

QuickStart Guide

FortiClient EMS 7.2.5



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FortiClient EMS 7.2.5 QuickStart Guide

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Introduction

This guide describes how to install and set up FortiClient Endpoint Management Server (EMS) for the first time. You can use FortiClient EMS to deploy and manage FortiClient endpoints. This guide also describes how to set up the Google Admin console to use the FortiClient Web Filter extension. Together the products also provide web filtering for Google Chromebook users.



An informative video introducing you to FortiClient EMS is available in the [Fortinet Video Library](#).

Supported installation platforms

You can install FortiClient EMS on Microsoft Windows Server 2019 or newer.



For information about minimum system requirements and supported platforms, see [Product integration and support](#).

Requirements for managing Chromebooks

Using FortiClient EMS for managing Chromebooks requires the following components and knowledge:

- FortiClient EMS installer
- FortiClient Web Filter extension available in the Google Web Store for Chrome OS
- Google Workspace account
- Knowledge of administering the Google Admin console
- Domain configured in the Google Admin console
- SSL certificates to support communication between FortiClient Web Filter extension and the following products:
 - FortiClient EMS
 - FortiAnalyzer for logging, if using
- Unique set of service account credentials

Required services and ports

You must ensure that you enable required ports and services for use by FortiClient EMS and its associated applications on your server. The required ports and services enable FortiClient EMS to communicate with endpoints and servers

running associated applications. You do not need to enable ports 8013 and 10443 as the FortiClient EMS installation opens these.

Communication	Usage	Protocol	Port	Incoming/Outgoing	How to customize
FortiClient Telemetry	FortiClient endpoint management	TCP	8013 (default)	Incoming	Installer/GUI
Active Directory server connection	Retrieving workstation and user information	TCP	389 (LDAP) or 636 (LDAPS)	Outgoing	GUI
FortiClient download	Downloading FortiClient deployment packages that FortiClient EMS created	TCP	10443 (default)	Incoming	Installer
Web Filter custom page download	Downloading custom Web Filter pages that the administrator created in EMS.	TCP	10443 (default)	Incoming	N/A
Antivirus (AV) allowlist signature download	Downloading AV allowlist signatures.	TCP	10443 (default)	Incoming	N/A
Apache/HTTPS	Web access to FortiClient EMS. Also required for the ACME feature.	TCP	443	Incoming	Installer
SMTP server/email	Alerts for FortiClient EMS and endpoint events. When an alert is triggered, EMS sends an email notification.	TCP	25 (default)	Outgoing	GUI
FortiClient endpoint probing	FortiClient EMS uses ICMP for endpoint probing during FortiClient initial deployment.	ICMP	N/A	Outgoing	N/A
Communication with FortiOS	EMS is the server that opens up the port for FortiOS to connect to as a client.	TCP	8015	Incoming	N/A

Communication	Usage	Protocol	Port	Incoming/Outgoing	How to customize
ACME	EMS can use certificates that are managed by Let's Encrypt and other certificate management services that use the ACME protocol. This feature also requires port 443. See Adding an SSL certificate to FortiClient EMS .	TCP	80	Incoming	N/A
License synchronization	FortiCare login (support.fortinet.com) to synchronize licenses	TCP	443	Outgoing	N/A
FortiCloud	FortiCloud services (forticlient.forticloud.com)	TCP	443	Outgoing	N/A
SCEP service	Installing zero trust network access certificate	TCP	40001, 40002	Incoming	N/A

The following ports and services only apply when using FortiClient EMS to manage Chromebooks:

Communication	Usage	Protocol	Port	Incoming/Outgoing	How to customize
FortiClient on Chrome OS	Connecting to FortiClient EMS	TCP	8443 (default) You can customize this port.	Incoming	GUI
Google Workspace API/Google domain directory	Retrieving Google domain information using API calls	TCP	443	Outgoing	N/A

You should enable the following ports and services for use on Chromebooks when using FortiClient for Chromebooks:

Communication	Usage	Protocol	Port	Incoming/Outgoing	How to customize
FortiClient EMS	Connecting to the profile server	TCP	8443 (default)	Outgoing	Via Google Admin console when adding the profile
FortiGuard	Rating URLs	TCP	443, 3400	Outgoing	N/A

FortiClient EMS connects to FortiGuard to download AV and vulnerability scan engine and signature updates and FortiClient and EMS installer downloads. FortiClient EMS can connect to legacy FortiGuard or FortiGuard Anycast. The following table summarizes required services for FortiClient EMS to communicate with FortiGuard:

Usage	Server URL			Proto col	Por t	Incoming/Out going	How to custom ize
	Global	U.S.	Europe				
AV/vulnerability signature update and FortiClient installer downloads	forticlient.fortinet.net myforticlient.fortinet.net	usforticlient.fortinet.net	N/A	TCP	80	Outgoing	N/A
AV/vulnerability signature updates with FortiGuard Anycast and FortiClient installer package download	fctupdate.fortinet.net	fctusupdate.fortinet.net	fcteuupdate.fortinet.net	TCP	443	Outgoing	N/A

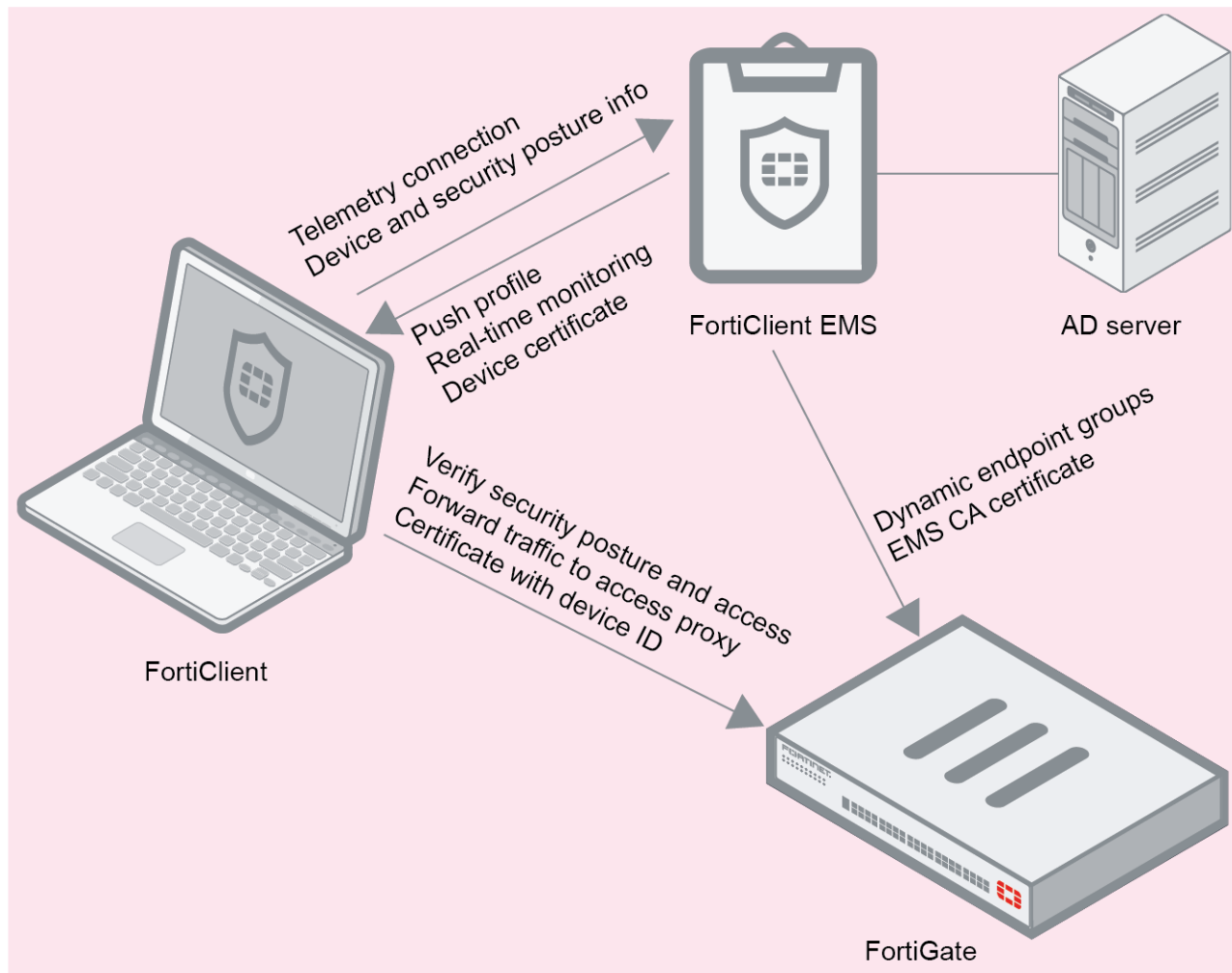


For the list of required services and ports for FortiClient, see the [FortiClient Administration Guide](#).

Deployment options

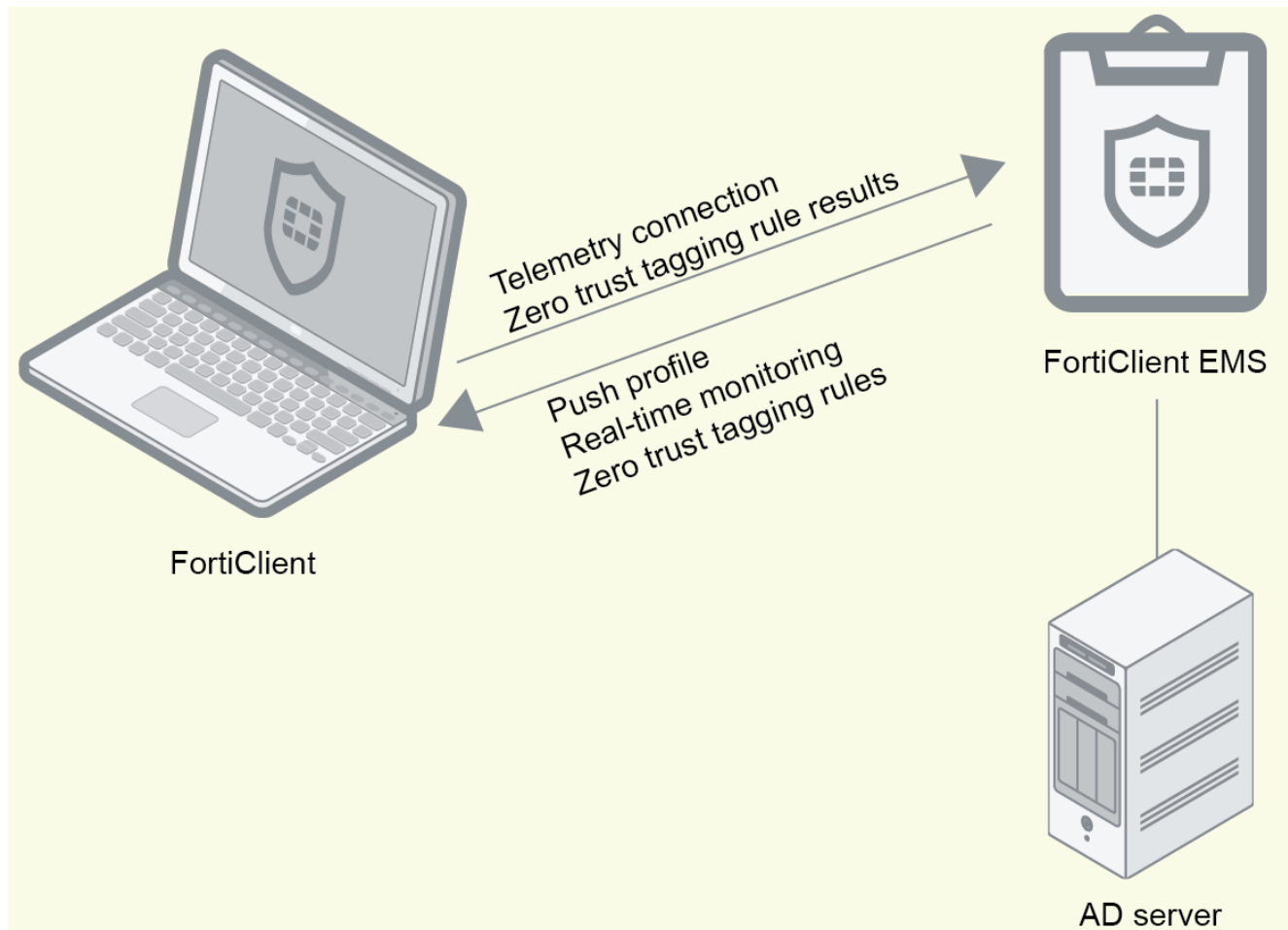
FortiClient EMS supports the following deployment scenarios: participating in the Fortinet Security Fabric or standalone.

Security Fabric



This deployment requires a FortiGate and supports NAC. In this scenario, FortiClient Telemetry connects to EMS to receive a profile of configuration information as part of an endpoint policy. EMS connects to FortiGate to participate in the Security Fabric and allow endpoints to participate in the Fabric. The FortiGate can also receive dynamic endpoint group lists from EMS and use them to build dynamic firewall policies. Depending on the EMS Zero Trust tagging rules and policies configured in FortiOS, the FortiClient endpoint may be blocked from accessing the network.

Standalone



Standalone mode does not require a FortiGate. In standalone mode, EMS deploys FortiClient on endpoints, and endpoints connect Telemetry to EMS to receive configuration information from EMS. EMS also sends Zero Trust tagging rules to FortiClient, and uses the results from FortiClient to dynamically group endpoints in EMS. You use EMS to deploy, configure, and monitor FortiClient endpoints.

Chromebook setup

The following sections only apply if you plan to use FortiClient EMS to manage Chromebooks:

Install preparation for managing Chromebooks

Google Workspace account

You must sign up for your Google Workspace (formerly G Suite) account before you can use the Google service and manage your Chromebook users.

The Google Workspace account is different from the free consumer account. The Google Workspace account is a paid account that gives access to a range of Google tools, services, and technology.

You can sign up for a Google Workspace account [here](#).

In the signup process, you must use your email address to verify your Google domain. This also proves you have ownership of the domain.

SSL certificates

FortiClient EMS requires an SSL certificate signed by a Certificate Authority (CA) in pfx format. Use your CA to generate a certificate file in pfx format, and remember the configured password. For example, the certificate file name is *server.pfx* with password 111111.

The server where you installed FortiClient EMS should have an FQDN, such as *ems.forticlient.com*, and you must specify the FQDN in your SSL certificate.

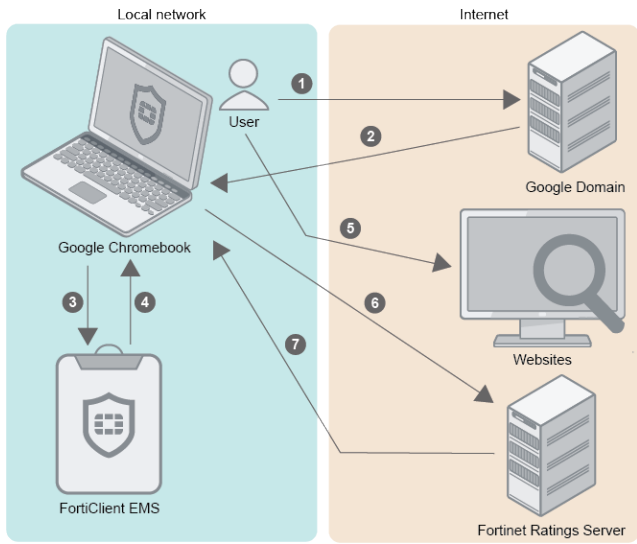
If you are using a public SSL certificate, the FQDN can be included in *Common Name* or *Subject Alternative Name*. You must add the SSL certificate to FortiClient EMS. See [Adding an SSL certificate to FortiClient EMS](#). You do not need to add the root certificate to the Google Admin console.

If you are using a self-signed certificate (non-public SSL certificate), your certificate's *Subject Alternative Name* must include `DNS:<FQDN>`, for example, `DNS:ems.forticlient.com`. You must add the SSL certificate to FortiClient EMS and the root certificate to the Google Admin console to allow the extension to trust FortiClient EMS. See [Adding root certificates on page 39](#).

How FortiClient EMS and FortiClient work with Chromebooks

After you install and configure FortiClient EMS, the Google Admin console, and the FortiClient Web Filter extension, the products work together to provide web filtering security for Google Chromebook users logged into the Google domain. Following is a summary of how the products work together after setup is complete:

1. A user logs into the Google Chromebook.
2. The Google Chromebook downloads the FortiClient Web Filter extension.
3. FortiClient connects to FortiClient EMS.
4. FortiClient downloads a profile to the Google Chromebook. The profile contains web filtering settings from FortiClient EMS.
5. The user browses the Internet on the Google Chromebook.
6. FortiClient sends the URL query to the Fortinet Ratings Server.
7. The Fortinet Ratings Server returns the category result to FortiClient. FortiClient compares the category result with the profile to determine whether to allow the Google Chromebook user to access the URL.



Installation

FortiClient EMS is necessary to install on endpoints. For a complete endpoint solution, use FortiClient EMS for central management and provisioning of endpoints.

Following is a summary of how to install and start FortiClient EMS:

1. Download the installation file. See [Downloading the installation file on page 13](#).
2. Install FortiClient EMS. See [Installing FortiClient EMS on page 13](#).
3. Start FortiClient EMS and log in. See [Starting FortiClient EMS and logging in on page 19](#).

For information about upgrading FortiClient EMS, see the [FortiClient EMS Release Notes](#).



A video on how to install, log in, and change your administrator password is available in the [Fortinet Video Library](#).

Downloading the installation file

FortiClient EMS is available for download from the [Fortinet Support website](#).

You can also receive the installation file from a sales representative.

The following installation file is available for FortiClient EMS:

`FortiClientEndpointManagement_7.2.5.<build>_x64.exe`

For information about obtaining FortiClient EMS, contact your Fortinet reseller.

Installing FortiClient EMS

The FortiClient EMS installation package includes:

- FortiClient EMS
- Microsoft SQL Server 2017 Express Edition
- Apache HTTP server



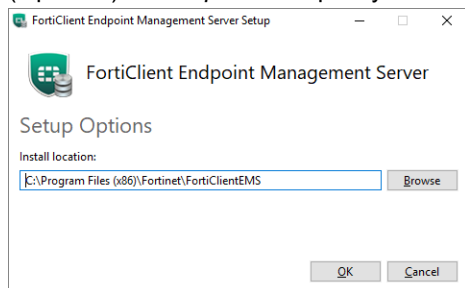
Installing FortiClient EMS requires local administrator rights. Internet access is recommended, but optional, during installation. SQL Server may require some dependencies to be downloaded over the Internet. EMS also tries to download information about FortiClient signature updates from FortiGuard.

To install EMS:

1. Do one of the following:
 - a. If you are logged into the system as an administrator, double-click the downloaded installation file.
 - b. If you are not logged in as an administrator, right-click the installation file, and select *Run as administrator*.
2. If applicable, select *Yes* in the *User Account Control* window to allow the program to make changes to your system.
3. In the installation window, select *I agree to the license terms and conditions* if you agree with the license terms and conditions. If you do not agree, you cannot install the software.

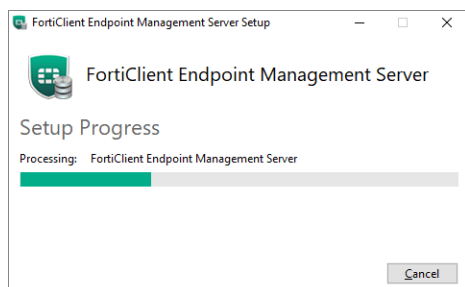


4. (Optional) Click *Options* to specify a custom directory for the FortiClient EMS installation.

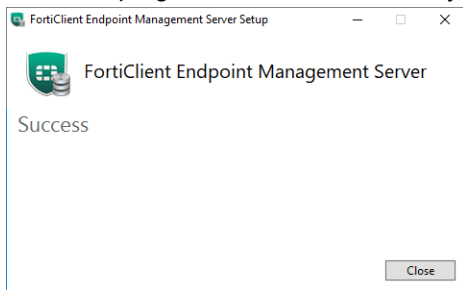


- a. Click *Browse* to locate and select the custom directory.
 - b. Click *OK* to return to the installation wizard.
5. Click *Install*.

The installation may take 30 minutes or longer. It may appear to stop at times, but this is only because certain steps in the installation process take longer than others.



6. When the program has installed correctly, the *Success* window displays. Click *Close*.



A *FortiClient Endpoint Management Server* icon is added to the desktop.

Licensing EMS by logging in to FortiCloud

You must license FortiClient EMS to use it for endpoint management and provisioning.

Applying a trial license to FortiClient EMS

To apply a trial license to FortiClient EMS:

The following steps assume that you have already acquired an EMS installation file from FortiCloud or a Fortinet sales representative for evaluation purposes and installed EMS.

1. In EMS, in the *License Information* widget, click *Add* beside *FortiCloud Account*.
2. In the *FortiCloud Registration* dialog, enter your FortiCloud account credentials. If you do not have a FortiCloud account, create one.
3. Read and accept the license agreement terms.
4. Click *Login & Sync License Now*. If your FortiCloud account is eligible for an EMS trial license, the *License Information* widget updates with the trial license information, and you can now manage three Windows, macOS, Linux, iOS, and Android endpoints indefinitely.

Applying paid licenses to FortiClient EMS

To apply a paid license to FortiClient EMS:

The following steps assume that you have already purchased and acquired your EMS and FortiClient licenses from a Fortinet reseller.

1. Log in to your FortiCloud account on [Customer Service & Support](#).
2. Go to *Asset Management*.
3. Click *Register More*.
4. In the *Registration Code* field, enter the *Contract Registration Code* from your service registration document. Configure other fields as required, then click *Next*.



PLEASE REMEMBER TO REGISTER YOUR CONTRACT REGISTRATION CODE

Service Entitlement Summary

Date : April 22, 2020
 Purchase Order Number : ITP001
 Contract Registration Code : 3922UJ

5. Do one of the following:

- a. If this is the first license that you are applying to this EMS server, do the following:
 - i. Click *Register*.
 - ii. In the *Hardware ID* field, enter the hardware ID found in *Dashboard > Status > License Information widget > Config License* in EMS. If you register the license prior to installing EMS, you must enter the hardware ID after installation. Configure other fields as required, then click *Next*.
 - iii. Complete the registration, then click *Confirm*.
 - iv. In EMS, go to *Dashboard > Status > License Information widget > Config License*.
 - v. For *License Source*, select *FortiCare*.
 - vi. In the *FortiCloud Account* field, enter your FortiCloud account ID or email address.
 - vii. In the *Password* field, enter your FortiCloud account password.
 - viii. Click *Login & Update License*. Once your account information is authenticated, EMS updates the *Configure License* page with the serial number and license information that it retrieved from FortiCloud.
- b. As the [FortiClient EMS Administration Guide](#) describes, you can apply multiple license types to the same EMS server. For example, if you have already applied an EPP license to your EMS server, you can apply another license type, such as a ZTNA license, to the same EMS server. If desired, add another license type:
 - i. On the *Registration Confirmation* page, when applying an additional license type, you must select *Renew* on the contract registration screen, regardless of the license types of the first and subsequent licenses. Selecting *Renew* combines the new license with any existing licenses for the EMS server and allows you to add the new license type to EMS while retaining previously applied license(s).



When applying an additional license type to EMS, selecting *Register* instead of *Renew* creates an additional license file instead of combining the new license with the existing license(s). You cannot apply the new and existing licenses to the same EMS server.

- ii. In the *Serial Number* field, enter the EMS serial number or select the EMS instance from the list. You can find the serial number in *Dashboard > Status > License Information widget > Configure License* in EMS. Click *Next*.
- iii. Complete the registration, then click *Confirm*.

EMS reports the following information to FortiCare. FortiCloud displays this information in its dashboard and asset management pages:

- EMS software version
- Number of FortiClient endpoints currently actively licensed under and being managed by this EMS
- Endpoint license expiry statuses. You can use this information to plan license renewals.



Using a second license to extend the license expiry date does not increase the number of licensed clients. To increase the number of licensed clients, contact [Fortinet Support](#) for a co-term contract.



If you previously activated another license with the same EMS hardware ID, you receive a duplicated UUID error. In this case, contact [Customer Support](#) to remove the hardware ID from the old license.

To apply multiple paid licenses to FortiClient EMS:

You may want to apply multiple paid licenses of the same type to at the same time. For example, if you want EMS to manage 525 ZTNA endpoints, you can purchase two ZTNA licenses: one for 500 endpoints, and another for 25 endpoints. In this scenario, you need to register the licenses at the same time.

The following steps assume that you have already purchased and acquired your EMS and FortiClient licenses from a Fortinet reseller.

1. Log in to your FortiCloud account on [Customer Service & Support](#).
2. Go to *Register Product*.
3. In the *Registration Code* field, enter the *Contract Registration Codes* from your service registration documents. Separate the codes with a comma. For example, to register the 3922U and 1057U codes in the following screenshots, you would enter 3922U,1057U in the *Registration Code* field. Configure other fields as required, then click *Next*.



PLEASE REMEMBER TO REGISTER YOUR CONTRACT REGISTRATION CODE

Service Entitlement Summary

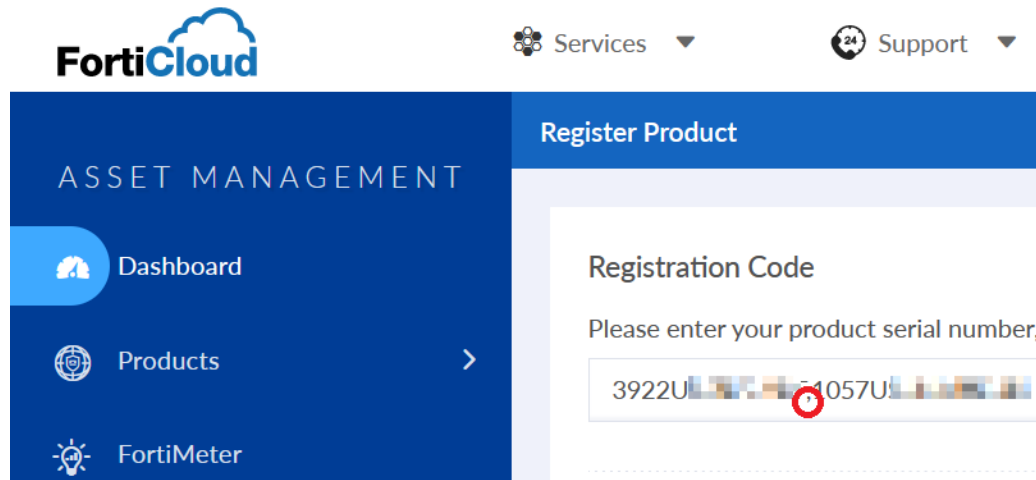
Date : April 22, 2020
 Purchase Order Number : ITF001
 Contract Registration Code : 3922U



PLEASE REMEMBER TO REGISTER YOUR CONTRACT REGISTRATION CODE

Service Entitlement Summary

Date : April 22, 2020
 Purchase Order Number : ITF001
 Contract Registration Code : 1057U



4. Do one of the following:
 - a. If these are the first licenses that you are applying to this EMS server, do the following:
 - i. Click *Register*.
 - ii. In the *Hardware ID* field, enter the hardware ID found in *Dashboard > Status > License Information widget > Configure License* in EMS. If you register the licenses prior to installing EMS, you must enter the hardware ID after installation. Configure other fields as required, then click *Next*.
 - iii. Complete the registration, then click *Confirm*.
 - iv. In EMS, go to *Dashboard > Status > License Information widget > Configure License*.
 - v. For *License Source*, select *FortiCare*.
 - vi. In the *FortiCloud Account* field, enter your FortiCloud account ID or email address.
 - vii. In the *Password* field, enter your FortiCloud account password.
 - viii. Click *Login & Update License*. Once your account information is authenticated, EMS updates the *Configure License* page with the serial number and license information that it retrieved from FortiCloud.
 - b. As described in the [FortiClient EMS Administration Guide](#), you can apply multiple license types to the same EMS server. For example, if you have already applied an EPP license to your EMS server, you can apply other license types, such as a ZTNA license, to the same EMS server. If desired, add another license type:
 - i. On the *Registration Confirmation* page, when applying an additional license type, you must select *Renew* on the contract registration screen, regardless of the license types of the first and subsequent licenses. Selecting *Renew* combines the new licenses with any existing licenses for the EMS server and allows you to add the new license types to EMS while retaining previously applied license(s).



When applying an additional license types to EMS, selecting *Register* instead of *Renew* creates an additional license file instead of combining the new licenses with the existing license(s). You cannot apply the new and existing licenses to the same EMS server.

- ii. In the *Serial Number* field, enter the EMS serial number or select the EMS instance from the list. You can find the serial number in *Dashboard > Status > License Information widget > Configure License* in EMS. Click *Next*.
- iii. Complete the registration, then click *Confirm*.

EMS reports the following information to FortiCare. FortiCloud displays this information in its dashboard and asset management pages:

- EMS software version
- Number of FortiClient endpoints currently actively licensed under and being managed by this EMS
- Endpoint license expiry statuses. You can use this information to plan license renewals.



Using a second license to extend the license expiry date does not increase the number of licensed clients. To increase the number of licensed clients, contact [Fortinet Support](#) for a co-term contract.



If you previously activated another license with the same EMS hardware ID, you receive a duplicated UUID error. In this case, contact [Customer Support](#) to remove the hardware ID from the old license.

Starting FortiClient EMS and logging in

FortiClient EMS runs as a service on Windows computers.

The post-installation setup wizard facilitates the rapid setup of EMS for users immediately following installation, prioritizing license provisioning. You must have a license to proceed and use EMS.

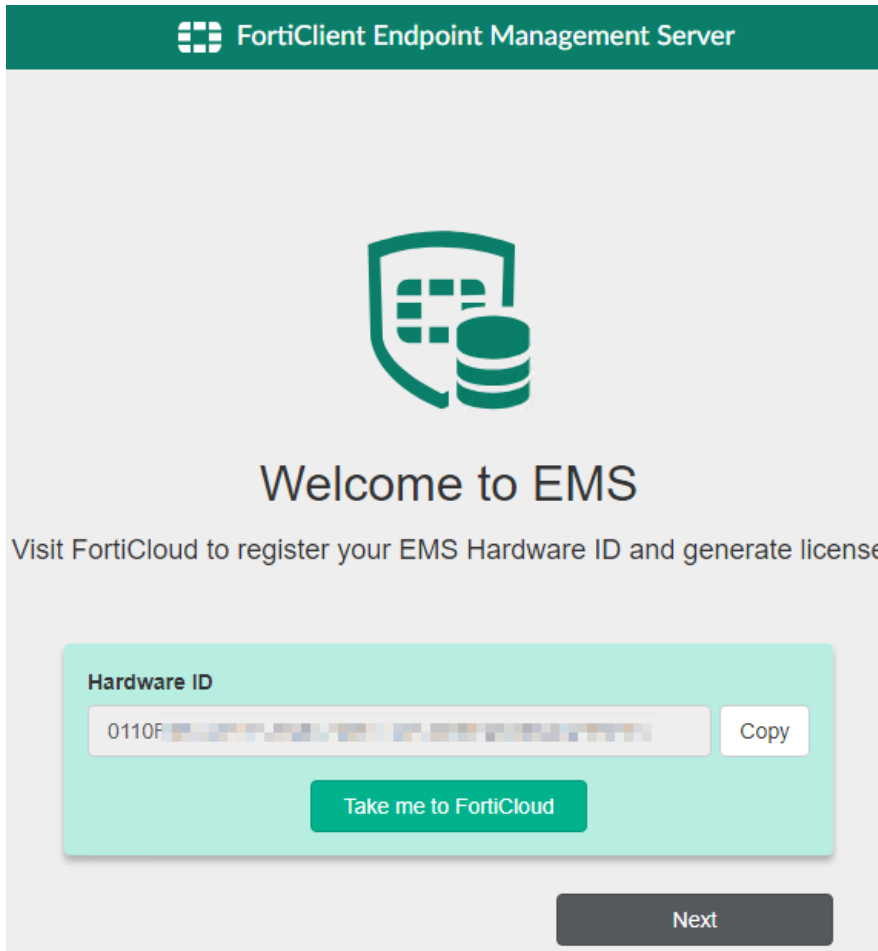
EMS requires you to authenticate via FortiCloud for license entitlement immediately after installation. You must log in to EMS, validate your FortiCloud account, and EMS must retrieve the license for you to proceed further. Access to EMS is contingent on the validation and connection of your FortiCloud account information.

In air-gapped instances, EMS allows you to upload a license file. However, this only applies in rare cases. In the majority of deployments, you must provide FortiCloud account information and EMS retrieves the license directly from FortiCloud.

The post-installation setup wizard streamlines the EMS post-installation setup process.

To license EMS using the post-installation setup wizard:

1. After installing EMS, launch it for the first time. EMS displays a *Welcome to EMS* page that displays the hardware ID of the machine that EMS is installed on. Registering and licensing EMS requires the hardware ID. Click *Take me to FortiCloud*. This opens the FortiCloud website, where you can register and license your EMS instance. See [Licensing EMS by logging in to FortiCloud on page 15](#).



2. Click *Next*. Do one of the following:
 - Enter your FortiCloud credentials associated with your EMS registration to establish connectivity and synchronize the license from FortiCloud.
 - Enable *Activate license through FortiFlex* to activate the license through FortiFlex.
 - If you are using an air-gapped system, click *Click here*. Browse to and upload the license file.

The screenshot shows the 'Sync license with FortiCloud' interface. At the top, there is a green header with the FortiClient logo and the text 'FortiClient Endpoint Management Server'. Below the header, the main heading is 'Sync license with FortiCloud'. The FortiCloud logo is prominently displayed in the center. The form contains several input fields and options:

- A text input field for 'FortiCloud account' with a user icon on the left.
- A text input field for 'Required' with a lock icon on the left.
- Links for 'Forgot password?' and 'Don't have an account? Sign up now >>'.
- A radio button for 'Use trial license' (unselected).
- A radio button for 'Activate license through FortiFlex' (selected).
- Text: 'The FortiFlex token is only needed on initial activation. Learn more about FortiFlex licensing [here](#)'.
- A text input field for 'FortiFlex Token' with 'Required' inside.
- A link: 'Is this an airgapped system? [Click here](#)'.
- Two buttons at the bottom: 'Back' (grey) and 'Sync' (green).

3. EMS undergoes registration and displays a new page where you can configure new administrative credentials. Enter the desired credentials, then click *Save & Continue*. EMS loads the main GUI and you can proceed with configuration as desired.

Configuring EMS after installation

You can configure a fully qualified domain name (FQDN) for EMS.

FortiClient's connection to EMS is critical to managing endpoint security. Managing this is relatively easy for internal devices. For external devices or devices that may leave the internal network, you must consider how to maintain this connection. FortiClient can connect to EMS using an IP address or FQDN. An FQDN is preferable for the following reasons:

- Easy to migrate EMS to a different IP address
- Easy to migrate to a different EMS instance
- Flexible to dynamically resolve the FQDN

The third reason is particularly valuable for environments where devices may be internal or external from day to day. When using an FQDN, you can configure your internal DNS servers to resolve the FQDN to the EMS internal IP address and register your external IP address with public DNS servers. You must then configure the device with your external IP address to forward communication received on port 8013 to your EMS internal IP address. This allows your external clients to leverage a virtual IP address on the FortiGate so that they can reach EMS, while allowing internal clients to use the same FQDN to reach EMS directly.

Alternatively, you can use a private IP address for the connection. This configuration requires external clients to establish a VPN connection to reach the EMS (VPN policies permitting). This configuration can be problematic if all endpoints need an urgent update but some are disconnected from VPN at that time.

You can also configure FortiClient EMS so that you can access it remotely using a web browser instead of the GUI.

To enable remote access to FortiClient EMS:

1. Go to *System Settings > EMS Settings*.
2. Enable *Use FQDN*. In the *FQDN* field, enter the desired FQDN.
3. If desired, in the *Custom hostname* field, enter the hostname or IP address. Otherwise, EMS uses the *Pre-defined hostname*.
4. If desired, select the *Redirect HTTP request to HTTPS* checkbox. If this option is enabled, if you attempt to remotely access EMS at *http://<server_name>*, this automatically redirects to *https://<server_name>*.
5. Click *Save*.

To remotely access FortiClient EMS:

- To access EMS from the EMS server, visit `https://localhost`
- To access the server remotely, use the server's hostname: `https://<server_name>`
Ensure you can ping `<server_name>` remotely. You can achieve this by adding it into a DNS entry or to the Windows hosts file. You may need to modify the Windows firewall rules to allow the connection.

Windows, macOS, and Linux endpoint management setup

This section describes how to set up FortiClient EMS for Windows, macOS, and Linux endpoint management. It provides an overview of using FortiClient EMS and FortiClient EMS integrated with FortiGate.

Following is a summary of how to use FortiClient EMS:

1. Configure user accounts. See [Configuring user accounts on page 23](#).
2. Create an endpoint profile. See [Creating a new profile on page 24](#).
3. Add a FortiClient deployment package to EMS and configure it with the profile that you created in step 3. See [Adding a FortiClient deployment package on page 25](#).
4. Deploy the FortiClient deployment package. See [Deploying the FortiClient deployment package to endpoints on page 27](#).
Depending on the selected profile's configuration, FortiClient is installed on the endpoints to which the profile is applied.
After FortiClient installation, the endpoint connects FortiClient Telemetry to FortiClient EMS to receive the profile configuration and complete endpoint management setup.
5. View the endpoint status. See [Viewing endpoints on page 28](#).

Configuring user accounts

You can configure Windows and LDAP users to have no access or administrator access to FortiClient EMS. You can also create a new user account in EMS.

EMS derives the Windows users from the host server that it is installed on. If you want to add more Windows users, you must add them to the host server. EMS derives the list of LDAP users from those in the Active Directory (AD) domain imported into FortiClient EMS. If you want to add more LDAP users, they must already exist in the AD domain configured as the user server.

To configure Windows and LDAP user accounts:

1. Go to *Administration > Admin Users*.
2. Click the *Add* button.
3. Under *User source*, select *Choose from Windows users* or *Choose from LDAP*.
4. If you selected *Choose from LDAP*, select the desired server from the *Authentication Server* dropdown list. You must have already configured an authentication server.
5. Click *Next*.

6. Configure the user:

Option	Description
Username	(New user account only) enter the desired username.
User	(Windows/LDAP only) Select the user to configure permissions for.
Role	Select the desired admin role for this user.
Domain Access	Select or add access to a domain for the user. If desired, enable <i>Allow all domains</i> to allow this user access to all domains connected to EMS.
Restrict Login to Trusted Hosts	When this option is enabled, users can only log into this account from a trusted host machine. In the <i>Trusted Hosts</i> field, enter a trusted host machine's IP address. Use the + button to add multiple trusted host machines.
Comment	Enter optional comments/information for the Windows/LDAP user.

7. Click *Save*.

When an admin user from an AD domain logs into EMS, they must provide the domain name as part of their username to log in successfully. For example, if the domain name is "example-domain" and the username is "admin", the user must enter "example-domain/admin" when logging into EMS.

Creating a new profile

This section describes how to create a profile. You can use this profile to configure FortiClient software on endpoints by including it in an endpoint policy and deploying the policy to endpoints.

To create a profile to configure FortiClient:

1. Go to *Endpoint Profiles*.
2. Select the desired profile type.
3. Click the *Add* button.
4. Do one of the following:
 - a. To create a Windows, macOS, and Linux profile, click *Add Profile*.
 - b. To create a Chromebook profile, click *Add Chrome Profile*.
5. Configure the settings as desired.
6. Click *Save* to save the profile.

Adding a FortiClient deployment package



After you add a FortiClient deployment package to FortiClient EMS, you cannot edit it. You can delete the deployment package from FortiClient EMS, and edit the deployment package outside of FortiClient EMS. You can then add the edited deployment package to FortiClient EMS.

To add a deployment package:

1. Go to *Deployment & Installers > FortiClient Installer*.
2. Click *Add*.
3. On the *Version* tab, set the following options:

Installer Type	Use an official or custom FortiClient installer. x86 (32-bit) Windows installers are only available in EMS for backward compatibility with FortiClient 7.0. Using x86 (32-bit) installers for installation is not recommended. When using a custom FortiClient installer, you can select from a list of previously uploaded installers, or upload a new custom installer. You can also remove previously created installers. To upload a new custom FortiClient installer, enter the desired name, then upload 64-bit Windows and/or macOS custom installers. You can download FortiClient installers to use with FortiClient EMS from Fortinet Customer Service & Support . This requires a support account with a valid support contract. You can also download installers from FortiClient.com . Download the Windows or macOS installation file. The installation files on the Fortinet Customer Service & Support and FortiClient.com websites are not available in .msi or .zip format. You must package the installer as an .msi or .zip file to upload it.
Release	Select the FortiClient release version to install.
Patch	Select the specific FortiClient patch version to install.
Keep updated to the latest patch	Enable EMS to repackage EMS-created FortiClient deployment package to the latest patch release.

4. Click *Next*. On the *General* tab, set the following options:

Name	Enter the FortiClient deployment package name.
Notes	(Optional) Enter notes about the FortiClient deployment package.

5. Click *Next*. On the *Features* tab, set the following options:



Available options may differ depending on the features you have enabled or disabled in *Feature Select*. See [Feature Select](#).

Zero Trust Telemetry	Enabled by default and cannot be disabled. Installs FortiClient with Telemetry enabled.
Secure Access Architecture Components	Install FortiClient with SSL and IPsec VPN enabled. Disable to omit SSL and IPsec VPN support from the FortiClient deployment package. If you enable this feature for a deployment package and include a preconfigured VPN tunnel in the included endpoint profile, users who use this deployment package to install FortiClient can connect to this preconfigured VPN tunnel for three days after their initial FortiClient installation. This is useful for remote users, as it allows them to connect to the corporate network to activate their FortiClient license. If the user does not activate their FortiClient license within the three days, all FortiClient features, including VPN, stop working on their device.
Vulnerability Scan	Enabled by default and cannot be disabled. Installs FortiClient with Vulnerability Scan enabled.
Advanced Persistent Threat (APT) Components	Install FortiClient with APT components enabled. Disable to omit APT components from the FortiClient deployment package. Includes FortiSandbox detection and quarantine features.
Additional Security Features	Enable any of the following features: <ul style="list-style-type: none"> • Malware <ul style="list-style-type: none"> • AntiVirus, Anti-Exploit, Removable Media Access • Anti-Ransomware • Cloud Based Malware Outbreak Detection • Web Filtering • Application Firewall • Single Sign-On mobility agent • Zero Trust Network Access. Note that the zero trust network access feature is always installed on a macOS endpoint, regardless of whether this option is enabled or disabled. • Privilege Access Management Disable to exclude features from the FortiClient deployment package.

If you enable a feature in the deployment package that is disabled in Feature Select, the feature is installed on the endpoint, but is disabled and does not appear in the FortiClient GUI. For example, when Web Filter is disabled in Feature Select, if you enable Web Filtering in a deployment package, the deployment package installs Web Filter on the endpoint. However, the Web Filter feature is disabled on the endpoint and does not appear in the FortiClient GUI.

6. Click *Next*. On the *Advanced* tab, set the following options:

Enable desktop shortcut	Configure the FortiClient deployment package to create a desktop shortcut on the endpoint.
Enable start menu shortcut	Configure the FortiClient deployment package to create a Start menu shortcut on the endpoint.

Enable Installer ID

Configure an installer ID. Select an existing installer ID or enter a new installer ID. If creating an installer ID, select a group path or create a new group in the *Group Path* field. FortiClient EMS automatically groups endpoints according to installer ID group assignment rules.

If you manually move the endpoint to another group after EMS places it into the group defined by the installer ID group assignment rule, EMS returns the endpoint to the group defined by the installer ID group assignment rule.

In an environment with a large number of endpoints, since you can configure each deployment package with only one installer ID, it may be inefficient to create a deployment package for each installer ID.

Enable Endpoint VPN Profile

Select an endpoint VPN profile to include in the installer. EMS applies the VPN profile to the endpoint once it has installed FortiClient. This option is necessary if users require VPN connection to connect to EMS.

Enable Endpoint System Profile

Select an endpoint system profile to include in the installer. EMS applies the system profile to the endpoint once it has installed FortiClient. This option is necessary if it is required to have certain security features enabled prior to contact with EMS.

Invalid Certificate Action

Select the action to take when FortiClient attempts to connect to EMS with an invalid certificate:

- **Warn:** warn the user about the invalid server certificate. Ask the user whether to proceed with connecting to EMS, or terminate the connection attempt. FortiClient remembers the user's decision for this EMS, but displays the warning prompt if FortiClient attempts to connect to another EMS (using a different EMS FQDN/IP address and certificate) with an invalid certificate.
- **Allow:** allows FortiClient to connect to EMS with an invalid certificate.
- **Deny:** block FortiClient from connecting to EMS with an invalid certificate.

7. Click *Next*. The *Telemetry* tab displays the hostname and IP address of the FortiClient EMS server, which manage FortiClient once it is installed on the endpoint.
8. Click *Finish*. The FortiClient deployment package is added to FortiClient EMS and displays on the *Deployment Installers > FortiClient Installer* pane. The deployment package may include .exe (32-bit and 64-bit), .msi, and .dmg files depending on the configuration. The end user can download these files to install FortiClient on their machine with the desired configuration.



If the *Sign software packages* option is enabled in *System Settings > EMS Settings*, Windows deployment packages display as being from the publisher specified in the certificate file. See the *FortiClient EMS Administration Guide*.

Deploying the FortiClient deployment package to endpoints

To deploy the FortiClient deployment package to endpoints:

Deploy the FortiClient deployment package to desired endpoints using one of the following:

- SCCM: see [Deploy applications with Configuration Manager](#).
- GPO: [Use Group Policy to remotely install software](#).

Viewing endpoints

After you add endpoints to FortiClient EMS, you can view the list of endpoints in a domain or workgroup in the *Endpoints* pane. You can also view details about each endpoint and use filters to access endpoints with specific qualities.

Viewing the Endpoints pane

You can view information about endpoints in *Endpoints*.

To view the *Endpoints* pane:

1. Go to *Endpoints*, and select *All Endpoints*, a domain, or workgroup. The list of endpoints, a quick status bar, and a toolbar display in the content pane.

Not Installed	Number of endpoints that do not have FortiClient installed. Click to display the list of endpoints without FortiClient installed.
Not Registered	Number of endpoints that are not connected to FortiClient EMS. Click to display the list of disconnected endpoints.
Out-Of-Sync	Number of endpoints with an out-of-sync profile. Click to display the list of endpoints with out-of-sync profiles.
Security Risk	Number of endpoints that are security risks. Click to display the list of endpoints that are security risks.
Quarantined	Number of endpoints that EMS has quarantined. Click to display the list of quarantined endpoints.
Endpoints	Click the checkbox to select all endpoints displayed in the content pane.
Show/Hide Heading	Click to hide or display the following column headings: <i>Device</i> , <i>User</i> , <i>IP</i> , <i>Configurations</i> , <i>Connections</i> , and <i>Alerts and Events</i> .
Show/Hide Full Group Path	Click to hide or display the full path for the group that the endpoint belongs to.
Refresh	Click to refresh the list of endpoints.
Search All Fields	Enter a value and press <i>Enter</i> to search for the value in the list of endpoints.
Filters	Click to display and hide filters you can use to filter the list of endpoints.
Device	Visible when headings are displayed. Displays an icon to represent the OS on the endpoint, the hostname, and the endpoint group.
User	Visible when headings are displayed. Displays the name and icon of the user logged into the endpoint. Also displays the endpoint status: <ul style="list-style-type: none"> • Online: endpoint has been seen within less than three keep alive timeouts.

	<ul style="list-style-type: none"> • Away: endpoint has been offline for less than eight hours. • Offline: endpoint has been offline for more than eight hours. • Never Seen: endpoint has never been registered to EMS. <p>When using user-based licensing, you can use the dropdown list to view all registered users for this endpoint. The dropdown list displays the verified user and device username.</p>
IP	Visible when headings are displayed. Displays the endpoint IP address.
Configurations	Visible when headings are displayed. Displays the name of the policy assigned to the endpoint and its synchronization status.
Connections	Visible when headings are displayed. Displays the connection status between FortiClient and FortiClient EMS. If the endpoint is connected to a FortiGate, displays the FortiGate hostname.
Alerts and Events	Visible when headings are displayed. Displays FortiClient alerts and events for the endpoint.

2. Click an endpoint to display its details in the content pane. The following dropdown lists display in the toolbar for the selected endpoint:

Scan	Click to start a Vulnerability or AV scan on the selected endpoint.
Patch	Click to patch all critical and high vulnerabilities on the selected endpoint. Choose one of the following options: <ul style="list-style-type: none"> • Selected Vulnerabilities on Selected Clients • Selected Vulnerabilities on All Affected Clients • All Critical and High Vulnerabilities
Move to	Move the endpoint to a different group.

Action	<p>Click to perform one of the following actions on the selected endpoint:</p> <ul style="list-style-type: none"> • Request FortiClient Logs • Request Diagnostic Results • Update Signatures • Download Available FortiClient Logs • Download Available Diagnostic Results • Deregister • Quarantine • Un-quarantine • Exclude from Management • Revoke Client Certificate. This action is only available if the ZTNA or EPP license is applied and for endpoints running FortiClient 7.0.0 and later versions. Revoke the certificate that FortiClient is using to securely encrypt and tunnel TCP traffic through HTTPS to the FortiGate. You may want to revoke a certificate if it becomes compromised and can no longer be trusted. When a certificate is revoked, EMS prompts FortiOS and FortiClient with a new certificate signing request. • Clear Events • Mark as Uninstalled • Set Importance • Set Custom Tags. This option is only available if you have already created a custom tag. • Delete Device • Send Message. See Send endpoints one-way message 7.2.1.
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The following tabs are available in the content pane toolbar when you select an endpoint, depending on which FortiClient features are installed on the endpoint and enabled via the assigned profile:

Summary	
<user name>	Displays the name of the user logged into the selected endpoint. Also displays the user's avatar, email address, and phone number if these are provided to FortiClient on the endpoint. If the user's LinkedIn, Google, Salesforce, or other cloud app account is linked in FortiClient, the username from the cloud application displays. Also displays the group that the endpoint belongs to in EMS.
Device	Displays the selected endpoint's hostname. You can enter an alias if desired.
OS	Displays the selected endpoint's operating system and version number.
IP	Displays the selected endpoint's IP address.
MAC	Displays the selected endpoint's MAC address.
Last Seen	Displays the last date and time that FortiClient sent a keep-alive message to EMS. This information is useful if FortiClient is offline because it indicates when the last keep-alive message occurred.

Location	Displays whether the selected endpoint is on- or off-fabric. You can also view any on-fabric detection rules that the endpoint is applicable for.
Network Status	Displays the following information for the networks that the endpoint is connected to: <ul style="list-style-type: none"> • MAC address • IP address • Gateway IP address • Gateway MAC address • SSID for Wi-Fi connections
Hardware Details	Displays the hardware model, vendor, CPU, RAM, and serial number information for the endpoint device, if available.
Zero Trust Tags	Displays which tags have been applied to the endpoint based on the Zero Trust tagging rules.
FortiGuard Outbreak Detections	Displays which FortiGuard Outbreak tags have been applied to the endpoint based on the FortiGuard Outbreak Alerts service rules.
Connection	Displays the connection status between the selected endpoint and FortiClient EMS.
Configuration	Displays the following information for the selected endpoint: <ul style="list-style-type: none"> • Policy: Endpoint policy assigned to the selected endpoint • Installer: FortiClient installer used for the selected endpoint. • Progress: this field is intended to display deployment progress for a FortiClient installer. However, it currently does not accurately display deployment progress. • FortiClient Version: FortiClient version installed on the selected endpoint. • FortiClient Serial Number: Serial number for the selected endpoint's FortiClient license. • FortiClient ID • ZTNA Serial Number: serial number for the zero trust network access certificate provisioned to the endpoint. • MDM Enrolled: whether the endpoint is enrolled on a mobile device management (MDM) platform. • MDM Deployment Status: whether a ZTNA certificate provisioned through MDM has been installed on the endpoint.
Classification Tags	Displays classification tags that are currently assigned to the endpoint. You can also assign a classification tag to the endpoint. Classification tags include the default importance level tags (low, medium, high, or critical), and custom tags. An endpoint can only have one default importance tag assigned, but can have multiple custom tags assigned. You can also unassign a tag from the endpoint, and create, assign, or delete a custom tag. To create a new custom tag, click the <i>Add</i> button, enter the desired tag, the click the + button. When you create a tag, it is available for assignment to all endpoints in the current site.

<p>Classification Tags - Fabric</p>	<p>You can assign a classification tag to multiple endpoints by selecting the endpoints, then selecting <i>Action > Set Importance</i> or <i>Set Custom Tags</i>. Tags that FortiClient EMS receives from FortiAnalyzer also display under <i>Classification Tags</i>.</p> <p>Displays Fabric classification tags that are currently assigned to the endpoint. In a Fabric deployment, FortiEDR can detect suspicious or compromised endpoint behavior, share that endpoint's security status with EMS, and tag the affected endpoint on EMS. You can view these tags under <i>Classification Tags - Fabric</i>. You can also unassign a tag from the endpoint. The following lists the predefined tags for FortiEDR use:</p> <ul style="list-style-type: none"> • FortiEDR_Malicious: FortiEDR has classified this endpoint as malicious. • FortiEDR_PUP: FortiEDR has detected a potentially unwanted program on this endpoint. • FortiEDR_Suspicious: FortiEDR has detected suspicious activity on this endpoint. • FortiEDR_Likely_Safe: FortiEDR has detected this endpoint as likely to be safe. • FortiEDR_Probably_Good: FortiEDR has determined that this endpoint is not a safety risk. <p>See Identity Management integration.</p>
<p>Forensic Analysis</p>	<p>Displays statuses for forensic analysis tasks:</p> <ul style="list-style-type: none"> • Ticket Status: status of the ticket. Possible statuses are: <ul style="list-style-type: none"> • Request Submitted • Pending: Forensic analysis request has been initiated. The Forensics team has not yet assigned it to an analyst. • Running • In Progress: Forensics team has assigned the request to an analyst, who has begun working on it. • Failed: analyst could not connect to the endpoint. • Cancelled: indicates one of the following: <ul style="list-style-type: none"> • The analyst needed more information about the endpoint to perform the analysis. • The EMS administrator canceled the request. • Completed: analyst has completed analysis on the endpoint and shared the result in a PDF document. You can download the report from the endpoint summary's <i>Forensic Analysis</i> section. • Agent Status: status of the forensic agent collecting logs on the endpoint. Possible statuses are: <ul style="list-style-type: none"> • Pending: EMS has notified FortiClient that a forensic analysis request is submitted, but the forensic agent is not running yet. • Running: forensics agent starts collecting forensics logs. • Collection Completed: forensics agent has completed collecting forensics logs. • Upload Started: FortiClient has started to upload the logs to the cloud.

	<ul style="list-style-type: none"> • Upload Completed: FortiClient has completed uploading the logs to the cloud. • Upload Failed: FortiClient failed to upload the logs to the cloud. • Verdict: forensic analysis verdict as determined by the FortiGuard analyst. • Task ID: Request ID in the FortiGuard forensics system. • Request Analysis: request forensic analysis on the endpoint. See Requesting forensic analysis on an endpoint. • Download Report: download the forensic analysis report.
Status	<p>Displays one of the following statuses:</p> <ul style="list-style-type: none"> • Managed: Endpoint is managed by EMS. • Quarantined: If quarantined, displays access code. The user can enter this access code in the affected endpoint's FortiClient to remove the endpoint from quarantine. • Excluded: Endpoint is excluded from management by EMS.
Features	Displays which features are enabled for FortiClient.
Third Party Features	Displays which third party features are installed and running on the endpoint. This section includes the status of FortiEDR on the endpoint. This information is only available for Windows endpoints.
Antivirus Events	
Date	Displays the AV event's date and time.
Count	Displays the number of occurrences for this event.
Message	Displays the AV event's message.
Actions	Mark the event as read or delete it.
Cloud Scan Events	
Date	Displays the cloud-based malware detection event's date and time.
Count	Displays the number of occurrences for this event.
Message	Displays the cloud-based malware detection event's message.
Actions	Mark the event as read or delete it.
Anti-Ransomware Events	
Date	Displays the anti-ransomware event's date and time.
Count	Displays the number of occurrences for this event.
Message	Displays the anti-ransomware event's message. The message may say that FortiClient detected ransomware on the endpoint, or that FortiClient restored a file that the detected ransomware encrypted.
Actions	Mark the event as read or delete it.

AntiExploit Events		
Date	Displays the AntiExploit event's date and time.	
Count	Displays the number of occurrences for this event.	
Message	Displays the AntiExploit event's message.	
Actions	Mark the event as read or delete it.	
USB Device Events		
Date	Displays the USB device event's date and time.	
Count	Displays the number of occurrences for this event.	
Message	Displays the USB device event's message.	
Actions	Mark the event as read or delete it.	
Sandbox Events		
Date	Displays the sandbox event's date and time.	
Message	Displays the sandbox event's message.	
Rating	Displays the file's risk rating as retrieved from FortiSandbox.	
Checksum	Displays the checksum for the file.	
Download	Download a PDF version of the detailed report.	
Magnifying glass	Click to view a more detailed report.	
Firewall Events		
Date	Displays the firewall event's date and time.	
Count	Displays the number of occurrences for this event.	
Message	Displays the firewall event's message.	
Actions	Mark the event as read or delete it.	
Web Filter Events		
Date	Displays the web filter event's date and time.	
Count	Displays the number of occurrences for this event.	
Message	Displays the web filter event's message.	
Actions	Mark the event as read or delete it.	
Videofilter Events		
Date	Displays the video filter event's date and time.	
Count	Displays the number of occurrences for this event.	

Message	Displays the video filter event's message.
Actions	Mark the event as read or delete it.
Vulnerability Events	
Vulnerability	Displays the vulnerability's name. For example, <i>Security update available for Adobe Reader</i> .
Category	Displays the vulnerability's category. For example, <i>Third Party App</i> .
Application	Displays the name of the application with the vulnerability.
Severity	Displays the vulnerability's severity.
Patch Type	Displays the patch type for this vulnerability: <i>Auto</i> or <i>Manual</i> .
FortiGuard	Displays the FortiGuard ID number. If you click the FortiGuard ID number, it redirects you to FortiGuard where further information is provided if available.
PUA Events	
Name	Displays the potentially unwanted application (PUA) name.
Vendor	Displays the PUA vendor name.
Version	Displays the PUA version number.
Category	Displays the PUA category that the application belongs to. PUA categories are as follows: <ul style="list-style-type: none"> • Illegal or unethical • Cryptomining • Hacking • Unpopular • Phishing • Malicious
Date	Displays the date that EMS detected the PUA. This column is available in <i>Events</i> view.
Event Type	Displays the event type, such as <i>Detected</i> (EMS detected the PUA) or <i>Uninstalled</i> (the PUA was uninstalled from the endpoint). This column is available in <i>Events</i> view.
System Events	
Date	Displays the system event's date and time.
Count	Displays the number of occurrences for this event.
Message	Displays the system event's message.
Actions	Mark the event as read.

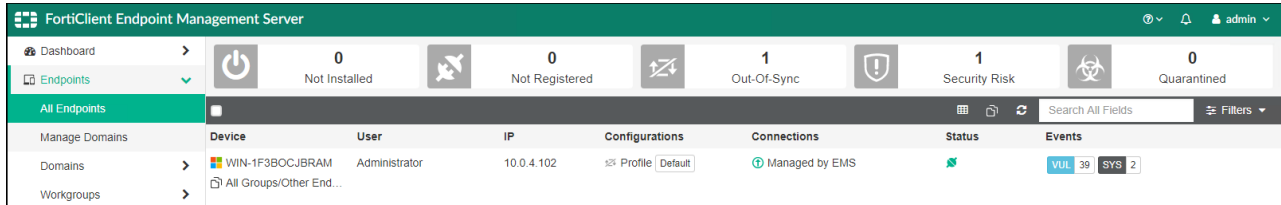
Using the quick status bar

You can use the quick status bar to quickly display filtered lists of endpoints on the *Endpoints* content pane.

To use the quick status bar:

1. Go to *Endpoints*.
2. Click *All Endpoints*, a domain, or workgroup.

The list of endpoints and quick status bar display.



3. Click one of the following buttons in the quick status bar:

- Not Installed
- Not Registered
- Out-Of-Sync
- Security Risk
- Quarantined

The list of affected endpoints displays.

4. Click an endpoint to display its details.
5. In the *Events* column, click the *AV <number>*, *SB <number>*, *FW <number>*, *VUL<number>*, *WEB <number>* and *SYS<number>* buttons to display the associated tab of details for the selected endpoint.
6. Click the *Total* button to clear the filters. The unfiltered list of endpoints displays.

Viewing endpoint details

You can view each endpoint's details on the *Endpoints* content pane. For a description of the options on the *Endpoints* content pane, see [Viewing the Endpoints pane on page 28](#).

To view endpoint details:

1. Go to *Endpoints*, and select *All Domains*, a domain, or workgroup. The list of endpoints for the selected domain or workgroup displays.
2. Click an endpoint to display details about it in the content pane. Details about the endpoint display in the content pane.

FortiClient EMS for Chromebooks setup

This section describes how to set up FortiClient EMS for Chromebooks. Following is a summary of how to set up FortiClient EMS for Chromebooks:

1. Add an SSL certificate. See [Adding SSL certificates on page 53](#).
2. Add the Google domain. See [Adding a Google domain on page 54](#).
3. Create an endpoint profile. See [Adding a new Chromebook profile on page 54](#).
4. Create an endpoint policy configured with the endpoint profile. See [Adding a Chromebook policy on page 56](#).
5. View the status. See [Viewing domains on page 57](#).

Additional configuration procedures are also included in this section.

Google Admin Console setup

This section describes how to add and configure the FortiClient Web Filter extension on Chromebooks enrolled in the Google domain.

Following is a summary of how to set up the Google Admin console:

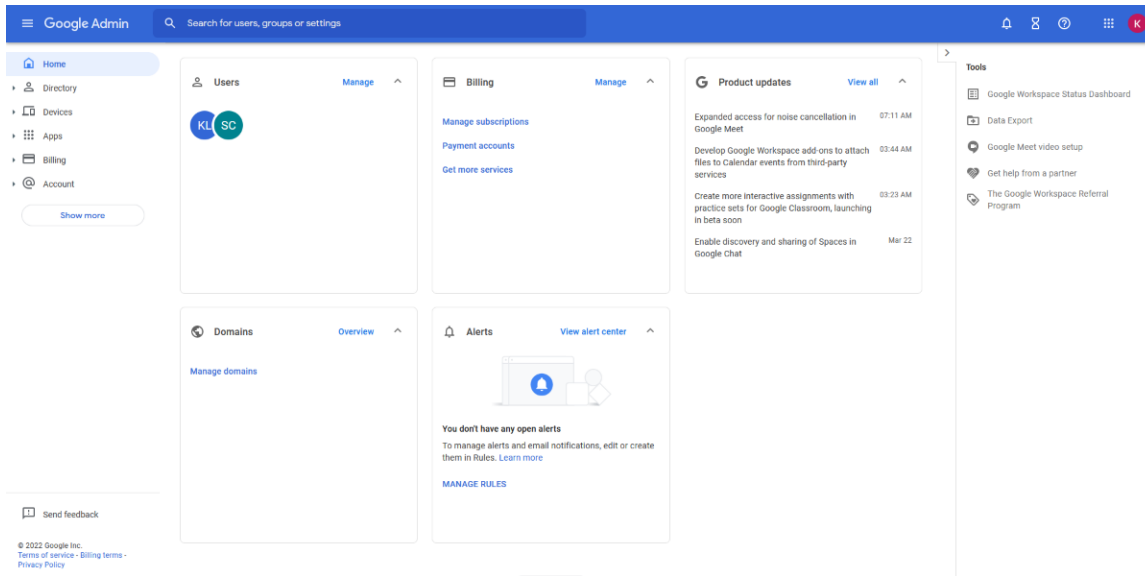
1. Log into the Google Admin console. See [Logging into the Google Admin console on page 37](#).
2. Add the FortiClient Web Filter extension. See [Adding the FortiClient Web Filter extension on page 38](#).
3. Configure the FortiClient Web Filter extension. See [Configuring the FortiClient Web Filter extension on page 38](#).
4. Add the root certificate. See [Adding root certificates on page 39](#).



If you are using another Chromebook extension that uses external rendering servers, the FortiClient Web Filter settings may be bypassed. Check with the third-party extension vendor if this is the case.

Logging into the Google Admin console

Log into the [Google Admin console](#) using your Google domain admin account. The Admin console displays.



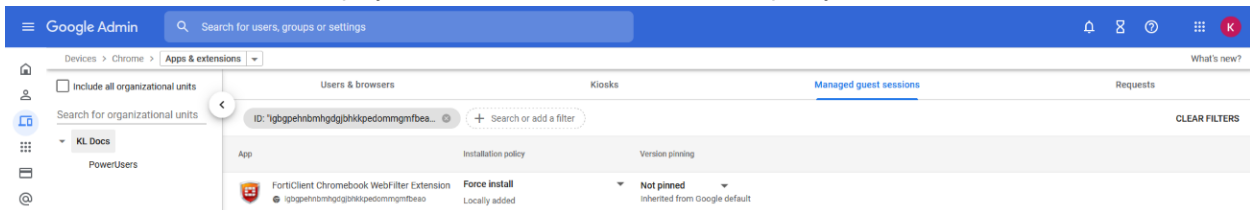
Adding the FortiClient Web Filter extension



FortiClient EMS software is unavailable for public use. You can only enable the feature using the following extension ID: `igbgpehnbmhdgjbhkkpedommgmfbeao`

To add the FortiClient Web Filter extension:

1. In the Google Admin console, go to *Devices > Chrome > Settings > Users & browsers > Managed Guest Session Settings*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.
3. From the breadcrumbs, select the dropdown list beside *Settings*, and select *Apps & extensions*.
4. In the bottom right corner, hover over the + icon, then select *Add Chrome app or extension by ID*.
5. In the *Extension ID* field, enter the following extension ID: `igbgpehnbmhdgjbhkkpedommgmfbeao`.
6. Click **SAVE**. The extension displays, with the Force install installation policy.



Configuring the FortiClient Web Filter extension

You must configure the FortiClient Chromebook Web Filter extension to enable the Google Admin console to communicate with FortiClient EMS.

FortiClient EMS hosts the services that assign endpoint profiles of web filtering policies to groups in the Google domain. FortiClient EMS also handles the logs and web access statistics that the FortiClient Web Filter extensions send.



FortiClient EMS is the profile server.



For instructions on configuring the extension for connection to FortiClient Cloud, see [Managing Chromebooks with FortiClient Cloud](#).

To configure the FortiClient Web Filter extension:

1. In FortiClient EMS, locate the server name and port by going to *System Settings > EMS Settings*.

2. Create a text file that contains the following text:

```
{
  "ProfileServerUrl": { "Value": "https://< ProfileServer >:< port for Profile Server >" }
}
```

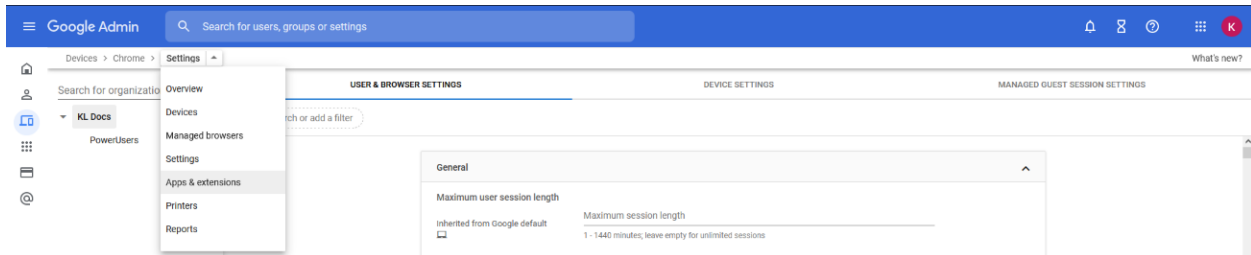
For example:

```
{
  "ProfileServerUrl": { "Value": "https://ems.mydomain.com:8443" }
}
```

3. In the Google Admin console, go to *Devices > Chrome > Settings > Users & browsers*.

4. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.

5. From the breadcrumbs, select the dropdown list beside *Settings*, and select *Apps & extensions*.



6. Click a domain or organizational unit (OU), then click the FortiClient Web Filter extension.

7. In the right pane, under *Policy for extensions*, paste the JSON content from step 2.

8. Click **SAVE**.

9. Go to *Devices > Chrome > Apps & extensions* to view your configured Chrome applications.

Adding root certificates

Communication with the FortiClient Chromebook Web Filter extension

The FortiClient Chromebook Web Filter extension communicates with FortiClient EMS using HTTPS connections. The HTTPS connections require an SSL certificate. You must obtain an SSL certificate and add it to FortiClient EMS to allow

the extension to trust FortiClient EMS.

If you use a public SSL certificate, you only need to add the public SSL certificate to FortiClient EMS. See [Adding an SSL certificate to FortiClient EMS](#).

However, if you prefer to use a certificate not from a common CA, you must add the SSL certificate to FortiClient EMS and push your certificate's root CA to the Google Chromebooks. Otherwise, the HTTPS connection between the FortiClient Chromebook Web Filter extension and FortiClient EMS does not work. See [Uploading root certificates to the Google Admin console on page 41](#).

Communication with FortiAnalyzer for logging

This section applies only if you are sending logs from FortiClient to FortiAnalyzer. If you are not sending logs, skip this section.



Sending logs to FortiAnalyzer requires you enable administrative domains (ADOM) in FortiAnalyzer and add FortiClient EMS to FortiAnalyzer. You can add FortiClient EMS as a device to the FortiClient or Fortinet Security Fabric ADOM in FortiAnalyzer. See the [FortiAnalyzer Administration Guide](#).

FortiClient supports logging to FortiAnalyzer. If you have a FortiAnalyzer and configure FortiClient to send logs to FortiAnalyzer, you must enable a FortiAnalyzer CLI command and communication between the FortiClient Web Filter extension and FortiAnalyzer requires an SSL certificate.

If you use a public SSL certificate, you only need to add the public SSL certificate to FortiAnalyzer. See [Adding an SSL certificate to FortiAnalyzer](#).

However, if you prefer to use a certificate not from a common CA, you must add the SSL certificate to FortiAnalyzer and push your certificate's root CA to the Google Chromebooks. Otherwise, the HTTPS connection between the FortiClient Chromebook Web Filter extension and FortiAnalyzer does not work. See [Uploading root certificates to the Google Admin console on page 41](#).



The FortiAnalyzer IP address should be specified in the SSL certificate. If you are using a public SSL certificate, the FortiAnalyzer IP address can be assigned to *Common Name* or *Alternative Name*. If you are using a self-signed (nonpublic) SSL certificate, your certificate's *Subject Alternative Name* must include `IP:<FortiAnalyzer IP>`.

You must use the FortiAnalyzer CLI to add HTTPS-logging to the allow-access list in FortiAnalyzer. This command is one step in the process that allows FortiAnalyzer to receive logs from FortiClient.

In FortiAnalyzer CLI, enter the following command:

```
config system interface
  edit "port1"
    set allowaccess https ssh https-logging
  next
end
```

Adding an SSL certificate to FortiAnalyzer

To add an SSL certificate to FortiAnalyzer:

1. In FortiAnalyzer, go to *System Settings > Certificates > Local Certificates*.
2. Click *Import*. The *Import Local Certificate* dialog appears.
3. In the *Type* list, select *Certificate* or *PKCS #12 Certificate*.
4. Beside *Certificate File*, click *Browse* to select the certificate.
5. Enter the password and certificate name.
6. Click *OK*.

Selecting a certificate for HTTPS connections

To select a certificate for HTTPS connections:

1. In FortiAnalyzer, go to *System Settings > Admin > Admin Settings*.
2. From the *HTTPS & Web Service Certificate* dropdown list, select the certificate to use for HTTPS connections, and click *Apply*.

Summary of where to add certificates

The following table summarizes where to add certificates to support communication with the FortiClient Web Filter extension and FortiAnalyzer.

Scenario	Certificate and CA	Where to add certificates
Allow the FortiClient Chromebook Web Filter extension to trust EMS	Public SSL certificate	Add SSL certificate to FortiClient EMS.
	SSL certificate not from a common CA	<ul style="list-style-type: none"> • Add SSL certificate to FortiClient EMS. • Add your certificate's root CA to the Google Admin console.
Allow the FortiClient Chromebook Web Filter extension to trust FortiAnalyzer for logging	Public SSL certificate	Add SSL certificate to FortiAnalyzer.
	SSL certificate not from a common CA	<ul style="list-style-type: none"> • Add SSL certificate to FortiAnalyzer. • Add your certificate's root CA to the Google Admin console.

Uploading root certificates to the Google Admin console

To upload root certificates to the Google Admin console:

1. In the Google Admin console, go to *Device Management > Network > Certificates (root certificate) (crt certificate)*.
2. Add the root certificate.
3. Select the *Use this certificate as an HTTPS certificate authority* checkbox.



Do not forget to select the *Use this certificate as an HTTPS certificate authority* checkbox.

Disabling access to Chrome developer tools

Disabling access to Chrome developer tools is recommended. This blocks users from disabling the FortiClient Web Filter extension.

To disable access to Chrome developer tools:

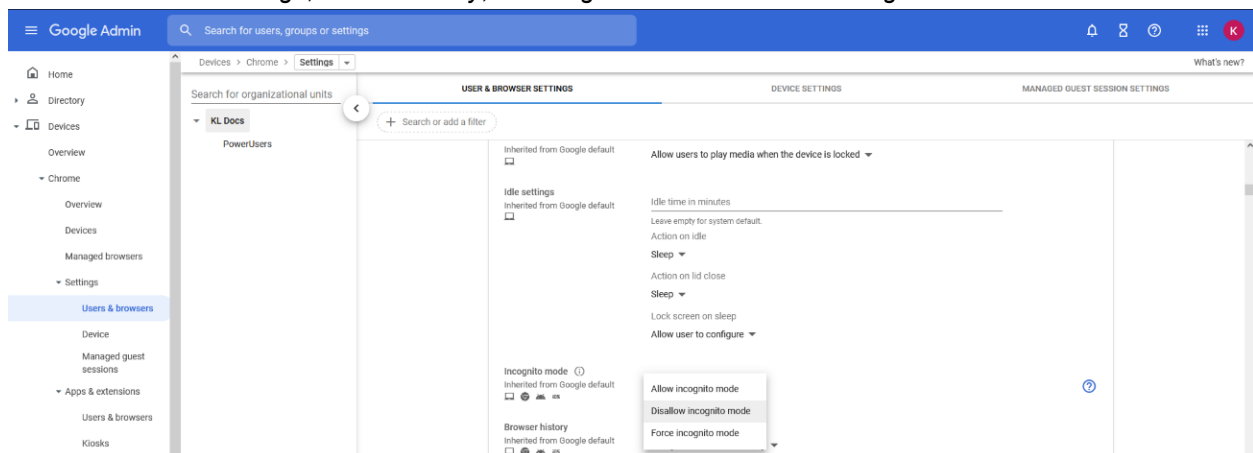
1. In the Google Admin console, go to *Devices > Chrome > Settings > Users & browsers*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.
3. In *User & Browser Settings*, for the *Developer tools* option, select *Never allow use of built-in developer tools*.

Disallowing incognito mode

When users browse in incognito mode, Chrome bypasses extensions. You should disallow incognito mode for managed Google domains.

To disallow incognito mode:

1. In the Google Admin console, go to *Devices > Chrome > Settings > Users & browsers*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.
3. In *User & Browser Settings*, under *Security*, set *Incognito mode* to *Disallow incognito mode*.



4. Click **Save**.

Disabling guest mode

You should disallow guest mode for managed Google domains.

To disallow guest mode:

1. In the Google Admin console, go to *Devices > Chrome > Settings > Device*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.

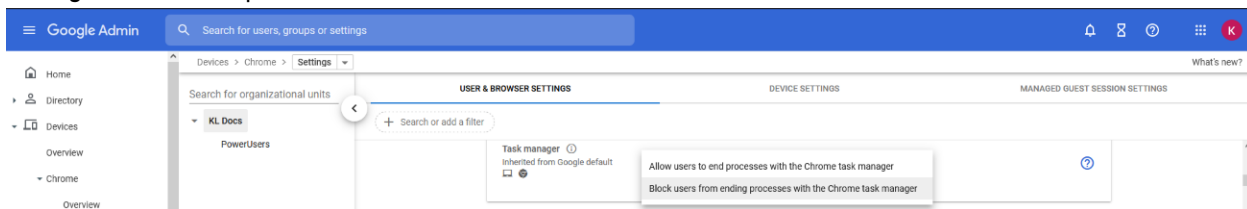
3. Under *Sign-in settings*, for *Guest mode*, select *Disable guest mode*.
4. Click *Save*.

Blocking the Chrome task manager

You should block users from ending processes with the Chrome task manager for managed Google domains.

To block the Chrome task manager:

1. In the Google Admin console, go to *Devices > Chrome > Settings > Users & browsers*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.
3. In *User & Browser Settings*, under *Task manager* select *Block users from ending processes with the Chrome task manager* from the dropdown list.



4. Click *Save*.

Service account credentials

FortiClient EMS requires service account credentials that the Google Developer console generates. You can use the default service account credentials provided with FortiClient EMS or generate and use unique service account credentials, which is more secure.



The service account credentials must be the same in FortiClient EMS and the Google Admin console.

Configuring default service account credentials

FortiClient EMS includes the following default service account credentials that the Google Developer console generates:

Option	Default setting	Where used
Client ID	102515977741391213738	Google Admin console
Email address	account-1@forticlientwebfilter.iam.gserviceaccount.com	FortiClient EMS
Service account certificate	A certificate in .pem format for the service account credentials	FortiClient EMS



The service account credentials are a set. If you change one credential, you must change the other two credentials.

To configure the default service account credentials, you must add the client ID's default value to the Google Admin console. Service account credentials do not require other configuration. See [Delegating domain-wide authority to the service account on page 50](#).

Configuring unique service account credentials

When using unique service account credentials for improved security, you must complete the following steps to add the unique service account credentials to the Google Admin console and FortiClient EMS:

1. Create unique service account credentials using the Google Developer console. See [Creating unique service account credentials on page 44](#).
2. Add the unique service account credentials to the Google Admin console. See [Delegating domain-wide authority to the service account on page 50](#).
3. Add the unique service account credentials to FortiClient EMS. See [Adding service account credentials to EMS on page 52](#).

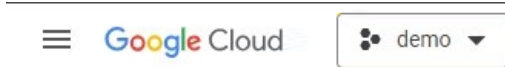
Creating unique service account credentials

Creating a unique set of service account credentials provides more security. Unique service account credentials include the following:

- Client ID (a long number)
- Service account ID (email address)
- Service account certificate (a certificate in .pem format)

To create unique service account credentials:

1. Go to [Google API Console](#).
2. Log in with your Google Workspace account credentials.
3. Create a new project:
 - a. Click the toolbar list. The browser displays the following dialog.



- b. Select your organization, if you see an organization dropdown list. Click *New Project*.

The screenshot shows a 'Select a resource' dialog with a 'NEW PROJECT' button and a search bar. Below the search bar are tabs for 'RECENT', 'STARRED', and 'ALL'. A table lists projects with columns for 'Name' and 'ID'. The 'demo' project is selected, indicated by a checkmark.

Name	ID
✓ ☆ demo ?	third-pad-144322
🗑️ No organization ?	0
☆ Customer ?	customer-0923
☆ My Project ?	steel-bliss-113623

A 'CANCEL' button is located at the bottom right of the dialog.

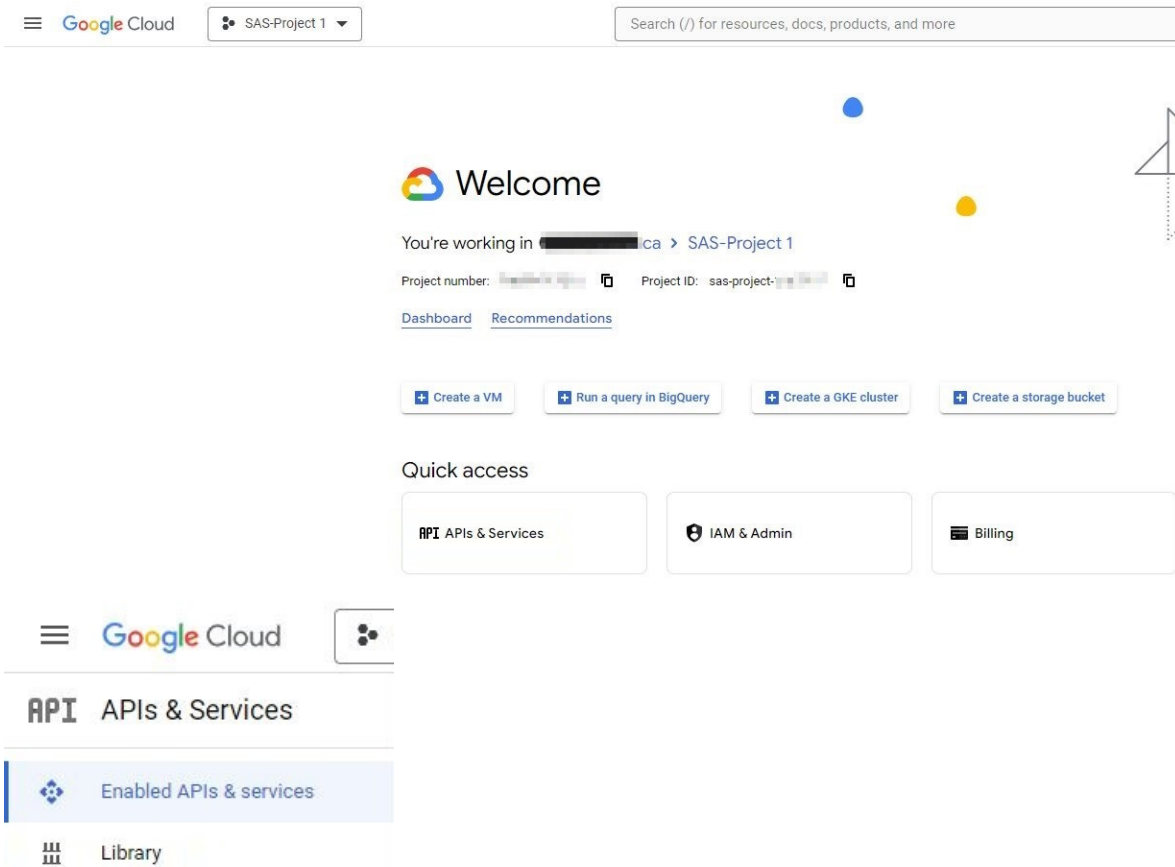
- c. In the *Project name* field, enter your project name, then click *Create*.

The screenshot shows the 'New Project' form in Google Cloud. It includes the following fields and elements:

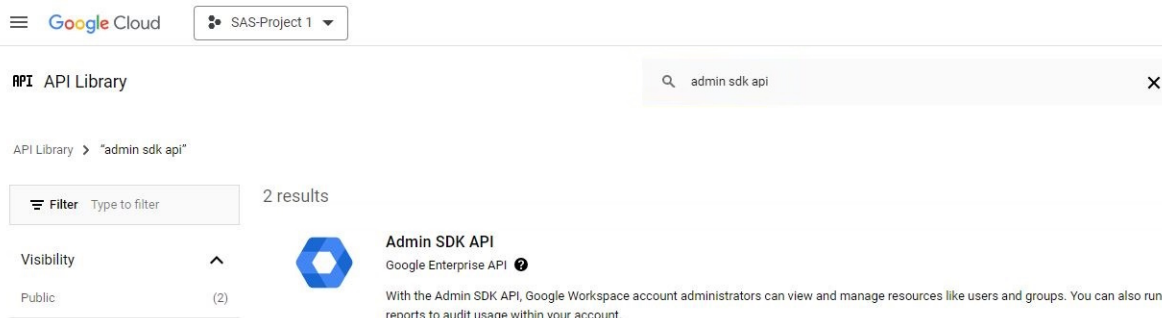
- Project name ***: Input field containing 'My Project 22008' with a help icon.
- Project ID**: 'tactile-catcher-417601. It cannot be changed later. EDIT'
- Organization ***: Dropdown menu showing a selected organization with a help icon.
- Location ***: Dropdown menu showing a selected location with a 'BROWSE' button.
- Parent organization or folder**: Text label below the location dropdown.
- Buttons**: 'CREATE' and 'CANCEL' buttons at the bottom.

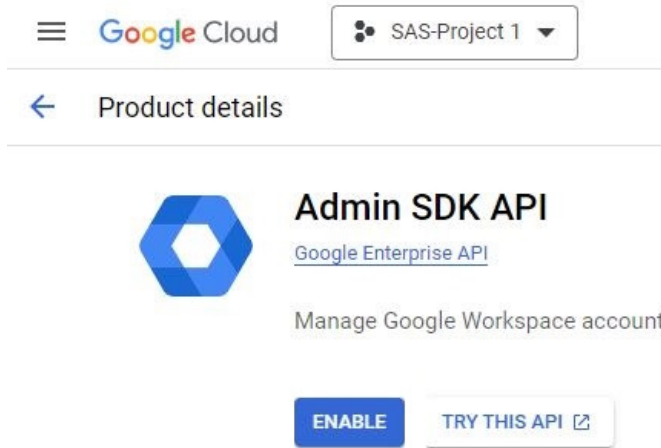
4. Enable the Admin SDK:

- a. Select your project from the toolbar list, then click *APIs & Services*.

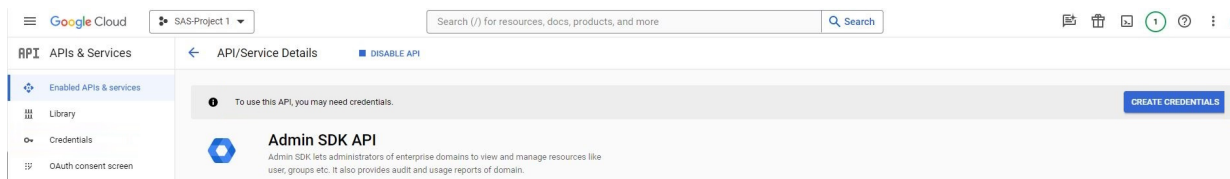


- b. Under *Google Workspace APIs*, search for *Admin SDK API* and enable it.



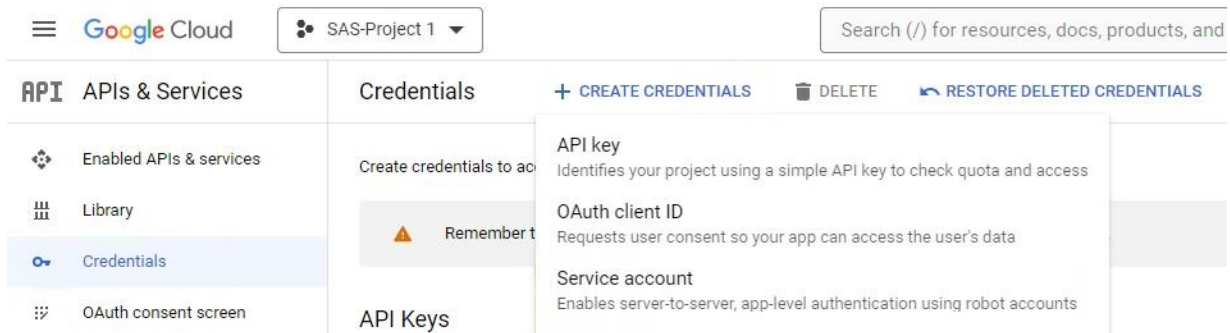


After enabling the Admin SDK API, the console displays a message indicating: *To use this API, you may need credentials.*

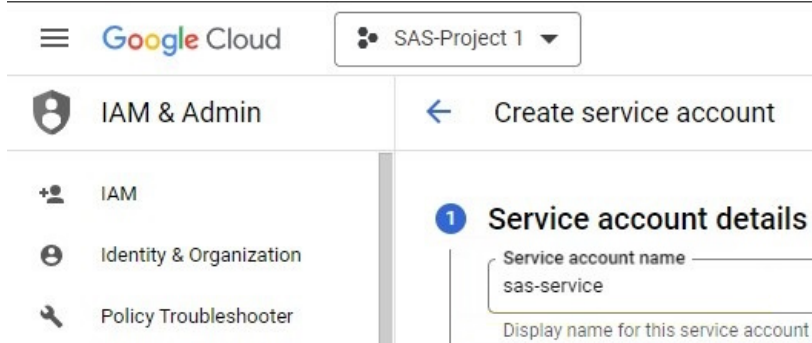


5. Create a service account:

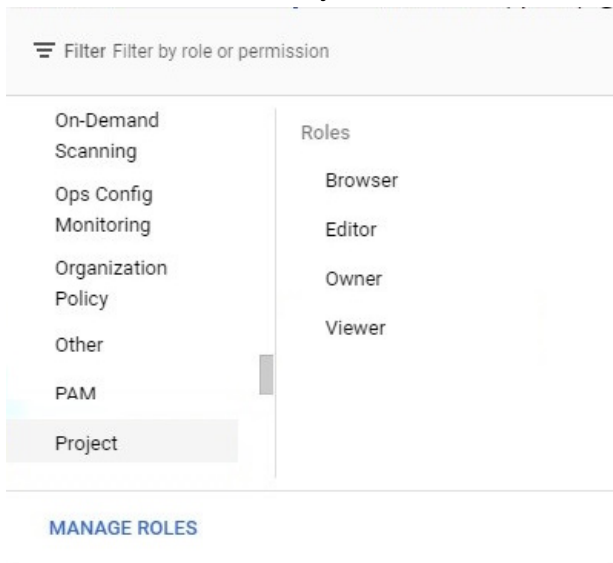
- a. Go to the *Credentials* tab and select *Create Credentials > Service account*.



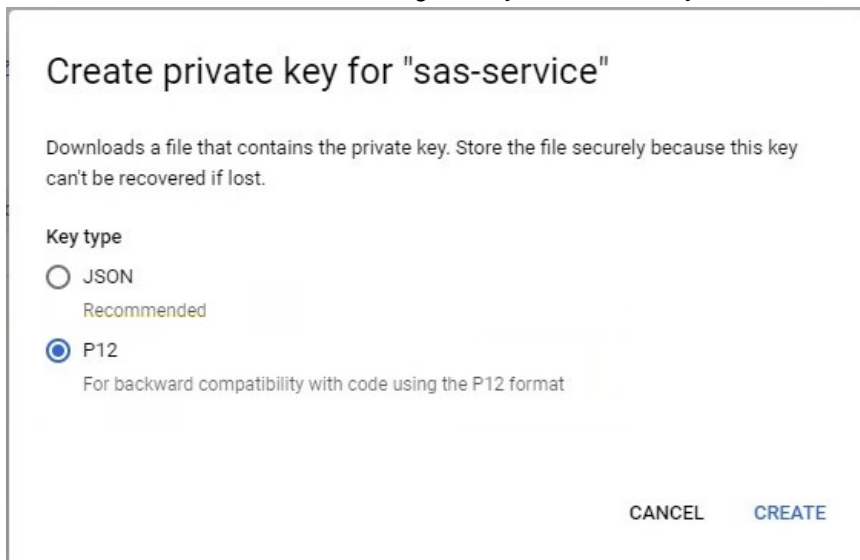
- b. From the *Service account* list, select *New Service Account*. Enter a service account name.



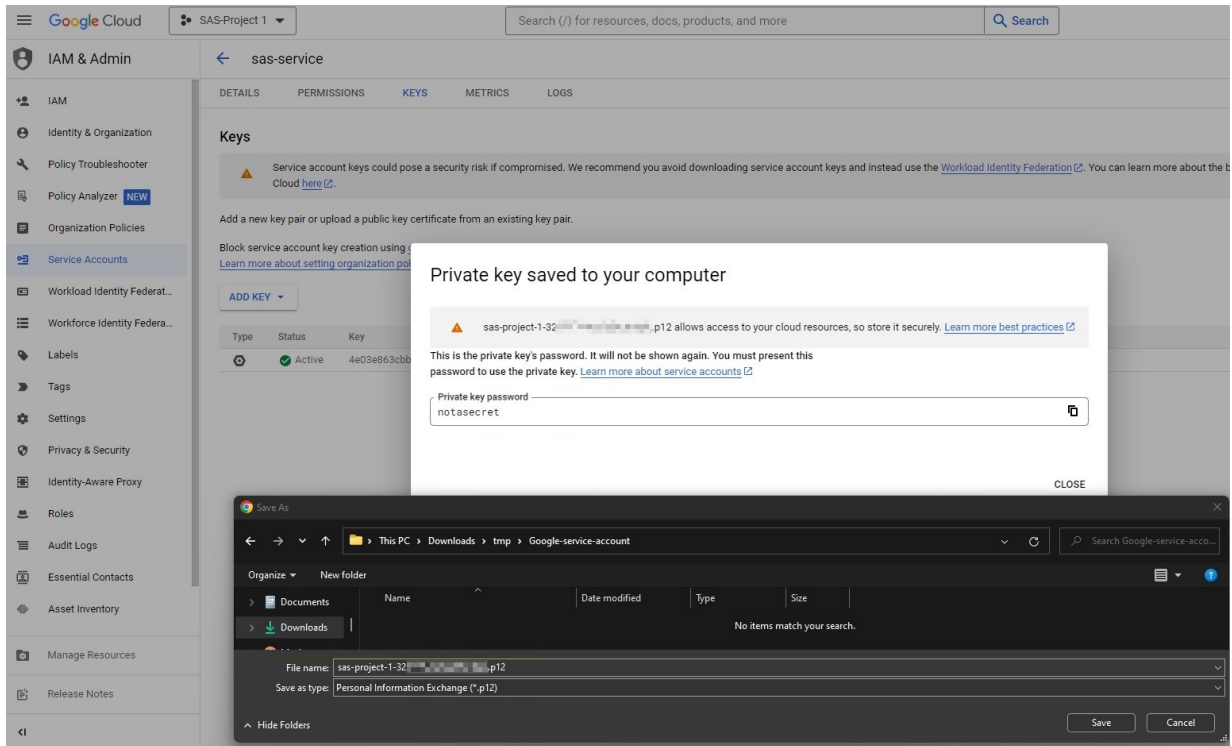
- c. From the *Role* list, select *Project > Viewer*.



- d. Edit the created service account and go to *Keys*. Click *Add Key* to create a P12 private key.



- e. Save the private key and note the private key password, "notasecret".



The private key with the P12 extension is the only copy you receive. Keep it in a safe place. You should also remember the password prompted on the screen. At this time, that password should be **notasecret**.

6. *Edit* the service account you just created and expand *Advanced settings*. There is a *Domain-wide Delegation* message and step-by-step guide.

The screenshot shows the Google Cloud IAM & Admin console for project 'SAS-Project 1'. The left sidebar lists various IAM and Admin tools, with 'Service Accounts' selected. The main content area displays the 'sas-service' service account details, including its name, description, email address, and unique ID. The account status is 'Enabled', and there is a 'DISABLE SERVICE ACCOUNT' button. Below this, the 'Advanced settings' section is expanded to show 'Domain-wide Delegation' with a warning message and a link to learn more.



To use the private key in EMS, it needs to be converted to .pem format. You can use the following `openssl` command to convert it. Remember to use the `notasecret` password.

```
C:\OpenSSL-Win64\bin>openssl pkcs12 -in demo-976b9d6e9328.p12 -out
serviceAccount-demo.pem -nodes -nocerts
```

Enter Import Password:

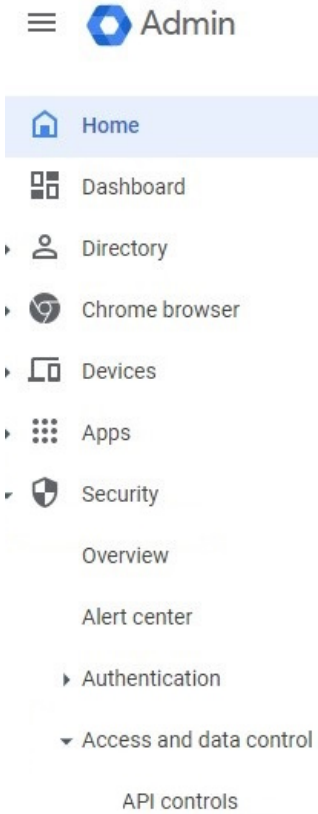
Delegating domain-wide authority to the service account

This section describes how to delegate domain-wide authority to the service account in the Google Admin console. These settings allow Google to trust FortiClient EMS, which enables FortiClient EMS to retrieve information from the

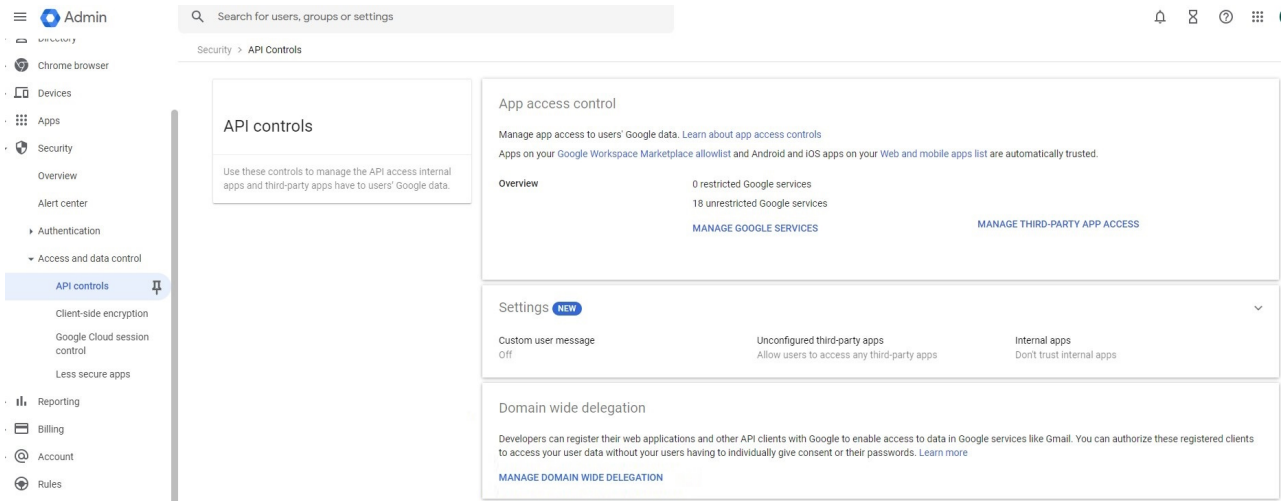
Google domain.

To delegate domain-wide authority to the service account:

1. In the [Google Admin console](#), go to *Menu > Security > Access and data control > API controls*.



2. Click *Manage Domain Wide Delegation*, then click *Add New*.



3. Set the following options:
 - a. In the *Client ID* field, add the client ID from the service account credentials.
 - b. In the *OAuth Scopes* field, add the following string:

https://www.googleapis.com/auth/admin.directory.orgunit.readonly,https://www.googleapis.com/auth/admin.directory.user.readonly



The API scopes are case-sensitive and must be lowercase. You may need to copy the string into a text editor and remove spaces created by words wrapping to the second line in the PDF.

c. Click *Authorize*.

Adding service account credentials to EMS

The section describes how to add the service account ID and service account certificate from the service account credentials to FortiClient EMS.

To add service account credentials to EMS:

1. In FortiClient EMS, go to *System Settings > EMS Settings*.
2. Enable *EMS for Chromebooks Settings*.



The default service account credentials display. Overwrite the default settings with the unique set of service account credentials received from Fortinet.

3. The *Service account* field shows the configured email address provided for the service account credentials. Click the *Update service account* button and configure the following information:

Service Account Email	Enter a new email address for the service account credentials.
Private key	Click <i>Browse</i> and select the certificate provided with the service account credentials.

4. Click *Save*.

The service account credentials are a set. If you change one credential, you must change the other two credentials.

Adding SSL certificates

This section includes information about the required SSL certificates to support the following types of communication:

- [Communication with the FortiClient Chromebook Web Filter extension on page 39](#)
- [Communication with FortiAnalyzer for logging on page 40](#)

It includes the following procedures:

- Required: [Adding an SSL certificate to FortiClient EMS for Chromebook endpoints on page 53](#)
- Required only when sending logs to FortiAnalyzer: [Adding SSL certificates to FortiAnalyzer on page 54](#)

Adding an SSL certificate to FortiClient EMS for Chromebook endpoints

You must add an SSL certificate to FortiClient EMS to allow Chromebooks to connect to FortiClient EMS.

If you are using a public SSL certificate, add the certificate to FortiClient EMS. You do not need to add the certificate to the Google Admin console.

If you are not using a public SSL certificate, you must add the SSL certificate to FortiClient EMS, and the root certificate to the Google Admin console. See [Adding root certificates on page 39](#).

To add an SSL certificate to EMS for Chromebook endpoints:

1. In FortiClient EMS, go to *System Settings > EMS Settings > EMS for Chromebooks Settings*.
2. Do one of the following:
 - a. To replace an existing SSL certificate, beside *SSL certificate*, click *Update SSL certificate*.
 - b. If no SSL certificate has been added yet, click the *Upload new SSL certificate* button.
3. Click *Browse* and locate the certificate file (<name>.pfx).
4. In the *Password* field, enter the password.
5. Click *Test*.
6. Click *Save*.



If the SSL certificate expires in less than three months, the expiry date label is yellow. If it is expired, the label is red. Otherwise, it is green.

SSL Certificate	server2.pfx 5/12/2019
New SSL Certificate File	<input type="text" value="Browse..."/>
New SSL Password	<input type="text" value="Required"/>

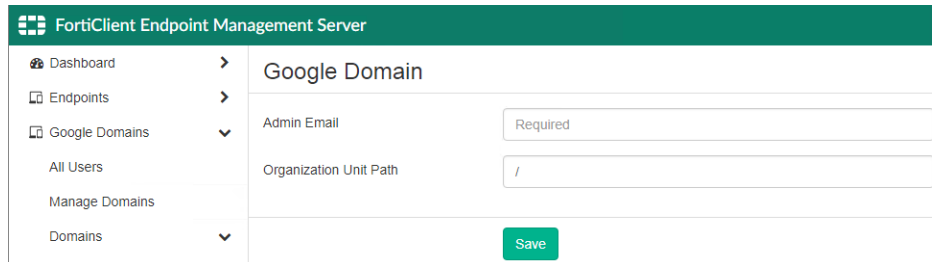
Adding SSL certificates to FortiAnalyzer

1. In FortiAnalyzer, go to *System Settings > Certificates > Local Certificates*.
2. Click *Import*. The *Import Local Certificate* dialog appears.
3. In the *Type* list, select *Certificate* or *PKCS #12 Certificate*.
4. Beside *Certificate File*, click *Browse* to select the certificate.
5. Enter the password and certificate name.
6. Click *OK*.

Adding a Google domain

To add a Google domain:

1. Go to *Google Domains > Manage Domains*, and click the *Add* button. The *Google Domain* pane displays.



2. In the *Admin Email* field, enter your Google domain admin email.
3. In the *Organization Unit Path* field, enter the domain organization unit path.



/ stands for the root of the domain.

4. Click *Save*. EMS imports the Google domain information and users.

Configuring Chromebook profiles

Chromebook profiles support web filtering by categories, blocklists and allowlists, and Safe Search. You can create different profiles and assign them to different groups in the Google domain as part of an endpoint policy.

Adding a new Chromebook profile

When you enable Chromebook management on EMS, EMS creates default Web Filter and System Settings profiles for Chromebooks. By default, EMS includes these profiles in the default Chromebook policy, which it applies to any Google domains you add to FortiClient EMS.

You can add new Chromebook profiles to deploy different settings to Chromebook endpoints.



Adding Yandex search engine to the blocklist in the profile is recommended.

To add a new profile:

1. Go to *Endpoint Profiles*.
2. Go to *Web Filter* or *System Settings*.
3. Click *Add*, then click *Add Chrome Profile*.
4. Configure the profile as desired.
5. Click *Save*.

Enabling and disabling Safe Search

The search engine provides a Safe Search feature that blocks inappropriate or explicit images from search results. The Safe Search feature helps avoid most adult content. FortiClient EMS supports Safe Search for most common search engines, such as Google, Yahoo, and Bing.

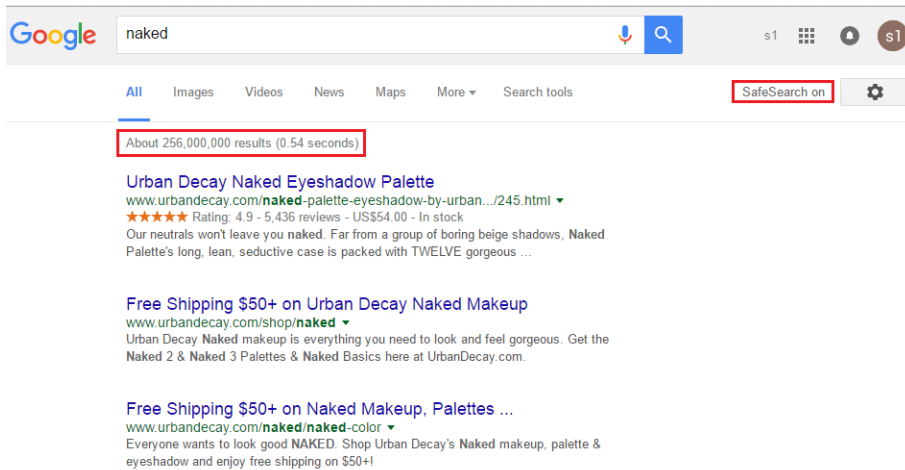
The profile in FortiClient EMS controls the Safe Search feature.

Following are examples of search results with the Safe Search feature disabled and enabled. Notice the difference between the number of results. Here are the search results when the Safe Search feature is disabled, which has about 285000000 results:

A screenshot of a Google search page for the query "naked". The search bar shows "naked" and the search button is blue. Below the search bar, the "All" tab is selected. A red box highlights the text "About 285,000,000 results (0.40 seconds)". Below this, three search results are visible:

- Urban Decay Naked Eyeshadow Palette**
www.urbandecay.com/naked-palette-eyeshadow-by-urban.../245.html
★★★★★ Rating: 4.9 - 5,436 reviews - US\$54.00 - In stock
Our neutrals won't leave you naked. Far from a group of boring beige shadows, Naked Palette's long, lean, seductive case is packed with TWELVE gorgeous ...
- Top 10 Naked And Afraid Moments of 2015 - Discovery**
www.discovery.com/.../naked.../top-10-naked-and-afraid-moments-of-2...
These are the most watched Naked And Afraid (and Naked And Afraid XL) video clips of 2015!
- Naked Magazine Covers: Rihanna, Lady Gaga & More Go ...**
www.billboard.com/.../naked-magazine-covers-rihanna-lady-gaga-mado...
Mar 17, 2016 - 2016: All-Access Photos from Paramore's Second Voyage! ... Rita Ora shows she's got nothing to be ashamed of on a 2016 cover of Lui magazine. ... Taylor Kinney snaps a selfie of himself and Lady Gaga for the 2016 Spring preview issue of V

Here are the search results when the Safe Search feature is enabled, which has about 256000000 results.



To enable or disable Safe Search:

1. In FortiClient EMS, in the *Endpoint Profiles > Manage Profiles* area, click the *Default - Chromebooks* profile or another profile.
2. On the *Web Filter* tab, enable or disable *Enable Safe Search*.

You can enable Safe Search on the Video Filter and Web Filter profiles. When Safe Search is enabled on both profiles, the more restrictive settings are applied to YouTube

Adding a Chromebook policy

1. Go to *Chromebook Policy > Manage Chromebook Policies*.
2. Click *Add*.
3. Complete the following fields:

Chromebook policy name	Enter the desired name for the Chromebook policy.
Google domains	Select the Google domain to apply the policy to. Domains for which an endpoint policy has already been created are grayed out and you cannot select them.
Chromebook profile	Include a Chromebook profile in the policy. From the dropdown list, select the desired profile. You must have already created a profile to include one in an endpoint policy. See Adding a new Chromebook profile on page 54 .
Comments	Enter any comments desired for the endpoint policy.
Enable the policy	Toggle to enable or disable the endpoint policy. You can enable or disable the policy at a later time from <i>Endpoint Policy & Components Manage Policies</i> .

4. Click *Save*. You can view the newly created policy on the *Chromebook Policy > Manage Chromebook Policies* page.
EMS pushes these settings to the endpoint with the next Telemetry communication.

Viewing domains

After you add domains to FortiClient EMS, you can view the list of domains in *Google Domains*. You can also view the list of Google users in each domain and details about each Google user in the *User Details*, *Client Statistics*, and *Blocked Sites* panes.

Viewing the Google Users pane

To view the Google Users pane:

You can view Google user information in FortiClient EMS.

1. Go to *Google Domains* > *Domains* and click a domain. The list of Google users displays.

Google Users						Clear Filters	Refresh
Name	Email	Last Login	Last Policy Retr	Domain	Organization Path		
Art3 Sikes	art3.sikes@s...	8/4/2016 1:1...	Never Retri...	schoolz...	/Young Lady's School/staff/admin		
bob bob	bob.bob@ys...	8/6/2016 1:0...	Never Retri...	schoolz...	/test		
Catherine Seely	Catherine.Se...	7/25/2016 9:...	Never Retri...	schoolz...	/Young Stars School		
Dean Cagle	Dean.Cagle...	8/5/2016 10:...	Never Retri...	schoolz...	/Young Lady's School/staff/admin		
Dennis Auger	Dennis.Auger...	7/15/2016 9:...	Never Retri...	schoolz...	/Young Lady's School/students...		
Edgar Bayles	Edgar.Bayles...	8/9/2016 12:...	Never Retri...	schoolz...	/Young Stars School/students/...		
Efrain2 Tague	Efrain2.Tagu...	8/2/2016 10:...	Never Retri...	schoolz...	/Young Stars School/students/...		
Emilio Freitag	emilio.freitag...	7/25/2016 9:...	Never Retri...	schoolz...	/Young Lady's School/students...		
Garry Heinrich	Garry.Heinric...	8/3/2016 8:2...	Never Retri...	schoolz...	/Young Lady's School/staff/admin		
Gerard Rhoa...	gerard.rhoad...	7/14/2016 11...	Never Retri...	schoolz...	/Young Lady's School/staff		
jiaping xu	jpxu@school...	8/9/2016 6:4...	Never Retri...	schoolz...	/		
Joey Albrecht	joey.albrecht...	8/2/2016 10:...	Never Retri...	schoolz...	/Young Lady's School/staff		
KeriNew Coc...	Keri.Cochran...	8/4/2016 1:1...	Never Retri...	schoolz...	/Young Lady's School/test		
Leann Bast	Leann.Bast@...	8/9/2016 12:...	Never Retri...	schoolz...	/Young Stars School/students/...		

The following options are available in the toolbar:

Clear Filters	Clear the currently used filter(s).
Refresh	Refresh the page.

The following columns of information display for Google users:

Name	Chromebook user's name.
------	-------------------------

Email	Chromebook user's email address.
Last Login	Date and time the user last logged into the domain.
Last Policy Retrieval	Date and time that the Google Chromebook last retrieved the endpoint profile.
Domain	Name of the domain to which the user belongs.
Organization Path	Organization path in the domain.

Viewing user details

You can view details about each user in a Google domain.

To view user details:

1. Go to *Google Domains > Domains*. The list of domains displays.
2. Click a domain. The list of Google users displays.
3. Click a Google user and scroll to the bottom of the content pane. The *User Details*, *Client Statistics*, and *Blocked Sites* panes display.

User Details

Field	Information
Name	Username.
Email	User's email address.
Last Login	Date and time the user last logged into the domain.
Last Policy Retrieval	Date and time that the Google Chromebook last retrieved the endpoint profile.
Organization Path	Organization path of the user in the domain.
Effective Policy	Name of the Chromebook policy assigned to the user in the domain.

Client Statistics

Charts	Information
Blocked Sites Distribution (past <number> days)	Displays the distribution of blocked sites in the past number of days. You can configure the number of days for which to display information. Go to <i>System Settings > Logs</i> .
Top 10 Site Categories by Distribution (Past <number> Days)	Displays the distribution of top ten site categories in the past number of days. You can configure the number of days for which to display information. Go to <i>System Settings > Logs</i> .

Blocked Sites (Past <number> Days)

Fields	Information
Time	Time that the user visited the blocked site.
Threat	Threat type that FortiClient detected.
Client Version	Chromebook user's current version.
OS	Type of OS that the Chromebook user used.
URL	Blocked site's URL.
Port	Port number currently listening.
User Initiated	Whether the user initiated visitation to the blocked site.

Change log

Date	Change description
2024-08-29	Initial release.



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