



# FortiClient EMS - QuickStart Guide

Version 6.2.2

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FortiClient EMS 6.2.2 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](#).

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## Supported installation platforms

You can install FortiClient EMS on Microsoft Windows Server 2012 R2 or newer.



For information about minimum system requirements and supported platforms, see the [FortiClient EMS Release Notes](#).

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## 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
- G Suite account
- Knowledge of administering the Google Admin console
- A domain configured in the Google Admin console
- SSL certificate to support communication between FortiClient Web Filter extension and FortiClient EMS
- SSL certificate to support communication between FortiClient Web Filter extension and FortiAnalyzer for logging, if using
- Unique set of service account credentials

## Required services and ports

You must ensure required ports and services are enabled 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
Samba (SMB) service	FortiClient EMS uses the SMB service during FortiClient initial deployment.	TCP	445	Outgoing	N/A
Distributed Computing Environment / Remote Procedure Calls (DCE/RPC)	The FortiClient EMS server connects to endpoints using RPC for FortiClient initial deployment.	TCP	135	Outgoing	N/A
AD server connection	Retrieving workstation and user information	TCP	389 (LDAP) or 636 (LDAPS)	Outgoing	GUI
FortiClient download	Downloading FortiClient deployment packages created by FortiClient EMS	TCP	10443 (default)	Incoming	Installer
Apache/HTTPS	Web access to FortiClient EMS	TCP	443	Incoming	Installer
FortiGuard	FortiGuard AV, vulnerability, and application version updates	TCP	80	Outgoing	N/A
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
FSSO	Connection to FortiOS.	TCP	8000	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)	Incoming	GUI

Communication	Usage	Protocol	Port	Incoming/Outgoing	How to customize
			You can customize this port.		
G suite API/Google domain directory	Retrieving Google domain information using API calls	TCP	443	Outgoing	N/A

The following ports and services should be enabled 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
FortiAnalyzer	Sending logs to FortiAnalyzer	TCP	8443	Outgoing	N/A

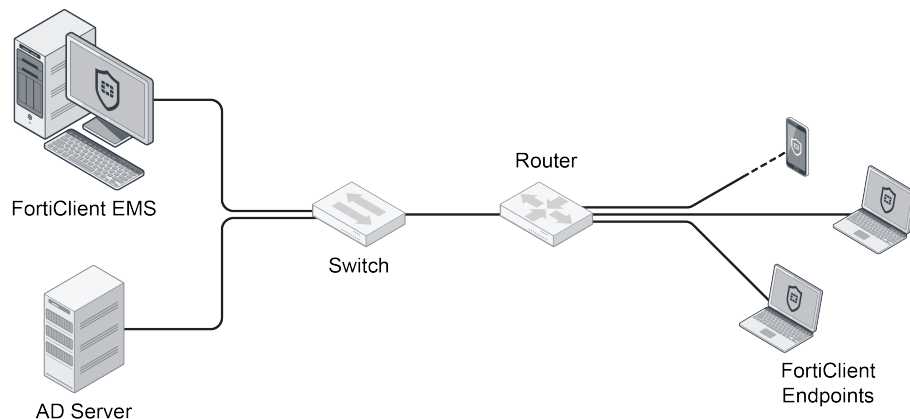


For the list of required services and ports for FortiClient, see the [FortiClient Administration Guide](#).

## Deployment options

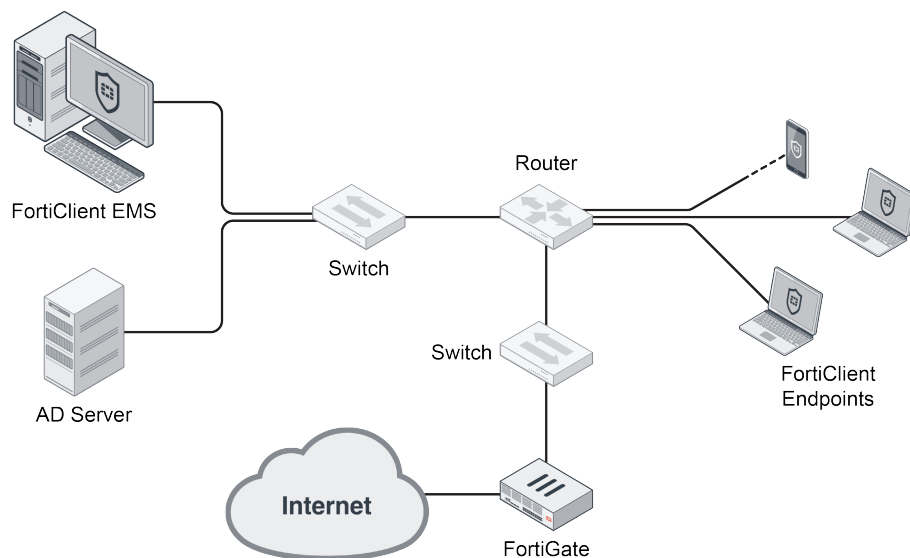
The following deployment options for FortiClient EMS are supported: standalone or integrated with FortiGate.

## Standalone



In standalone mode, a FortiGate is not required. In standalone mode, EMS deploys FortiClient software on endpoints, and FortiClient endpoints connect FortiClient Telemetry to EMS to receive configuration information from EMS. EMS also sends compliance verification rules to FortiClient, and use the results from FortiClient to dynamically group endpoints in EMS. EMS is used to deploy, configure, and monitor FortiClient endpoints.

## Integrated with FortiGate



In integrated mode, a FortiGate is required, and NAC is supported. In this scenario, FortiClient Telemetry connects to EMS to receive a profile of configuration information as part of an endpoint policy and to FortiGate to participate in the Fortinet Security Fabric. The FortiGate can also receive dynamic endpoint group lists from EMS and use them to build dynamic firewall policies. Depending on the EMS compliance verification rules and policies configured in FortiOS, the FortiClient endpoint may be blocked from accessing the network.



## Chromebook setup

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

### Install preparation for managing Chromebooks

#### G Suite account

You need to sign up for your G Suite account before you can use the Google service and manage your Chromebook users.

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

You can sign up for a G Suite 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 FortiClient EMS is installed 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 for Chromebook endpoints on page 45](#). You do not need to add the root certificate to the Google Admin console.

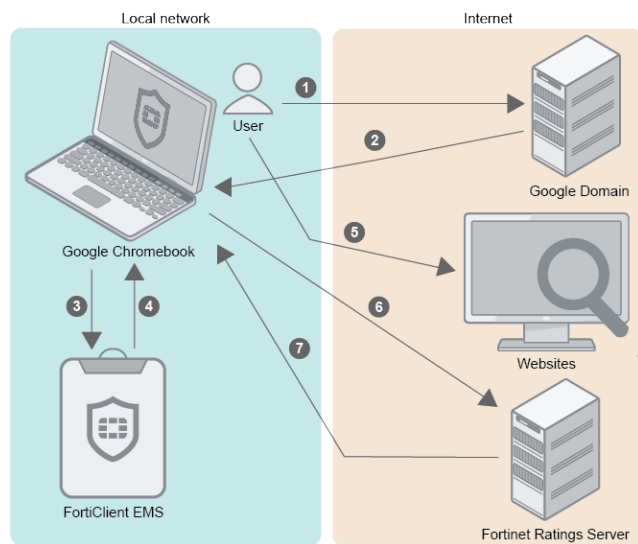
If you are using a self-signed certificate (non-public SSL certificate), your certificate's *Subject Alternative Name* must include `DNS:<FQDN>`, for example, `DNS:ems.forticlient.com`. You must add the SSL certificate to FortiClient EMS and the root certificate to the Google Admin console to allow the extension to trust FortiClient EMS. See [Adding root certificates on page 35](#).

### 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 11](#).
2. Install FortiClient EMS. See [Installing FortiClient EMS on page 11](#).
3. Start FortiClient EMS and log in. See [Starting FortiClient EMS and logging in on page 14](#).

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](#).

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## 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\_6.2.2.<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



Local administrator rights and Internet access are required to install FortiClient EMS.

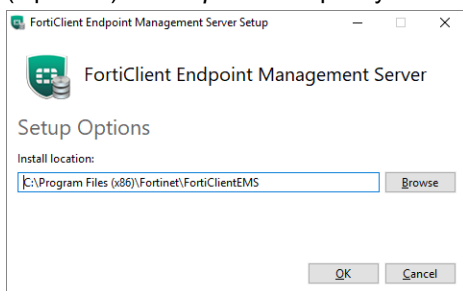
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1. If you are logged into the system as an administrator, double-click the downloaded installation file.  
If you are not logged in as an administrator, right-click the installation file, and select *Run as administrator*.

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.

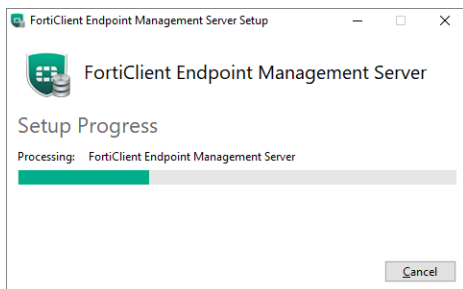


4. (Optional) Click **Options** to specify a custom directory for the FortiClient EMS installation.

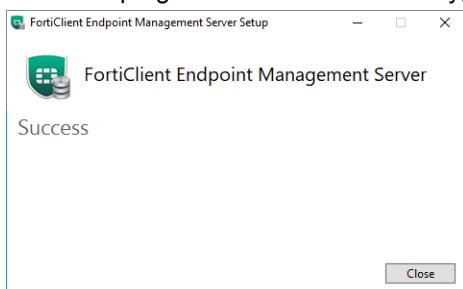


- a. Click **Browse** to locate and select the custom directory.
  - b. Click **OK** to return to the installation wizard.
5. Click **Install**.

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 FortiClient EMS

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

### To apply a trial license to FortiClient EMS:

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

1. In EMS, in the *License Information* widget, click *Add* beside *FortiCare Support Account*.
2. In the *FortiCare Support Registration* dialog, enter your FortiCare account credentials. If you do not have a FortiCare account, create one.
3. Read and accept the license agreement terms.
4. Click *Login & Start Trial*. If your FortiCare account is eligible for an EMS trial license, the *License Information* widget updates with the trial license information, and you can now manage ten Windows, macOS, and Linux endpoints and ten Chromebook endpoints for 30 days.

### To apply a paid license to FortiClient EMS:

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

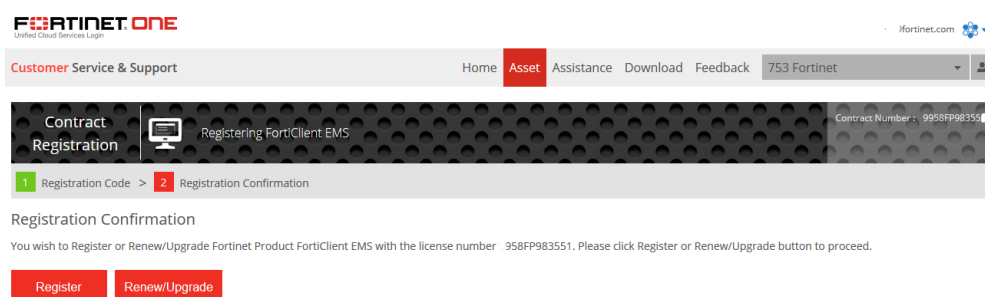
1. Log into your FortiCare account on [Customer Service & Support](#).
2. On your FortiCare account, register the EMS installation.
3. Register your FortiClient licenses on your FortiCare account.

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 a Fabric Agent license to your EMS server, you can apply another license type, such as a Chromebook license, to the same EMS server.

When applying an additional license type, you must select *Renew/Upgrade* on the contract registration screen, regardless of the license types of the first and subsequent licenses. Selecting *Renew/Upgrade* 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/Upgrade* creates an additional license file instead of combining the new license with the existing license(s). You will not be able to have the new license and existing licenses both applied to the same EMS server.



4. License FortiClient EMS:
  - a. Go to *Administration > Configure License*.
  - b. For *License Source*, select *FortiCare*.
  - c. In the *Account ID/Email* field, enter your FortiCare account ID or email address.
  - d. In the *Password* field, enter your FortiCare account password.
  - e. 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 FortiCare.



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.

## Starting FortiClient EMS and logging in

FortiClient EMS runs as a service on Windows computers.

### To start FortiClient EMS and log in:

1. Double-click the *FortiClient Endpoint Management Server* icon.
2. By default, the *admin* user account has no password. Sign in with the username *admin* and no password.
3. EMS now directs you to add a password for increased security. Change the password following the rules shown. Click *Save*.

4. Configure FortiClient EMS by going to *System Settings*.



If you do not add the *admin* password upon initial login, EMS directs you to add a password each time the *admin* user account logs in.

## Accessing FortiClient EMS remotely

You can access FortiClient EMS remotely using a web browser instead of the GUI.

### To enable remote access to FortiClient EMS:

1. Go to *System Settings > Server*.
2. Enable *Remote HTTPS access*.
3. If desired, in the *Custom hostname* field, enter the hostname or IP address. Otherwise, the *Pre-defined hostname* is used.
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.

When FortiClient EMS is integrated with FortiGate, you can use Telemetry gateway lists to help FortiClient endpoints connect to FortiClient EMS and FortiGate.

## FortiClient EMS

Following is a summary of how to use FortiClient EMS without FortiGate:

1. Configure user accounts. See [Configuring user accounts on page 18](#).
2. Add domains and/or discover local endpoints. See [Adding endpoints on page 18](#)
3. Create a Telemetry gateway list. See [Creating a Telemetry gateway list on page 19](#).
4. Add a FortiClient deployment package to EMS. See [Adding a FortiClient deployment package on page 20](#).
5. Create an endpoint profile and select a FortiClient deployment package. See [Creating a profile to deploy FortiClient on page 22](#).



FortiClient EMS can deploy FortiClient (Windows) to AD endpoints that do not have FortiClient installed, as well as upgrade existing FortiClient installations if the endpoints are already connected to the EMS server. To allow initial deployment, EMS must be able to resolve the endpoint IP address via the DNS configured on the server.



You can use with workgroups only to upgrade FortiClient (Windows) on endpoints after they connect Telemetry. When using workgroups, you must separately install FortiClient (Windows) on endpoints.



You can use FortiClient EMS to replace, upgrade, and uninstall FortiClient (macOS) after they connect Telemetry to EMS and FortiClient connects to FortiClient EMS. You cannot use FortiClient EMS to initially deploy FortiClient (macOS) and must separately install it on endpoints. See the [FortiClient EMS Administration Guide](#).

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6. (Optional) Configure on-net detection rules if you want to apply different profiles depending on its on-net/off-net status. See [On-net Detection Rules on page 24](#).
  7. Prepare Windows endpoints for FortiClient deployment. See [Preparing Windows endpoints for FortiClient deployment on page 26](#).  
You must also prepare the Windows AD server for deployment. See the [FortiClient EMS Administration Guide](#).
  8. Create an endpoint policy configured with the desired endpoint profile. Configure the endpoint policy for the desired workgroup, domain, endpoint group, or organizational group. See [Adding an endpoint policy on page 26](#).  
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.

9. View the endpoint status. See [Viewing endpoints on page 28](#).

## FortiClient EMS integrated with FortiGate

Following is a summary of how to use FortiClient EMS when integrated with FortiGate:

1. Configure user accounts. See [Configuring user accounts on page 18](#).
2. Add domains and/or discover local endpoints. See [Adding endpoints on page 18](#)
3. Create Telemetry gateway lists. See [Creating a Telemetry gateway list on page 19](#).
4. Add a FortiClient deployment package to EMS. See [Adding a FortiClient deployment package on page 20](#).
5. Create an endpoint profile and select a FortiClient deployment package. See [Creating a profile to deploy FortiClient on page 22](#).



FortiClient EMS can deploy FortiClient (Windows) to AD endpoints that do not have FortiClient installed, as well as upgrade existing FortiClient installations if the endpoints are already connected to the EMS server. To allow initial deployment, EMS must be able to resolve the endpoint IP address via the DNS configured on the server.



You can use with workgroups only to upgrade FortiClient (Windows) on endpoints after they connect Telemetry to EMS. When using workgroups, you must separately install FortiClient (Windows) on endpoints.



You can use FortiClient EMS to replace, upgrade, and uninstall FortiClient (macOS) after they connect Telemetry to EMS and FortiClient connects to FortiClient EMS. You cannot use FortiClient EMS to initially deploy FortiClient (macOS) and must separately install it on endpoints. See the [FortiClient EMS Administration Guide](#).

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6. Prepare Windows endpoints for FortiClient deployment. See [Preparing Windows endpoints for FortiClient deployment on page 26](#).  
You must also prepare the Windows AD server for deployment. See the [FortiClient EMS Administration Guide](#).
  7. Create an endpoint policy configured with the desired endpoint profile and Telemetry gateway list. Configure the endpoint policy for the desired workgroup, domain, endpoint group, or organizational group. See [Adding an endpoint policy on page 26](#).  
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.
  8. View the endpoint status. See [Viewing endpoints on page 28](#).

## Configuring user accounts

You can configure users to have no access or administrator access to FortiClient EMS. You can configure EMS users, local Windows users, LDAP users, or local Windows users and LDAP users.

For EMS users, you create a new user account from EMS.

For local Windows users, the user list is derived from the server where FortiClient EMS is installed. If you want to add more users, you must add them to the server.

For LDAP users, you must add an LDAP server to FortiClient EMS, then configure users.

### To add an LDAP server:

1. Go *Administration > User Servers*. Click *Add*.
2. Configure the options, and click *Test*.
3. If the test is successful, click *Save*.

### To configure users:

1. Go to *Administration > Administrators*.
2. Click *Add* from the toolbar.
3. In the *User* list, select *Choose from LDAP/Windows users* or *Create a new user*.
4. Configure the user's administrator role. See the [FortiClient EMS Administration Guide](#).
5. Select the user's specific domain access.
6. Click *Save*.

## Adding endpoints

You can manually import endpoints from an AD server. You can import and synchronize information about computer accounts with an LDAP or LDAPS service. You can add endpoints by identifying endpoints that are part of an AD domain server.



A video on how to add a domain is available in the [Fortinet Video Library](#).



You can add the entire domain or an OU from the domain.

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### To add endpoints using an AD domain server:

1. Go to *Endpoints > Manage Domains > Add*. The *Domain* pane displays.
2. Configure the following options:

IP address/Hostname	Enter the domain server IP address or hostname.
Port	Enter the port number.
Distinguished name	Enter the distinguished name (DN) (optional). You must use only capital letters when configuring the DN.
Bind type	Select the bind type: <i>Simple</i> , <i>Anonymous</i> , or <i>Regular</i> . When you select <i>Regular</i> , you must enter the <i>Username</i> and <i>Password</i> .
Username	Available when <i>Bind type</i> is set to <i>Regular</i> . Enter the username.
Password	Available when <i>Bind type</i> is set to <i>Regular</i> . Enter the user password.
Show Password	Available when <i>Bind type</i> is set to <i>Regular</i> . Turn on and off to show or hide the password.
LDAPS connection	Enable a secure connection protocol when <i>Bind Type</i> is set to <i>Regular</i> .
Sync every	Enter the sync schedule between FortiClient EMS and the domain in minutes. The default is ten minutes.

3. Click *Test* to test the domain settings connection.
4. If the test is successful, select *Save* to save the new domain. If not, correct the information as required, then test the settings again.



After importing endpoints from an AD server, you can edit the endpoints. These changes do not sync back to the AD server.

## Creating a Telemetry gateway list

You can create a Telemetry gateway list that contains IP addresses for one or multiple FortiGates. FortiClient searches for IP addresses in its subnet in the Telemetry gateway list and connects to the FortiGate in the list that is in the same subnet as the host system.

If FortiClient cannot find any FortiGates in its subnet, it attempts to connect to the first reachable FortiGate in the list, starting from the top. FortiClient maintains the list order as configured in the Telemetry gateway list.

### To create a Telemetry gateway list:

1. Go to *Telemetry Gateway Lists > Manage Telemetry Gateway Lists*.
2. Click the *Add* button.

## 3. Configure the following:

<b>Name</b>	Enter the list name.
<b>Comment</b>	Enter additional comments (optional).
<b>Connect to local subnets only</b>	Only allow connection to local subnets.
<b>Use connection key</b>	Enable the connection key endpoints can use to connect to FortiGates.
<b>New connection key</b>	Enter the connection key.
<b>Confirm new connection key</b>	Reenter the connection key to confirm.
<b>Managed by EMS</b>	Select an option from the dropdown list. Users can configure this IP address in <i>System Settings &gt; Server</i> .
<b>Notify FortiGate</b>	Enter the IP address(es) or hostname(s) of the FortiGates. You can also use an FQDN. Press the <i>Enter</i> key to add additional entries.

4. Click **Save**.

## Adding a FortiClient deployment package

When you create a FortiClient deployment package in FortiClient EMS, you can specify what FortiClient features to include in the deployment package for the endpoint. You can include a feature in the deployment package, then disable the feature in the profile. Because the feature is included in the deployment package, you can update the profile later to enable the feature on the endpoint.

For example, consider that you create a deployment package that has SSL VPN and IPsec VPN enabled. You then assign the deployment package to a profile where VPN is disabled. The endpoints that you deploy the profile to will have VPN disabled. At a later time, if you enable VPN on the profile, the endpoints will then have VPN enabled, since you included it in the 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 *Manage Installers > Deployment Packages*.
2. Click *Add*.
3. On the *Version* tab, set the following options:

<b>Installer Type</b>	Use an official or custom FortiClient installer. See <a href="#">FortiClient installers</a> .
-----------------------	-----------------------------------------------------------------------------------------------

<b>Release</b>	Select the FortiClient release version to install.
<b>Patch</b>	Select the specific FortiClient patch version to install.
<b>Keep updated to the latest patch</b>	Enable FortiClient to automatically update to the latest patch release when FortiClient is installed on an endpoint.

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

<b>Name</b>	Enter the FortiClient deployment package name.
<b>Notes</b>	(Optional) Enter notes about the FortiClient deployment package.

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

<b>Security Fabric Agent</b>	Enabled by default and cannot be disabled. Installs FortiClient with Telemetry and Vulnerability Scan enabled.
<b>Secure Access Architecture Components</b>	<p>Install FortiClient with SSL and IPsec VPN enabled. Disable to omit SSL and IPsec VPN support from the FortiClient deployment package.</p> <p>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.</p> <p>See <a href="#">VPN</a> for details on configuring a VPN tunnel.</p>
<b>Advanced Persistent Threat (APT) Components</b>	Install FortiClient with APT components enabled. Disable to omit APT components from the FortiClient deployment package. Includes FortiSandbox detection and quarantine features.
<b>Additional Security Features</b>	<p>Enable any of the following features:</p> <ul style="list-style-type: none"> <li>• AntiVirus</li> <li>• Web Filtering</li> <li>• Application Firewall</li> <li>• Single Sign-On mobility agent</li> <li>• Cloud Based Malware Outbreak Detection. This feature is available for FortiClient 6.2.0 and later versions.</li> </ul> <p>Disable to exclude features from the FortiClient deployment package.</p>

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






<b>Enable automatic registration</b>	Configure FortiClient to automatically connect Telemetry to FortiClient EMS after FortiClient installs on the endpoint. Disable to turn off this feature and require endpoint users to manually connect Telemetry to FortiClient EMS.
<b>Enable desktop shortcut</b>	Configure the FortiClient deployment package to create a desktop shortcut on the endpoint.

<b>Enable start menu shortcut</b>	Configure the FortiClient deployment package to create a Start menu shortcut on the endpoint.
<b>Enable Installer ID</b>	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 <i>Group Path</i> field. FortiClient EMS automatically groups endpoints according to installer ID group assignment rules.
<b>Enable Endpoint Profile</b>	Select an endpoint profile to include in the installer. EMS applies the 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, or if users require VPN connection to connect to EMS.

7. Click *Next*. The *Telemetry* tab displays the hostname and IP address of the FortiClient EMS server, which will manage FortiClient once it is installed on the endpoint. Also configure the following option:

<b>Enable telemetry connection to Security Fabric (FortiGate)</b>	Enable this option, and select the name of the gateway list to use. The gateway list defines the IP address for the FortiGate. If you have not created a gateway list, this option is not available.
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

8. Click *Finish*. The FortiClient deployment package is added to FortiClient EMS and displays on the *Manage Installers > Deployment Packages* pane. The deployment package may include .exe (32-bit and 64-bit), .msi, and .dmg files depending on the configuration. The following shows an example of a deployment package that includes .exe, .msi, and .dmg files. The end user can download these files to install FortiClient on their machine with the desired configuration.

Name	Last modified	Size
 Parent Directory		-
 msi/	2019-04-29 15:00	-
 FortiClient_6.2.0.DMG	2019-04-29 15:21	76M
 FortiClientSetup_6.2.0_x64.exe	2019-04-29 15:22	108M
 FortiClientSetup_6.2.0_x86.exe	2019-04-29 15:21	90M



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

## Creating a profile to deploy FortiClient

Installing FortiClient EMS creates a default profile. EMS applies this profile to any groups that you create. The default profile is designed to provide effective levels of protection. To use specific features, such as application firewall, create a new profile or change the default profile.

Consider the following when creating profiles:

- Use default settings within a profile.
- Consider the endpoint's role when changing the default profile or creating new profiles.

- Create a separate group and profile for endpoints requiring long-term special configuration.
- Use FortiClient EMS for all central profile settings, and set options for within the group instead of for the endpoint itself when possible.

You must create a new profile to deploy FortiClient to endpoints. You cannot add a FortiClient deployment package to the default profile.

You must add FortiClient deployment packages to FortiClient EMS before you can select the deployment packages in a profile. See [Adding a FortiClient deployment package on page 20](#).

The selected FortiClient deployment package in a profile controls what tabs display for configuration in the profile. Only the tabs for the features in the selected deployment package display for configuration in the profile. For example, if the deployment package includes only the VPN feature, only the *VPN* tab displays for you to configure. The *System Settings* tab always displays.

You can disable a feature included in the deployment package, then enable the feature in the profile later. For example, if the deployment package includes the Web Filter and VPN features, you can disable the Web Filter feature and keep the VPN feature enabled. When FortiClient is installed on the endpoint, the Web Filter is installed, but disabled.

### To create a profile to deploy FortiClient:

1. Go to *Endpoint Profiles > Manage Profile*, and click the *Add* button.
2. On the *Deployment* tab, enable *FortiClient Deployment*. The FortiClient deployment options display.
3. Set the following options on the *Deployment* tab:

Action		
Action		Click <i>Install</i> .
Deployment Package		<p>In the <i>Deployment Package</i> list, select the desired FortiClient deployment package.</p> <p>The selected FortiClient deployment package affects what tabs display for configuration. Only tabs related to features enabled in the FortiClient deployment package display for configuration.</p>
Schedule		
Start At		Specify what time to start installing FortiClient on endpoints.
Reboot When Needed		Reboot the endpoint to install FortiClient when needed.
	Reboot when no users are logged in	Allow the endpoint to reboot without prompt if no endpoint user is logged into FortiClient.
	Notify users and let the user decide when to reboot when they are logged in	Notify the end user if a reboot of the endpoint is needed and allow the user to decide what time to reboot the endpoint. Disable to reboot the endpoint without notifying the user.
Credentials		

Username	Enter the username to perform deployment on AD. You must enter the admin credentials for the AD in the profile. Enter the appropriate credentials in the profile to assign to the AD. The credentials allow FortiClient EMS to install FortiClient on endpoints using AD. If the credentials are wrong, the installation fails, and an error displays in FortiClient EMS.
Password	Enter the password to perform deployment on AD.

4. Set the options on the remaining tabs.
5. Click **Save**.

## On-net Detection Rules

You can configure on-net detection rules for endpoints. EMS uses the rules to determine if the endpoint is on-net or off-net. Depending on the endpoint's on-net status, EMS may apply a different profile to the endpoint, as configured in the applied endpoint policy. See [Adding an endpoint policy on page 26](#).



On-net detection rules do not apply to endpoints running FortiClient 6.2.1 and earlier versions. For endpoints running FortiClient 6.2.1 and earlier versions, the *On-Net Subnets* setting in the endpoint profile determines on-net/off-net status. See [System Settings](#).

### To add an on-net detection rule:

1. Go to *Policy Components > On-net Detection Rules*.
2. Click **Add**.
3. In the *Name* field, enter the desired name.
4. Enable or disable the rule by toggling *Enable Rule* on or off.
5. In the *IP Addresses/Subnet Masks* field, enter the desired values. You can enter multiple values by clicking the + button.
6. (Optional) In the *Gateway MAC Addresses* field, enter the desired values. You can enter multiple values by clicking the + button.
7. Click **Save**.

### To edit an on-net detection rule:

1. Go to *Policy Components > On-net Detection Rules*.
2. Select the rule.
3. Click **Edit**.
4. Edit as desired.
5. Click **Save**.



**To delete an on-net detection rule:**

1. Go to *Policy Components > On-net Detection Rules*.
2. Click the desired rule.
3. Click *Delete*.
4. In the confirmation dialog, click *Yes*.

**To enable/disable an on-net detection rule:**

1. Go to *Policy Components > On-net Detection Rules*.
2. Select or deselect the *Enabled* checkbox for the desired endpoint policy.

## Determining on-net/off-net status

There are two settings in EMS that affect FortiClient on-net/off-net status:

- *DHCP on-net/off-net*
- On-net detection rules configured for the endpoint's assigned policy. See [On-net Detection Rules on page 24](#).

The table below shows how the *DHCP on-net/off-net* setting, on-net detection rules, and Option 224 serial number affect the endpoint's on-net/off-net status. *DHCP on-net/off-net* only applies when the endpoint is connected to EMS. You can configure Option 224 with any Fortinet device's serial number. EMS assumes that FortiClient is behind a FortiGate and on-net with that FortiGate.

DHCP on-net/off-net	On-net detection rules	Option 224 serial number	Resulting endpoint status
Disabled	Not configured	N/A	Endpoint is on-net when registered to EMS.
Enabled	Not configured	Not configured	Endpoint is off-net when registered to EMS.
Enabled	Not configured	Configured	On-net Since Option 224 is configured with a Fortinet device's serial number, EMS assumes FortiClient is on-net with that FortiGate.
N/A	Enabled, with subnet configured. Endpoint IP address is in the configured subnet.	N/A	On-net The endpoint is inside the on-net networks configured in the applied endpoint policy's on-net detection rules.
N/A	Enabled, with subnet configured. Endpoint IP address is not in the configured subnet.	N/A	Off-net The endpoint is outside the on-net networks configured in the applied endpoint policy's on-net detection rules.

An endpoint has an offline off-net status when it cannot connect FortiClient Telemetry to EMS and is outside any of the on-net networks.

An endpoint has an offline on-net status when it cannot connect FortiClient Telemetry to EMS but is inside one of the on-net networks, or if no on-net rules are configured within the assigned policy.

## Preparing Windows endpoints for FortiClient deployment

You must enable and configure the following services on each Windows endpoint before deploying FortiClient:

- Task Scheduler: Automatic
- Windows Installer: Manual
- Remote Registry: Automatic



You must configure Windows Firewall to allow the following inbound connections:

- File and Printer Sharing (SMB-In)
- Remote Scheduled Tasks Management (RPC)

AD group deployments require an AD administrator account. For non-AD deployments, you can share the deployment package URL with users, who can then download and install FortiClient manually. You can locate the deployment package URL in *Manage Installers > Deployment Packages*.



When adding endpoints using an AD domain server, FortiClient EMS automatically resolves endpoint IP addresses during initial deployment of FortiClient. FortiClient EMS can deploy FortiClient (Windows) to AD endpoints that do not have FortiClient installed, as well as upgrade existing FortiClient installations if the endpoints are already connected to FortiClient EMS.

## Adding an endpoint policy

To add an endpoint policy:

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

<b>Endpoint policy name</b>	Enter the desired name for the endpoint policy.
<b>Endpoint domains</b>	Select the domains to apply the policy to.
<b>Endpoint workgroups</b>	Select the workgroups of endpoints to apply the policy to.
<b>Endpoint profile</b>	Include an endpoint profile in the policy. From the dropdown list, select the desired endpoint profile.

**Endpoint profile (Off-net)**

Include an endpoint profile in the policy to apply to the endpoint when it is off-net according to the on-net detection rules configured in this policy. For example, you may want to apply a more restrictive profile to the endpoint when it is determined to be off-net. From the dropdown list, select the desired endpoint profile.

If including an off-net profile in a policy, it is highly recommended to also include on-net detection rules in the policy. Otherwise, EMS may not apply on-net and off-net profiles as desired.

**On-Net Detection Rules**

Select the on-net detection rules to include in the policy. You can select multiple rules.

You must have already created on-net detection rules to include them in an endpoint policy. See [On-net Detection Rules on page 24](#).

**Telemetry gateway list**

Include a Telemetry gateway list in the policy. From the dropdown list, select the desired Telemetry gateway list.

You must have already created a Telemetry gateway list to include one in an endpoint policy. See [Creating a Telemetry gateway list on page 19](#).

**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 *Endpoint Policy > Manage Policies*.

4. Click **Save**. You can view the newly created policy on the *Endpoint Policy > Manage Policies* page.

FortiClient Endpoint Management Server									
	Name	Endpoint Groups	Endpoint Profile	Policy Components	Telemetry Gateway List	Usage Count	Priority	Enabled	
	Seattle_general	All Groups/Seattle	PROFILE Seattle_general OFF-NET Seattle_offnet	ON-NET a	FGT_Seattle_floor1	1	1	<input type="checkbox"/>	
	SF_general	All Groups/SF	PROFILE SF_general			1	2	<input checked="" type="checkbox"/>	
	Seattle_HR	All Groups/Seattle/HR	PROFILE Seattle_HR		FGT_Seattle_floor2	1	3	<input checked="" type="checkbox"/>	
	Default		PROFILE Default			0	4	<input checked="" type="checkbox"/>	

On the *Endpoints* pane, you can see that endpoints that belong to the All Groups/Seattle/HR group have the endpoint profile and Telemetry gateway list configured in the endpoint policy (Seattle\_HR and FGT\_Seattle\_floor2, respectively) applied:

FortiClient Endpoint Management Server

Dashboard

Endpoints

All Endpoints

0

Not Installed

0

Not Registered

0

Out-Of-Sync

0

Not Compliant

1

Security Risk

Scan

Patch

Move to

Action

Search All Fields

Filters

Manage Domains

Domains

WIN-1F3BOCJBRAM

All Groups/Seattle/HR

Administrator

10.0.4.102

Profile: Seattle\_HR

Telemetry Gateway List

FGT\_Seattle\_floor2

FortiTelemetry to FGVM000000145192

Managed by EMS

SYS

EMS pushes these settings to the endpoint with the next Telemetry communication.

In this example, endpoints in the All Groups/Seattle/HR group are applicable for the Seattle\_HR policy. If both the Seattle\_general policy (applied to the All Groups/Seattle group) and the Seattle\_HR policy (applied to the All Groups/Seattle/HR group) are enabled, EMS applies only the Seattle\_HR policy to the All Groups/Seattle/HR group, since the Seattle\_HR policy is the most specific policy that is applicable for that group. If the Seattle\_HR policy is disabled, EMS applies the Seattle\_general policy to endpoints in the All Groups/Seattle/HR group.

## 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 on the *Endpoints* pane.

#### 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.
Checkbox	Click 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> , <i>Status</i> , and <i>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 of the user logged into the endpoint.
IP	Visible when headings are displayed. Displays the endpoint's IP address.
Configurations	Visible when headings are displayed. Displays the name of the policy assigned to the endpoint and its synchronization status.

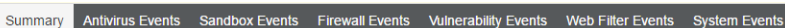
Connections	Visible when headings are displayed. Displays the connection status between FortiClient and FortiClient EMS. If the endpoint is connected to a FortiGate, displays the FortiGate hostname.
Events	Visible when headings are displayed. Displays FortiClient events for the endpoint.

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



Checkbox	Click to select and deselect all endpoints in the content pane. You can then select or clear the checkbox for individual endpoints to fine-tune the list of selected endpoints.
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"> <li>Selected Vulnerabilities on Selected Clients</li> <li>Selected Vulnerabilities on All Affected Clients</li> <li>All Critical and High Vulnerabilities</li> </ul>
Move to	Move the endpoint to a different group.
Action	Click to perform one of the following actions on the selected endpoint: <ul style="list-style-type: none"> <li>Request FortiClient Logs</li> <li>Request Diagnostic Results</li> <li>Update Signatures</li> <li>Download Available FortiClient Logs</li> <li>Download Available Diagnostic Results</li> <li>Re-register</li> <li>Deregister</li> <li>Register</li> <li>Quarantine</li> <li>Un-quarantine</li> <li>Exclude from Management</li> <li>Clear Events</li> <li>Mark as Uninstalled</li> <li>Delete Device</li> </ul>

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-net or off-net.
Host Verification Tags	Displays which tags have been applied to the endpoint based on the compliance verification rules. See <a href="#">Compliance Verification</a> .
Connection	Displays the connection status between the selected endpoint and FortiClient EMS and between the endpoint and FortiGate.
Configuration	Displays the following information for the selected endpoint: <ul style="list-style-type: none"> <li>• Policy: Name of the endpoint policy assigned to the selected endpoint</li> <li>• Profile: Name of the profile assigned to the selected endpoint</li> <li>• Off-net Profile: Name of the off-net profile assigned to the selected endpoint</li> <li>• Installer: Name of the FortiClient installer used for the selected endpoint. Displays <i>Not Assigned</i> if no FortiClient installer has been assigned to the selected endpoint.</li> <li>• Telemetry Gateway List: Name of the Telemetry gateway list used for the selected endpoint. Displays <i>Not Assigned</i> if no Telemetry gateway list has been assigned to the selected endpoint.</li> <li>• FortiClient Version: FortiClient version installed on the selected endpoint.</li> <li>• FortiClient Serial Number: Serial number for the selected endpoint's FortiClient license.</li> </ul>
Status	Displays one of the following statuses: <ul style="list-style-type: none"> <li>• Registered: Endpoint is registered to EMS.</li> <li>• 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.</li> <li>• Excluded: Endpoint is excluded from management by EMS.</li> </ul>
Features	Displays which features are enabled for FortiClient.

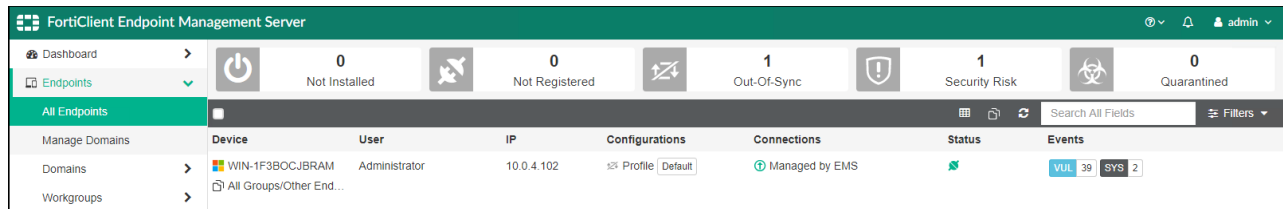
Antivirus Events		
Date	Displays the AV event's date and time.	
Count	Displays the number of occurrences for this event.	
Message	Displays the AV event's message.	
Sandbox Events		
Date	Displays the sandbox event's date and time.	
Message	Displays the sandbox event's message.	
Rating	Displays the file's risk rating as retrieved from FortiSandbox.	
Malware	Displays the malware name.	
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. See <a href="#">Viewing Sandbox event details</a> .	
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.	
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.	
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 <a href="#">FortiGuard</a> where further information is provided if available.	
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.	

## 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 44](#).
2. Add the Google domain. See [Adding a Google domain on page 46](#).
3. Create an endpoint profile. See [Adding a new profile on page 46](#).
4. Create an endpoint policy configured with the endpoint profile. See [Adding a Chromebook policy on page 48](#).
5. View the status. See [Viewing domains on page 48](#).

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:

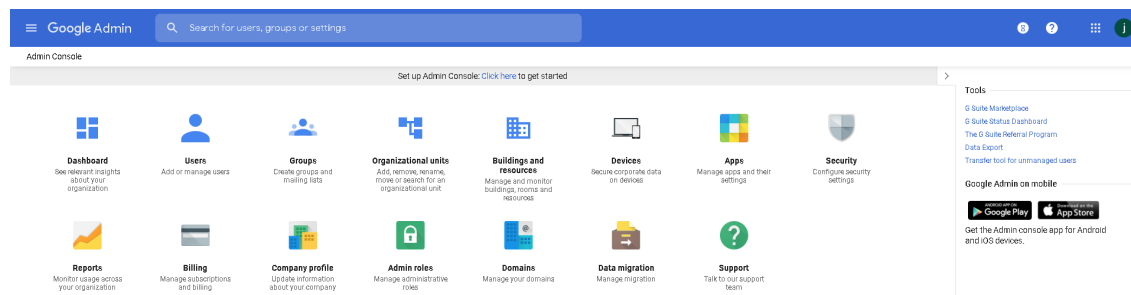
1. Log into the Google Admin console. See [Logging into the Google Admin console on page 33](#).
2. Add the FortiClient Web Filter extension. See [Adding the FortiClient Web Filter extension on page 34](#).
3. Configure the FortiClient Web Filter extension. See [Configuring the FortiClient Web Filter extension on page 34](#).
4. Add the root certificate. See [Adding root certificates on page 35](#).



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.



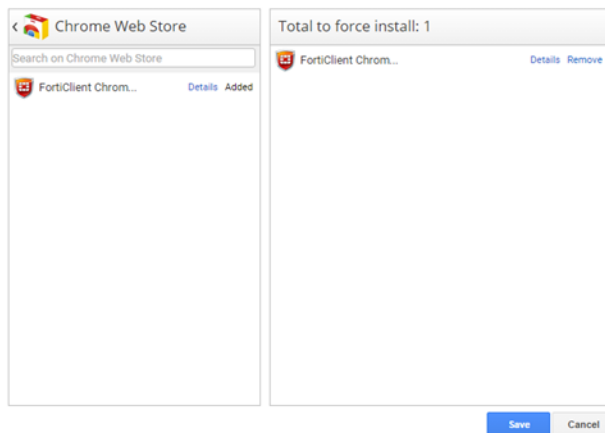
## Adding the FortiClient Web Filter extension



FortiClient EMS software is not available for public use. You can only enable the feature using the following extension ID: igbgpehnbmhdgjbhkkpedommgmfbear

1. In the Google Admin console, go to *Devices > Chrome Management > Settings > User & browser settings > 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. Under *Apps and Extensions*, beside *Force-installed Apps and Extensions*, click *Manage force-installed apps*.
4. Select *Chrome Web Store*, and search for the following extension ID: igbgpehnbmhdgjbhkkpedommgmfbear.
5. Click *Add*. The extension displays under *Total to force install: 1*. Click *SAVE*.

The selected apps and extensions will be automatically installed.



## 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.

1. In FortiClient EMS, locate the server name and port by going to *System Settings > Server*.
2. Create a text file that contains the following text:
 

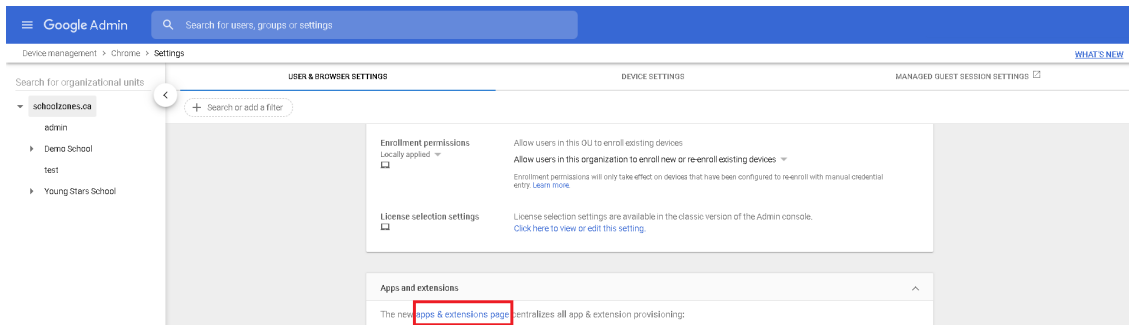
```
{
  "ProfileServerUrl": { "Value": "https://< ProfileServer >:< port for Profile Server >" }
}
```

 For example:
 

```
{
```

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

3. In the Google Admin console, go to *Devices > Chrome management > User & browser settings*.
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. Under *Apps and Extensions*, click the *apps & extensions page* link.



6. Click a domain or organizational unit (OU).
7. In the right pane, under *Policy for extensions*, paste the JSON content from step 2.
8. Click **Save**.
9. Go to *Devices > Chrome management > Apps & extensions* to view your configured Chrome apps.

## 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 for Chromebook endpoints on page 45](#).

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 will not work. See [Uploading root certificates to the Google Admin console on page 37](#).

### 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 ADOMs in FortiAnalyzer and add FortiClient EMS to FortiAnalyzer. FortiClient EMS is added as a device to the FortiClient 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. 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 will not work. See [Uploading root certificates to the Google Admin console on page 37](#).



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*.

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

## Uploading root certificates to the Google Admin console

1. In the Google Admin console, go to *Device management > Networks > Certificates*.
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

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

### To disable access to Chrome developer tools:

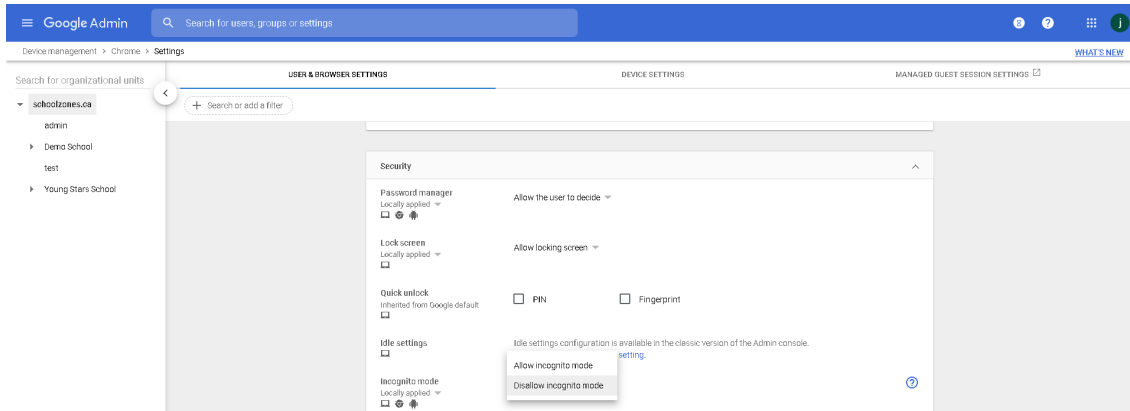
1. In the Google Admin console, go to *Devices > Chrome Management > User & browser settings*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.
3. For the *Developer 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 management > User & browser 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. 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:**

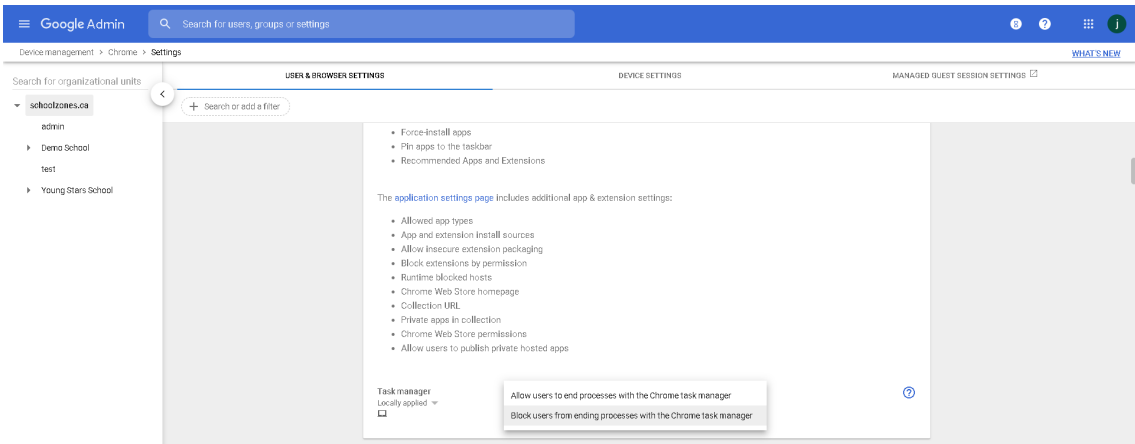
1. In the Google Admin console, go to *Devices > Chrome management > Device settings*.
2. On the left, select the organization that contains the desired users or enrolled browsers. To select all users and browsers, select the top-level organization. Otherwise, select a child.
3. Under *Sign-in settings*, 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 Management > User & browser settings > Apps and extensions*.
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 *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 [Adding service account credentials to the Google Admin console on page 43](#).

## Configuring unique service account credentials

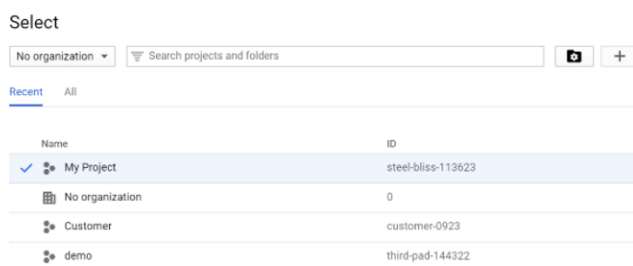
When using unique service account credentials for improved security, you must complete the following steps to add the unique service account credentials to the Google Admin console and FortiClient EMS:

1. Create unique service account credentials using the Google Developer console. See [Creating unique service account credentials on page 40](#).
2. Add the unique service account credentials to the Google Admin console. See [Adding service account credentials to the Google Admin console on page 43](#).
3. Add the unique service account credentials to FortiClient EMS. See [Adding service account credentials to EMS on page 44](#).

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



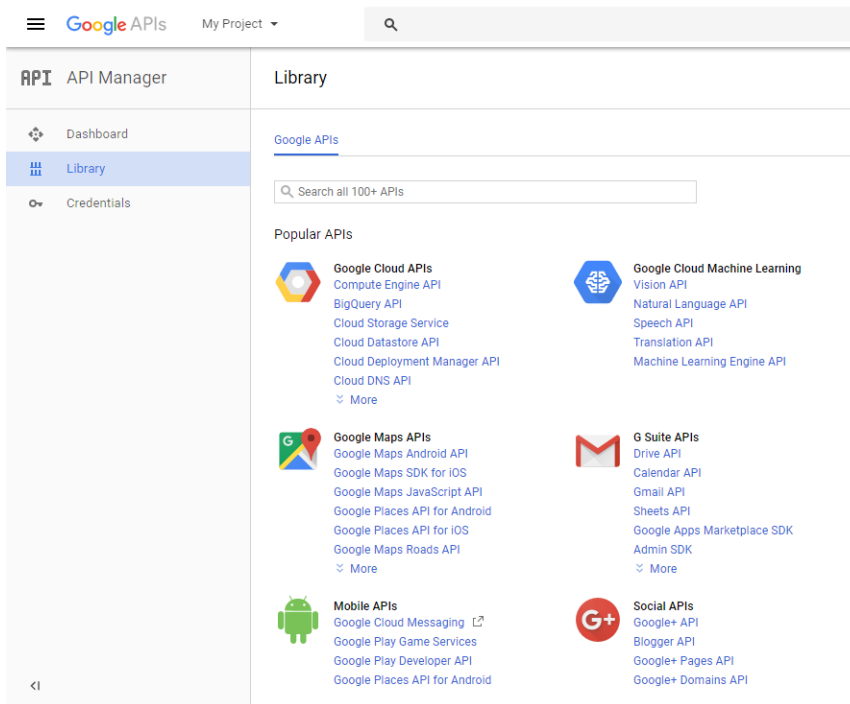
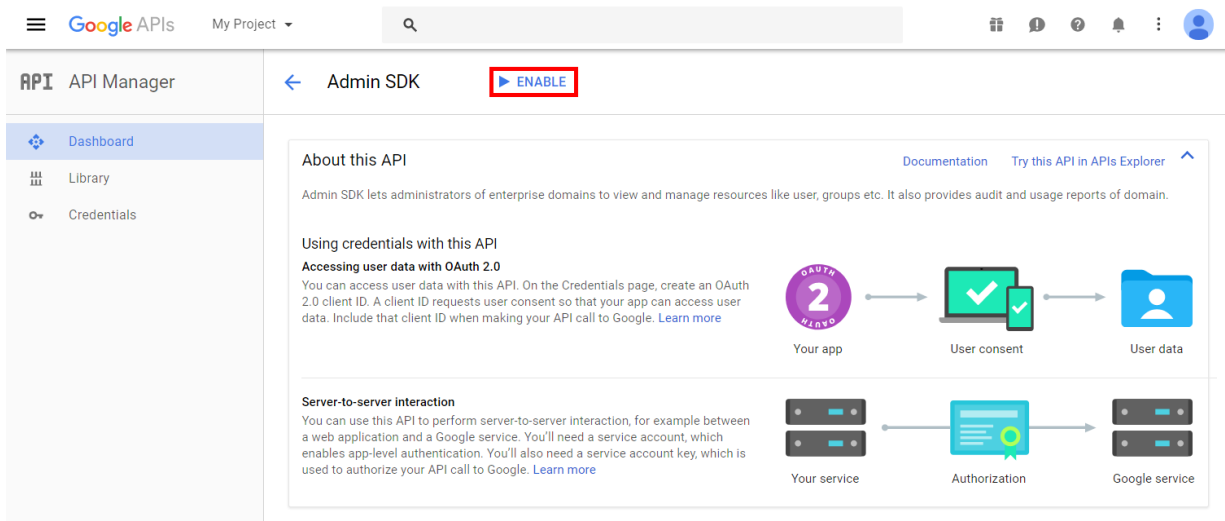
CANCEL OPEN

- b. Select your organization, if you see an organization dropdown list.
- c. Click the + button.
- d. In the *Project name* field, enter your project name, then click *Create*.



## 4. Enable the Admin SDK:

- Select your project from the toolbar list, then go to the *Library* tab.
- Under *G Suite APIs*, click *Admin SDK*.

c. Click *ENABLE*.

## 5. Create a service account:

- Go to the *Credentials* tab and select *Create Credentials > Service account key*.
- From the *Service account* list, select *New Service Account*. Enter a service account name.
- From the *Role* list, select *Project > Viewer*.

- d. Select *P12* as the *Key type* and click *Create*.

After you create the service account, a private key with the *P12* extension is saved on your computer.



The private key with the *P12* extension is the only copy you will 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**.

#### Service account and key created

New service account **test** has been created.

The account's private key **My Project 2-ac6fe25ed1ac.p12** has been saved on your computer. This is the only copy of the key, so store it securely.

This is the private key's password. It will not be shown again. You must present this password to use the private key. [Learn more](#)

notasecret

[CLOSE](#)

6. Go to the *Credentials* page > *Manage service accounts*.
7. *Edit* the service account you just created and select the *Enable Google Apps Domain-Wide Delegation* checkbox. Enter a *Product name for the consent screen* if this field appears.

## Edit service account

Service account name ?

test

☒ Enable G Suite Domain-wide Delegation

Allows this service account to be authorized to access all users' data on a G Suite domain without manual authorization on their part. [Learn more](#)

**i** To change settings for G Suite domain, product name for the OAuth consent screen must be configured. Assign the product name below or configure the OAuth consent screen.

Product name for the consent screen

Product name

[CANCEL](#) [SAVE](#) [CONFIGURE CONSENT SCREEN](#)

8. Click **Save**.
9. Click **View Client ID** to see your service account information. Record the client ID, service account, and the associated private key (downloaded in step 5d).

The screenshot shows the Google APIs console interface. On the left is a sidebar with 'API Manager' and a menu with 'Dashboard', 'Library', and 'Credentials'. The main area is titled 'Client ID for Service account client' and includes buttons for 'DOWNLOAD JSON' and 'DELETE'. A message states: 'Service account clients are created when domain-wide delegation is enabled on a service account.' Below this, a table shows the following details:

Client ID	115703365324425320868
Service account	test-410@voltaic-facet-170220.iam.gserviceaccount.com
Creation date	Jun 12, 2017, 1:58:28 PM

Below the table, there is a 'Name' field with the value 'Client for test-410' and 'Save' and 'Cancel' buttons.



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:

## Adding service account credentials to the Google Admin console

This section describes how to add the client ID from the service account credentials to the Google Admin console. These settings allow Google to trust FortiClient EMS, which enables FortiClient EMS to retrieve information from the Google domain.

1. In the Google Admin console, go to **Security > Advanced settings > Manage API client access**. You may need to click *show more* to see *Advanced settings*.

2. Set the following options:

- a. For the *Client Name* option, add the client ID from the service account credentials.
- b. For the *API Scopes* option, 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.

3. 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.

1. In FortiClient EMS, go to *System Settings > Server*.
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*.
5. Update the client ID in the Google Admin console.



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 35](#)
- [Communication with FortiAnalyzer for logging on page 35](#)

It includes the following procedures:

- Required: [Adding an SSL certificate to FortiClient EMS for Chromebook endpoints on page 45](#)
- Required only when sending logs to FortiAnalyzer: [Adding SSL certificates to FortiAnalyzer on page 45](#)

## 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 35](#).

### To add an SSL certificate to EMS for Chromebook endpoints:

1. In FortiClient EMS, go to *System Settings > Server > 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 is expiring in less than three months, the expiry date label is yellow; if it has expired, the label is red. Otherwise, it is green.

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

---

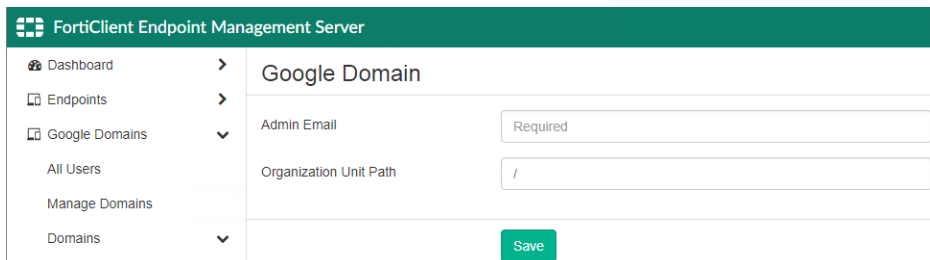
## Adding SSL certificates to FortiAnalyzer

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 profile

When you install FortiClient EMS, a default profile is created. EMS applies this profile to any Google domains you add to FortiClient EMS.



It is recommended to add Yandex search engine to the blocklist in the profile.

To add a new profile:

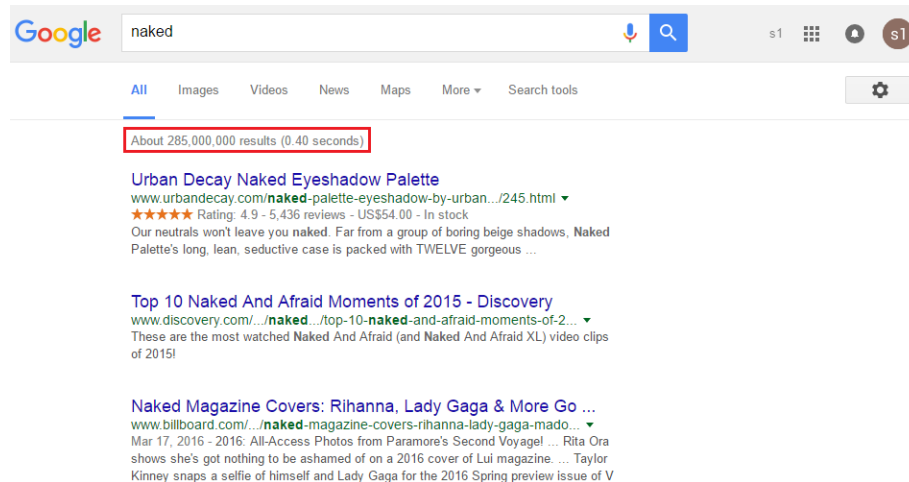
1. Go to *Endpoint Profiles > Manage Profiles*, and click the *Add Chrome* button.
2. In the *Profile Name* field, enter the profile name.
3. On the *Web Filter* tab, enable *Web Filter*, and set the web filtering options.
4. On the *System Settings* tab, set the logging options.
5. Click *Save*.

## Enabling and disabling Safe Search

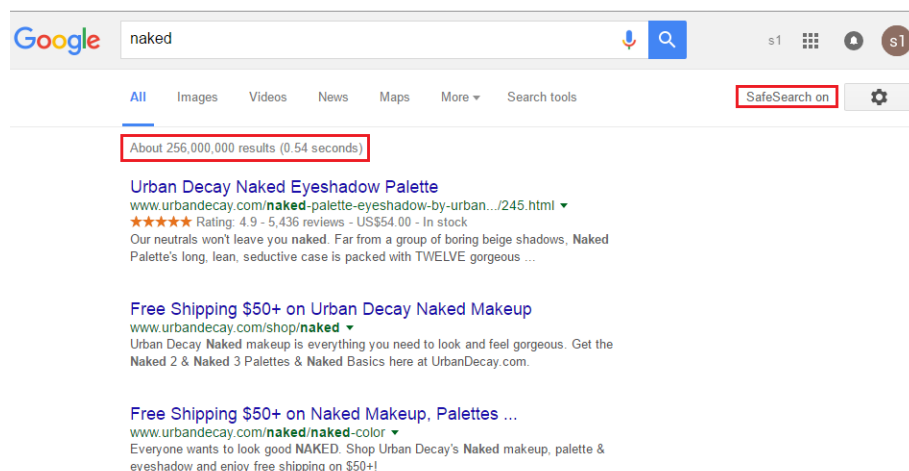
The search engine provides a Safe Search feature that blocks inappropriate or explicit images from search results. The Safe Search feature helps avoid most adult content. FortiClient EMS supports Safe Search for most common search engines, such as Google, Yahoo, and Bing.

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:



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*.

## Adding a Chromebook policy

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

<b>Chromebook policy name</b>	Enter the desired name for the Chromebook policy.
<b>Google domains</b>	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.
<b>Chromebook profile</b>	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 <a href="#">Adding a new profile on page 46</a> .
<b>Comments</b>	Enter any comments desired for the endpoint policy.
<b>Enable the policy</b>	Toggle to enable or disable the endpoint policy. You can enable or disable the policy at a later time from <i>Endpoint Policy &gt; 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 <span>Clear Filters</span> <span>↺</span>					
Name <span>↕</span>	Email <span>↕</span>	Last Login <span>↕</span>	Last Policy Retr <span>↕</span>	Domain <span>↕</span>	Organization Path <span>↕</span>
Art3 Sikes	art3.sikes@s...	8/4/2016 1:1...	Never Retrie...	schoolz...	/Young Lady's School/staff/admin
bob bob	bob.bob@ys...	8/6/2016 1:0...	Never Retrie...	schoolz...	/test
Catherine Seely	Catherine.Se...	7/25/2016 9:...	Never Retrie...	schoolz...	/Young Stars School
Dean Cagle	Dean.Cagle...	8/5/2016 10:...	Never Retrie...	schoolz...	/Young Lady's School/staff/admin
Dennis Auger	Dennis.Auger...	7/15/2016 9:...	Never Retrie...	schoolz...	/Young Lady's School/students...
Edgar Bayles	Edgar.Bayles...	8/9/2016 12:...	Never Retrie...	schoolz...	/Young Stars School/students/...
Efrain2 Tague	Efrain2.Tagu...	8/2/2016 10:...	Never Retrie...	schoolz...	/Young Stars School/students/...
Emilio Freitag	emilio.freitag...	7/25/2016 9:...	Never Retrie...	schoolz...	/Young Lady's School/students...
Garry Heinrich	Garry.Heinric...	8/3/2016 8:2...	Never Retrie...	schoolz...	/Young Lady's School/staff/admin
Gerard Rhoa...	gerard.rhoad...	7/14/2016 11...	Never Retrie...	schoolz...	/Young Lady's School/staff
jiaping xu	jpxu@school...	8/9/2016 6:4...	Never Retrie...	schoolz...	/
Joey Albrecht	joey.albrecht...	8/2/2016 10:...	Never Retrie...	schoolz...	/Young Lady's School/staff
KeriNew Coc...	Keri.Cochran...	8/4/2016 1:1...	Never Retrie...	schoolz...	/Young Lady's School/test
Leann Bast	Leann.Bast@...	8/9/2016 12:...	Never Retrie...	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 &gt; 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 &gt; 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
2019-10-15	Initial release.
2019-11-06	Updated <a href="#">Communication with FortiAnalyzer for logging on page 35</a> , <a href="#">Logging into the Google Admin console on page 33</a> , <a href="#">Adding the FortiClient Web Filter extension on page 34</a> , and <a href="#">Configuring the FortiClient Web Filter extension on page 34</a> .
2019-11-14	Updated <a href="#">Google Admin Console setup on page 33</a> .
2019-11-18	Updated <a href="#">Adding an endpoint policy on page 26</a> .



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