

Falcon Sensor for Mac Deployment

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Overview

Falcon sensor for Mac stops breaches by unifying true next-generation antivirus (NGAV) endpoint detection and response (EDR), managed threat hunting, and threat intelligence automation, using a single lightweight sensor.

System requirements

Installing the Falcon sensor for Mac requires administrator privileges, also known as elevated privileges.

Supported operating systems

The Falcon sensor for Mac is supported on these macOS versions:

macOS version	Minimum sensor version	Falcon end-of-support date
macOS Sequoia 15	All supported sensor versions Intel CPUs and Apple silicon native support included	December 31, 2027
macOS Sonoma 14	All supported sensor versions Intel CPUs and Apple silicon native support included	December 31, 2026
macOS Ventura 13	All supported sensor versions Intel CPUs and Apple silicon native support included	December 31, 2025

Note: Falcon does not support hosts running in containers, such as Docker.

Host authorizations

Apple requires system extensions to be approved before they can be loaded. The Falcon sensor for Mac requires these additional authorizations on each host:

- Full Disk Access (FDA) to Falcon

Important: If Full Disk Access is not enabled, the sensor enters reduced functionality mode (RFM). See [Reduced functionality mode: Mac hosts](#).

- Falcon system extension
 - Falcon non-removable system extension (macOS Sequoia 15 and later)
- Falcon network filter extension

If you use profiles provided by CrowdStrike, these authorizations are already configured for you. Apple doesn't allow profiles to be deployed outside of an MDM solution. We strongly recommend you use an MDM solution to distribute the profile to your endpoints prior to the deployment process. These authorizations are only required once. Subsequent upgrades using the built-in upgrade functionality of the sensor will not require additional confirmation approvals on the host.

We recommend using one of these MDM profile options:

- [Using MDM profiles provided by CrowdStrike](#): We provide profiles with all necessary authorizations.
- [Creating an MDM profile with necessary properties](#): Refer to the necessary profile parameters to create your own profile.

Important: If you don't use an MDM solution to distribute the necessary profile to endpoints, multiple macOS authentication confirmations occur on the host that must be manually approved. See [Alternative installation method: Installing without using an MDM to sync profiles](#).

Using MDM profiles provided by CrowdStrike

For endpoints on Intel or M1 processors, we provide profiles with all necessary authorizations to properly run the sensor on all supported versions of macOS. We strongly recommend you use an MDM solution to distribute profiles to your endpoints prior to the deployment process. You can upload profiles to an MDM server and distribute them to your endpoints.

Download one or more MDM profiles from the attachments in the [CrowdStrike Customer Center article for Sonoma and earlier](#) or [CrowdStrike Customer Center article for Sequoia and later](#).

Important: There are different profiles for different versions of macOS. Ensure your MDM solution is configured to apply the correct profile to each host.

Creating an MDM profile with necessary properties

When creating your own profile, you must specify MDM properties to approve the needed macOS extensions and to approve full disk access.

Tip: When upgrading Mac hosts to macOS Sequoia 15, we recommend creating a second MDM profile for Sequoia hosts with the required system extension payload, rather than updating an existing profile. This will ensure the sensor remains running while the new settings are applied.

Payload: [SystemExtensions](https://developer.apple.com/documentation/devicemanagement/systemextensions) [<https://developer.apple.com/documentation/devicemanagement/systemextensions>]

Property	Value
AllowedSystemExtensions	Dict: {Key: X9E956P446, Value: com.crowdstrike.falcon.Agent}
AllowUserOverrides	true
NonRemovableFromUISystemExtensions	Dict: {Key: X9E956P446, Value: com.crowdstrike.falcon.Agent}

Payload: com.apple.servicemanagement

Note: This payload is for Ventura and later.

Property	Value
Rules	Array [{Key:RuleType,Value:BundleIdentifier, Key:RuleValue,Value:com.crowdstrike.falcon.UserAgent}, {Key:RuleType,Value:TeamIdentifier, Key:RuleValue,Value:X9E956P446}]

Payload: [WebContentFilter](https://developer.apple.com/documentation/devicemanagement/webcontentfilter) [<https://developer.apple.com/documentation/devicemanagement/webcontentfilter>]

Property	Value
FilterDataProviderBundleIdentifier	com.crowdstrike.falcon.Agent
FilterDataProviderDesignatedRequirement	identifier "com.crowdstrike.falcon.Agent" and anchor apple generic and certificate 1[field.1.2.840.113635.100.6.2.6] and certificate leaf[field.1.2.840.113635.100.6.1.13] and certificate leaf[subject.OU] = "X9E956P446"
FilterGrade	inspector
FilterPackets	false
FilterSockets	true
FilterType	Plugin
Organization	CrowdStrike Inc.
PluginBundleID	com.crowdstrike.falcon.App

Approving Full Disk Access using MDM

Approving Full Disk Access for the Falcon sensor is a requirement, the Falcon sensor enters Reduced Functionality Mode (RFM) if this is not enabled. See [Reduced functionality mode: Mac hosts](#) [[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#pb0ee694](#)].

To approve Full Disk Access, use the

[Privacy Preferences Policy Control](#) [<https://developer.apple.com/documentation/devicemanagement/privacypreferencespolicycontrol>] payload with a [SystemPolicyAllFiles](#) [<https://developer.apple.com/documentation/devicemanagement/privacypreferencespolicycontrol/services/identity>] property and specify this information in XML format:

```
<dict>
<key>SystemPolicyAllFiles</key>
<array>
<dict>
<key>Allowed</key>
<true/>
<key>CodeRequirement</key>
<string>identifier "com.crowdstrike.falcon.Agent" and anchor apple generic and certificate 1[field.1.2.840.113635.100.6.2.6] /* exists */ and certificate leaf[field.1.2.840.113635.100.6.1.13] /* exists */ and certificate leaf[subject.OU] = X9E956P446</string>
<key>Comment</key>
<string></string>
<key>Identifier</key>
<string>com.crowdstrike.falcon.Agent</string>
<key>IdentifierType</key>
<string>bundleID</string>
<key>StaticCode</key>
<false/>
</dict>
<dict>
<key>Allowed</key>
```

```

<true/>
<key>CodeRequirement</key>
<string>identifier "com.crowdstrike.falcon.App" and anchor apple generic and certificate
1[field.1.2.840.113635.100.6.2.6] /* exists */ and certificate leaf[field.1.2.840.113635.100.6.1.13] /*
exists */ and certificate leaf[subject.OU] = X9E956P446</string>
<key>Comment</key>
<string></string>
<key>Identifier</key>
<string>com.crowdstrike.falcon.App</string>
<key>IdentifierType</key>
<string>bundleID</string>
<key>StaticCode</key>
<false/>
</dict>
</array>
</dict>

```

Networking requirements

Allow TLS traffic

After agent installation, an agent opens a permanent TLS connection over port 443. The connection is kept open until the endpoint is turned off or the network connection is terminated.

Depending on your network environment, you might need to allow TLS traffic on port 443 between your network and our cloud's network addresses.

If your network only allows traffic by destination IP address instead of FQDN, allow TLS traffic on port 443 over the static IP addresses. For more info, see [Cloud IP Addresses and FQDNs](#) [/documentation/page/e87d1418/cloud-ip-addresses].

Cloud domains for US-1

```

ts01-b.cloudsink.net
lfodown01-b.cloudsink.net
lfoup01-b.cloudsink.net
https://falcon.crowdstrike.com
https://assets.falcon.crowdstrike.com
https://assets-public.falcon.crowdstrike.com
https://api.crowdstrike.com
https://firehose.crowdstrike.com

```

CrowdStrike cloud US-2 domains

```

ts01-gyr-maverick.cloudsink.net
lfodown01-gyr-maverick.cloudsink.net
lfoup01-gyr-maverick.cloudsink.net
https://falcon.us-2.crowdstrike.com
https://assets.falcon.us-2.crowdstrike.com
https://assets-public.falcon.us-2.crowdstrike.com
https://api.us-2.crowdstrike.com
https://firehose.us-2.crowdstrike.com

```

CrowdStrike cloud EU-1 domains

```

ts01-lanner-lion.cloudsink.net
lfodown01-lanner-lion.cloudsink.net
lfoup01-lanner-lion.cloudsink.net
https://falcon.eu-1.crowdstrike.com
https://assets.falcon.eu-1.crowdstrike.com
https://assets-public.falcon.eu-1.crowdstrike.com
https://api.eu-1.crowdstrike.com
https://firehose.eu-1.crowdstrike.com

```

CrowdStrike cloud US-GOV-1 domains

```

ts01-laggar-gcw.cloudsink.net
sensorproxy-laggar-g-524628337.us-gov-west-1.elb.amazonaws.com
lfodown01-laggar-gcw.cloudsink.net
lfoup01-laggar-gcw.cloudsink.net
ELB-Laggar-P-LFO-DOWNLOAD-1265997121.us-gov-west-1.elb.amazonaws.com
https://falcon.laggar.gcw.crowdstrike.com
laggar-falconui01-g-245478519.us-gov-west-1.elb.amazonaws.com
https://api.laggar.gcw.crowdstrike.com
https://firehose.laggar.gcw.crowdstrike.com
falconfhose-laggar01-g-720386815.us-gov-west-1.elb.amazonaws.com

```

CrowdStrike cloud US-GOV-2 domains

```

ts01-us-gov-2.cloudsink.crowdstrike.mil
lfodown01-us-gov-2.cloudsink.crowdstrike.mil
lfoup01-us-gov-2.cloudsink.crowdstrike.mil
https://falcon.us-gov-2.crowdstrike.mil
https://api.us-gov-2.crowdstrike.mil
https://firehose.us-gov-2.crowdstrike.mil

```

Avoid interference with certificate pinning

The Falcon sensor uses certificate pinning to defend against man-in-the-middle attacks. Some network configurations, such as deep packet inspection, interfere

...with certificate pinning.

with certificate validation.

To prevent interference with certificate validation, disable deep packet inspection (also called "HTTPS interception," "TLS interception," or "SSL inspection") or similar network configurations. Other common sources of interference with certificate pinning include antivirus systems, firewalls, or proxies.

Proxy support

The Falcon sensor for Mac uses proxies as configured in System Preferences.

Supported sensor languages

For Falcon sensor text shown to users, such as sensor connection status, context menu, and notifications, the Falcon sensor provides localized text in English, French, and Japanese. To see localized text, set the language of the host's operating system to a supported language. For all other operating system languages, the Falcon sensor displays English text.

Installing the Falcon sensor for Mac

There are different methods to successfully install the sensor:

- Recommended installation method: Use an MDM solution to distribute the profile we provide to your endpoints prior to the deployment process. This streamlines the deployment and avoids manual authorization steps on hosts.
- Alternate installation methods:
 - Use the standalone installer which streamlines your authorization and post-verification steps. See [Falcon Sensor for Mac installer \[/documentation/page/f6665909/falcon-sensor-for-mac-installer\]](#) for more info.
 - For other supported Falcon sensor for Mac versions, see [Alternative installation method: Installing without using an MDM to sync profiles \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#o7ad7b2b\]](#) for more info.

Note: If you don't use an MDM to distribute the profile we provide, multiple authentication confirmations from the OS occur on the host and must manually be approved.

For information about other installation considerations, see

[Advanced installation options \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#xb9e3ad8\]](#)

Recommended installation method: Using an MDM to sync profiles

1. Use an MDM to deploy the correct profile to the hosts. This step can be performed any time prior to sensor deployment. For information on using our recommended profiles or creating your own, see [Host authorizations \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#uf4f4561\]](#).

Note: Between deploying your MDM profile and installing the sensor, you may see a "not running" network filter. This is expected behavior and is resolved when you install the sensor.

2. Use the Google Chrome browser to download the sensor installer from [Host setup and management > Deploy > Sensor downloads \[/hosts/sensor-downloads\]](#).
3. Copy your customer ID checksum (CCID) from [Host setup and management > Deploy > Sensor downloads \[/hosts/sensor-downloads\]](#).
4. Run the sensor installer on your device using one of these two methods:

- Double-click the .pkg file.
- Run this command at a terminal, replacing <installer_filename> with the path and file name of your installer package:

```
sudo installer -verboseR -package <installer_filename> -target /
```

5. When prompted, enter administrative credentials for the installer.

6. Run falconctl, installed with the Falcon sensor, to provide your customer ID checksum (CCID). This command is slightly different if you're installing with installation tokens. In this example, replace 0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ-WX with your CID.

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl license 0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ-WX\
```

Alternative installation method: Installing without using an MDM to sync profiles

Note: We strongly recommend you use an MDM solution to distribute the profile we provide to your endpoints prior to the deployment process. See [Recommended installation method: Using an MDM to sync profiles \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#w511da27\]](#)

1. Use Google Chrome to download the sensor installer from [Host setup and management > Deploy > Sensor downloads \[/hosts/sensor-downloads\]](#).
2. Copy your customer ID checksum (CCID) from [Host setup and management > Deploy > Sensor downloads \[/hosts/sensor-downloads\]](#).
3. Run the sensor installer on your device using one of these two methods:
 - a. Double-click the .pkg file.
 - b. Run this command at a terminal, replacing <installer_filename> with the path and file name of your installer package:

```
sudo installer -verboseR -package <installer_filename> -target /
```

4. When prompted, enter administrative credentials for the installer.

5. For macOS Ventura 13 and later, the following dialog appears.

Background Items Added



Software from "CrowdStrike Inc." added items that can run in the background. You can manage this in Login Items Settings.

If you prevent this login item from running, the Falcon sensor still behaves normally. However, you don't get notifications about sensor activities.

Note: This dialog will also appear when you do updates.

6. Run `falconctl`, installed with the Falcon sensor, to provide your customer ID checksum (CCID). This command is slightly different if you're installing with installation tokens. In this example, replace 0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ-WX with your CID:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl license 0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ-WX
```

7. For macOS Big Sur 11.0 and later, after providing your CID with the license command, you're asked to approve the system extension on each host:

a. In the message, when asked to filter network content, click **Allow**.

b. When the System Extension Blocked message appears, click **Open Security Preferences**.

c. On the **General** tab, click **Allow** to allow the Falcon system extension. You might need to click the lock icon to enable you to make security changes. If you do not approve the Falcon system extension when prompted on the host, run the `falconctl load` command to load Falcon again and show the prompts on the host for approval:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl load
```

8. Full Disk Access is required. You must grant Full Disk Access on each host for the sensor to work properly. Administrator account permission is required:

Important: The Falcon sensor enters Reduced Functionality Mode (RFM) if this is not enabled. See [Reduced functionality mode: Mac hosts](#) [./documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#pb0ee694].

a. In System Preferences, click **Security & Privacy**.

b. Go to the **Privacy** area or tab, depending on your macOS version.

c. If privacy settings are locked, click the lock icon and specify the password.

d. Select **Full Disk Access**.

e. Enable FDA for these apps. If they are not in the list of apps, click the plus icon and find them in the list of applications:

- Falcon

- Falcon Sensor

f. Click the lock icon to re-lock privacy settings, if applicable.

Post-installation steps

Verifying sensor installation

You can verify an installation by using the Falcon console or a terminal on the host.

Falcon console

After the sensor is installed, the host connects to the Falcon console. You can confirm a sensor installation by reviewing your hosts.

To view a complete list of newly installed sensors, use [Dashboards and reports > Reports > Sensor report](#) [./investigate/dashboards/sensor-report].

Host

To validate that the Falcon sensor for Mac is running on a host, run this command at a terminal:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl stats
```

The output shows a list of details about the sensor, including its agent ID (AID), version, customer ID, and more. If your output is different, see [Troubleshooting](#) [./documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#naf940e3].

Enabling uninstall protection for the Falcon sensor

Protect sensors from unauthorized uninstallation using sensor update policies. Enable **Uninstall and maintenance protection** in sensor update policies to protect hosts. For more info, see [Managing sensor maintenance and uninstallation](#) [./documentation/page/d2d629cf/sensor-update-policies#o075803c].

Sensor upgrades with uninstall protection enabled and cloud updates disabled

Use this upgrade path if your organization is unable to use cloud-managed updates. Use bulk maintenance mode to upgrade using other tools, like JAMF.

1. Use Google Chrome to download the sensor installer from [Host setup and management > Deploy > Sensor downloads](#) [./hosts/sensor-downloads].

2. In the sensor update policy you want to update, turn on **Bulk maintenance mode**. Make sure the **Sensor version updates off** build version is selected and **Uninstall and maintenance protection** is turned on.

3. Retrieve the bulk maintenance token to include in the deployment package. This token does not change, so you won't need to modify your deployment package each time you enter bulk maintenance mode.

4. Create a script named `falcon_maintenance_token.py`.

5. Add this to the Python script, replacing <your bulk maintenance token here> with your actual bulk maintenance token:

```
#!/usr/bin/env python
from __future__ import print_function
```

```

mtoken = "<your bulk maintenance token here>"
try:
    while True:
        print(mtoken)
except IOError:
    pass

```

6. Run or configure your deployment tool to run the following commands, replacing <installer_filename>:

```

./falcon_maintenance_token.py | sudo /Applications/Falcon.app/Contents/Resources/falconctl unload --maintenance-token
sudo installer -verboseR -package <installer_filename> -target /

```

7. For increased security, turn off bulk maintenance mode after completing your upgrades. This restores the per-sensor maintenance token and disables the bulk maintenance token.

Managing sensor grouping tags

Sensor grouping tags are optional, user-defined identifiers you can use to group and filter hosts.

Note: This section is about sensor grouping tags, which you can use with sensor images and templates. For more information about these tags and how they compare to Falcon grouping tags, see [Using grouping tags](#) [./documentation/page/f8a0f751/host-and-host-group-management#eed98281].

Assigning sensor grouping tags

Assign tags to a host using the grouping-tags command.

Tags are case-sensitive.

Tags can include these characters	Tags can't include these characters
Letters (a-z, A-Z)	Spaces ()
Numbers (0-9)	Commas (,)
Hyphens (-)	
Underscores (_)	
Forward slashes (/)	
Period (.)	
At symbol (@)	

To assign multiple tags, separate tags with commas. The combined length of all tags for a host, including comma separators, cannot exceed 256 characters.

For example, to add the tags Washington/DC_USA and Production to a host, use this syntax:

- With **Uninstall and maintenance protection** enabled:

```

sudo /Applications/Falcon.app/Contents/Resources/falconctl grouping-tags set Washington/
DC_USA,Production --maintenance-token

```

When prompted, enter your maintenance token to continue.

- With **Uninstall and maintenance protection** disabled:

```

sudo /Applications/Falcon.app/Contents/Resources/falconctl grouping-tags set Washington/
DC_USA,Production

```

Tag changes take effect the next time the sensor restarts. To restart the sensor, run the following commands from a terminal:

- With **Uninstall and maintenance protection** enabled:

```

sudo /Applications/Falcon.app/Contents/Resources/falconctl unload --maintenance-token
sudo /Applications/Falcon.app/Contents/Resources/falconctl load

```

When prompted, enter your maintenance token to continue.

- With **Uninstall and maintenance protection** disabled:

```

sudo /Applications/Falcon.app/Contents/Resources/falconctl unload
sudo /Applications/Falcon.app/Contents/Resources/falconctl load

```

Viewing a host's sensor grouping tags

Falcon console

Use [Host Management](#) [/hosts/hosts] to search for the host. The **Grouping Tags** information for the host includes Falcon grouping tags and sensor grouping tags.

Host

To see the tags currently assigned to a host, use the get argument:

```

sudo /Applications/Falcon.app/Contents/Resources/falconctl grouping-tags get

```

Removing sensor grouping tags

To remove all tags from a host, run this command:

- With **Uninstall and maintenance protection** enabled:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl grouping-tags clear --maintenance-token
```

When prompted, enter your maintenance token to continue.

- With **Uninstall and maintenance protection** disabled:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl grouping-tags clear
```

Tag changes take effect the next time the sensor restarts. To restart the sensor, run the following commands from a terminal:

- With **Uninstall and maintenance protection** enabled:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl unload --maintenance-token  
sudo /Applications/Falcon.app/Contents/Resources/falconctl load
```

When prompted, enter your maintenance token to continue.

- With **Uninstall and maintenance protection** disabled:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl unload  
sudo /Applications/Falcon.app/Contents/Resources/falconctl load
```

Advanced installation options

Installing to a CID that requires installation tokens

Prevent unauthorized hosts from being accidentally or maliciously added to your customer ID (CID). Installation tokens are an optional security measure for your CID. To use installation tokens, you create one or more tokens in the Falcon console or through the API, enable the token requirement, and then provide the tokens to sensors at installation time. For more info, see

[Protecting your CID with installation tokens](#) ([/documentation/page/f8a0f751/host-and-host-group-management#r5bd2729](#)).

When you install a sensor after enabling **Require tokens**, the `falconctl` command must include an active token. These examples show two equally accepted ways to include a sample installation token, ABCD1234:

- As a single command, append the installation token with no argument:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl license 0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ-WX ABCD1234
```

- As two separate commands:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl provisioning-token ABCD1234  
sudo /Applications/Falcon.app/Contents/Resources/falconctl license 0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ-WX ABCD1234
```

Installing the sensor on a virtual machine template

Follow these steps to set up a virtual machine template with a Falcon sensor.

Note: These steps are required so that each VM created from the template has a unique agent ID (AID). Otherwise, the Falcon console will display activity from all these hosts as if the activity came from a single host.

1. Install the sensor normally.

2. Open a terminal.

3. Run this command to unload (stop) the sensor:

- With **Uninstall and maintenance protection** enabled:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl unload --maintenance-token
```

When prompted, enter your maintenance token to continue.

- With **Uninstall and maintenance protection** disabled:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl unload
```

4. Run this command to remove files used to associate the host's AID:

```
sudo rm /Library/Application Support/CrowdStrike/Falcon/registry.base
```

5. Shut down the virtual machine.

6. Use your virtualization software to convert the VM to a template image.

When each VM created from this template first connects to the CrowdStrike cloud, we automatically assign the VM a unique AID.

Modifying your VM template

If you modify your template later, ensure your template doesn't connect to the CrowdStrike cloud while the sensor is installed. Follow these steps so that your template is not assigned an AID.

1. Uninstall the sensor before you enable networking on the template.

2. Modify your template as needed.

3. Disable networking in your template again.

4. Install the Falcon sensor on your template.

5. Snapshot your VM template and clone it as needed.

Installing the Falcon sensor with Pay-As-You-Go billing

To create a new master image template with no agent ID and Pay-As-You-Go billing enabled:

1. Prepare your master image instance, including any software configuration or updates.
2. Download the Falcon sensor installer from [Host setup and management > Deploy > Sensor downloads \[/hosts/sensor-downloads\]](#) or by using [Sensor download APIs \[/documentation/page/c1f0f0b8/sensor-download-apis\]](#).

3. Run the installer, substituting <installer_filename> with your installer's file name.

```
sudo installer -verboseR -package <installer_filename> -target /
```



4. After installing, run these falconctl commands to set your customer ID (CID) without loading the sensor, then configure the sensor for Pay-As-You-Go billing:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl license "YOURCID" --noload  
sudo /Applications/Falcon.app/Contents/Resources/falconctl billing METERED
```



Then, deploy your master image on one or more hosts. The master image contains a non-running instance of the Falcon sensor. After deploying the master image on a host, run this falconctl command once to start the Falcon sensor:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl load
```



Uninstall the Falcon sensor for Mac

Important: Uninstalling the sensor requires admin privileges.

The uninstallation process differs if certain sensor protection policies are enabled. For more info, see [Managing sensor maintenance and uninstallation \[/documentation/page/d2d629cf/sensor-update-policies#o075803c\]](#).

Falcon configuration type	Uninstallation command
No additional options configured	On the host Mac, run this command from Terminal: <pre>sudo /Applications/Falcon.app/Contents/Resources/falconctl uninstall</pre>
Uninstall and maintenance protection is enabled	On the host Mac, run this command from Terminal: <pre>sudo /Applications/Falcon.app/Contents/Resources/falconctl uninstall --maintenance-token</pre> When prompted, enter the maintenance token. For more info, see Making changes to a single host [/documentation/page/d2d629cf/sensor-update-policies#x73dc5fc] .
Bulk maintenance mode is enabled for your hosts	On the host Mac, run this command from Terminal: <pre>sudo /Applications/Falcon.app/Contents/Resources/falconctl uninstall --maintenance-token</pre> When prompted, enter the maintenance token. For more info, see Making changes to multiple hosts [/documentation/page/d2d629cf/sensor-update-policies#f90bbddb] .

Troubleshooting

Verifying the Falcon system extension was installed

To verify the Falcon system extension is enabled and activated by the operating system, run this command at a terminal:

```
systemextensionsctl list
```



The output shows the com.crowdstrike.falcon.Agent system extension.

```
1 extension(s)  
--- com.apple.system_extension.endpoint_security  
enabled active teamID bundleID (version) name [state]  
* * X9E956P446 com.crowdstrike.falcon.Agent (5.38/119.57) Agent [activated enabled]
```



If the system extension is not installed, use one of these methods to make sure the Falcon system extension is approved on each host:

- Download and use an MDM solution to deploy the profile we provide to each host, then reinstall the sensor. See [Recommended installation method: Using an MDM to sync profiles \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#w51da27\]](#).
- Reinstall the sensor using the steps to manually approve the Falcon system extension on each host. See [Alternative installation method: Installing without using an MDM to sync profiles \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#o7ad7b2b\]](#).

Verifying that the sensor is running

To validate that the Falcon sensor for Mac is running on a host, run this command at a terminal:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl stats
```



The output shows a list of details about the sensor, including its agent ID (AID), version, customer ID, and more.

Verifying the sensor is connected to the CrowdStrike cloud

1. Run this terminal command to determine if the host can connect to the cloud:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl stats
```



2. In the output, look for the Cloud Info section. A value of State: connected indicates the host is connected to the CrowdStrike cloud. Any other result indicates that the host can't connect to the CrowdStrike cloud. Review our [Networking requirements](#) ([/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#y8896c31](#)) and check your network configuration.

Cloud Info	
IP:	ts01-b.cloudsink.net
Port:	443
State:	connected
Cloud Activity	
Attempts:	1
Connects:	1

3. In the output, look for the Events Sent section and the SensorHeartbeatMacV4 event. Ensure that sensor heartbeats are being sent every two minutes. This verifies the connection is established and negotiated with the cloud.

Events Sent	1m	5m	1h	4h	8h	12h	Copy
1d							
SensorHeartbeatMacV4	1	3	30	121	167	167	
167							

4. In the output, look for the Event Sums and Acknowledgement Sums sections. The ignored, resent and resend limit counts should all be low. If they are high, it might indicate issues in the connection to the cloud.

Event Sums		1m	5m	1h	4h	8h	Copy
12h	1d						
21333	Sent	51	141	1855	7872	21333	
705	Received	9	10	76	266	705	
0	Ignored	0	0	0	0	0	
22	Resent	16	22	22	22	22	
0	Resend Limit	0	0	0	0	0	
0	Overflow	0	0	0	0	0	
Acknowledgement Sums		1m	5m	1h	4h	8h	
12h	1d						
703	Sent	7	8	74	264	703	
21333	Received	51	141	1855	7872	21333	
0	Ignored	0	0	0	0	0	
0	Resent	0	0	0	0	0	
0	Resend Limit	0	0	0	0	0	
0	Overflow	0	0	0	0	0	

Endpoint firewalls

If you're using an endpoint firewall on your host, it must be configured to allow access to the CrowdStrike domains. Customers have reported that these products require additional configuration when used with the Falcon sensor:

- Ad-Aware Pro Security
- Avast Internet Security
- AVG Internet Security
- Bullguard Internet Security
- Dr. Web Security Space
- MyInternetSecurity Preventon A/V + Firewall
- UnThreat Internet Security
- VIPRE Internet Security
- ZoneAlarm Internet Security Suite
- Chili internet Security
- ESET Node32 Smart Security
- BITDEFENDER Total Security
- Trustport Internet Security

Providing troubleshooting info to Support

Providing falconctl diagnose output to our [Support](https://supportportal.crowdstrike.com/) team can help troubleshoot sensor issues.

Run this command using sudo on the Mac host in a terminal:

```
sudo /Applications/Falcon.app/Contents/Resources/falconctl diagnose
```

While the diagnostic runs, a status bar appears in the terminal. The process can take 10 minutes.

When the diagnostic finishes, the terminal displays the path to the diagnostic file. Also, a Finder window appears and displays the /private/tmp/ directory and the diagnostic file there. This file has a name similar to falconctl_diagnose_4APo7WJ.tgz.

Attach this file to your Support case.

For additional troubleshooting information or to open a support case, visit the [CrowdStrike Customer Center](https://supportportal.crowdstrike.com/).

Logs

Logs are stored using Apple's unified logging interface and are under their respective process IDs.

To view or stream the logs for the past twenty hours, run this command:

```
log show --predicate 'process == "com.crowdstrike.falcon.Agent"' --last 20h
```

For information about streaming, formatting, and searching the logs, see the log man page.

Normal log contents

A normal startup log includes messages similar to these:

- The sensor is starting.
- The sensor is locating and initializing the config.
- The sensor is checking communications (whether to use proxy or not and on which host/port).
- The sensor is connecting and setting up SSL.
- The sensor connected and is sending its first message to CrowdStrike cloud.
- The sensor received a response from cloud. All startup tasks are complete.

Reduced functionality mode: Mac hosts

Reduced functionality mode (RFM) is a mode for the Falcon sensor for Mac if Full Disk Access (FDA) is not enabled on the host.

A mac host's sensor that is in RFM still communicates with the cloud. However, when the host's file system is unavailable because FDA isn't enabled for the Falcon sensor, sensor functionality that interacts with the file system is reduced.

Note: Hosts on other platforms can also enter RFM, but RFM for the Falcon sensor behaves differently on each platform. See [Reduced functionality mode: Linux hosts](#) and [Reduced functionality mode: Windows hosts](#).

Checking if a sensor is in RFM

Use one of these methods to check if a Mac host's sensor is in RFM:

- In the Falcon console:
 - **Executive summary dashboard:** The dashboard at [Dashboards and reports > Reports > Executive summary](#) lists a count of sensors in RFM by operating system. You can click an RFM widget in the dashboard to open more details in Host management.
 - **Host management:** On [Host setup and management > Manage endpoints > Host management](#), you can filter your list of hosts to show devices currently in RFM. You can also see the RFM status of a specific host from the host's summary panel. If a host is in RFM or has an unknown RFM status, a warning banner alerts you at the top of the panel.
 - **Event search:** In [Investigate > Search > Advanced event search](#), search for SensorStateBitMap using this query:

```
#event_simpleName=SensorHeartbeat event_platform=Mac SensorStateBitMap=2 ConfigIDBuild>=17506 | groupBy([aid], function=(selectFromMax(field="@timestamp", include=@timestamp, ComputerName, aid, ConfigBuild))) | rename([ComputerName, Hostname], [aid, "Sensor ID"], [ConfigBuild, "Agent Build"])
```
- Using the API: RFM status information is also available using the host management API. See [Host and Host Group Management APIs](#).

Resolving RFM for Mac hosts

To restore a Mac host's sensor to full functionality, you must enable Full Disk Access using one of these methods:

- Using an MDM: If you manage hosts using an MDM, you must enable FDA in the applied profiles. See [Approving Full Disk Access using MDM](#).
- Manually in the host's System Preferences: If you don't manage hosts using an MDM, you must manually enable FDA on the host in System Preferences. For more info, see the FDA enablement step of

[Alternative installation method: Installing without using an MDM to sync profiles \[/documentation/page/e261a9b7/falcon-sensor-for-mac-deployment#e7ad7b2b\]](#)

Important: If you manage FDA using an MDM profile, the host's System Preferences might not accurately reflect the current setting.

After enabling FDA for the Falcon sensor, the host no longer shows a status of RFM in host management. The Zero Trust Assessment (ZTA) score automatically updates with macOS changes every 24 hours, or immediately if you restart the sensor. For more info about ZTA, see [Zero Trust Assessment \[/documentation/page/bc52e49b/zero-trust-assessment\]](#).

Sensor safe mode: Mac hosts

Starting with Falcon sensor for Mac 7.26, the sensor provides safe mode to detect User Mode service crash loops and take corrective action.

The Falcon Sensor for Mac detects sensor-related crash loops and switches to safe mode.

This mode provides no functional capabilities other than ensuring that the sensor gracefully comes back online and connects to the CrowdStrike cloud. The sensor can then receive remediation updates from the CrowdStrike cloud to return to a healthy state.

Checking if a sensor is in safe mode

You can check which hosts have sensors that are in safe mode by running a query. Go to [Investigate > Search > Advanced event search \[/investigate/search\]](#), set the time interval to **Last 5m**, and run this query:

```
#event_simpleName=SensorHeartbeat event_platform=Mac SensorStateBitMap>=8 ConfigIDBuild>=17506
| groupBy([aid], function=(selectFromMax(field="@timestamp", include=@timestamp, ComputerName, aid,
ConfigBuild)))
| rename([[ComputerName, Hostname], [aid, "Sensor ID"], [ConfigBuild, "Agent Build"]])
```

Resolving safe mode for Mac hosts

A sensor in safe mode periodically attempts to return to a healthy state.

However, if you encounter a host in safe mode, visit the [CrowdStrike Customer Center \[https://supportportal.crowdstrike.com/\]](https://supportportal.crowdstrike.com/) and open a support case.

Falcon Sensor for Mac installer > [/documentation/page/f6665909/falcon-sensor-for-mac-installer]