



## Onboard Devices and Services

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You can onboard both live devices and model devices to Security Cloud Control. Model devices are uploaded configuration files that you can view and edit using Security Cloud Control.

Most live devices and services require an open HTTPS connection so that the Secure Device Connector can connect Security Cloud Control to the device or service.

This chapter covers the following sections:

- [Onboard an On-Premises Management Center to Security Cloud Control, on page 1](#)
- [Remove an On-Premises Firewall Management Center from Security Cloud Control, on page 8](#)

## Onboard an On-Premises Management Center to Security Cloud Control

Security Cloud Control provides the following methods to onboard on-premises management centers:

- (Recommended) [Auto-Onboard an On-Premises Management Center Integrated with Cisco Security Cloud](#)
- [Onboard an On-Premises Firewall Management Center to Security Cloud Control with Credentials](#)

Review [Connect Security Cloud Control to your Managed Devices](#) for more information.



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**Note** Security Cloud Control complements FMC by allowing you to:

- Drive consistent policy through shared object management with FMCs.

For more information, see the **Objects** section on [Managing On-Prem Firewall Management Center with Cisco Security Cloud Control](#).

- Enable zero-touch provisioning of Threat Defense devices.

For more information, see [Onboard a Device to On-Premises Management Center with Zero-Touch Provisioning](#).

- Get a centralised view of **Inventory**.

For more information, see [Device and Service Management](#).

- Leverage cloud CSDC and cdFMC.

For more information, see [Cisco Secure Dynamic Attributes Connector](#).

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### Limitations and Guidelines

These are the limitations applicable to onboarding an on-premises management center:

- Onboarding an on-premises management center also onboards all of the devices registered to the on-premises management center. Be aware that if a managed device is disabled, or unreachable, Security Cloud Control may display the device in the **Inventory** page, but cannot successfully send requests or view device information.
- We recommend creating a new user on the on-premises management center specifically for Security Cloud Control communication that has administrator-level permissions. If you onboard an on-premises management center and then simultaneously log into that on-premises management center with the same login credentials, onboarding fails.
- If you create a new user on the on-premises management center for Security Cloud Control communication, the **Maximum Number of Failed Logins** for the user configuration must be set to "0".
- For On-Premises Management Centers running version 7.4 and older, if you experience a switchover and the FMC is no longer connected to the cloud, try disabling SecureX and then re-enabling it.

## Auto-Onboard an On-Premises Management Center Integrated with Cisco Security Cloud

The auto-discovery and onboarding feature is enabled by default in Security Cloud Control, so you can expect all on-premises management centers that are running Version 7.2 or later and integrated with Cisco Security Cloud are automatically discovered and onboarded to Security Cloud Control. Additionally, the associated threat defense devices are onboarded to Security Cloud Control.

Security Cloud Control also onboards the on-premises management center high availability (HA) pair.

### Before you begin

Ensure that the following prerequisites are met:

- Allow outbound traffic from port 443 on the on-premises management center.

### Procedure

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- Step 1** Integrate the on-premises management center you want to onboard with Cisco Security Cloud and register it with a Security Cloud Control tenant. See [Integrate On-Premises Management Center With Cisco Security Cloud, on page 3](#).
- Step 2** Log in to the Security Cloud Control tenant that was registered with the on-premises management center.
- Step 3** In the left pane, click **Administration > Firewall Management Center**.
- All on-premises management centers associated with your tenant is displayed in the **FMC** tab. See [View Onboarded On-Premises Firewall Management Center](#).
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## Integrate On-Premises Management Center With Cisco Security Cloud

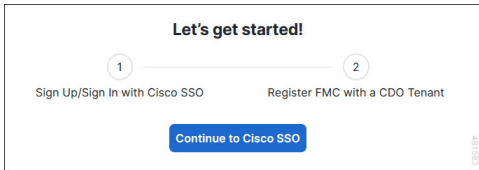
This procedure describes how to integrate the on-premises management center with Cisco Security Cloud. By enabling Cisco Security Cloud integration, your management center gets registered to the Cisco cloud tenancy.

### Before you begin

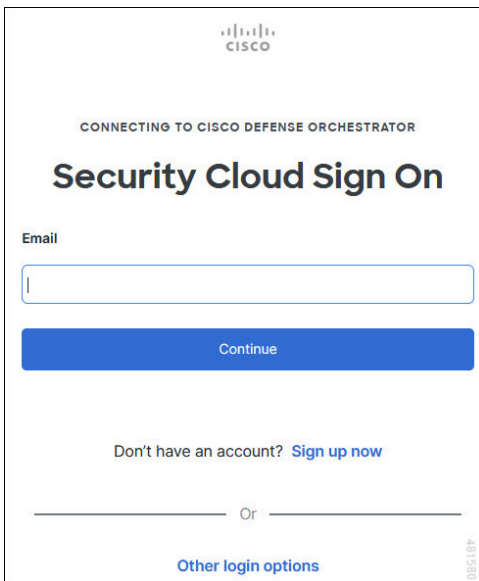
- Security Cloud Control uses Cisco security cloud sign on as its identity provider and Duo for multifactor authentication. Ensure that you have your Cisco security cloud sign on credentials and can sign in to the Cisco regional cloud where your account was created.
- A Security Cloud Control tenant is required to integrate the on-premises management center with Cisco Security Cloud. If you do not already have a Security Cloud Control tenant, request one. See [Create a Security Cloud Control Tenant](#) for more information.

### Procedure

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- Step 1** In your on-premises management center, perform the following:
- For on-premises management center version between 7.2 and 7.4.x, go to **Integration > SecureX**.
  - For on-premises management center version 7.6 or later, go to **Integration > Cisco Security Cloud**.
- Step 2** For on-premises management center version between 7.2 and 7.4.x, click **Enable Secure X**.  
For on-premises management center version 7.6 or later, click **Cisco Security Cloud**.  
A separate browser tab opens to log you in to your Security Cloud Control account. Make sure this page is not blocked by a pop-up blocker.
- Step 3** Click **Continue to Cisco SSO**.

**Figure 1: Cisco Security Cloud Welcome Page**

**Step 4** Log in to your Security Cloud Control account.

**Figure 2: Cisco Security Cloud Sign On**

If you do not have a security cloud sign on account to log in to Security Cloud Control and you want to create one, click **Sign up now** in the **Security Cloud Sign On** page. See [Create a New Cisco Security Cloud Sign On Account](#).

**Step 5** Choose a Security Cloud Control tenant that you want to use for this integration. The on-premises management center and the managed devices get onboarded to the Security Cloud Control tenant that you choose here.

**Figure 3: Choose the Security Cloud Control Tenant**

**CISCO**

Welcome to Cisco Defense Orchestrator

**i** To proceed with the registration of your FMC, please select a CDO tenant to register with the FMC and verify the code displayed below matches the user code from your FMC.

Select Tenant  Create Tenant

Search Tenants

Grant Application Access

Compare the code below to the authorization code shown in the FMC tab. If the codes match, authorize the FMC to complete the registration.  
If the codes do not match, [cancel registration](#).

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[Authorize FMC](#)

If you do not already have a Security Cloud Control tenant or if you want to use a new tenant for this integration, create a new tenant. See [Create a Security Cloud Control Tenant](#) for more information.

**Step 6** Verify that the code displayed in the Security Cloud Control login page matches the code provided by the on-premises management center.

**Figure 4: Verification Code in the on-premises management center**

Grant Application Access

Verify this code when prompted in the new browser window.

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[Close](#)

**Step 7** Click **Authorize FMC**.

**Step 8** In the on-premises management center UI, click **Save** to save the configuration.

You can view the task progress under **Notifications > Tasks**.

The registration task can take up to 90 second to complete. If you must use on-premises management center while the registration task is in progress, open the on-premises management center in a new window.

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## Disable Auto-Onboarding of an On-Premises Management Center

Disabling the auto-onboarding of the on-premises management centers functionality prevents auto onboarding of new on-premises management centers from your Cisco Security Cloud to this Security Cloud Control tenant.

Only a Super Admin or Admin user on Security Cloud Control can enable or disable this functionality.

### Procedure

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- Step 1** In the left pane, click **Administration > General Settings**
- Step 2** In the **General Settings** screen, click the **Auto onboard On-Prem FMCs with Cisco Security Cloud** toggle button to disable the auto onboarding of on-premises management center functionality.
- Step 3** Click **Confirm**.
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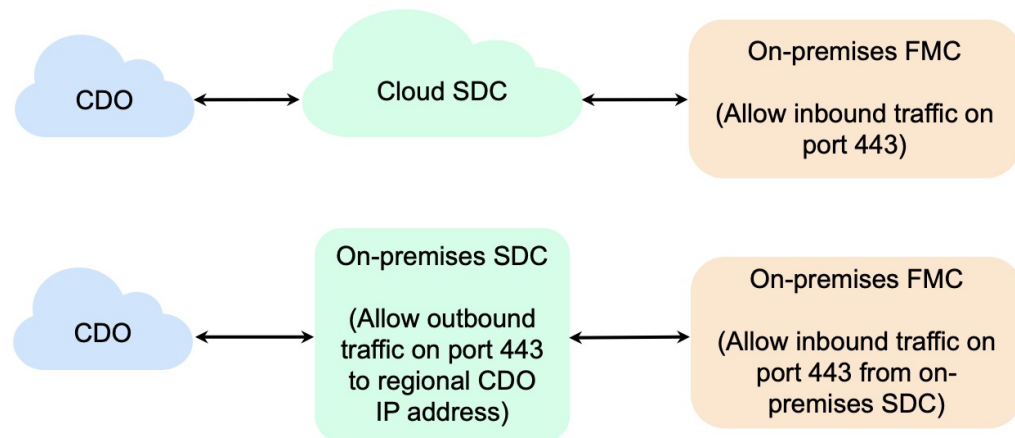
## Onboard an On-Premises Firewall Management Center to Security Cloud Control with Credentials

To onboard an On-Premises Firewall Management Center to Security Cloud Control with credentials, follow this procedure:


### Before you begin

Make sure you allow proper port access on your on-premises management center:

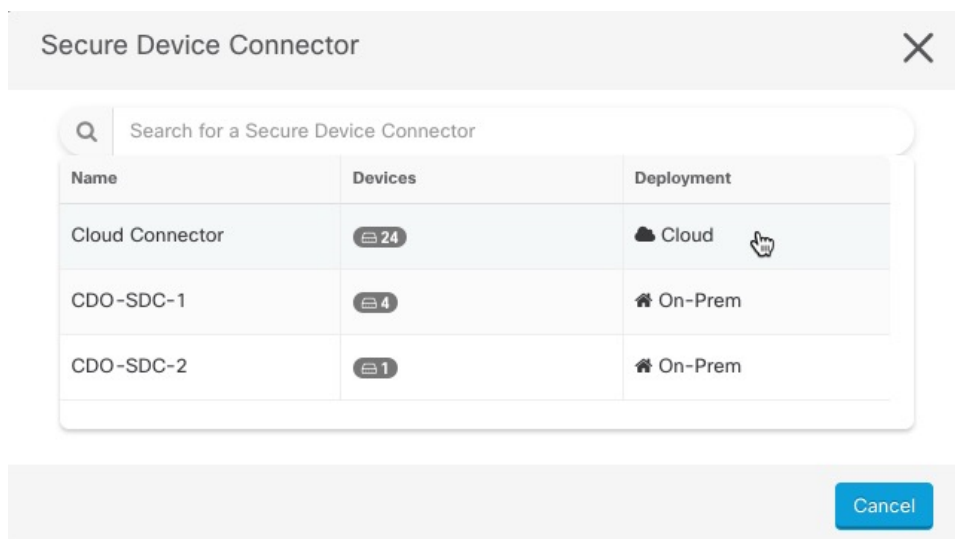
- Allow inbound connectivity on port 443 if you are onboarding the on-premises FMC using an on-premises Secure Device Connector.
- Allow outbound connectivity on port 443 if you are onboarding the FMC using the Cloud Connector.



## Procedure

- Step 1** In the left pane, click **Administration > General Settings**.
- Step 2** Click  to onboard an On-Premises Firewall Management Center.
- Step 3** Click **Firewall Management Center**.
- Step 4** Select the **Use Credentials** card.
- Step 5** Click the **Secure Device Connector** button and select an SDC installed in your network. If you would rather not use an SDC, Security Cloud Control can connect to your On-Premises Management Center using the Cloud Connector. Your choice depends on how you [connect Security Cloud Control to your managed devices](#).

**Figure 5: Choose a Secure Device Connector**



- Step 6** Enter the device name and location. Click **Next**.

**Step 7** Enter the **Username** and **Password** of the account credentials you want to use to access the On-Premises Management Center. Click **Next**.

**Step 8** The device is onboarded. From here you can opt to add labels to your On-Premises Management Center, or click **Go to Services** to view the page of onboarded devices. If healthy, the FMC is displayed with a **Synced** status.

**Note** Note that the devices managed by the On-Premises Management Center are automatically named as "`<fmcname>_<manageddevicename>`."

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## Redirect Security Cloud Control to an On-Premises Firewall Management Center

After you have onboarded an On-Premises Management Center to Security Cloud Control, you must update the management interface's hostname in the On-Premises Management Center UI to contain the FQDN. If you do not, you cannot cross-launch from Security Cloud Control.

Use the following procedure to update the management interface hostname and redirect from Security Cloud Control to the On-Premises Management Center:

### Procedure

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- Step 1** Log into the On-Premises Management Center UI.
  - Step 2** Navigate to **System > Configuration**.
  - Step 3** Select the **Management Interfaces** tab.
  - Step 4** Expand the **Shared Settings** header and click the edit icon.
  - Step 5** Locate the **Hostname** field and enter the FMC's FQDN.
  - Step 6** Save changes.

**Note:** You may have to log out of Security Cloud Control before you can click **Manage Devices in Firepower Management Center** and cross-launch to the On-Premises Management Center UI.

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## Remove an On-Premises Firewall Management Center from Security Cloud Control

If you choose to remove an on-premises management center from Security Cloud Control, all devices by that on-premises management center will also be removed.

### Before you begin

Disable the auto-onboarding option to remove one or more on-premises management centers onboarded using auto-onboarding functionality.

1. In the left pane, choose **Settings > General Settings**.



2. In the **Tenant Settings** section, disable **Auto onboard On-Prem FMCs integrated to Cisco Security Cloud**.

## Procedure

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- Step 1** In the left pane, click **Administration > Firewall Management Center**.
  - Step 2** Ensure the **FMC** tab is selected and choose the on-premises management center you want to remove.
  - Step 3** In the **Device Actions** pane located to the right, click **Remove On-Prem FMC and its managed devices**.
  - Step 4** Click **OK** to confirm that you want to remove the on-premises management center and its managed devices from your tenant.
  - Step 5** Refresh your browser to see an updated list of available devices.
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