



Secure Firewall 1230/1240/1250 Threat Defense Getting Started: Management Center at a Central Headquarters

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CHAPTER 1

Before You Begin

Install the firewall at a branch office and manage it on the outside interface using a central Secure Firewall Management Center.



Note For high availability if you use zero-touch provisioning, we recommend using the Management interface. If you use zero-touch provisioning on outside and want to use high availability, you will have to change the outside IP address to a static address after registration.

- [Power On the Firewall, on page 1](#)
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Power On the Firewall

System power is controlled by a rocker power switch located on the rear of the firewall. The rocker power switch provides a soft notification that supports graceful shutdown of the system to reduce the risk of system software and data corruption.



Note The first time you boot up the firewall, threat defense initialization can take approximately 15 to 30 minutes.

Before you begin

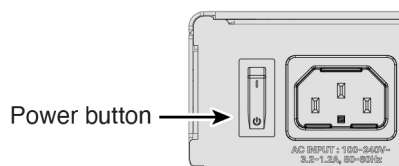
It's important that you provide reliable power for your firewall (for example, using an uninterruptable power supply (UPS)). Loss of power without first shutting down can cause serious file system damage. There are many processes running in the background all the time, and losing power does not allow the graceful shutdown of your system.

Procedure

Step 1 Attach the power cord to the firewall, and connect it to an electrical outlet.

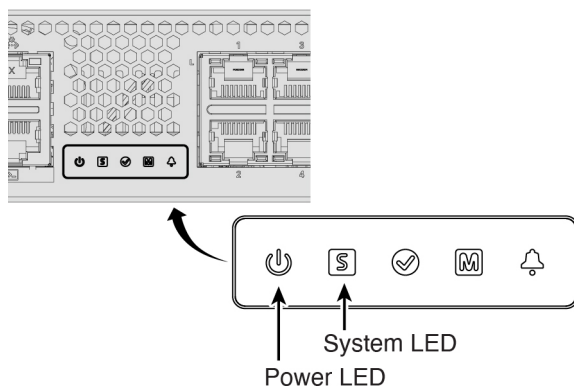
Step 2 Turn the power on using the rocker power switch located on the rear of the chassis, adjacent to the power cord.

Figure 1: Power Button



Step 3 Check the Power LED on the back of the firewall; if it is solid green, the firewall is powered on.

Figure 2: System and Power LEDs



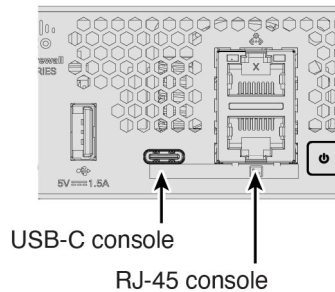
Step 4 Check the System LED on the back of the firewall; after it is solid green, the system has passed power-on diagnostics.

Which Application is Installed: Threat Defense or ASA?

Both applications, threat defense or ASA, are supported on the hardware. Connect to the console port and determine which application was installed at the factory.

Procedure

Step 1 Connect to the console port.

Figure 3: Console Port

Step 2 See the CLI prompts to determine if your firewall is running threat defense or ASA.

Threat Defense

You see the firepower login (FXOS) prompt. You can disconnect without logging in and setting a new password. If you need to log in all the way, see [Access the Threat Defense CLI, on page 3](#).

```
firepower login:
```

ASA

You see the ASA prompt.

```
ciscoasa>
```

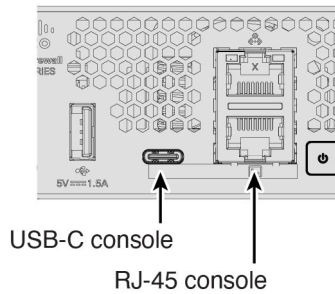
Step 3 If you are running the wrong application, see [Cisco Secure Firewall ASA and Secure Firewall Threat Defense Reimage Guide](#).

Access the Threat Defense CLI

You might need to access the CLI for configuration or troubleshooting.

Procedure

Step 1 Connect to the console port.

Figure 4: Console Port

- Step 2** You connect to FXOS. Log in to the CLI using the **admin** username and the password (the default is **Admin123**). The first time you log in, you are prompted to change the password.

```
firepower login: admin
Password: Admin123
Successful login attempts for user 'admin' : 1

[...]

Hello admin. You must change your password.
Enter new password: *****
Confirm new password: *****
Your password was updated successfully.

[...]

firepower#
```

- Step 3** Change to the threat defense CLI.

Note

If you want to use the device manager for initial setup or use zero-touch provisioning, do not access the threat defense CLI, which starts the CLI setup.

connect ftd

The first time you connect to the threat defense CLI, you are prompted to complete initial setup.

Example:

```
firepower# connect ftd
>
```

To exit the threat defense CLI, enter the **exit** or **logout** command. This command returns you to the FXOS prompt.

Example:

```
> exit
firepower#
```

Check the Version and Reimage

We recommend that you install your target version before you configure the firewall. Alternatively, you can perform an upgrade after you are up and running, but upgrading, which preserves your configuration, may take longer than using this procedure.

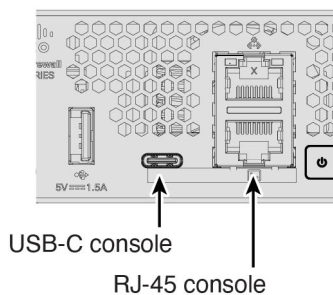
What Version Should I Run?

Cisco recommends running a Gold Star release indicated by a gold star next to the release number on the software download page. You can also refer to the release strategy described in <https://www.cisco.com/c/en/us/products/collateral/security/firewalls/bulletin-c25-743178.html>.

Procedure

Step 1 Connect to the console port.

Figure 5: Console Port



Step 2 At the FXOS CLI, show the running version.

scope ssa

show app-instance

Example:

```
Firepower# scope ssa
Firepower /ssa # show app-instance
```

Application Name	Slot	ID	Admin State	Operational State	Running Version	Startup Version	Cluster	Oper State
ftd	1		Enabled	Online	7.6.0.65	7.6.0.65	Not Applicable	

Step 3 If you want to install a new version, perform these steps.

- By default, the Management interface uses DHCP. If you need to set a static IP address for the Management interface, enter the following commands.

scope fabric-interconnect a

```
set out-of-band static ip ip netmask netmask gw gateway
commit-buffer
```

- b) Perform the [reimage procedure](#) in the [FXOS troubleshooting guide](#).

You will need to download the new image from a server accessible from the Management interface.

After the firewall reboots, you connect to the FXOS CLI again.

- c) At the FXOS CLI, you are prompted to set the admin password again.

For low-touch provisioning, when you onboard the device, for the **Password Reset** area, be sure to choose **No** because you already set the password.

- d) Shut down the firewall. See [\(If Needed\) Power Off the Firewall, on page 7](#).

Obtain Licenses

When you bought your device from Cisco or a reseller, your licenses should have been linked to your Smart Software License account. If you don't have an account on the [Smart Software Manager](#), click the link to [set up a new account](#).

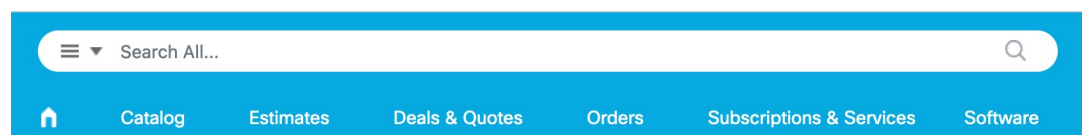
If you have not already done so, register the management center with the Smart Software Manager. Registering requires you to generate a registration token in the Smart Software Manager. See the [Cisco Secure Firewall Management Center Administration Guide](#) for detailed instructions.

The threat defense has the following licenses:

- Essentials—Required
- IPS
- Malware Defense
- URL Filtering
- Cisco Secure Client

1. If you need to add licenses yourself, go to [Cisco Commerce Workspace](#) and use the **Search All** field.

Figure 6: License Search



2. Search for the following license PIDs.



Note If a PID is not found, you can add the PID manually to your order.

- Essentials:

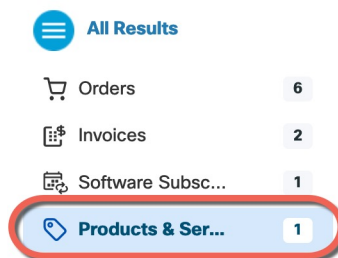
- *Included automatically*
- IPS, Malware Defense, and URL combination:
 - L-CSF1230T-TMC=
 - L-CSF1240T-TMC=
 - L-CSF1250T-TMC=

When you add one of the above PIDs to your order, you can then choose a term-based subscription corresponding with one of the following PIDs:

- L-CSF1230-TMC-1Y
- L-CSF1230-TMC-3Y
- L-CSF1230-TMC-5Y
- L-CSF1240-TMC-1Y
- L-CSF1240-TMC-3Y
- L-CSF1240-TMC-5Y
- L-CSF1250-TMC-1Y
- L-CSF1250-TMC-3Y
- L-CSF1250-TMC-5Y
- Cisco Secure Client—See the [Cisco Secure Client Ordering Guide](#).

3. Choose **Products & Services** from the results.

Figure 7: Results



(If Needed) Power Off the Firewall

It's important that you shut down your system properly. Simply unplugging the power or pressing the power switch can cause serious file system damage. There are many processes running in the background all the time, and unplugging or shutting off the power does not allow the graceful shutdown of your firewall system.

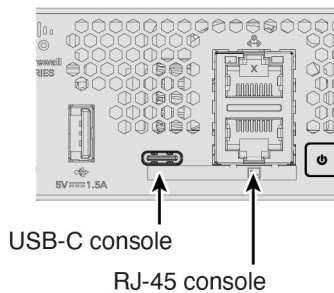
Power Off the Firewall at the CLI

You can use the FXOS CLI to safely shut down the system and power off the firewall.

Procedure

Step 1 Connect to the console port.

Figure 8: Console Port



Step 2 In the FXOS CLI, connect to local-mgmt mode.

firepower # **connect local-mgmt**

Step 3 Shut down the system.

firepower(local-mgmt) # **shutdown**

Example:

```
firepower(local-mgmt)# shutdown
This command will shutdown the system. Continue?
Please enter 'YES' or 'NO': yes
INIT: Stopping Cisco Threat Defense.....ok
```

Step 4 Monitor the system prompts as the firewall shuts down. When the shutdown is complete, you will see the following prompt.

```
System is stopped.
It is safe to power off now.
Do you want to reboot instead? [y/N]
```

Step 5 You can now turn off the power switch and unplug the power to physically remove power from the chassis if necessary.

Power Off the Firewall Using the Management Center

Shut down your system properly using the management center.

Procedure

Step 1

Shut down the firewall.

- a) Choose **Devices > Device Management**.
- b) Next to the device that you want to restart, click **Edit** (✎).
- c) Click the **Device** tab.
- d) Click **Shut Down Device** (🔌) in the **System** section.
- e) When prompted, confirm that you want to shut down the device.

Step 2

If you have a console connection to the firewall, monitor the system prompts as the firewall shuts down. When shutdown is complete, you will see the following prompt.

```
System is stopped.  
It is safe to power off now.
```

```
Do you want to reboot instead? [y/N]
```

If you do not have a console connection, wait approximately 3 minutes to ensure the system has shut down.

Step 3

You can now turn off the power switch and unplug the power to physically remove power from the chassis if necessary.



CHAPTER 2

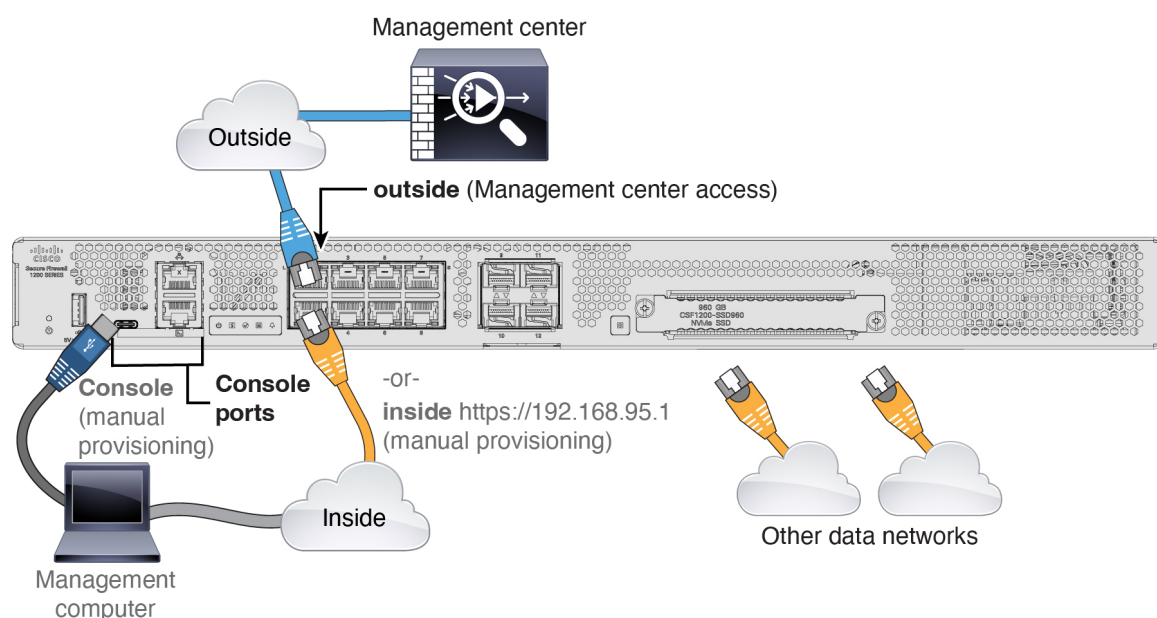
Cable and Register the Firewall

Cable the firewall and then register the firewall to the management center.

- [Cable the Firewall](#), on page 11
- [Perform Initial Configuration \(Manual Provisioning\)](#), on page 12
- [Register the Firewall with the Management Center](#), on page 21

Cable the Firewall

- Install SFP/SFP+ modules into ports Ethernet 1/9 and higher.
- See the [hardware installation guide](#) for more information.
- If you use zero-touch provisioning, do not cable both the outside and the Management interface. This guide covers management on the outside interface, but you may want to use zero-touch provisioning on Management with high availability. If you use zero-touch provisioning on outside and want to use high availability, you will have to change the outside IP address to a static address after registration.



Perform Initial Configuration (Manual Provisioning)

For manual provisioning, perform initial configuration of the firewall using the Secure Firewall device manager or using the CLI.

Initial Configuration: Device Manager

Using this method, after you register the firewall, the following interfaces will be preconfigured in addition to the Management interface:

- Ethernet 1/1—**outside**, IP address from DHCP, IPv6 autoconfiguration
- Ethernet 1/2— **inside**, 192.168.95.1/24
- Default route—Obtained through DHCP on the outside interface
- Additional interfaces—Any interface configuration from the device manager is preserved.

Other settings, such as the DHCP server on inside, access control policy, or security zones, are not preserved.

Procedure

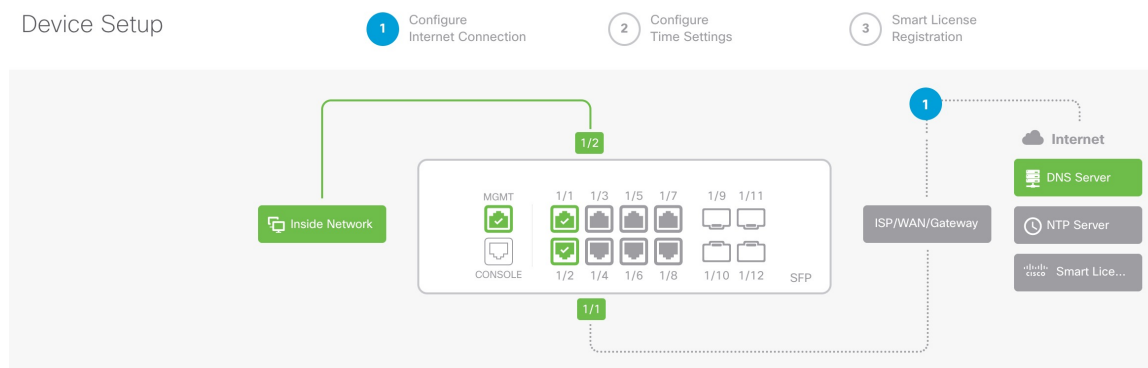
Step 1 Connect your computer to the inside interface (Ethernet 1/2).

Step 2 Log into the device manager.

- Go to <https://192.168.95.1>.
- Log in with the username **admin** and the default password **Admin123**.
- You are prompted to read and accept the General Terms and change the admin password.

Step 3 Use the setup wizard.

Figure 9: Device Setup



Note

The exact port configuration depends on your model.

- Configure the outside and management interfaces.

Figure 10: Connect firewall to internet

Connect firewall to Internet

The initial access control policy will enforce the following actions.
You can edit the policy after setup.

Rule 1 Trust Outbound Traffic This rule allows traffic to go from inside to outside, which is needed for the Smart License configuration.	Default Action Block all other traffic The default action blocks all other traffic.
---	---

Outside Interface Address

Connect Ethernet1/1 (Outside) to your ISP/WAN device, for example, your cable modem or router. Then, configure the addresses for the outside interface.

Configure IPv4

Using DHCP ▼

Configure IPv6

Using DHCP ▼

NEXT

Don't have internet connection?
[Skip device setup](#) i

- 1. Outside Interface Address**—Use a static IP address if you plan for high availability. You cannot configure PPPoE using the setup wizard; you can configure PPPoE after you complete the wizard.
- 2. Management Interface**—The Management interface settings are used even though you are using manager access on the outside interface. For example, management traffic that is routed over the backplane through the outside interface will resolve FQDNs using these Management interface DNS servers, and not the outside interface DNS servers.

DNS Servers—The DNS server for the system's management address. The default is the OpenDNS public DNS servers. These will probably match the outside interface DNS servers you set later since they are both accessed from the outside interface.

Firewall Hostname

- b) Configure the **Time Setting (NTP)** and click **Next**.

Figure 11: Time Setting (NTP)

Time Setting (NTP)

System Time: 11:56:20AM October 03 2024 -06:00

Time Zone for Scheduling Tasks

(UTC+00:00) UTC

NTP Time Server

Default NTP Servers

Server Name

0.sourcefire.pool.ntp.org

1.sourcefire.pool.ntp.org

2.sourcefire.pool.ntp.org

NEXT

- c) Select **Start 90 day evaluation period without registration**.

Register with Cisco Smart Software Manager

Register with Cisco Smart Software Manager to use the full functionality of this device and to apply subscription licenses.

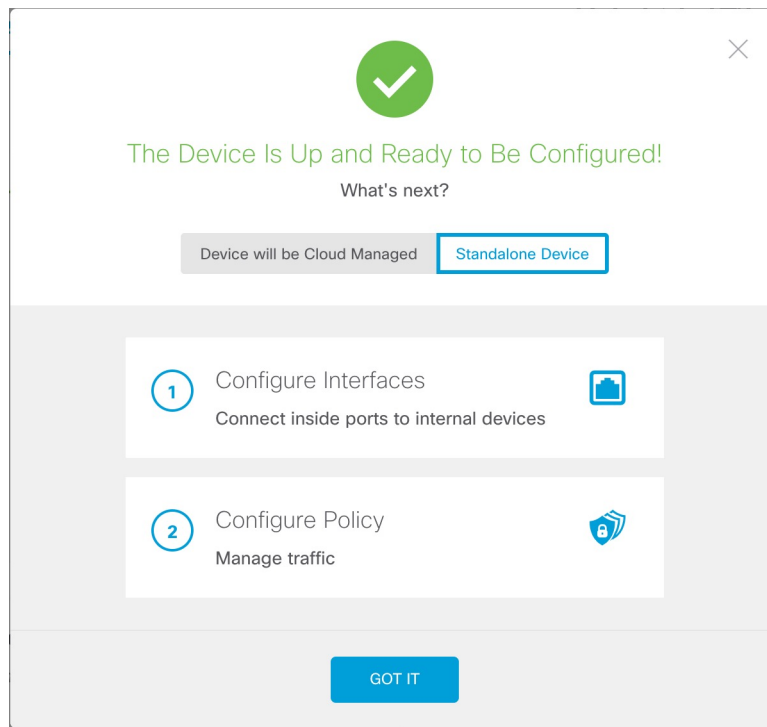
[What is smart license? ↗](#)

☐ **Continue with evaluation period: Start 90-day evaluation period without registration**
Recommended if device will be cloud managed. [Learn More ↗](#)
Please make sure you register with Cisco before the evaluation period ends.
Otherwise you will not be able to make any changes to the device configuration.

Do not register the threat defense with the Smart Software Manager; all licensing is performed on the management centerSecurity Cloud Control.

- d) Click **Finish**.

Figure 12: What's Next



e) Choose **Standalone Device**, and then **Got It**.

Step 4

If you want to configure additional interfaces, choose **Device**, and then click the link in the **Interfaces** summary.

Step 5

Register with the management center Security Cloud Control by choosing **Device > System Settings > Central Management** and clicking **Proceed**

Configure the **Management Center/SCC/Details**.

Note

Older versions may show "CDO" instead of "SCC."

Figure 13: Management Center/SCC Details

Management Center/SCC Details

Do you know the Management Center/SCC hostname or IP address?

☒ Yes ☐ No

Threat Defense Management Center/SCC


 10.89.5.4
 fe80::6a87:c6ff:fea6:5480/64

→


 10.89.5.35

Management Center/SCC Hostname or IP Address

10.89.5.35

Management Center/SCC Registration Key

.... 

NAT ID

Required when the management center/SCC hostname or IP address is not provided. We recommend always setting the NAT ID even when you specify the management center/SCC hostname or IP address.

11204

Connectivity Configuration

Threat Defense Hostname

1120-4

DNS Server Group

CustomDNSServerGroup ▼

Management Center/SCC Access Interface

outside (Ethernet1/1) ▼

Type: Static | **IP Address:** 10.89.5.6 / 255.255.255.192 [Edit](#)

i Before you connect to the management center or SCC, perform additional configuration:

- [Add a static route](#) through the data management interface so the threat defense can reach the management center. Or [review your current static routes](#).
- Optional. [Add a Dynamic DNS \(DDNS\) method](#). Or [review your current DDNS methods](#). DDNS ensures the management center can reach the threat defense at its Fully-Qualified Domain Name (FQDN) if the threat defense's IP address changes.

CANCEL
CONNECT

- a) For **Do you know the Management Center/SCC Hostname or IP address**, click **Yes** if you can reach the management center using an IP address or hostname or **No** if the management center is behind NAT or does not have a public IP address or hostname.
- b) If you chose **Yes**, enter the **Management Center/SCC Hostname/IP Address**.

- c) Specify the **Management Center/SCC Registration Key**.

This key is a one-time registration key of your choice that you will also specify on the management center when you register the firewall. The registration key must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-). This ID can be used for multiple firewalls registering to the management center.

- d) Specify a **NAT ID**.

This ID is a unique, one-time string of your choice that you will also specify on the management center. We recommend that you specify the NAT ID even if you know the IP addresses of both devices. The NAT ID must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-). This ID *cannot* be used for any other firewalls registering to the management center. The NAT ID is used in combination with the IP address to verify that the connection is coming from the correct device; only after authentication of the IP address/NAT ID will the registration key be checked.

Step 6 Configure the **Connectivity Configuration**.

- a) Specify the **Threat Defense Hostname**.

This FQDN will be used for the outside interface.

- b) Specify the **DNS Server Group**.

Choose an existing group, or create a new one. The default DNS group is called **CiscoUmbrellaDNSServerGroup**, which includes the OpenDNS servers.

To retain the outside DNS server setting after registration, you need to re-configure the DNS Platform Settings in the management center.

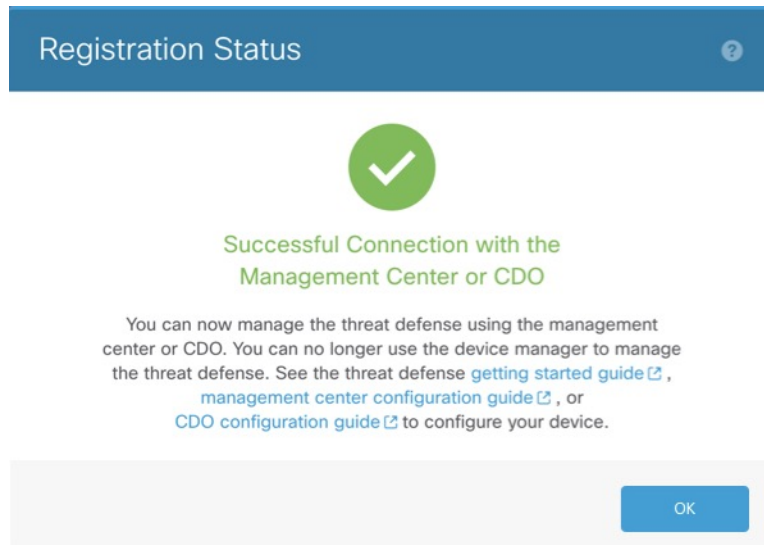
- c) For the **Management Center/SCC Access Interface**, click **Data Interface**, and then choose **outside**.

Step 7 (Optional) Click **Add a Dynamic DNS (DDNS) method**.

DDNS ensures the management center can reach the threat defense at its FQDN if the threat defense's IP address changes.

Step 8 Click **Connect**.

The **Registration Status** dialog box shows the current status of the management center Security Cloud Control registration.

Figure 14: Successful Connection

- Step 9** After the **Saving Management Center/SCC Registration Settings** step on the status screen, go to the management centerSecurity Cloud Control and add the firewall. See [Add a Device Using Manual Provisioning, on page 26](#).

Initial Configuration: CLI

Set the dedicated Management IP address, gateway, and other basic networking settings using the CLI setup script.

Procedure

- Step 1** Connect to the console port and access the threat defense CLI. See [Access the Threat Defense CLI, on page 3](#).
- Step 2** Complete the CLI setup script for the Management interface settings.

Note

You cannot repeat the CLI setup script unless you clear the configuration, for example, by reimaging. However, all of these settings can be changed later at the CLI using **configure network** commands. See [Cisco Secure Firewall Threat Defense Command Reference](#).

```
You must accept the EULA to continue.
Press <ENTER> to display the EULA:
Cisco General Terms
[...]
```

```
Please enter 'YES' or press <ENTER> to AGREE to the EULA:
```

```
System initialization in progress. Please stand by.
You must configure the network to continue.
Configure at least one of IPv4 or IPv6 unless managing via data interfaces.
```

```
Do you want to configure IPv4? (y/n) [y]:
Do you want to configure IPv6? (y/n) [y]: n
```

Guidance: Enter **y** for at least one of these types of addresses. Although you do not plan to use the Management interface, you must set an IP address, for example, a private address.

```
Configure IPv4 via DHCP or manually? (dhcp/manual) [manual]:
```

Guidance: Choose **manual**. DHCP is not supported when using the outside interface for manager access. Make sure this interface is on a different subnet from the manager access interface to prevent routing issues.

```
Enter an IPv4 address for the management interface [192.168.45.61]: 10.89.5.17
Enter an IPv4 netmask for the management interface [255.255.255.0]: 255.255.255.192
Enter the IPv4 default gateway for the management interface [data-interfaces]:
```

Guidance: Set the gateway to be **data-interfaces**. This setting forwards management traffic over the backplane so it can be routed through the outside interface.

```
Enter a fully qualified hostname for this system [firepower]: 1010-3
Enter a comma-separated list of DNS servers or 'none' [208.67.222.222,208.67.220.220,2620:119:35::35]:
Enter a comma-separated list of search domains or 'none' []: cisco.com
If your networking information has changed, you will need to reconnect.
Disabling IPv6 configuration: management0
Setting DNS servers: 208.67.222.222,208.67.220.220,2620:119:35::35
Setting DNS domains:cisco.com
```

Guidance: Set the Management interface DNS servers. These will probably match the outside interface DNS servers you set later, since they are both accessed from the outside interface.

```
Setting hostname as 1010-3
Setting static IPv4: 10.89.5.17 netmask: 255.255.255.192 gateway: data on management0
Updating routing tables, please wait...
All configurations applied to the system. Took 3 Seconds.
Saving a copy of running network configuration to local disk.
For HTTP Proxy configuration, run 'configure network http-proxy'
```

```
Manage the device locally? (yes/no) [yes]: no
```

Guidance: Enter **no** to use the management center.

```
Setting hostname as 1010-3
Setting static IPv4: 10.89.5.17 netmask: 255.255.255.192 gateway: data on management0
Updating routing tables, please wait...
All configurations applied to the system. Took 3 Seconds.
Saving a copy of running network configuration to local disk.
For HTTP Proxy configuration, run 'configure network http-proxy'
```

Guidance: Enter **routed**. Outside manager access is only supported in routed firewall mode.

```
Configuring firewall mode ...
```

```
Device is in OffBox mode - disabling/removing port 443 from iptables.
Update policy deployment information
- add device configuration
- add network discovery
- add system policy
```

You can register the sensor to a Firepower Management Center and use the Firepower Management Center to manage it. Note that registering the sensor to a Firepower Management Center disables on-sensor Firepower Services management capabilities.

When registering the sensor to a Firepower Management Center, a unique alphanumeric registration key is always required. In most cases, to register a sensor to a Firepower Management Center, you must provide the hostname or

the IP address along with the registration key.
 'configure manager add [hostname | ip address] [registration key]'

However, if the sensor and the Firepower Management Center are separated by a NAT device, you must enter a unique NAT ID, along with the unique registration key.

'configure manager add DONTRESOLVE [registration key] [NAT ID]'

Later, using the web interface on the Firepower Management Center, you must use the same registration key and, if necessary, the same NAT ID when you add this sensor to the Firepower Management Center.
 >

Step 3 Configure the outside interface for manager access.

configure network management-data-interface

You are then prompted to configure basic network settings for the outside interface.

Manual IP Address

```
> configure network management-data-interface
Data interface to use for management: ethernet1/1
Specify a name for the interface [outside]: internet
IP address (manual / dhcp) [dhcp]: manual
IPv4/IPv6 address: 10.10.6.7
Netmask/IPv6 Prefix: 255.255.255.0
Default Gateway: 10.10.6.1
Comma-separated list of DNS servers [none]: 208.67.222.222,208.67.220.220
```

Guidance: To retain the outside DNS servers after registration, you need to re-configure the DNS Platform Settings in the management center.

```
DDNS server update URL [none]:
Do you wish to clear all the device configuration before applying ? (y/n) [n]:

Configuration done with option to allow manager access from any network, if you wish to change the
manager access network
use the 'client' option in the command 'configure network management-data-interface'.

Setting IPv4 network configuration.
Network settings changed.

>
```

IP Address from DHCP

```
> configure network management-data-interface
Data interface to use for management: ethernet1/1
Specify a name for the interface [outside]:
IP address (manual / dhcp) [dhcp]:
DDNS server update URL [none]:
https://dwinchester:pa$$w0rd17@domains.example.com/nic/update?hostname=<h>&myip=<a>
Do you wish to clear all the device configuration before applying ? (y/n) [n]:

Configuration done with option to allow manager access from any network, if you wish to change the
manager access network
use the 'client' option in the command 'configure network management-data-interface'.

Setting IPv4 network configuration.
Network settings changed.
```

>

Step 4 Identify the management center.**configure manager add** {hostname | IPv4_address | IPv6_address | **DONTRESOLVE**} reg_key nat_id

- {hostname | IPv4_address | IPv6_address | **DONTRESOLVE**}—Specifies either the FQDN or IP address of the management center. If the management center is not directly addressable, use **DONTRESOLVE**, in which case the firewall must have a reachable IP address or hostname.
- reg_key—Specifies a one-time registration key of your choice that you will also specify on the management center when you register the threat defense. The registration key must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-).
- nat_id—Specifies a unique, one-time string of your choice that you will also specify on the management center. The NAT ID must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-). This ID cannot be used for any other devices registering to the management center.

Example:

```
> configure manager add fmc-1.example.com regk3y78 natid56
Manager successfully configured.
```

Step 5 Shut down the threat defense so you can send the device to the remote branch office.

It's important that you shut down your system properly. Simply unplugging the power or pressing the power switch can cause serious file system damage. Remember that there are many processes running in the background all the time, and unplugging or shutting off the power does not allow the graceful shutdown of your system.

- Enter the **shutdown** command.
- Observe the Power LED and Status LED to verify that the chassis is powered off (appear unlit).
- After the chassis has successfully powered off, you can then unplug the power to physically remove power from the chassis if necessary.

Register the Firewall with the Management Center

Register the firewall with the management center depending on which deployment method you are using.

Add a Device Using the Serial Number (Zero-Touch Provisioning)

Zero-Touch Provisioning lets you register devices to the management center by serial number without having to perform any initial setup on the device. The management center integrates with the Cisco Security Cloud and Security Cloud Control for this functionality.



Note For management center version 7.4, you need to add the device using Security Cloud Control; see the [7.4 guide](#) for more information. The native management center workflow was added in 7.6. Also, for cloud integration in 7.4, see the **SecureX Integration** page in the management center.

Default Configuration

When you use zero-touch provisioning, the following interfaces are preconfigured. Note that other settings, such as the DHCP server on inside, access control policy, or security zones, are not configured.

- Ethernet 1/1—"outside", IP address from DHCP, IPv6 autoconfiguration
- Ethernet 1/2 (or for the , the VLAN1 interface)— "inside", 192.168.95.1/24
- Default route—Obtained through DHCP on the outside interface

Requirements

High availability is only supported when you use the Management interface because zero-touch provisioning uses DHCP, which is not supported for data interfaces and high availability.

Before you begin

- If the device does not have a public IP address or FQDN, set a public IP address/FQDN for the management center (for example, if it is behind NAT), so the device can initiate the management connection. See .

Procedure

Step 1 The first time you add a device using a serial number, integrate the management center with Cisco Security Cloud.

Note

For a management center high-availability pair, you also need to integrate the secondary management center with Cisco Security Cloud.

- Choose **Integration > Cisco Security Cloud**.
- Click **Enable Cisco Security Cloud** to open a separate browser tab to log you into your Cisco Security Cloud account and confirm the displayed code.

Make sure this page is not blocked by a pop-up blocker. If you do not already have a Cisco Security Cloud and Security Cloud Control account, you can add one during this procedure.

For detailed information about this integration, see .

Security Cloud Control onboards the on-prem management center after you integrate the management center with Cisco Security Cloud. Security Cloud Control needs the management center in its inventory for zero-touch provisioning to operate. However, you do not need to use Security Cloud Control directly. If you do use Security Cloud Control, its management center support is limited to device onboarding, viewing its managed devices, viewing objects associated with the management center, and cross-launching the management center.

- Make sure **Enable Zero-Touch Provisioning** is checked.
- Click **Save**.

Step 2 Choose **Devices > Device Management**.

Step 3 From the **Add** drop-down menu, choose **Device (Wizard)**.

Step 4 Click **Use Serial Number**, and then click **Next**.

Figure 15: Device Registration Method

1 Device registration method

Registration Key

Register device using registration key

Serial Number

Register one or more devices using the serial number (zero-touch provisioning)

Next

Step 5 In a multi-domain environment, choose the **Domain** from the drop-down list and click **Next**.

Figure 16: Domain

Add Device(s)

1 Device registration method

Device registration method **Serial Number**

2 Domain

Domain *

Global/Pubs

3 Initial device configuration

4 Device details

Previous Next

Cancel Add Device

Step 6 For the **Initial device configuration**, click the **Basic** radio button.

Figure 17: Initial Device Configuration Method

Add Device (Wizard)

- Device registration method
Device registration method **Serial Number**
- Management Center Role
Management **Primary manager**
- Initial device configuration

Choose initial device configuration method

☒ Basic ☐ Device template

Apply basic configuration, including the access control policy.

Access Control Policy *

wfx_automatio... +

Smart licensing

Performance tier (threat defense virtual only)

FTDv50 - 10 Gbps

☒ Carrier

☒ Malware Defense

☒ IPS

☒ URL Filtering

Ensure that your smart licensing account has the required licenses.

☒ Transfer packet data as well as event data to the management center for inspection.
- Device details

Previous Next

Cancel Add Device

- Choose an initial **Access Control Policy** to deploy to the device upon registration, or create a new policy.
If the device is incompatible with the policy you choose, deploying will fail. This incompatibility could occur for multiple reasons, including licensing mismatches, model restrictions, passive vs inline issues, and other misconfigurations. After you resolve the issue that caused the failure, manually deploy configurations to the device.
- Choose **Smart licensing** licenses to apply to the device.
You can also apply licenses after you add the device, from the **System > Licenses > Smart Licenses** page.
- Click **Next**.

Step 7 Configure the **Device details**.

Figure 18: Device details

Add Device

1 Device registration method

Device registration method **Serial Number**

2 Initial device configuration

Access control policy **wfx_automationPolicy123**

3 Device details

Configure the public IP address or FQDN for the Management Center, except in scenarios where the Threat Defense device is publicly reachable, running a version earlier than 7.4, and is connected to the data interface. To configure the public IP address or FQDN, go to [Configuration > Manager Remote Access](#).

Serial number

Display name

Device group

Set the device password

Enter a new password if you have not previously changed the device's default password.

New password

Confirm password

Skip this field if you already changed the password on the device. If you provide a new password in this case, registration will fail.

[Previous](#)

[Cancel](#) [Add Device](#)

- Enter the **Serial number**.
- Enter the **Display name** as you want it to display in the management center
- (Optional) Choose the **Device Group**.
- Set the device password**.

If this device is unconfigured or a fresh install, then you need to set a new password. If you already logged in and changed the password, then leave this field blank. Otherwise, registration will fail.

Step 8 Click **Add Device**.

It may take up to two minutes for the management center to verify the device's heartbeat and establish communication. If the registration succeeds, the device is added to the list.

When using zero-touch provisioning on the outside interface, Security Cloud Control acts as a DDNS provider and does the following:

- Enables DDNS on outside using the **FMC Only** method. This method is only supported for zero-touch provisioning devices.
- Maps the outside IP address with the following hostname: *serial-number.local*.
- Provides the IP address/hostname mapping to the management center so it can resolve the hostname to the correct IP address.
- Informs the management center if the IP address ever changes, for example, if the DHCP lease renews.

If you use zero-touch provisioning on the Management interface, DDNS is not supported. The management center must be publicly reachable so the device can initiate the management connection.

You can continue to use Security Cloud Control as the DDNS provider, or you can later change the DDNS configuration in the management center to a different method.

Add a Device Using Manual Provisioning

Register the firewall to the management center manually using the device IP address or hostname and a registration key.

Procedure

- Step 1** Log into the management center.
- a) Enter the following URL.
`https://fmc_ip_address`
 - b) Enter your username and password.
 - c) Click **Log In**.
- Step 2** Choose **Devices > Device Management**.
- Step 3** From the **Add** drop-down menu, choose **Device (Wizard)**.
- Step 4** Click **Registration Key**, and then click **Next**.

Figure 19: Device Registration Method

Add Device (Wizard)

1 Device registration method

Registration Key
Register device using registration key

Serial Number
Cisco Security Cloud integration is not enabled. To enable Cisco Security Cloud integration, go to [Integration > Cisco Security Cloud](#).

2 Management Center Role

3 Initial device configuration

4 Device details

Next

Cancel Add Device

Step 5 In a multi-domain environment, choose the **Domain** from the drop-down list and click **Next**.

Figure 20: Domain

Add Device(s)

1 Device registration method
Device registration method **Registration Key**

2 Domain

Domain *
Global/Pubs

3 Initial device configuration

4 Device details

Previous Next

Cancel Add Device

Step 6 Click **Primary manager**.

Figure 21: Management Center Role

The screenshot displays the 'Add Device (Wizard)' interface. At the top, the title 'Add Device (Wizard)' is followed by a help icon. A vertical progress bar on the left indicates four steps: 1. Device registration method, 2. Management Center Role (current step), 3. Initial device configuration, and 4. Device details. Under step 1, 'Device registration method', the option 'Registration Key' is selected. Step 2, 'Management Center Role', features two radio button options: 'Primary manager' (selected) and 'Analytics-only manager (with Security Cloud Control)'. Below these options, a descriptive text states: 'You are using this management center for all policy configuration, logging, analytics, and upgrading.' On the right side of the wizard, there are two sets of buttons: 'Previous' and 'Next' (highlighted in blue) near the top, and 'Cancel' and 'Add Device' (highlighted in blue) near the bottom.

Step 7 For the **Initial Device Configuration**, click **Basic**.

Figure 22: Initial Device Configuration

Add Device (Wizard)

- Device registration method
Device registration method **Registration Key**
- Management Center Role
Management **Primary manager**
- Initial device configuration

Choose initial device configuration method

☒ Basic ☐ Device template

Apply basic configuration, including the access control policy.

Access Control Policy *

wfx_automatio...

Smart licensing

Performance tier (threat defense virtual only)

FTDv50 - 10 Gbps

☒ Carrier

☒ Malware Defense

☒ IPS

☒ URL Filtering

Ensure that your smart licensing account has the required licenses.

☒ Transfer packet data as well as event data to the management center for inspection.
- Device details

Previous Next

Cancel Add Device

- Choose an initial **Access Control Policy** to deploy to the device at registration, or create a new policy. Unless you already have a customized policy you know you need to use, choose **Create new policy**, and choose **Block all traffic**. You can change this later to allow traffic; see [Configure an Access Control Rule, on page 42](#).
- Choose **Smart Licensing** licenses to apply to the device.
You can also apply licenses after you add the device, from the **System > Licenses > Smart Licenses** page, including the Secure Client remote access VPN license.
- Click **Next**.

Step 8 Specify the **Device details**.

Figure 23: Device Details

Add Device (Wizard)

1 Device registration method
Device registration method **Registration Key**

2 Management Center Role
Management **Primary manager**

3 Initial device configuration
Access control policy **wfx_automationPolicy123**

4 Device details

Host: 10.89.5.41

Display name *: 3110-1

Registration key *: ****

Device group: Select...

Unique NAT ID: 31101

Note: Either Host or NAT ID is required.

Previous

Cancel Add Device

- For the **Host**, enter the IP address or the hostname of the device you want to add. Leave this field blank if you don't know the device IP address (for example, it's behind NAT).
- For the **Display name**, enter a name for the device as you want it to display in the management center. You cannot change this name later.
- For the **Registration Key**, enter the same registration key from your initial configuration.
- (Optional) Add the device to a **Device group**
- For the **Unique NAT ID**, enter the same ID from your initial configuration.
- Check **Transfer Packets** so that for each intrusion event, the device transfers the packet to the management center for inspection.

For each intrusion event, the device sends event information and the packet that triggered the event to the management center for inspection. If you disable it, only event information will be sent to the management center; the packet will not be sent.

Step 9 Click **Add Device**.

It may take up to two minutes for the management center to verify the device's heartbeat and establish communication. If the registration succeeds, the device is added to the list. If it fails, you will see an error message. If the device fails to register, check the following items:

- Ping—Access the device CLI, and ping the management center IP address using the following command:

```
ping system ip_address
```

If the ping is not successful, check your network settings using the **show network** command. If you need to change the device IP address, use the **configure network {ipv4 | ipv6} manual** command.

- Registration key, NAT ID, and management center IP address—Make sure you are using the same registration key, and if used, NAT ID, on both devices. You can set the registration key and NAT ID on the device using the **configure manager add** command.

For more troubleshooting information, see <https://cisco.com/go/fmc-reg-error>.



CHAPTER 3

Configure a Basic Policy

Configure a basic security policy with the following settings:

- Inside and outside interfaces—Assign a static IP address to the inside interface, and use DHCP for the outside interface.
- DHCP server—Use a DHCP server on the inside interface for clients.
- Default route—Add a default route through the outside interface.
- NAT—Use interface PAT on the outside interface.
- Access control—Allow traffic from inside to outside.

You can also customize your security policy to include more advanced inspections.

- [Configure Interfaces, on page 33](#)
- [Configure the DHCP Server, on page 38](#)
- [Configure NAT, on page 39](#)
- [Configure an Access Control Rule, on page 42](#)
- [Enable SSH on the Outside Interface, on page 45](#)
- [Deploy the Configuration, on page 46](#)

Configure Interfaces

When you use zero-touch provisioning or the device manager for initial setup, the following interfaces are preconfigured:

- Ethernet 1/1—**outside**, IP address from DHCP, IPv6 autoconfiguration
- Ethernet 1/2—**inside**, 192.168.95.1/24
- Default route—Obtained through DHCP on the outside interface

If you performed additional interface-specific configuration within device manager before registering with the management center, then that configuration is preserved.

The following example configures a routed-mode inside interface with a static address and a routed-mode outside interface using DHCP. It also adds a DMZ interface for an internal web server.

Procedure

Step 1 Choose **Devices > Device Management**, and click **Edit** (✎) for the firewall.

Step 2 Click **Interfaces**.

Figure 24: Interfaces

Device	Routing	Interfaces	Inline Sets	DHCP	VTEP				
						Q Search by name	Sync Device	Add Interfaces ▼	
Interface	Logical Name	Type	Security Zones	MAC Address (Active/Standby)	IP Address	Path Monitoring	Virtual Router		
● Management0/0	management	Physical				Disabled	Global	Q ↺	
🔌 GigabitEthernet0/0		Physical				Disabled		✎	
🔌 GigabitEthernet0/1		Physical				Disabled		✎	
🔌 GigabitEthernet0/2		Physical				Disabled		✎	
🔌 GigabitEthernet0/3		Physical				Disabled		✎	
🔌 GigabitEthernet0/4		Physical				Disabled		✎	
🔌 GigabitEthernet0/5		Physical				Disabled		✎	
🔌 GigabitEthernet0/6		Physical				Disabled		✎	
🔌 GigabitEthernet0/7		Physical				Disabled		✎	

Step 3 Click **Edit** (✎) for the interface that you want to use for inside.

Figure 25: General Tab

Edit Physical Interface

General IPv4 IPv6 Path Monitoring

Name:
inside

☒ Enabled
☐ Management Only

Description:

Mode:
None

Security Zone:
inside_zone

Interface ID:
GigabitEthernet0/1

MTU:
1500
(64 - 9000)

Priority:
0 (0 - 65535)

Propagate Security Group Tag: ☐

NVE Only:
☐

- a) From the **Security Zone** drop-down list, choose an existing inside security zone or add a new one by clicking **New**.
For example, add a zone called **inside_zone**. You apply your security policy based on zones or groups. For example, configure your access control policy to enable traffic to go from the inside zone to the outside zone, but not from outside to inside.
If the inside interface was preconfigured, the rest of these fields are optional.
- b) Enter a **Name** up to 48 characters in length.
For example, name the interface **inside**.
- c) Check the **Enabled** check box.
- d) Leave the **Mode** set to **None**.
- e) Click the **IPv4** and/or **IPv6** tab.
 - **IPv4**—Choose **Use Static IP** from the drop-down list, and enter an IP address and subnet mask in slash notation.
For example, enter **192.168.1.1/24**

Figure 26: IPv4 Tab

The screenshot shows the 'Edit Physical Interface' window with the 'IPv4' tab selected. The 'IP Type' dropdown is set to 'Use Static IP'. The 'IP Address' field contains '192.168.1.1/24'. Below the field, a hint text reads: 'eg. 192.0.2.1/255.255.255.128 or 192.0.2.1/25'.

- **IPv6**—Check the **Autoconfiguration** check box for stateless autoconfiguration.

Figure 27: IPv6 Tab

The screenshot shows the 'Edit Physical Interface' window with the 'IPv6' tab selected. The 'Basic' sub-tab is active. The 'Enable IPV6' checkbox is unchecked. The 'Enforce EUI 64' checkbox is unchecked. The 'Link-Local address' field is empty. The 'Autoconfiguration' checkbox is checked. The 'Obtain Default Route' checkbox is unchecked.

f) Click **OK**.

Step 4 Click **Edit** (✎) for the interface that you want to use for outside.

Figure 28: General Tab

Edit Physical Interface

General	IPv4	IPv6	Path Monitoring	Hardware
Name: outside ☒ Enabled ☐ Management Only Description: Mode: None Security Zone: outside_zone Interface ID: GigabitEthernet0/0 MTU: 1500 (64 - 9000) Priority: 0 (0 - 65535) Propagate Security Group Tag: ☐ NVE Only: ☐				

- a) From the **Security Zone** drop-down list, choose an existing outside security zone or add a new one by clicking **New**.
For example, add a zone called **outside_zone**.
You should not alter any other basic settings because doing so will disrupt the management center management connection.
- b) Click **OK**.

Step 5 Configure a DMZ interface to host a web server, for example.

- a) Click **Edit** (🔗) for the interface you want to use.
- b) From the **Security Zone** drop-down list, choose an existing DMZ security zone or add a new one by clicking **New**.
For example, add a zone called **dmz_zone**.
- c) Enter a **Name** up to 48 characters in length.
For example, name the interface **dmz**.
- d) Check the **Enabled** check box.
- e) Leave the **Mode** set to **None**.
- f) Click the **IPv4** and/or **IPv6** tab and configure the IP address as desired.
- g) Click **OK**.

Step 6 Click **Save**.

Configure the DHCP Server

Enable the DHCP server if you want clients to use DHCP to obtain IP addresses from the firewall.

Procedure

Step 1 Choose **Devices > Device Management**, and click **Edit** (✎) for the device.

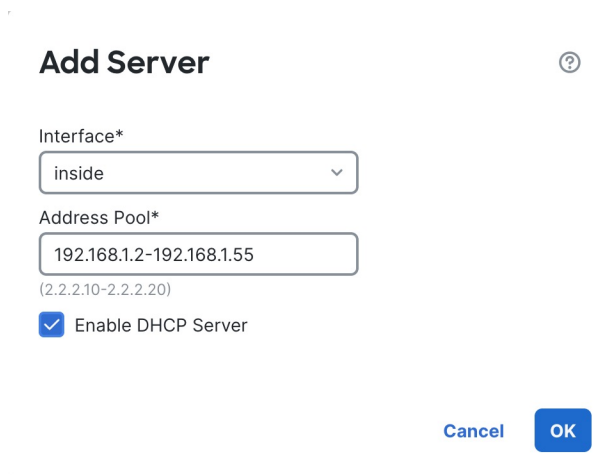
Step 2 Choose **DHCP > DHCP Server**.

Figure 29: DHCP Server

The screenshot displays the DHCP Server configuration interface. The top navigation bar includes tabs for Device, Routing, Interfaces, Inline Sets, DHCP (selected), VTEP, and SNMP. On the left, a sidebar lists DHCP Server, DHCP Relay, and DDNS. The main configuration area includes fields for Ping Timeout (50 ms), Lease Length (3600 sec), and an unchecked Auto-Configuration checkbox. Below these are dropdown menus for Interface and Override Auto Configured Settings, which include Domain Name, Primary DNS Server, Secondary DNS Server, Primary WINS Server, and Secondary WINS Server. The 'Server' tab is highlighted with a red box, and the 'Advanced' section is expanded. A red box highlights the '+ Add' button in the bottom right corner. At the bottom, a table with columns 'Interface', 'Address Pool', and 'Enable DHCP Server' is shown, with a message 'No records to display' below it.

Step 3 In the **Server** area, click **Add** and configure the following options.

Figure 30: Add Server



Add Server ⓘ

Interface*
inside

Address Pool*
192.168.1.2-192.168.1.55
(2.2.2.10-2.2.2.20)

☒ Enable DHCP Server

Cancel OK

- **Interface**—Choose the interface name from the drop-down list.
- **Address Pool**—Set the range of IP addresses. The IP addresses must be on the same subnet as the selected interface and cannot include the IP address of the interface itself.
- **Enable DHCP Server**—Enable the DHCP server on the selected interface.

Step 4 Click **OK**.

Step 5 Click **Save**.

Configure NAT

This procedure creates a NAT rule for internal clients to convert the internal addresses to a port on the outside interface IP address. This type of NAT rule is called *interface Port Address Translation (PAT)*.

Procedure

Step 1 Choose **Devices > NAT**, and click **New Policy**.

Step 2 Name the policy, select the devices that you want to use the policy, and click **Save**.

Figure 31: New Policy

New Policy

Name:
FTD_policy

Description:

Targeted Devices
Select devices to which you want to apply this policy.

Available Devices and Templates
Search by name or value

- 192.168.0.124
- 192.168.0.155

Selected Devices and Templates

- 192.168.0.124
- 192.168.0.155

[Add to Policy](#)

[Cancel](#) [Save](#)

The policy is added the management center. You still have to add rules to the policy.

Figure 32: NAT Policy

FTD_Policy [Show Warnings](#) [Save](#) [Cancel](#)

Enter Description

Rules [NAT Exemptions](#) [Policy Assignments \(1\)](#)

[Filter by Device](#) [Filter Rules](#) [Add Rule](#)

	#	Direction	Type	Source Interface Objects	Destination Interface Objects	Original Packet			Translated Packet			Options
						Original Sources	Original Destinations	Original Services	Translated Sources	Translated Destinations	Translated Services	
NAT Rules Before												
Auto NAT Rules												
NAT Rules After												

Step 3 Click **Add Rule**.

Step 4 Configure the basic rule options:

Figure 33: Basic Rule Options

Add NAT Rule

NAT Rule:
Auto NAT Rule

Type:
Dynamic

☒ Enable

Interface Objects Translation

- **NAT Rule**—Choose **Auto NAT Rule**.
- **Type**—Choose **Dynamic**.

Step 5 On the **Interface Objects** page, add the outside zone from the **Available Interface Objects** area to the **Destination Interface Objects** area.

Figure 34: Interface Objects

Interface Objects Translation PAT Pool Advanced

Available Interface Objects

Search by name

inside

outside

Add to Source

Add to Destination

Source Interface Objects (0)

any

Destination Interface Objects (1)

outside

Step 6 On the **Translation** page, configure the following options:

Figure 35: Translation

Interface Objects Translation PAT Pool Advanced

Original Packet

Original Source:*
all-ipv4

Original Port:
TCP

Translated Packet

Translated Source:
Destination Interface IP

The values selected for Destination Interface Objects in 'Interface Objects' tab will be used

Translated Port:

- **Original Source**—Click **Add (+)** to add a network object for all IPv4 traffic (0.0.0.0/0).

Figure 36: New Network Object

New Network Object ⓘ

Name
all-ipv4

Description

Network
☐ Host
 ☐ Range
 ☒ Network
 ☐ FQDN

0.0.0.0/0

☐ Allow Overrides

Cancel Save

Note

You cannot use the system-defined **any-ipv4** object, because Auto NAT rules add NAT as part of the object definition, and you cannot edit system-defined objects.

- **Translated Source**—Choose **Destination Interface IP**.

Step 7 Click **Save** to add the rule.

The rule is saved to the **Rules** table.

Step 8 Click **Save** on the NAT page to save your changes.

Configure an Access Control Rule

If you created a basic **Block all traffic** access control policy when you registered the device, then you need to add rules to the policy to allow traffic through the device. The access control policy can include multiple rules that are evaluated in order.

This procedure creates an access control rule to allow all traffic from the inside zone to the outside zone.

Procedure

Step 1 Choose **Policies > Access Control heading > Access Control**, and click **Edit** (✎) for the access control policy assigned to the device.

Step 2 Click **Add Rule**, and set the following parameters.

Figure 37: Source Zone

The screenshot shows the 'Add Rule' configuration page. The 'Name' field is 'inside-to-outside'. The 'Zones' tab is selected, showing 'inside' and 'outside' zones. The 'inside' zone is selected. The 'Add Source Zone' button is highlighted with a red circle and the number 3.

1. Name this rule, for example, **inside-to-outside**.

2. Select the inside zone from **Zones**

3. Click **Add Source Zone**.

Figure 38: Destination Zone

The screenshot shows the 'Add Rule' configuration page. The 'Name' field is 'inside-to-outside'. The 'Zones' tab is selected, showing 'inside' and 'outside' zones. The 'outside' zone is selected. The 'Add Destination Zone' button is highlighted with a red circle and the number 5.

4. Select the outside zone from **Zones**.

5. Click **Add Destination Zone**.

Leave the other settings as is.

Step 3 (Optional) Customize associated policies by clicking on the policy type in the packet flow diagram.

Prefilter, Decryption, Security Intelligence, and Identity policies are applied before an access control rule. Customizing these policies is not required, but after you know your network's needs, they let you improve network performance by either fastpathing trusted traffic (bypassing processing) or blocking traffic so no further processing is required.

Figure 39: Policies Applied Before Access Control



- **Prefilter Rules**—The Default Prefilter Policy passes all traffic for the other rules to act on (analyzes). The only change to the default policy you can make is to **block** tunnel traffic. Otherwise, you can create a new prefilter policy to associate with the access control policy that can analyze (pass on), fastpath (bypass further checks) or block.

Prefiltering lets you improve performance by dealing with traffic before it gets any further, by either blocking or fastpathing. In a new policy, you can add *tunnel* rules and *prefilter* rules. A tunnel rule lets you fastpath, block, or rezone plaintext (non-encrypted), passthrough tunnels. A prefilter rule lets you fastpath or block non-tunneled traffic identified by IP address, port, and protocol.

For example, if you know you want to block all FTP traffic on your network, but fastpath SSH traffic from an administrator, you can add a new prefilter policy.

- **Decryption**—Decryption is not applied by default. Decryption is a way to expose network traffic to deep inspection. In most cases, you don't want to decrypt traffic, and can only do so if it is legally allowed. For maximum network protection, a decryption policy might be a good idea for traffic going to critical servers or coming from untrusted network segments.
- **Security Intelligence**—(Requires the IPS license) Security Intelligence is enabled by default. Security Intelligence is another early defense against malicious activity applied before passing connections to the access control policy for further processing. Security Intelligence uses reputation intelligence to quickly block connections to or from IP addresses, URLs, and domain names provided by Talos, the threat intelligence organization at Cisco. You can add or delete additional IP addresses, URLs, or domains if desired.

Note

If you do not have the IPS license, this policy will not be deployed even though it shows in your access control policy as enabled.

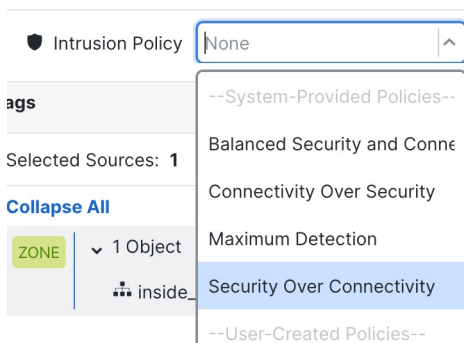
- **Identity**—Identity is not applied by default. You can require a user to authenticate before allowing traffic to be processed by the access control policy.

Step 4 (Optional) Add an Intrusion policy that is applied after the access control rule.

The Intrusion policy is a defined set of intrusion detection and prevention configurations that inspects traffic for security violations. The management center includes many system-provided policies you can enable as-is or that you can customize. This step enables a system-provided policy.

- Click the **Intrusion Policy** drop-down list.

Figure 40: System-Provided Intrusion Policies

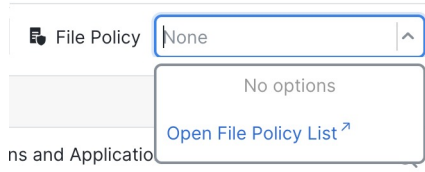


- Choose one of the system-provided policies from the list.

Step 5 (Optional) Add a File policy that is applied after the access control rule.

- a) Click the **File Policy** drop-down list and choose either an existing policy or add one by choosing the **Open File Policy List**.

Figure 41: File Policy



For a new policy, the **Policies > Malware & File** page opens in a separate tab.

- b) See the [Cisco Secure Firewall Device Manager Configuration Guide](#) for details on creating the policy.
c) Return to the **Add Rule** page and select the newly created policy from the drop-down list.

Step 6 Click **Apply**.

The rule is added to the **Rules** table.

Step 7 Click **Save**.

Enable SSH on the Outside Interface

This section describes how to enable SSH connections to the outside interface.

By default, you can use the **admin** user for which you configured the password during initial setup.

Procedure

Step 1 Choose **Devices > Platform Settings** and create or edit the threat defense policy.

Step 2 Select **SSH Access**.

Step 3 Identify the outside interface and IP addresses that allow SSH connections.

- a) Click **Add** to add a new rule, or click **Edit** to edit an existing rule.
b) Configure the rule properties:
- **IP Address**—The network object or group that identifies the hosts or networks you are allowing to make SSH connections. Choose an object from the drop-down menu, or click + to add a new network object.
 - **Available Zones/Interfaces**—Add the outside zone or type the **outside** interface name into the field below the **Selected Zones/Interfaces** list and click **Add**.

Figure 42: Enable SSH on the Outside Interface

Edit Secure Shell Configuration

IP Address*
any-ipv4

Available Zones/Interfaces
Search
DMZ
inside
outside

Selected Zones/Interfaces
outside Add

Cancel OK

c) Click **OK**.

Step 4 Click **Save**.

You can now go to **Deploy > Deployment** and deploy the policy to assigned devices. The changes are not active until you deploy them.

Deploy the Configuration

Deploy the configuration changes to the device; none of your changes are active on the device until you deploy them.

Procedure

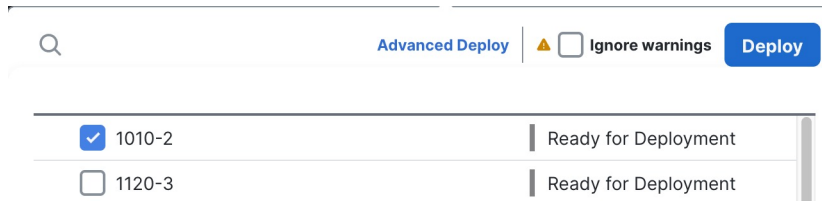
Step 1 Click **Deploy** in the upper right.

Figure 43: Deploy



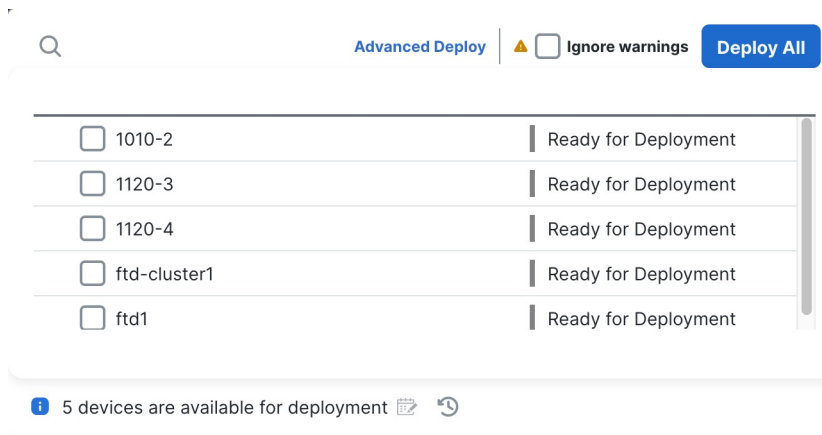
Step 2 For a quick deployment, check specific devices and then click **Deploy**.

Figure 44: Deploy Selected



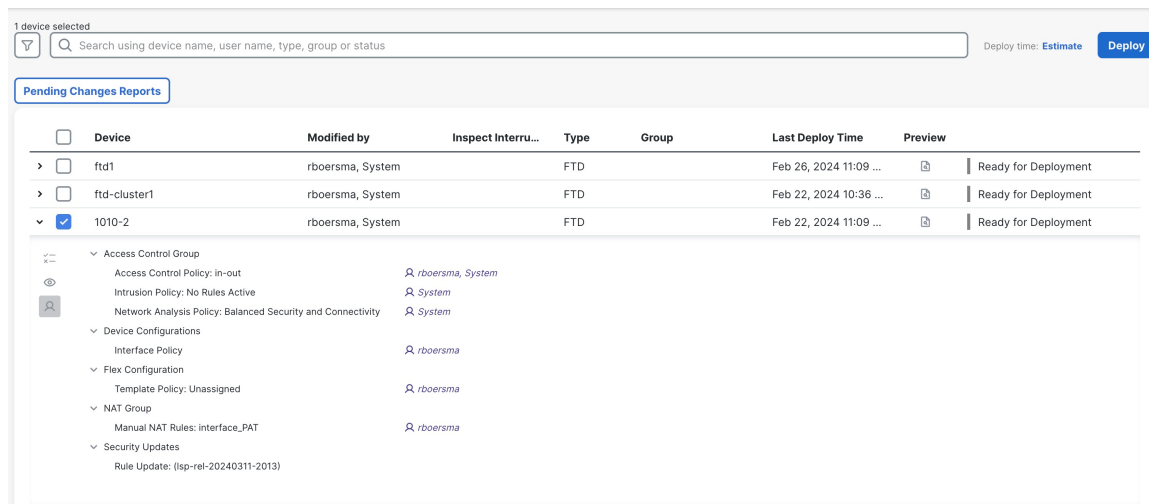
Or click **Deploy All** to deploy to all devices.

Figure 45: Deploy All



Otherwise, for additional deployment options, click **Advanced Deploy**.

Figure 46: Advanced Deployment



Step 3

Ensure that the deployment succeeds. Click the icon to the right of the **Deploy** button in the menu bar to see status for deployments.

Figure 47: Deployment Status

