move it around.
- Delete a widget by selecting the X icon.
- Set the widget refresh rate by selecting the dropdown list beside the refresh icon.

The following lists all widget types, grouped according to function:

Threats

Widget	Description	Feature required to be enabled on device
Top Applications by Threat Score	Compares which applications have the most traffic compared to their threat score, based on the device's Application Control settings.	Application Control
Top Attacks	Counts the attacks that the device's IPS most frequently prevents.	IPS
Top DLP By Rules	Counts the DLP events that the device detects, sorted by DLP rule.	DLP
Top Spam	Displays which sources send the most spam email into the network.	AntiSpam
Top Threats	Displays which threats trigger the most detection events on the network.	At least one of the following: IPS, AV, AntiSpam, DLP, or Anomaly Detection.
Top Viruses	Counts the viruses that the device's AV most frequently finds.	AV

Traffic Analysis

Widget	Description	Feature required to be enabled on device
Bandwidth	Displays utilization per interface in bps.	
Top Application Categories	Compares which application categories are most frequently used, based on the device's Application Control settings.	Application Control
Top Applications	Compares which applications are most frequently used, based on the device's Application Control settings.	Application Control
Top Countries	Displays which countries have the most traffic from or to the device.	
Top Destinations	Displays which destinations have the most traffic from or to the device.	
Top Protocols	Compares the traffic volume that has passed through a certain interface, based on which protocol it uses (HTTP, HTTPS, DNS, TCP, UDP, other).	
Top Sources	Displays which sources have the most traffic from or to the device.	
Traffic History	Displays volume of incoming and outgoing traffic over time.	

Websites

Widget	Description	Feature required to be enabled on device
Top Users/IP by Browsing Time in Seconds	Compares which users visit which IP addresses most frequently in the greatest ratio. You can click a user to see which IP addresses they visit.	Web Filtering
Top Web Categories	Compares which web filtering categories are most frequently used, based on the device's Web Filtering settings.	Web Filtering
Top Websites	Compares which websites are most frequently visited. You can click a category to see which websites in that category are being visited.	Web Filtering

DNS

Widget	Description	Feature required to be enabled on device
High Risk Domains	Displays which high risk domains were visited.	
Queried Botnet C-and-C Domains	Displays which botnet C-and-C domains were queried.	
Top Domain Lookup Failures	Displays domains with highest number of lookup failures.	
Top Queried Domain	Compares which domains are most frequently queried.	

FortiView offers log information, reformatted into easily navigable charts, in a style similar to FortiView in FortiOS.

You can select a time period to view data for:

- Last 60 minutes
- Last 24 hours
- Last 7 days

You can set the chart's refresh rate by clicking the *Refresh* icon. By using the *Add Filter* dropdown list, you can filter the chart by various factors. Individual chart entries may also allow you to filter by that entry's data by selecting a filter icon on the right, or drill down to see all related log data, such as all log data through that interface.

FortiView charts reference

The following provides descriptions of all FortiView charts.

User Dashboard

The User Dashboard displays the number of users/entities that fit into the following security categories:

- Visited high risk websites
- Infected by malware
- Targeted by malware
- Targeted by spam
- Violated data leak rules
- Used high-risk applications
- Targeted by attacks
- Attacked by protocol intrusion

You can click each category to view the list of users/entities affected. You can drill down further to view the list of incidents for each user/entity and the logs for each incident.

FSBP Dashboard

The FSBP Dashboard displays security rating results for the device in the following categories:

- Overall Score
- Maturity Milestones
- Top Achievement
- Top Todo
- History Trend

The FSBP Dashboard is only available for devices that support the Security Rating feature.

Threats

Chart	Description
Top Threats	Lists the top threats to your network. FortiGate Cloud considers the following incidents threats: <ul style="list-style-type: none"> • Risk applications detected by application control • Intrusion incidents detected by IPS • Malicious web sites detected by web filtering • Malware/botnets detected by antivirus (AV)
IPS	Lists intrusion incidents detected by IPS.
AntiVirus	Lists the malware/botnets detected by AV.
AntiSpam	Lists the spam detected by AntiSpam.
DLP & Archives	Lists the DLP and archives incidents.
Anomaly	Lists network anomalies.

Traffic Analysis

Chart	Description
Application	Displays the top applications used on the network including the application name, category, bandwidth (sent/received), sessions, and risk level.
Cloud Application	Displays the top cloud applications used on the network.
Source	Displays the highest network traffic by source IP address and name, bandwidth (sent/received), sessions, and risk level.
User	Displays the highest network traffic by user in terms of bandwidth sent/received, sessions, and risk level.
Destination	Displays the highest network traffic by destination IP addresses, the applications used to access the destination, bandwidth sent/received, sessions, and risk level.

Chart	Description
Interface	Displays the highest network traffic by interface in terms of bandwidth sent/received, traffic sessions, and risk level. You can view by source or destination interface.
Country	Displays the highest network traffic by country in terms of bandwidth sent/received, traffic sessions, and risk level. You can view by source or destination country.
Policy Hits	Lists the policy hits by policy, device name, VDOM, number of hits, bytes, and last used time and date.

Website

Chart	Description
Website	Displays the top allowed and blocked website domains on the network. You can also view by source. You can filter by threat level.
Web Category	Displays the top website categories. You can filter by threat level.
Browsing User/IP	Displays the top web-browsing users and their IP addresses by total browsing time duration. You can also view by category or domain. You can filter by threat level.

System Events

Chart	Description
System Activity	Displays events on the managed devices, their severity, and number of incidents. You can filter by user or severity level.
Admin Session	Displays the users who logged into managed devices, the number of configuration changes they performed, number of admin sessions, and their total duration of logged-in time. You can also view by login interface. You can filter by severity level.
Failed Login	Displays the users who failed to log into managed devices. You can also view by login interface. You can filter by severity level.
Wireless	Displays wireless events. You can filter by severity level.

VPN Events

Chart	Description
Site to Site	Displays the names of VPN tunnels with IPsec that are accessing the network.

Chart	Description
SSL and Dialup	Displays the users who are accessing the network by using an SSL or IPsec VPN tunnel.
Failed VPN Login	Displays the users who failed to log in successfully via VPN.

Monitor

Device

The Device page displays tabs for different FortiOS features, such as DHCP, and SD-WAN. You can go to the tabs to view information received from the FortiGate regarding this features.

Logs from FortiGate

The Logs from FortiGate chart displays the daily amount of logs that FortiGate Cloud New Layout has received from the FortiGate for the past seven days. For each day of data, the chart also displays the type of logs that FortiGate Cloud New Layout has received, such as traffic, antivirus, and so on.

Logview

#	Time	Level	Firewall Action	User	Source	Destination	Service	Sent/Received	Application
1	04-05 12:35:26(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
2	04-05 12:34:48(-0700)	■ ■ ■ ■	close		10.59.227.138	172.16.97.47	tcp/514	4.70KB/5.20KB	tcp/514
3	04-05 12:34:09(-0700)	■ ■ ■ ■	accept		127.0.0.1	127.0.0.1	udp/12121	652B/0B	udp/12121
4	04-05 12:34:02(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
5	04-05 12:33:32(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
6	04-05 12:33:02(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
7	04-05 12:32:47(-0700)	■ ■ ■ ■	close		10.59.227.138	172.16.97.47	tcp/514	4.70KB/5.20KB	tcp/514
8	04-05 12:31:56(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
9	04-05 12:31:26(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
10	04-05 12:31:08(-0700)	■ ■ ■ ■	close		127.0.0.1	127.0.0.1	HTTP	399B/670B	HTTP
11	04-05 12:30:48(-0700)	■ ■ ■ ■	close		10.59.227.138	172.16.97.47	tcp/514	4.70KB/5.20KB	tcp/514
12	04-05 12:30:30(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
13	04-05 12:30:20(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	192.168.100.105	HTTPS	8.37KB/16.92KB	HTTPS
14	04-05 12:29:58(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
15	04-05 12:29:09(-0700)	■ ■ ■ ■	accept		127.0.0.1	127.0.0.1	udp/12121	652B/0B	udp/12121
16	04-05 12:28:59(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
17	04-05 12:28:48(-0700)	■ ■ ■ ■	close		10.59.227.138	172.16.97.47	tcp/514	4.70KB/5.20KB	tcp/514
18	04-05 12:28:37(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
19	04-05 12:28:32(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
20	04-05 12:27:51(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853
21	04-05 12:27:19(-0700)	■ ■ ■ ■	server-rst		10.59.227.138	172.16.95.85	tcp/853	60B/40B	tcp/853

Logview offers more detailed log information, access to individual log data, and downloadable log files. You can select a log category to view from the list on the left.

You can select a time period to view data for. You can view log data older than seven days only for devices that have a FortiGate Cloud New Layout subscription. For devices with a free subscription, FortiGate Cloud New Layout grays out any dates beyond a seven-day period:

- Last 60 minutes
- Last 24 hours
- Last 7 days
- Last 30 days
- Specified time period

The *Time* column displays the raw log time, which may not correspond to the display time zone that you configured for FortiGate Cloud New Layout. To convert the raw log time to the FortiGate Cloud New Layout display time zone, add or subtract the time offset provided in the *Time* column. In the example, log 1 was recorded at 03:10:56. The (-0700) in the *Time* column shows the time difference between the raw log time and Greenwich mean time (GMT). Since in the example, the display time zone is the same as GMT, you can conclude that log 1 was recorded at 10:10:56 (03:10:56 + 07:00:00) in the display time zone.

You can set the chart's refresh rate by selecting the down arrow icon beside the *Refresh* icon. By using the *Add Filter* dropdown list, you can filter the log list by various factors. By selecting *Log Files*, you can see the raw log data files and manually download them.

To download logs:

1. In *Analytics > Logview*, go to the desired log.
2. Click *Log files* in the upper right corner.
3. Select the checkboxes for the desired logs. You can download up to five log files at once.
4. Click the *Download* button. A .zip archive file containing the logs that you selected in step 3 is downloaded.

You can download various raw log types from FortiGate Cloud New Layout. The log filename format is <log type>_MultiLogs_<download timestamp>.gz

For example, for a traffic log, the filename would be tlog_MultiLogs_1592503586.zip.

The log filename format uses a shortened identifier for each log type:

Log type	Identifier
Anomaly	mlog
AntiSpam	slog
AntiVirus	vlog
Application Control	rlog
Attack	alog
CIFS	ilog
Content	clog
DLP	dlog

Log type	Identifier
DNS	olog
Event (including all subtypes)	elog
File filter	fflog
GTP	glog
Netscan	nscan
SSH/SSL	hlog
Traffic	tlog
VOIP	plog
Web Application Firewall (WAF)	flog
Web Filter	wlog

For example, consider an Application Control log that is generated for the period between October 23, 2022 and November 2, 2022 for a FortiGate with the serial number "FGT123". The first log in the file has a timestamp of 6:09 PM, while the last log in the file has a timestamp of 9:32 AM. The log file name is as follows:

FGT123_rlog_20221023-1809-20211101-0932.log.gz

Event Management

Ap...	Name	Event Type	Severity	Send Alert Email	Email To	Description
<input type="checkbox"/>	Power Supply Failure	System	CRITICAL	<input type="checkbox"/>		Default Power Supply Failure event handler
<input type="checkbox"/>	Device In Conserve Mode	System	CRITICAL	<input type="checkbox"/>		Default Conserve Mode event handler
<input type="checkbox"/>	Interface Down	System	HIGH	<input type="checkbox"/>		デフォルトのインターフェイスダウンイベントハ
<input type="checkbox"/>	IPSec Phase2 Down	VPN	LOW	<input type="checkbox"/>		Default IPsec Phase2 Down event handler
<input type="checkbox"/>	HA Failover	HA	LOW	<input type="checkbox"/>		Default HA Failover event handler
<input type="checkbox"/>	FortiSwitch Tunnel Down	System	HIGH	<input type="checkbox"/>		Default FortiSwitch Tunnel Down event handler
<input type="checkbox"/>	Device Tunnel To Server Down	MgmtChannelChecker	CRITICAL	<input type="checkbox"/>		Default handler to check status of secure tunnel fr
<input type="checkbox"/>	OFTP Connection Down	System	HIGH	<input type="checkbox"/>		Default OFTP Connection Down event handler
<input type="checkbox"/>	Botnet Communication Detection By Threat	UTM	HIGH	<input type="checkbox"/>		Default Botnet communication detection by threat
<input type="checkbox"/>	Malicious Code Detection By Threat	UTM	HIGH	<input type="checkbox"/>		Default Malicious Code Detection By Threat
<input type="checkbox"/>	Risky Destination Detection By Threat	UTM	HIGH	<input type="checkbox"/>		Default Risky Destination Detection By Threat
<input type="checkbox"/>	Risky App Detection By Threat	UTM	HIGH	<input type="checkbox"/>		Default Risky App Detection By Threat
<input type="checkbox"/>	Malicious File Detection By Threat	UTM	HIGH	<input type="checkbox"/>		Default Malicious File Detection By Threat
<input type="checkbox"/>	Risky App Detection By Endpoint	UTM	HIGH	<input type="checkbox"/>		Default Risky App Detection By Endpoint
<input type="checkbox"/>	Malicious File Detection By Endpoint	UTM	CRITICAL	<input type="checkbox"/>		Default Malicious File Detection By Endpoint
<input type="checkbox"/>	Malicious Code Detection By Endpoint	UTM	CRITICAL	<input type="checkbox"/>		Default Malicious Code Detection By Endpoint
<input type="checkbox"/>	Key Events	System	HIGH	<input type="checkbox"/>		Default Event Handler for error and critical events

In *Event Management*, you can set up email alerts for specific network structure emergencies, such as the device's power supply failing. The page defaults to *All Events* in the left menu, which lists all past emergency events. Select *Event Handlers* to configure the alert settings.

You can enable events to track by selecting their checkboxes. If you want to receive an alert email when they occur, select the checkbox under *Send Alert Email* and enter the email address to send the alert email to. To send the alert

email to multiple email addresses, you can enter multiple email addresses in the *Email To* fields, separating each email address with a comma.

To configure each *Event Handler* directly and set the logged severity level, select the handler and click *Edit*.

Edit Handler

Name	Malicious Code Detection By Threat
Event Type	UTM
Description	<div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;"> Default Malicious Code Detection By Threat </div>
Filter - 1	<input checked="" type="checkbox"/> >
Filter - 2	<input checked="" type="checkbox"/> >
Filter - 3	<input checked="" type="checkbox"/> >
Filter - 4	<input checked="" type="checkbox"/> >

OK
Cancel

Reports

Reports generates custom reports of specific traffic data, and can email them to specified addresses. Select a report to see a list of collected reports of that type.

To schedule a report:

1. Go to *Analytics > Report*.
2. Click the desired report.
3. Click *Schedule*
4. In *Included devices*, add devices to schedule the report for. You can use this option to generate a report with aggregated data from multiple devices, which is useful for providing a network status overview. FortiGate Cloud New Layout supports report aggregation for the following:
 - FortiGates in a high availability cluster
 - Virtual domains on the same FortiGate
5. To determine the range of time for which to generate reports, select *Daily*, *Weekly* or *Monthly*, and which email to send the reports to. For example, if you want to generate a report for a month of data, you can select *Monthly* and

FortiGate Cloud New Layout runs and sends the report once a month.

6. Click **OK**.

Reports reference

The following provides descriptions of preconfigured reports:

Report	Description
360 Degree Activities	<p>Displays the following sections:</p> <ul style="list-style-type: none"> • Application Visibility • Web Traffic Analysis • User Behavior Analysis <p>You cannot edit this report.</p>
Admin and System Events Report	<p>This report displays admin login information and system event information.</p> <p>Displays the following sections:</p> <ul style="list-style-type: none"> • Admin Login <ul style="list-style-type: none"> • Login Summary • Login Summary By Date • List of Failed Logins • System Events <ul style="list-style-type: none"> • Events by Severity • Critical Severity Events • High Severity Events • Medium Severity Events <p>You cannot edit this report.</p>
Cyber Threat Assessment	<p>Enhanced version of the Summary Report. Displays the following sections:</p> <ul style="list-style-type: none"> • User Productivity <ul style="list-style-type: none"> • Application Usage • Web Usage • Security and Threat Prevention <ul style="list-style-type: none"> • Application Vulnerability Exploits • Virus Prevention • At-Risk Devices and Hosts • High Risk Application • Network Utilization <ul style="list-style-type: none"> • Bandwidth <p>You cannot edit this report.</p>
DNS	<p>The default version of this report displays the following charts:</p> <ul style="list-style-type: none"> • Queried Botnet C&C domains and IP addresses • High risk sources • Top queried domains • Top domain lookup block • Top domain lookup timeout

Report	Description
FSBP	<p>The default version of this report displays results based on the device's security rating result:</p> <ul style="list-style-type: none"> • Fortinet Security aFbric components audited • Score history (industry average and industry range) • Maturity milestones • Achievements and to-do list <p>The FSBP Dashboard is only available for devices that support the Security Rating feature. If the device does not have any Security Rating results, all charts show no data.</p>
High Bandwidth Application Usage	<p>Shows you applications that may affect network performance by using high bandwidth, allowing you to quickly pinpoint high bandwidth usage and violation of corporate policies.</p> <p>This report focuses on peer-to-peer applications (such as BitTorrent, Xunlei, Gnutella, Filetopia), file sharing and storage applications (such as Onebox, Google Drive, Dropbox, Apple Cloud), and voice/video applications (such as YouTube, Skype, Spotify, Vimeo, Netflix).</p> <p>You cannot edit this report.</p>
Summary	<p>The default version of this report displays the following sections:</p> <ul style="list-style-type: none"> • Threat Analysis • Traffic Analysis • Web Activities • VPN Analysis • System Activity
VPN Report	<p>This report displays VPN-related information. Displays the following sections:</p> <ul style="list-style-type: none"> • Summary <ul style="list-style-type: none"> • VPN Traffic Usage Trend • VPN User Logins • Failed Login Attempts • Top Dialup VPN Users • SSL VPN <ul style="list-style-type: none"> • Top Sources of SSL VPN Tunnels by Bandwidth • Top SSL VPN Tunnel Users by Bandwidth • Top SSL VPN Web Mode Users by Duration • Top SSL VPN Users by Duration • IPsec VPN <ul style="list-style-type: none"> • Top Site-to-Site IPsec Tunnels by Bandwidth • Top Dialup IPsec Tunnels by Bandwidth • Top Dialup IPsec Users by Bandwidth • Top Dialup IPsec Users by Duration <p>You cannot edit this report.</p>
Web Activity	<p>The default version of this report displays the following charts:</p>

Report	Description
	<ul style="list-style-type: none"> • Most Visited Web Categories • Most Visited Websites • Most Visited Web Categories and Web Sites • Most Active Web Users • Most Visited Web Sites by Most Active Users • Most Active Users of Most Visited Web Sites
What is New Weekly Report	<p>This report displays new emerging devices, applications, vulnerabilities, and viruses during the past week. You can only schedule FortiGate Cloud New Layout to run this report weekly. Displays the following sections:</p> <ul style="list-style-type: none"> • New Device • New Applications • New Vulnerability • New Virus <p>All sections display all findings from the past week. You cannot edit this report.</p>

Report configurations

You can create and alter report configurations and their settings from *Report*. You can *Add* new reports or *Edit* existing ones. Both open an editing interface, which allows you to edit the report content and add or remove sections.

This feature is available for devices with FortiGate Cloud Service subscriptions.

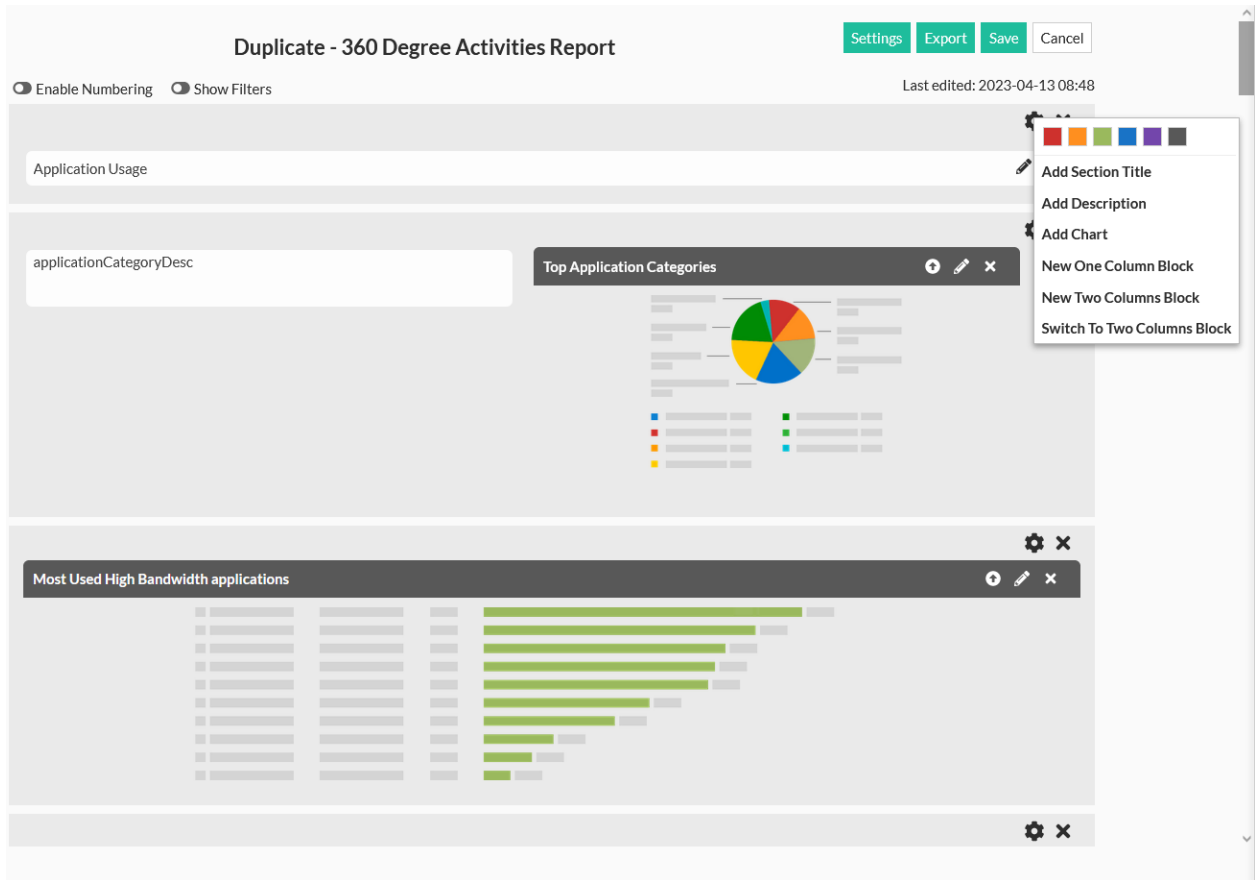
When a report configuration is scheduled for more than 15 devices, you can click ... in the *Scheduled Devices* column to open a window where you can view all scheduled devices.

Report Config	Total Scheduled	Scheduled Devices	Last Modified
360 Degree Activities Report	1	FGT50E	2019-05-01 11:16
Admin and System Events Report	2	FGT50E, FGT60D	2023-01-09 17:10
Cyber Threat Assessment Report	0		2021-02-04 16:32
DNS Report	0		2019-09-11 16:24
High Bandwidth Application Usage Report	0		2019-09-11 16:24
VPN Report	0		2021-05-13 12:10
What is New Weekly Report	0		2020-02-21 08:51
FSBP Report	0		2021-02-23 11:29
Summary Report	1	FGVME	2021-10-27 14:34
Web Activity Report	0		2021-03-10 11:03

To create a custom report:

1. Go to *Analytics > Report*.
2. Click *Create Report Config*, and choose to create a blank report, copy an existing report, or import an external template. Click *OK*.
3. To add a chart, click the gear icon and select *Add Chart*.
4. In the *Predefined Chart List* dialog, select the desired chart. You can further customize the chart by clicking *Customize*. Click *OK*.

5. Click the gear icon to add *Descriptions*, and *Titles* to the current section, or new 1- or 2-column sections.



6. Click *Settings*. You can upload a report logo and set the report language.

Report Settings

Logo No file selected.

Language

Generate empty report even when there is no data

7. Click *OK*.
8. Select *Save*, and view the finished report.

To configure report settings:

1. Go to *Analytics > Report*.
2. Select the desired report, then click *Settings*. You can upload a report logo and set the report language. Click *OK*.

To delete a report config:

1. Go to *Report*.
2. Select the desired report, then click *Delete*. Deleting the report configuration deletes all associated reports from FortiGate Cloud New Layout. Click *OK* in the confirmation dialog to continue with the deletion.

Sandbox

FortiSandbox SaaS is a service that uploads and analyzes files that FortiGate antivirus (AV) marks as suspicious.

In a proxy-based AV profile on a FortiGate, the administrator selects *Inspect Suspicious Files with FortiGuard Analytics* to enable a FortiGate to upload suspicious files to FortiGuard for analysis. Once uploaded, the file is executed and the resulting behavior analyzed for risk. If the file exhibits risky behavior or is found to contain a virus, a new virus signature is created and added to the FortiGuard AV signature database. The next time the FortiGate updates its AV database it has the new signature. The turnaround time on Cloud SandBoxing and AV submission ranges from ten minutes for automated SandBox detection to ten hours if FortiGuard Labs is involved.

FortiGuard Labs considers a file suspicious if it exhibits some unusual behavior, yet does not contain a known virus. The behaviors that FortiGate Cloud New Layout Analytics considers suspicious change depending on the current threat climate and other factors.

The FortiGate Cloud New Layout console enables administrators to view the status of any suspicious files uploaded: pending, clean, malware, or unknown. The console also provides data on time, user, and location of the infected file for forensic analysis. SandBoxing is available in both free and paid FortiGate Cloud New Layout subscriptions.

The *SandBox* tab collects information that the FortiSandbox SaaS service compiles. FortiSandbox SaaS submits files to FortiGuard for threat analysis. You can configure your use of the service and view analyzed files' results.

You must enable Cloud SandBoxing on the FortiGate and submit a suspicious file for the *SandBox* tab to become visible.

FortiGate FortiSandbox SaaS regions include Global, Europe, U.S., and Japan.

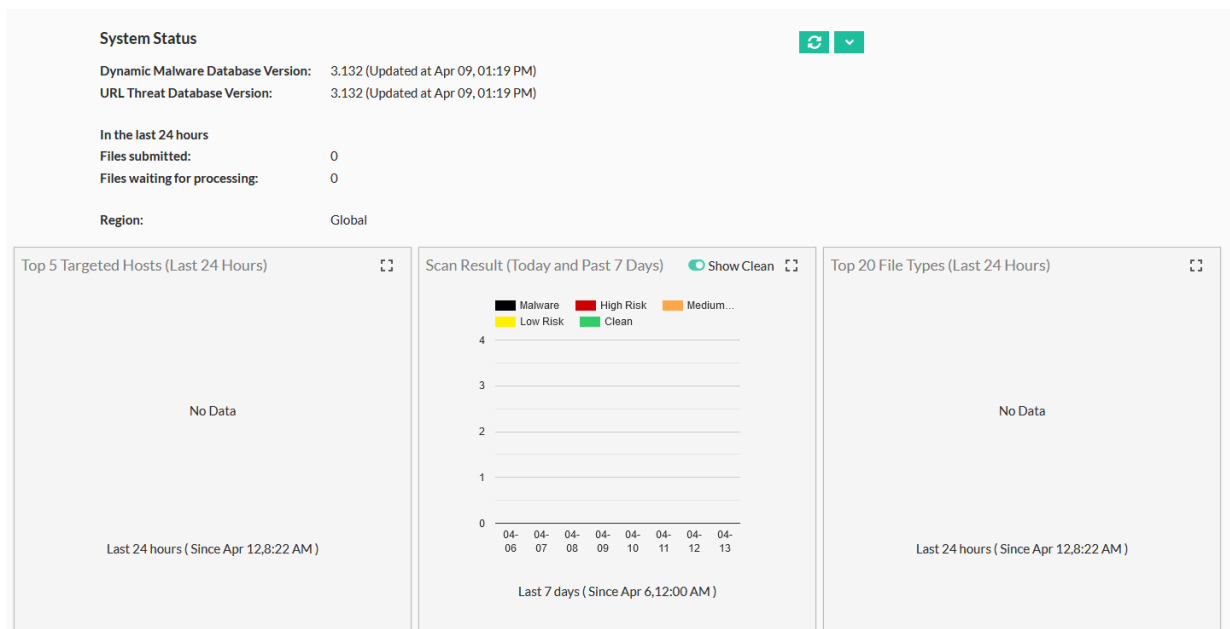
To set up Sandbox:

1. Complete the [FortiGate FortiSandbox SaaS](#) steps.
2. In *Security Profiles > AntiVirus*, create a profile that has *Send files to FortiSandbox Cloud for inspection* configured.
3. Create a firewall policy with logging enabled that uses the Sandbox-enabled AV profile.
4. Once devices have uploaded some files to FortiSandbox SaaS, log in to the [FortiGate Cloud New Layout portal](#) to see the results.

To upload a sample to Sandbox:

1. Go to *Sandbox > Scan Results*.
2. Click *Upload Sample*.
3. Browse to and select a file to upload, then click *Submit*. Once analysis completes, *Scan Results* displays the results.

Dashboard



You can see an overview of the Sandbox results on the *Dashboard*.

The Dashboard contains the following widgets:

Widget	Description
System Status	Quick view of the current state of the AV databases and load.
Top 5 Targeted Hosts (Last 24 Hours)	Displays which hosts received the most threats during the last 24 hours.
Scan Result (Today and Past 7 Days)	Shows the last eight days of results and their risk levels. You can toggle the display of clean files in the chart by selecting the checkmark in the lower right of the widget.
Top 20 File Types (Last 24 Hours)	Displays the most commonly analyzed file types in the last 24 hours of scanning.

Files and On-Demand Records

Files Records displays files that your connected device's AV has flagged as suspicious, which have been uploaded to FortiGate Cloud New Layout for FortiGuard analysis. In *On-Demand*, you can manually upload files for FortiGuard analysis, and view the analysis results. These pages may not appear if you do not have the FortiSandbox SaaS service enabled on the connected device.

You can select an analysis level and click the file names for more information. *On-Demand* also has an *Export* option, which allows you to export a CSV or PDF of on-demand results, and *Upload File*, where you can manually upload a file for analysis.

The maximum file size is 10 MB. The processing time may vary based on the file size.

Setting

Enable Alert Setting

Email

Malware
 High Risk
 Medium Risk
 Low Risk

Log Retention
 Include past day(s) of data. (The limit of max days is 365)

Malware Package Options
 Include job data of the following rating:
 Malware
 High Risk
 Medium Risk
* Please enable FortiSandbox Database on Fortigates to receive this update

URL Package Options
 Include job data of the following rating:
 Malware
 High Risk
 Medium Risk

Save

In *Configuration > Sandbox Setting*, you can configure FortiSandbox SaaS settings:

Setting	Description
Enable Alert Setting	<ul style="list-style-type: none"> • Enable alert emails • Enter multiple emails (one per line) to receive alerts • Set which severity level triggers sending alert emails
Log Retention	Set number of days to retain log data.

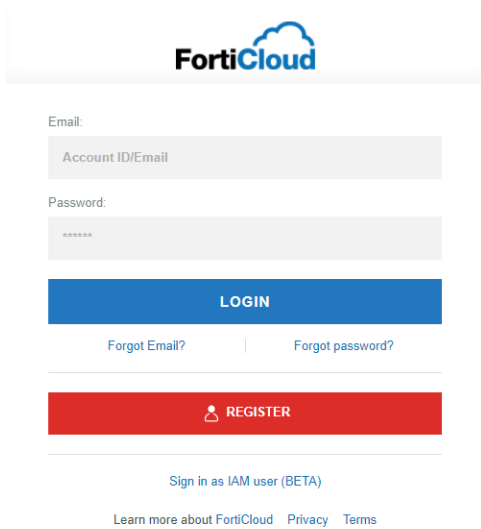
Setting	Description
Malware Package Options	Select the risk level of data that is automatically submitted to FortiGuard to further antithreat research.
URL Package Options	

To configure Sandbox alert emails:

1. Go to *Configuration > Sandbox Setting*.
2. Select *Enable Alert Setting*.
3. Enter emails into the list to contact in the event of a Sandbox alert.
4. Select the severity levels to trigger an alert.
5. Click *Save*.

Accounts and users

FortiGate Cloud New Layout supports the unified FortiCloud account for login to access the portal. The user who created the account, which this guide refers to as the primary user, can log in to FortiGate Cloud New Layout using their email ID as the username and the password that they chose when creating the account.



Creating an account

You can register a new FortiCloud account using the *Register* button on the landing page.

User management

The primary user can add users to the account using the following methods:

User type	Method
Identity and Access Management (IAM) user	Add users to the FortiCloud account with role-based access control in FortiGate Cloud New Layout using the FortiCloud IAM service . See IAM users on page 65 .
FortiGate Cloud user	Add FortiGate Cloud-only users. See FortiGate Cloud users on page 67 .

FortiGate Cloud New Layout does not support subusers added via the FortiCare legacy user management system. IAM users are the recommended approach.

IAM users

FortiCloud Identity & Access Management (IAM) supports creating IAM users and allowing access to FortiGate Cloud New Layout using resource-based access control using FortiCloud permission profiles. When creating a permission profile in the IAM portal, you must add the FortiGate Cloud portal to the profile, and configure the desired permissions.

FortiGate Cloud

Resources	Read Only	Read & Write	No Access
Configuration Management		✓	
Logging and Reporting		✓	
Cloud Sandbox		✓	
IOC		✓	

For details on creating a permission profile in the IAM portal, see [Creating a permission profile](#).

See [Adding IAM users](#) for details on configuring IAM users.

FortiCloud organizations

FortiGate Cloud New Layout supports organizational unit (OU) account selection and switching. OU support is currently in beta and available to external customers with FortiCloud Premium license accounts. See [Organization Portal](#) for details on creating an OU.

Creating an IAM user with OU scope

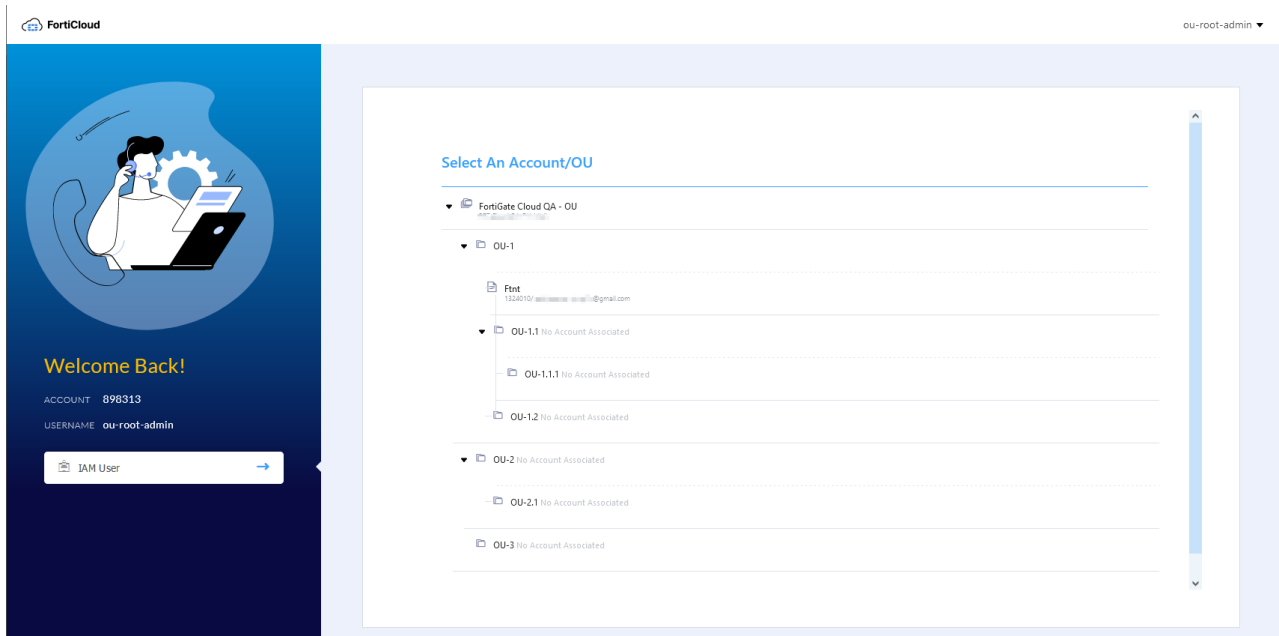
See [User permissions](#).

Logging in to FortiGate Cloud New Layout and accessing OU accounts

To log in to FortiGate Cloud New Layout and access OU accounts:

1. In the FortiGate Cloud New Layout landing page, click *Login*.
2. Select *IAM Login*.
3. Enter your account ID/alias, username, and password, then click *Log In*.

4. Select the desired account/OU.

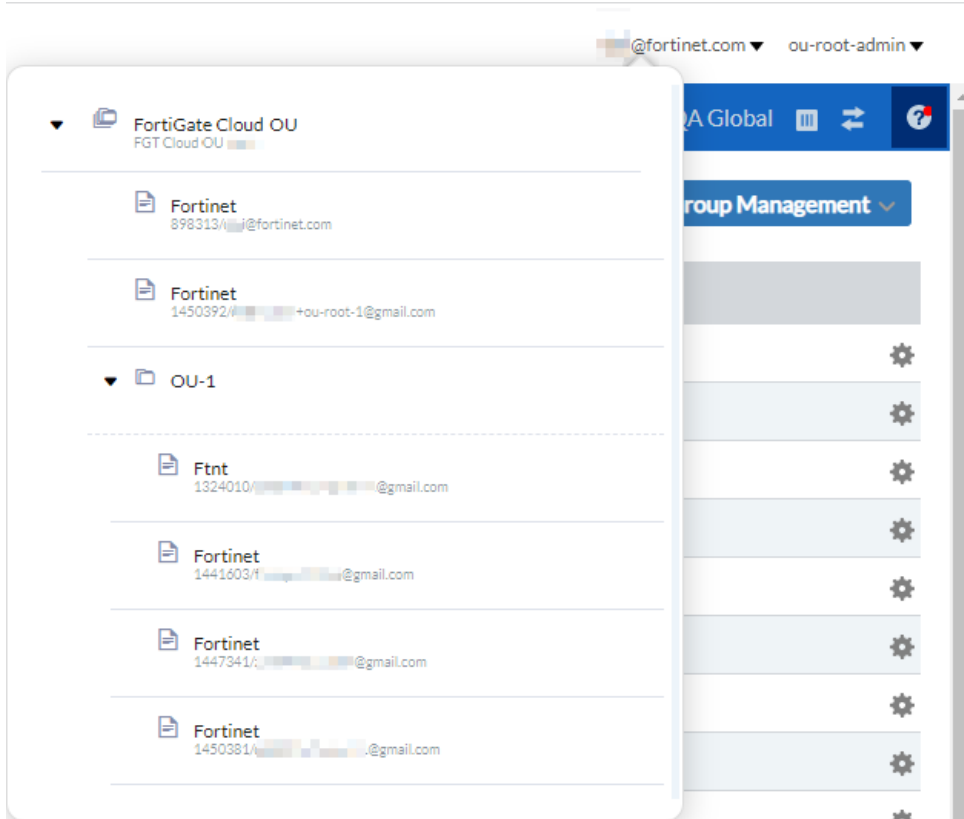


Returning to the OU tree

To return to the OU tree, select your username in the upper right corner of the GUI, then select *Switch Accounts*.

Switching OUs or accounts

To switch the OU or account that you are using to access FortiGate Cloud New Layout, select your account in the upper right corner of the GUI, then select the desired OU or account from the dropdown list.



FortiGate Cloud users

Primary users can create FortiGate Cloud users with admin and regular (read-only) permission roles with access to different functionalities.

For information on multitenancy-enabled accounts and adding subaccounts and users to subaccounts, see [Multitenancy on page 73](#).

To add more FortiGate Cloud users:

1. Go to *Configuration > Account Setting*.
2. Click the *Add User* button.
3. Enter the new admin/user's email address and name.
4. From the *Region* dropdown list, select the desired region for this user to have access to.
5. From the *Role* dropdown list, select whether they are an admin (total control over the FortiGate Cloud New Layout interface) or a regular user (limited control, monitoring only).
6. For *Manage Sub Account*, select *All*, or select *Selected* to decide which subaccounts the admin/user has access to.
7. Select *Submit*. The admin/user receives an email prompting them to set their account password and log in.

Signing in as a FortiGate Cloud New Layout user

To sign in as a FortiGate Cloud New Layout user:

1. Go to the [FortiGate Cloud New Layout portal](#).
2. In the *Email* and *Password* fields, enter the account email address and password.
3. Click *Login*.

Account Setting

You can add and manage users from *Configuration > Account Setting*. *Account Setting* includes different user types, including IAM and FortiGate Cloud New Layout account users. *Account Setting* displays a key icon beside the primary account.

The *Account Setting* page contains the following columns:

Column	Description
Login ID	Email address that the user uses to log in to the FortiGate Cloud New Layout portal. This column also displays the region that each user can access and their role. If multitenancy is activated, this column also displays the subaccounts that the user can access.
Role	Displays the user role. See User roles on page 74 .
User Type	Displays the type of user. User types include the following: <ul style="list-style-type: none"> • IAM: see IAM users on page 65. • FortiGateCloud: see FortiGate Cloud users on page 67. • API: an API user only has the ability to call the FortiGate Cloud New Layout API. FortiCare manages API users and their access permissions. API users are subusers of the primary account. See API access on page 76. • Third Party: user who authenticates using an external identity provider (IdP). Configuring an external IdP requires FortiCare and FortiAuthenticator support.
2-Factor	Enable two-factor authentication for the user. Two-factor authentication is only available for FortiGate Cloud New Layout and IAM users. Enabling two-factor authentication by selecting the checkbox in this column is only available for FortiGate Cloud users. For IAM users, you can enable two-factor authentication by selecting <i>Security Credentials</i> from the top-right dropdown list.
User Name	Name of the user associated with the user account. You may want to edit a username to make it easier to identify who is using that account. You can edit the username by clicking the <i>Edit</i> icon in the <i>Action</i> column.
Status	Status of the user account. The status can be one of the following: <ul style="list-style-type: none"> • Active: user who has activated their account. • Pending: user to whom an activation email has been sent, but has not activated their account yet.

For IAM and IdP users, they can only view their own account and edit their language settings on this page.

Migrating legacy FortiGate Cloud users to IAM users

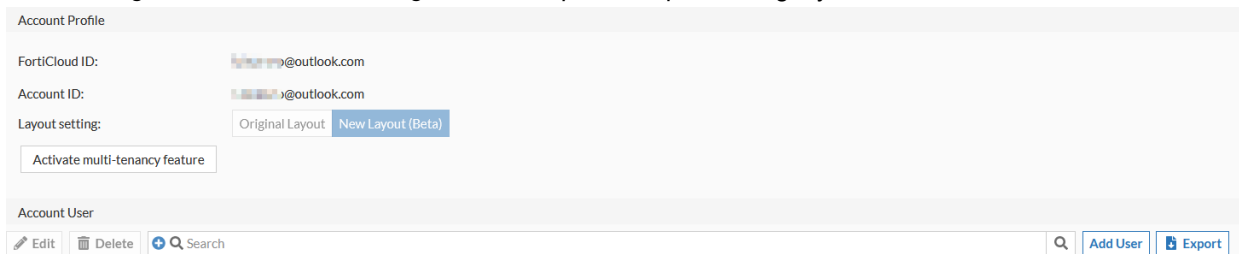
FortiGate Cloud supports the following user management types:

User management type	Description
FortiGate Cloud legacy user model	Allows adding additional users with admin/regular roles with the same access as the primary user or as read-only.
FortiCloud Identity & Access Management (IAM) users	Enhanced permission model using FortiCloud IAM permission profiles and IAM users with new resource-based access controls. FortiCloud IAM supports centrally managed permission profiles and user permissions across all FortiCloud services. These fine-grained access control for FortiGate Cloud provides greater flexibility in managing access to additional users of the FortiCloud account. For information on resources and permissions, see Creating a permission profile .

Migrating legacy FortiGate Cloud users to FortiCloud IAM users is highly recommended.

To migrate legacy FortiGate Cloud users to IAM users:

1. Log in to [FortiGate Cloud](#) with your FortiCloud account.
2. Go to *Configuration > Account Setting* and click *Export* to export the legacy FortiGate Cloud user list.



3. Go to the IAM portal from FortiCloud top bar and go to *Permission Profiles*.
4. Create a permission profile that enables access to the FortiGate Cloud portal and select the desired permissions for FortiGate Cloud. See [IAM users on page 65](#).



The administrator can create any number of profiles with desired permissions combinations.

5. For each user in the exported list, create an IAM user and select the desired permissions profile. See [Adding IAM users](#).
6. Share the generated password link with the designated user to set up a new password.
7. After verifying that the user permissions are as configured, you can delete the legacy user from FortiGate Cloud by

going to *Configuration > Account Setting*, selecting the desired user, then clicking *Delete*.

The screenshot displays the 'Account Profile' and 'Account User' sections. The 'Account Profile' section includes fields for 'FortiCloud ID' and 'Account ID', both showing a masked email address '@outlook.com'. There are two layout options: 'Original Layout' and 'New Layout (Beta)'. Below these is a button labeled 'Activate multi-tenancy feature'. The 'Account User' section features a toolbar with 'Edit', 'Delete', and 'Search' icons. A table lists users with columns for 'Login ID', 'Role', 'User Type', and '2-Factor'. The third user, with a masked email '@fortinet.com', is selected. A 'Confirm' dialog box is overlaid on the table, asking 'Are you sure you want to delete user [masked]@fortinet.com?'. The dialog has 'OK' and 'Cancel' buttons.



Legacy and IAM users can exist simultaneously during this transition.

Audit Log

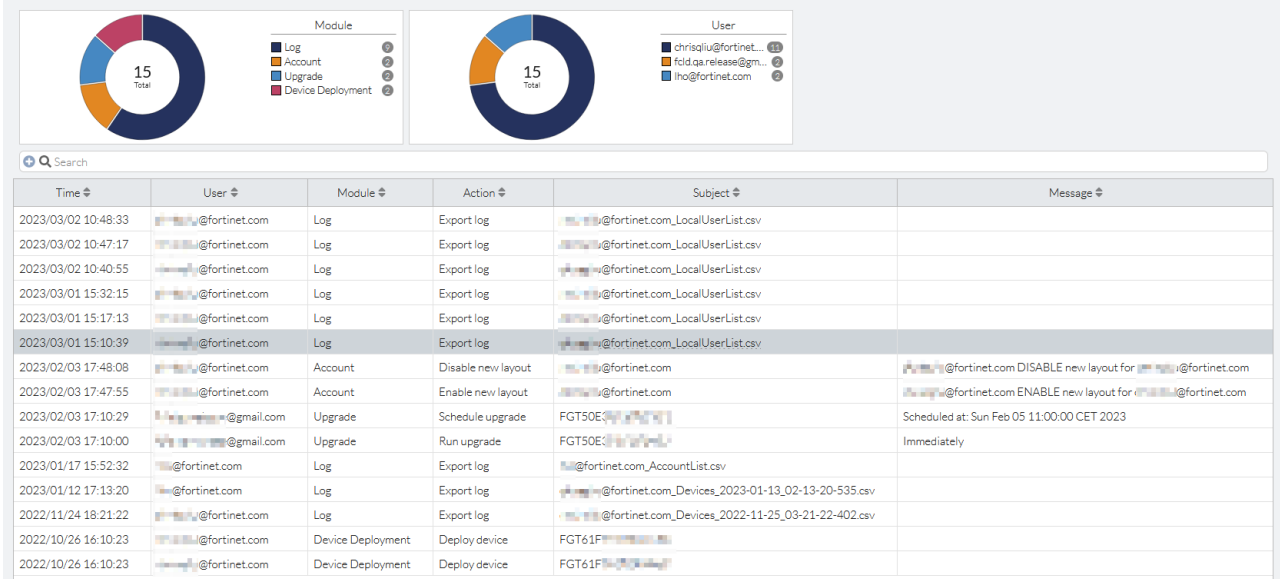
Audit Log displays a log of actions that users performed on the FortiGate Cloud New Layout portal. You can filter the page to only view logs for actions for a certain date range, module, or action type. The log displays information for the following modules:

Module	Actions
Account	<ul style="list-style-type: none">• Adding, deleting, and editing subaccounts, account users, and subaccount users• Moving devices to subaccounts• Setting an account as the primary account
Report	<ul style="list-style-type: none">• Adding, deleting, editing, downloading, scheduling, and running reports• Adding, deleting, and editing report configurations
Log	Downloading and exporting logs
FortiView	Exporting charts
Event Handler	Enabling and disabling event handlers
Summary widget	Adding and deleting summary widgets
Management	Enabling, disabling, and authenticating management on devices
Script	Adding, editing, and deploying scripts
Remote Access	Viewing a device via Remote Access
Config	Importing and merging device configurations
Backup	Downloading, running, restoring, and deleting backups
Device deployment	Undeploying, deleting, adding, bulk adding, and deploying devices to FortiGate Cloud New Layout or FortiManager
Sandbox	Uploading files to Sandbox for analysis

The following information is available for each action. You can configure which columns display:

- Time when the action occurred
- User who completed the action
- Module that the action falls under
- Action type
- Subject that the action was performed on
- Other details as available

Audit Log



Multitenancy

The multitenancy account is designed for managed security service providers. A multitenancy account is a one- or five-year service for an administrator to create and manage multiple subaccounts. It also allows you to move devices between these accounts. You can allocate administrators to each subaccount with full or read-only access, allowing more control over a managed service's provisioning.

To activate multitenancy:

1. Contact your Fortinet partner or reseller, requesting the following SKU: FCLE-10-FCLD0-161-02-DD. They email you a multitenancy activation code.
2. In FortiGate Cloud New Layout, select *Configuration > Account Setting*.
3. Select *Activate multi-tenancy feature*.
4. Enter the activation code, and click *OK*.

To configure basic multitenancy:

1. In *Inventory*, select *Import FortiCloud or FortiDeploy Key* to add multiple FortiGate Cloud licenses at once.



After the device successfully deploys, the device key becomes invalid. You can only use the key once to deploy a device.

2. In *FortiGate Inventory*, select one or multiple devices, and select *Deploy to FortiGate Cloud*. Select the subaccount for the selected devices. You can also select a timezone for the devices.
3. Click *Deploy*. FortiGate Cloud New Layout moves the devices to the *FortiGate Cloud Deployed* subpage.

To assign a device to a subaccount on the homepage:



Assigning a device to a new subaccount keeps the device data in FortiGate Cloud New Layout, including logs, reports, and configuration backup, and moves this data to the new subaccount. To delete this data, you must undeploy your device from FortiGate Cloud New Layout, then assign it to the desired subaccount.

You can assign a device to a different subaccount, including RMA devices.

1. On the *Assets* page, click the *Action* icon beside the desired device, then click *Assign To*.
2. In the *Assign To* dialog, select the desired subaccount, then click *Submit*.
3. In the confirmation dialog, click *YES*.

To manage subaccounts:

1. Go to *Configuration > Account Setting*. You can view all accounts associated with this FortiGate Cloud New Layout. You can see that users have different roles. For role descriptions, see [User roles on page 74](#).
2. Select the desired account, then click *Edit*.

3. In the *Account Setting > Edit User* dialog, for *Manage Sub Account*, select *Selected*. Select the desired subaccounts for this user to manage.

User roles

The multitenancy account includes different user roles. You can view users and their roles by going to *Configuration > Account Setting*. For multitenancy accounts, admins and regular users can select single or multiple subaccounts.

User role	Description
Admin	Can access and manage devices under all subaccounts.
Regular	View-only access to devices under all subaccounts.

IOC

The indicators of compromise (IOC) service alerts administrators about newly found infections and threats to devices in their network. By analyzing unified threat management logging and activity, IOC provides a comprehensive overview of threats to the network.

IOC detects the following threat types, based on the evolving FortiGuard database:

Threat type	Description
Malware	Malicious programs residing on infected endpoints
Potentially unwanted programs	<ul style="list-style-type: none">• Spyware• Adware• Toolbars
Unknown	Threats that the signature detected but are unassociated with any known malware

A subscription grants access to IP address allowlisting, which allows you to narrow your malware search by excluding safe IP addresses and domains, and alert emails to notify you directly of detected network threats. You can also view infected devices' full IP addresses, allowing you to better control their access to your network.

You must enable the IOC column in Network Overview. See [Assets on page 29](#).

To purchase an IOC subscription:

1. Go to [FortiGate Cloud New Layout Indicators of Compromise](#) for purchase options.
2. Complete the purchase process and wait for the key to arrive by email.
3. Log into the [Fortinet Support website](#).
4. On the *Asset* page, register the code as if it is a new product's serial number, and then enter the serial number of the FortiGate Cloud New Layout-connected device that you want the service to monitor. The service automatically takes effect.

To access IOC:

In the FortiGate list, look to the right. A bomb icon is visible. Click the bomb icon.

API access

The following provides instructions on how to access and call the FortiGate Cloud New Layout API. You can find all supported API calls at the [FortiGate Cloud New Layout REST API documentation](#).

FortiOS version 7.0 and later versions return Gzipped binary file responses by default. For CURL, you can add the `-c` `compressed` tag in your query to get the unzipped plain response.

For FortiGate Cloud New Layout API calls, the host address depends on the server environment as follows:

Environment	Host address
Global	api.fortigate.forticloud.com
Europe	euapi.fortigate.forticloud.com
Japan	jpapi.fortigate.forticloud.com

All API calls that this guide includes use the global environment as an example.

To make an API call using a server authentication token:

1. Call the token retrieval API. The following provides an example:

Request:

```
curl -H "Content-Type: application/json" -X POST -d '{
  "accountId": "xxx", "userName": "xxx", "password": "xxxxxxxxx"}'
https://www.forticloud.com/forticloudapi/v1/auth
```

Response:

```
{
  "access_token": "EXAMPLETOKEN", "expires_in": 14400, "message": "successfully
  authenticated", "refresh_token": "syIsrAofcHe67bTFdmhhT5pInnqCXT", "scope": "read
  write", "status": "success", "token_type": "Bearer"}
```

Substitute in your FortiGate Cloud New Layout account credentials and host address.

2. You can query all supported FortiGate Cloud New Layout APIs using the access token that you retrieved from step 1. The following provides an example:

Request:

```
curl -H "Content-Type: application/json" -H "Authorization: Bearer EXAMPLETOKEN" -X GET
https://www.forticloud.com/forticloudapi/v1/devices
```

Response:

```
[{"sn": "", "name": "FortiGate-100D", "timeZone": -
  7.0, "tunnelAlive": true, "contractEndTime": 0, "model": "FortiGate
  100D", "firmwareVersion": "6.2.8", "management": false, "initialized": false, "subAccountO
  id": 793, "ip": "172.16.30.193", "latitude": null, "longitude": null, "total": 8, "trial": fal
  se}, {"sn": "FG60DP4614004455", "name": "FG60DP4614004455-Daniel-FGT", "timeZone": -
  7.0, "tunnelAlive": false, "contractEndTime": 0, "model": "FortiGate", "firmwareVersion": "
  6.0.9", "management": true, "initialized": false, "subAccountOid": -
  1, "ip": "172.16.93.119", "latitude": null, "longitude": null, "total": 8, "trial": true},
  {"sn": "FGT60ETK1809A1GX", "name": "FGT60ETK1809A1GX", "timeZone": -
  8.0, "tunnelAlive": false, "contractEndTime": 0, "model": "FortiGate", "firmwareVersion
  ...
```

To make an API call using an IAM user authentication token:

- If you do not already have one, create an Identity & Access Management (IAM) API user:
 - Log in to the [IAM portal](#) using your FortiGate Cloud New Layout account credentials.
 - Go to *API Users*, then click *ADD API USER*. Click *Next*.
 - Under *Effective Portal Permissions*, select *FortiGate*, then *ADD*. Click *Next*.
 - Click *Edit*. Toggle *Allow Portal Access* to *YES*. Under *Access Type*, select *Admin*. Click *CONFIRM*.
 - Click *DOWNLOAD CREDENTIALS*. Open the downloaded file to view your username and password.
- Retrieve the access token by calling the FortiAuthenticator token retrieval API: `/oauth/token/`. The following provides an example where the FortiAuthenticator IP address is `customerapiauth.fortinet.com`:

Request:

```
curl -H "Content-Type: application/json" -X POST -d
  https://customerapiauth.fortinet.com/api/v1/oauth/token/ '{"username":"AC0F1454-
  3CCD-4523-8B3C-
  4412156CB197","password":"a679bc11d6011e6ea3a7390cef0cd66b!1Aa","client_
  id":"fortigatecloud","grant_type":"password"}'
```

Response:

```
{"access_token": "EXAMPLETOKEN", "expires_in": 14400, "message": "successfully
  authenticated", "refresh_token": "syIsrAofcHe67bTFdmhhT5pInnqCXT", "scope": "read
  write", "status": "success", "token_type": "Bearer"}
```

- You can query all supported FortiGate Cloud New Layout APIs using the access token that you retrieved from step 2. The following provides an example:

Request:

```
curl -H "Content-Type: application/json" -H "Authorization: Bearer EXAMPLETOKEN" -X GET
  https://www.forticloud.com/forticloudapi/v1/devices -k
```

Response:

```
[{"sn":"FG100D3G15803161","name":"FortiGate-100D","timeZone":-
  7.0,"tunnelAlive":true,"contractEndTime":0,"model":"FortiGate
  100D","firmwareVersion":"6.2.8","management":false,"initialized":false,"subAccountO
  id":793,"ip":"172.16.30.193","latitude":null,"longitude":null,"total":8,"trial":fal
  se}, {"sn":"FG60DP4614004455","name":"FG60DP4614004455-Daniel-FGT","timeZone":-
  7.0,"tunnelAlive":false,"contractEndTime":0,"model":"FortiGate","firmwareVersion":
  6.0.9,"management":true,"initialized":false,"subAccountOid":-
  1,"ip":"172.16.93.119","latitude":null,"longitude":null,"total":8,"trial":true},
  {"sn":"FGT60ETK1809A1GX","name":"FGT60ETK1809A1GX","timeZone":-
  8.0,"tunnelAlive":false,"contractEndTime":0,"model":"FortiGate","firmwareVersion
  ...
```

To call FortiOS APIs via FortiGate Cloud New Layout:

- If the management feature is disabled on the desired FortiGate, enable it by calling `devices/{sn}/management`. The following provides an example:

Request:

```
curl -H "Content-Type: application/json" -H "Authorization: Bearer EXAMPLETOKEN" -X PUT
  -d '{"management":true, "username":"xxx", "password":"xxx"}'
  https://www.forticloud.com/forticloudapi/v1/devices/FGT60D461xxxxxxx/management
```

- You can proxy any FortiOS API via FortiGate Cloud New Layout. The format for calling FortiOS APIs from FortiGate Cloud New Layout is as follows:

```
https://www.forticloud.com/forticloudapi/v1/fgt/<SN>/<FortiOS API>
```

The following provides an example request where the FortiGate serial number is `FGT60D461xxxxxxx` and the API being called is `/api/v2/monitor/fortiguard/service-communication-stats`, which retrieves historical statistics for communication with FortiGuard services.

Request:

```
curl -H "Content-Type: application/json" -H "Authorization: Bearer EXAMPLETOKEN"  
https://www.forticloud.com/forticloudapi/v1/fgt/FGT60D461xxxxxxx/api/v2/monitor/forti-  
guard/service-communication-stats
```

For FortiOS API information, see the [FortiOS REST API documentation](#).

Frequently asked questions

What do I do if FortiOS returns an *Invalid Username or Password/FortiCloud Internal Error/HTTP 400* error when activating FortiGate Cloud on the FortiOS GUI?

Do the following:

1. Ensure that you can log into FortiGate Cloud via a web browser using the same username and password that you attempted to activate FortiGate Cloud with on the FortiOS GUI.
2. Confirm that the FortiGate can ping `logctrl1.fortinet.com` or `globallogctrl.fortinet.net`.
3. Connect via Telnet to the resolved IP address from step 2 using port 443.
4. Ensure that the FortiGate Cloud account password length is less than 20 characters.
5. If running FortiOS 5.4 or older versions, ensure that the FortiGate Cloud account password does not include special characters, as these FortiOS versions do not support this.
6. If the FortiGate is a member of a high availability (HA) pair, ensure that you activate FortiGate Cloud on the primary device. Activate FortiGate Cloud on the primary FortiGate as [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI: on page 22](#) describes. FortiGate Cloud activation on the primary FortiGate activates FortiGate Cloud on the secondary FortiGate. Local FortiGate Cloud activation on the secondary FortiGate fails.
7. Enable FortiGate Cloud debug in the CLI. The `get` command displays the device timezone, while the `diagnose debug console timestamp enable` command shows the date timestamp for the debug logs.

```
config system global
  get
end
diagnose debug console timestamp enable
execute fortiguard-log domain
diagnose debug application forticldd -1
diagnose debug enable
execute fortiguard-log login email password
```

Email any debug output to admin@forticloud.com.
8. If you see the HTTP 400 error, enable HTTP debug with the `diagnose debug application httpsd -1` command.

Why can I log into the FortiGate Cloud but not activate the FortiGate Cloud account in FortiOS with the same credentials?

FortiOS 5.4 and older versions do not support passwords with special characters. If you are running FortiOS 5.4 or an older version and attempting to activate a FortiGate Cloud account with a password that includes special characters, the activation fails. You must remove special characters from the password, or upgrade to FortiOS 5.6 or a later version.

How can I move a FortiGate from account A to account B in the same region?

See [To move a FortiGate/FortiWifi deployed to FortiGate Cloud New Layout to another account](#): on page 23.

How can I activate my FortiGate Cloud on HA-paired FortiGates?

Activate FortiGate Cloud on the primary FortiGate as [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI](#): on page 22 describes. FortiGate Cloud activation on the primary FortiGate activates FortiGate Cloud on the secondary FortiGate. Local FortiGate Cloud activation on the secondary FortiGate fails.

You can also disable HA on both devices, activate FortiGate Cloud on each device, then enable HA.

How can I establish a management tunnel connection between my FortiGate and FortiGate Cloud?

```
config system central-management
  set type fortiguard
end
diagnose fdsm contract-controller-update
fnsysctl killall fgfmd
```

What do I do if a FortiGate added by its cloud key stays in an inactive state for more than 24 hours?

1. Check the FortiGate network settings and ensure that port 443 is not blocked.
2. Connect via Telnet to `logctrl1.fortinet.com` or `globallogctrl.fortinet.net` (if FortiOS supports Anycast) through port 443.
3. In the FortiOS GUI, activate FortiGate Cloud as [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI](#): on page 22 describes.

What do I do if the "Device is already in inventory" message appears when importing a FortiGate by key?

This message means that the device has already been added to an account inventory. Another user may have tried to add the device to another account. If you cannot find the device on the Inventory page, contact cs@fortinet.com.

What do I do if the invalid key message appears when importing a FortiGate by key?

The FortiCloud key is for one-time use only. Log into the FortiGate and activate FortiGate Cloud as [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI: on page 22](#) describes instead. If you cannot connect to the FortiOS GUI, contact cs@fortinet.com to reenable the key.

What do I do if FortiGate Cloud activation via the FortiOS GUI succeeds, but I cannot find the FortiGate in the FortiGate Cloud portal?

When a new FortiGate is added to FortiGate Cloud, FortiGate Cloud dispatches it to the global or Europe region based on its IP address geolocation. If the FortiGate warranty region is Japan, FortiGate Cloud dispatches it to the Japan region.

How can I move a FortiGate from region A to region B?

1. Log in to FortiGate Cloud region A.
2. Undeploy the device.
3. Verify that the device has returned to the Inventory page.
4. Switch the portal to region B.
5. Go to Inventory and deploy the device.

How can I connect to FortiGate by remote access?

You must set the FortiOS central management setting to FortiCloud. The management tunnel status must be up. See [How can I establish a management tunnel connection between my FortiGate and FortiGate Cloud? on page 80](#). See [To remotely access a device: on page 34](#).

How can I activate FortiGate Cloud using a different email FortiCare account when FortiOS does not allow entering another email?

```
execute fortiguard-log login <email> <password>
```

What do I do if the migrate notice still appears after successful migration?

The migrate notice appears when FortiOS detects different email addresses used for FortiCare and FortiGate Cloud. FortiOS has a known issue that it is case-sensitive when verifying an email address. For example, FortiOS may consider `example@mail.com` and `Example@mail.com` as different email addresses. Contact cs@fortinet.com to ensure both accounts use all lower-case letters.

What do I do if FortiDeploy does not work?

1. Ensure that the FortiManager settings are correct and the device can connect to FortiManager.
2. Confirm that the central management setting on the device is set to FortiCloud.
3. Ensure that the device can connect to `logctrl1.fortinet.com` via port 443.
4. Import the device to the inventory by FortiCloud key. See [To deploy a FortiGate/FortiWifi to FortiGate Cloud New Layout using the FortiCloud or FortiDeploy key: on page 21](#).
5. Deploy the device to FortiManager, then power up the device. If the device is already powered up, run `execute fortiguard-log join`.
6. If the FortiCloud key has been used and is invalid for reuse, log into the device GUI and activate FortiGate Cloud as [To deploy a FortiGate/FortiWifi to FortiGate Cloud in the FortiOS GUI: on page 22](#) describes.

What do I do if FortiOS does not upload logs?

Gather debug logs for the following commands, then send the debug output to fortigatecloud@forticloud.com. Check log upload settings on the FortiGate and ensure that it is configured to send logs to FortiGate Cloud:

```
execute telnet <log server IP address> 514
diagnose test application forticldd 1
diagnose test application miglogd 6
diagnose debug application miglogd -1
diagnose debug enable
```

What do I do if FortiGate Cloud cannot retrieve logs from FortiOS when data source is set as FortiGate Cloud?

Ensure that you can see logs in the FortiGate Cloud portal.

In poor network conditions, increase the timeout period to avoid connection timeout:

```
config log fortiguard setting
  set conn-timeout 120
end
```

How can I export more than 1000 lines of logs?

See [To download logs](#): on page 51.

How can I receive a daily report by email?

Ensure that FortiGate Cloud generated the scheduled report and that you have added the email address. See [Reports on page 53](#).

Why does FortiGate not submit files for Sandbox scanning?

Check the FortiGate settings:

- For FortiOS 6.2 and later versions:
 - Ensure that FortiGate Cloud has been activated.
 - Go to *Security Profiles > AntiVirus*. Ensure that *Suspicious Files Only* or *All Supported Files* is enabled.
- For FortiOS 6.0 and earlier versions:
 - Go to *System > Feature Visibility*, then enable *FortiSandbox Cloud*.
 - Go to *Security Fabric > Settings*. Enable *Sandbox Inspection*.
 - Go to *Security Profiles > AntiVirus*. Ensure that *Suspicious Files Only* or *All Supported Files* is enabled.
 - Go to *Policy & Objects > IPv4 Policy*. Enable antivirus for the policy in use.

What backup retention does FortiGate Cloud provide?

Backup does not have storage limits. For licensed devices, the retention period is one year. For unlicensed devices, the retention period is seven days.

How does automatic backup work?

Automatic backup is either per session or day. FortiGate setting changes from FortiOS or FortiGate Cloud trigger backup. If there is no changes to FortiGate settings, FortiGate Cloud does not perform a backup. See [To enable auto backup](#): on page 35.

What does it mean if a geolocation attribute configuration change log/alert is received?

This is a feature to sync a FortiGate device's geolocation information between the FortiOS GUI, FortiGate Cloud, and the Asset Management portal. When a new device is being provisioned, or there is a change in a provisioned device's IP address, or a user moves a device to another location on the map view, its new geolocation attributes are pushed to the device via the management tunnel with username as *FortiGateCloud*. Since the geolocation database may not be entirely accurate, it is possible that a device is placed at a wrong location on the map, but you can move the device to its correct location on Map View.

What do I do if FortiGate Cloud does not reflect a new hostname on a FortiGate or FortiGate Cloud overwrites a new FortiGate hostname?

To synchronize the local hostname on a FortiGate and in FortiGate Cloud, compare the times of the FortiGate Cloud portal change and the local hostname modification on the device GUI. Use whichever time is the latest.

- When you change the hostname within the FortiGate Cloud portal, FortiGate Cloud pushes the change to the device via the management tunnel.
- When you change the hostname within the device GUI, the device only sends the new hostname to FortiGate Cloud with its next FCP UpdateMgr request.

To ensure that FortiGate Cloud can immediately reflect hostname changes, you can run the `diagnose fdsm contract-controller-update` command in the CLI after changing the hostname:

Can I revert back from FortiGate Cloud 2.0 after upgrade?

Once the upgrade to FortiGate Cloud 2.0 is complete, you cannot revert back within the FortiGate Cloud portal. If you want to revert your FortiGate Cloud environment, contact the [support team](#) as soon as possible.

Why is my FortiGate deployed to a region other than global (U.S. or Europe)?

There are several possible cases:

- The FortiGate has a physical IP address outside of North America, and thus FortiGate Cloud's dispatcher server deploys the device according to its IP address's geolocation.
- When activating FortiGate Cloud from the web UI, for some FortiOS versions, the user could choose a region to deploy the device. The default region is global, and the user could optionally select Europe or U.S.
- For U.S. government orders, the FortiGate has a US-Government license key burnt in BIOS, and therefore such a device could only be provisioned to the US region of FortiGate Cloud. For a FortiGate VM instance, the default

server location is usa, and therefore, to provision a VM instance to another region other than US, you must first change its server location configuration to 'automatic'.

How do I check if my FortiGate has been preset for a specific server location?

In CLI, browse for `update-server-location` under `system fortiguard` settings. For a device with a USG license key, `update-server-location` does not apply, so you can use the `get system status` to check for `License Status: US-Government(USG)`.

Can I change the server location configuration?

Yes, for non-USG FortiGates, run the following commands in CLI to change this configuration:

```
config system fortiguard
  set update-server-location <usa>|<automatic/any>|<eu>
end
```

If my FortiGate's server location is automatic/any, how do I deploy it to my preferred region?

You may choose the preferred region from the web UI FortiGate Cloud activation page, or run the following commands in the CLI: `exe fortiguard-log login <email> <password> <GLOBAL|EUROPE|US>`.

Can I migrate logs uploaded or reports generated to a different region?

No, you cannot migrate existing data cannot to another region. FortiGate Cloud only uploads new data to the new region from the time that you updated the region settings.

How do I choose my region for the FortiGate Cloud (Premium) portal?

FortiGate Cloud (Premium)'s region is the region from which the upgrade is initiated. Once upgraded, you cannot simultaneously use other regions in the FortiGate Cloud (Premium) portal. Using a different account or enabling multitenancy is recommended for multiregion scenarios.

How do I change my region in the FortiGate Cloud (Premium) portal?

Migrating to another region for the same account is not permitted as the data cannot be allowed to move across the regions. Instead, creating a new account and reprovisioning the devices to the new account is recommended.



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