Easy Deployment Guide for Cisco Secure Firewall Threat Defense with Cisco Defense Orchestrator

First Published: 2020-10-12

Last Modified: 2024-10-21

Easy Deployment Guide for Cisco Secure Firewall Threat Defense with CDO

This document provides information on easy deployment of threat defense devices using zero-touch provisioning for customers using the cloud-delivered Firewall Management Center.

Note For the on-prem management center zero-touch provisioning, see the getting started guide for your model.

This document is targeted for the following device models:

Model	Version
Firepower 1000	7.2 or later
Secure Firewall 1210/1220	7.6 or later
Firepower 2100	7.2, 7.3, or 7.4
Secure Firewall 3100 **Note** Secure Firewall 3105 is supported on software version 7.3 or later.	7.2 or later

Branch Manager: Prepare and Connect a New Threat Defense Device to Your Network

Zero-Touch Provisioning allows you to connect a new threat defense device to your network so that your IT department can onboard the device to the cloud-delivered Firewall Management Center and configure it remotely.

Make sure the device is unconfigured or set up as new. Zero-Touch Provisioning is intended for new devices only. Pre-configuration can prevent zero-touch provisioning, based on your settings.

Do you need to reimage your device?

If your device is not already running version 7.2 or later, you can reimage the device to support zero-touch provisioning. See the appropriate getting started guide for your device model:

- Firepower 1010 series devices.
- Firepower 1100 series devices.
- Secure Firewall 1210/1220 series devices
- Firepower 2100 series devices.
- Secure Firewall 3100 series devices.

Connect a New Threat Defense to Your Network

If you received a device at your branch office and your job is to plug it in to your network, watch this video.

The video describes your device and the LED sequences on the device that indicate the device's status. You can confirm the device's status with your IT department by looking at the LEDs. These are the steps described in the video:

1. Look at the shipping carton the device came in. It should have a plain white sticker on it identifying the software installed on the device. The software package number should look similar to one in the following table:

Model Numbers that Support Zero-Touch Provisioning	Supported Software Version	Software Package
Firepower 1000 series device models: 1010, 1120, 1140, 1150	7.2 or later	SF-F1K-TDx.x-K9 For example, SF-F1K-TD7.2-K9
Secure Firewall 1210/1220	7.6 or later	SF-F1200-TDx.x-K9 For example, SF-F1200-TD7.6-K9
Firepower 2100 series device models: 2110, 2120, 2130, 2140	7.2, 7.3, or 7.4	SF-F2K-TDx.x-K9 For example, SF-F2K-TD7.2-K9
Secure Firewall 3100 series device models: 3110, 3120, 3130, 3140	7.2 or later	SF-F3K-TDx.x-K9 For example, SF-F3K-TD7.2-K9
Secure Firewall 3100 series device model: 3105	7.3 or later	SF-F3K-TDx.x-K9 For example, SF-F3K-TD7.3-K9

2. Before you rack the device or throw away the shipping carton, record your device's serial number and send it to your IT department. They need it to manage the device. The serial number of the device is located on the shipping carton the device came in and on a label affixed to the device itself. See Find Your Device's Serial Number, on page 6 for more information.

3. Unpack the box and take inventory of the contents. Keep the shipping carton until you have plugged in the device, you have connected it to your network, and the device has successfully contacted the Cisco cloud.
4. Connect the device to power.
5. Connect the network cable from the Ethernet 1/1 interface to your WAN modem. Your WAN modem is your branch's connection to the internet and your device's route to the internet as well.

Note Do not connect the network cable from the device's Management interface to your WAN.

Figure 1: Firepower 1010 Cabling

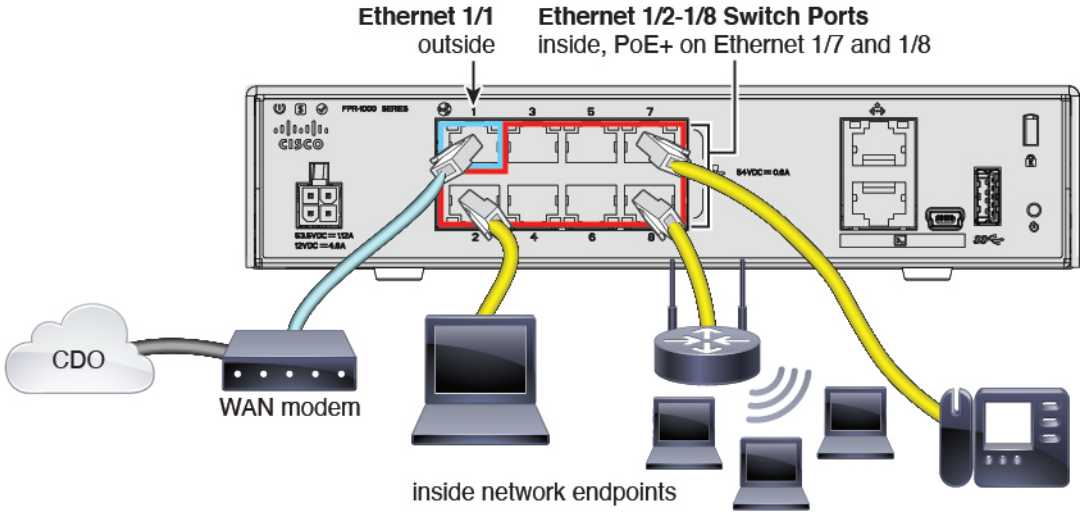


Figure 2: Firepower 1100 Cabling

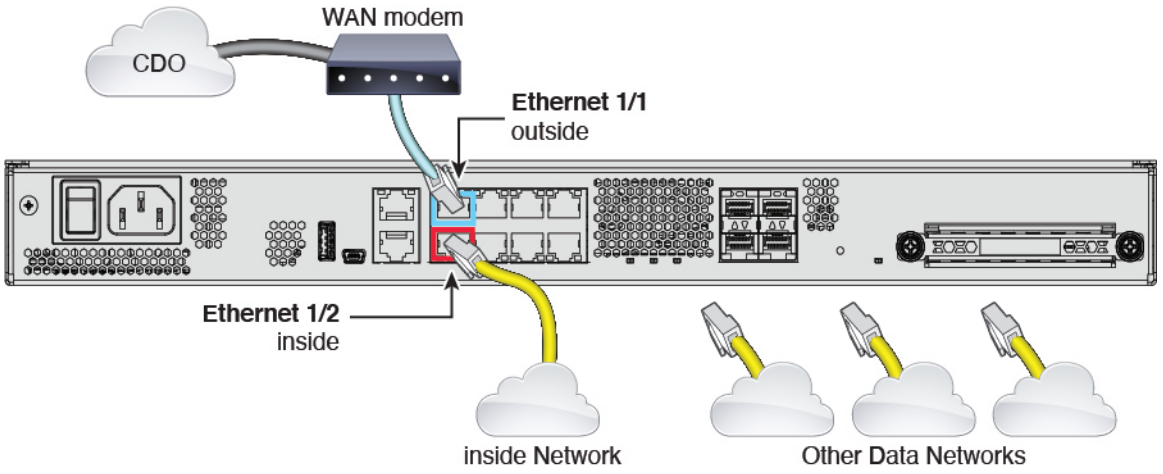


Figure 3: Secure Firewall 1210/1220 Cabling

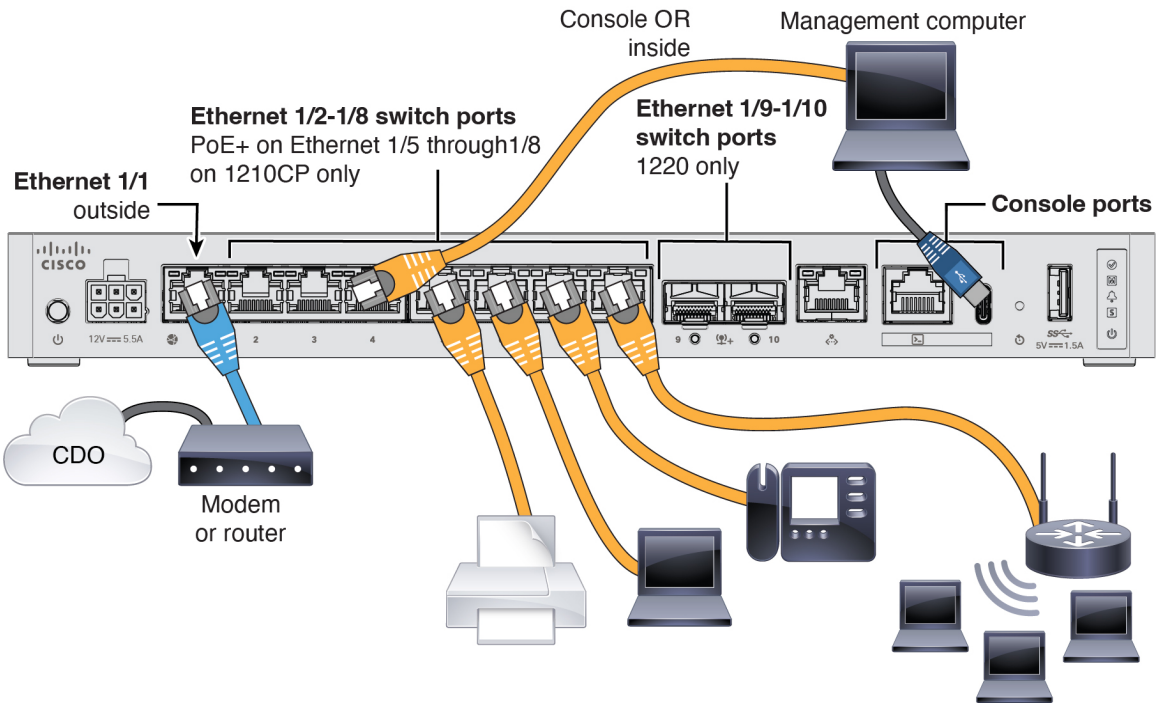


Figure 4: Firepower 2100 Cabling

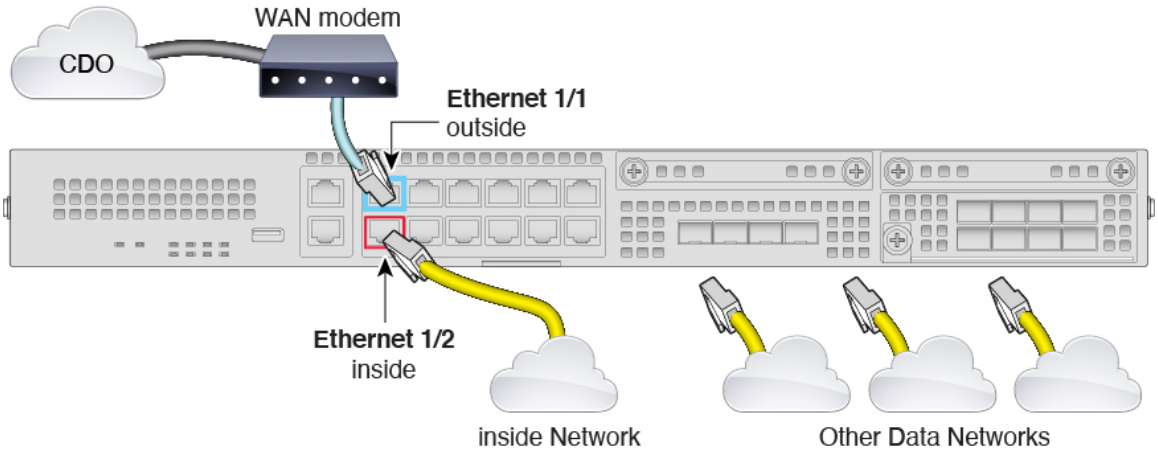
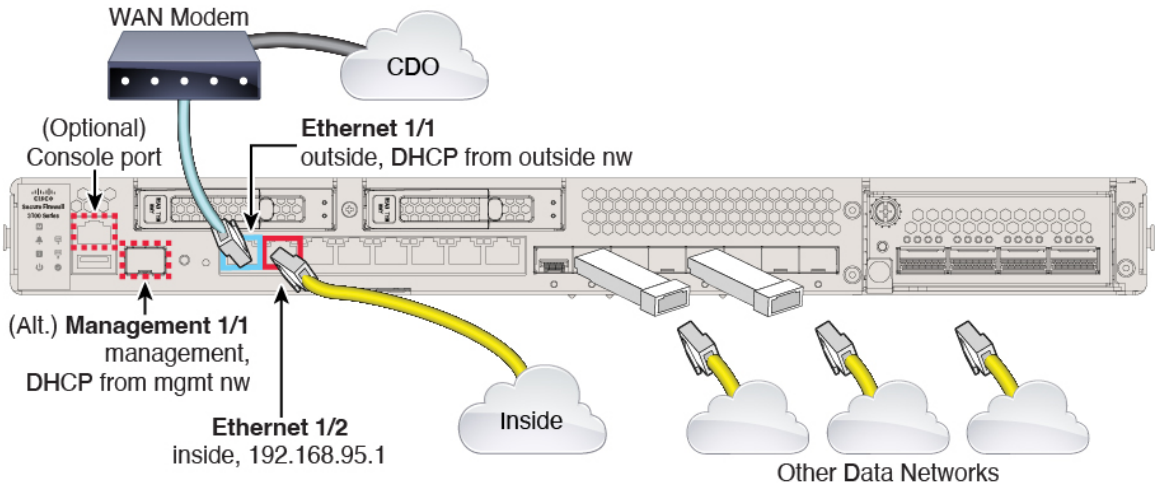


Figure 5: Secure Firewall 3100 Cabling



6. Observe the S (System), SYS, or M (Managed) LED, depending on your model, to determine if the device has reached the Cisco cloud. The table below provides the LED statuses and the approximate time they occur after the you connect the Ethernet cables. It may take a little more time or a little less time for the firewall to reach the Cisco cloud based on network conditions and the firewall model you are working with.

LED Status	Description	Time After Device Powered On (minutes:seconds)
Fast flashing green **SYS** — Firepower 2100 **S** — All other models	The device is booting up correctly.	01:00
Fast flashing amber **SYS** — Firepower 2100 **S** — All other models	The device failed to boot correctly.	01:00
Solid green **SYS** — Firepower 2100 **S** — All other models	The application is loaded on the device.	10:00
Solid amber **SYS** — Firepower 2100 **S** — All other models	The application failed to load correctly on the device.	10:00
Slow flashing green **SYS** — Firepower 2100 **S** — Firepower 1000	The device is connected to the Cisco cloud.	15:00

LED Status	Description	Time After Device Powered On (minutes:seconds)
M — Secure Firewall 3100 and Secure Firewall 1210/1220		
Alternating green and amber **SYS** — Firepower 2100 **S** — Firepower 1000 **M** — Secure Firewall 3100 and Secure Firewall 1210/1220	The device failed to connect to the Cisco cloud.	15:00

After you complete this task, locate and supply the device's serial number to your IT administrator. The IT admin will configure the firewall remotely.

Find Your Device's Serial Number

Your IT department needs your device's serial number to connect to the device and manage it remotely. You can find the serial number in three different places.

The Label on the Shipping Carton

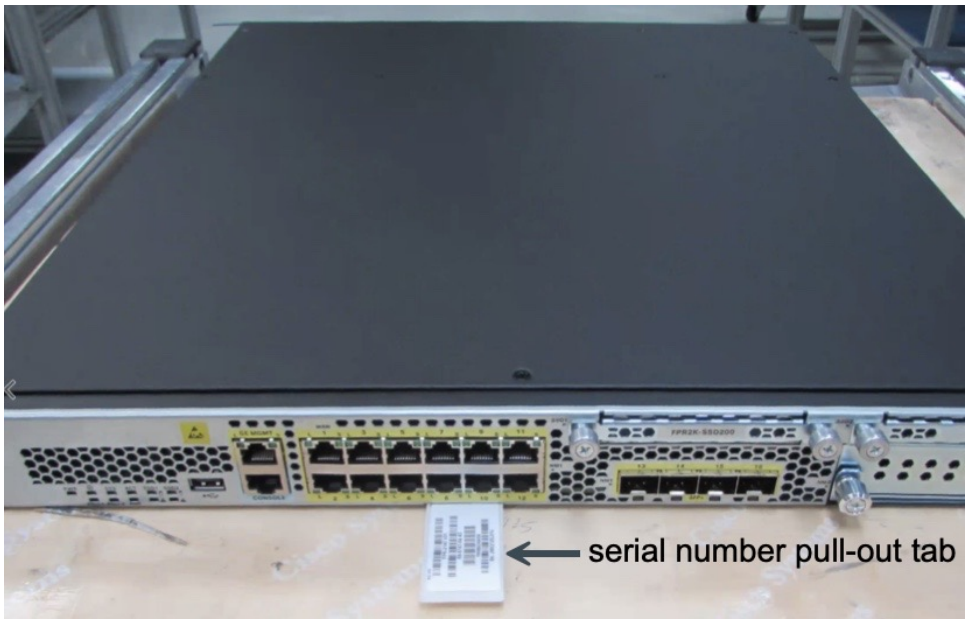
The serial number is printed on the label on the shipping carton the device came in. Here is an example:

The Label on the Chassis

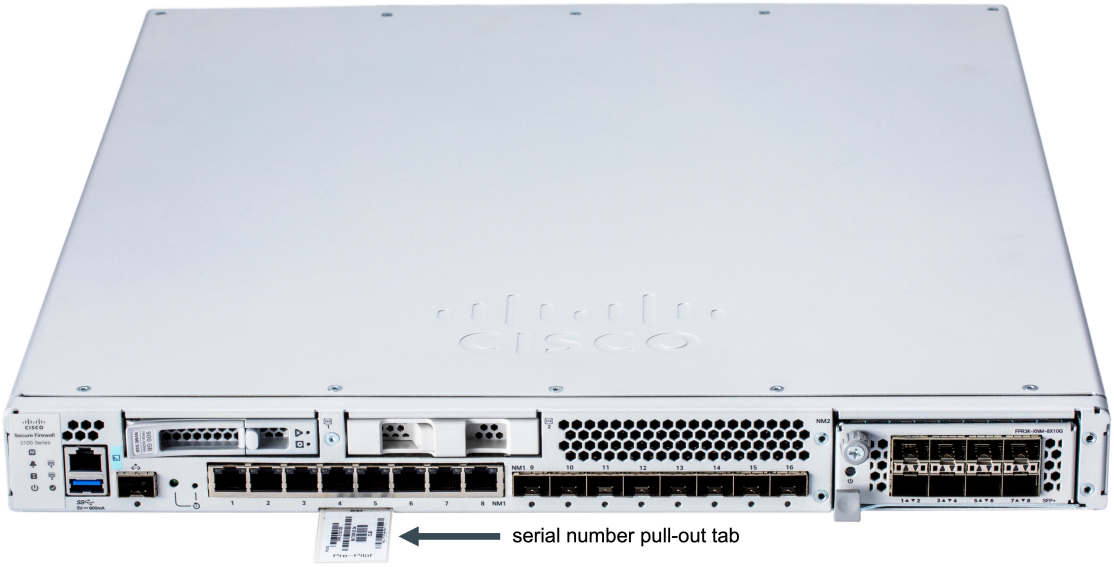
Firepower 1010: The serial number is on a label on the bottom of the device.

Firepower 1100: The serial number is on a label on the back of the device or on the bottom of the device.

Firepower 2100: The serial number is on a label on a pull-out tab on the front of the device.



Secure Firewall 3100:The serial number is on a label on a pull-out tab on the front of the device.



Connect to the Device Console Using a Console Cable

You can connect a console cable from a device such as a laptop to your firewall, open up a terminal window, and enter a few commands to display the device's serial number.

Note This procedure connects a computer to the firewall using a console cable in order to retrieve the device's serial number, it is for advanced users who are comfortable working with a command line interface and, possibly, installing software drivers on their laptops.

1. See the appropriate hardware installation guide for your device model for instructions on how to connect a laptop to your device using a console cable.

   For more information, please refer to the Getting Started Guide for your specific model.

2. Log in to the device as the **admin** user. You need to enter the default password if this is your first login attempt: **`Admin123`**. You will then be prompted to change the password.

3. At the `firepower#` prompt, enter `show chassis detail`. Here is an example of the output from a 1010 series device. Your device's model number will be listed in the **Serial Number (SN)** field:

```
firepower# show chassis detail

Chassis:
    Chassis: 1
    Overall Status: Operable
    Oper qualifier: N/A
    Operability: Operable
    Product Name: Cisco Firepower 1010 Security Appliance
    PID: FPR-1010
    VID: V01
    Vendor: Cisco Systems, Inc
    Serial (SN): JMX2405X0R9
    HW Revision: 0.6
    PCB Serial Number: JAD24040S6L
    Power State: Ok
```

```
    Thermal Status: Ok
    Boot Status: OK
    Current Task:
firepower#
```

The output shows two serial numbers. You **must** report the value of the Serial (SN) field to your IT department to complete the onboarding process.

4. When you onboard the device, for the **Password Reset** area, be sure to choose **No** because you already set the password.

Onboard a Device to Cloud-delivered Firewall Management Center Using Zero-Touch Provisioning

If you are a cloud-delivered Firewall Management Center administrator and someone at a branch office has connected a device to their network, follow the zero-touch provisioning method described in this section.

Note If you want to onboard *a fully configured* new device, use the CLI registration key method to onboard the device. See Onboard a Threat Defense to the Cloud-delivered Firewall Management Cloud-delivered Firewall Management Center Using Serial Number for more information.

Procedure

Step 1 Log in to CDO.

Step 2 In the left pane, click **Inventory**.

Step 3 Click the **FTD** tile.

Step 4 Under **Management Mode**, ensure you select **FTD**.

Step 5 Click the **Use Serial Number** tile.

Step 6 From the **Select FMC** drop-down list, select **Cloud-Delivered FMC** and click **Next**.

Step 7 In the **Connection** area, enter the **Device Serial Number** and the **Device Name**. Select **Next**.

Step 8 In the **Password Reset** area, choose an option depending on whether the device was logged into and had the password changed or not:

- Default password — Click **Yes, this new device has never been logged into or configured for a manager**.
- Changed password — Click **No, this device has been logged into and configured for a manager**.

Step 9 Click **Next**.

Step 10 In the **Policy Assignment** step, use the drop-down menu to select an access control policy to deploy once the device is onboarded. If you have no policies configured, select the **Default Access Control Policy**.

Step 11 Select the subscription licenses you want to apply to the device. Click **Next**.

Step 12 In the **Done** area, click **Go to Inventory**.

What to do next

Once the device is synchronized, select the device you just onboarded from the **Inventory** page and select any of the options listed under the **Device Management** pane located to the right. We strongly recommend the following actions:

- If you did not already, create a custom access control policy to customize the security for your environment. See Access Control Overview in *Managing Firewall Threat Defense with Cloud-Delivered Firewall Management Center in Cisco Defense Orchestrator* for more information.
- Enable Cisco Security Analytics and Logging (SAL) to view events in the CDO dashboard **or** register the device to an Secure Firewall Management Center for security analytics. See Cisco Security Analytics and Logging in *Managing Firewall Threat Defense with Cloud-Delivered Firewall Management Center in Cisco Defense Orchestrator* for more information.