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Secure Firewall 3100 Threat Defense Getting Started: Management Center at a Central Headquarters

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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

Outside management is not supported with clustering or multi-instance mode. See the getting started guide for a management center on a local management network. Zero-Touch Provisioning is not supported with clustering or multi-instance mode, even on the Management interface.

For high availability, you can use the outside interface with manual registration, but to use zero-touch provisioning, you must use the Management interface. This guide specifically covers outside management, but you can refer to the Cisco Secure Firewall Management Center Device Configuration Guide.

- Power On the Firewall, on page 1
- Which Application is Installed: Threat Defense or ASA?, on page 2
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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

e 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 2Turn 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

RJ-45 console

	secure Firew 3100 Serie		3			
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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

RJ-45 console



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

RJ-45 console



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

scope ssa

show app-instance

Example:

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

Note If you encounter the following error, you must disable DHCP before committing the change. Follow the commands below to disable DHCP.

```
firepower /fabric-interconnect* # commit-buffer
Error: Update failed: [Management ipv4 address (IP <ip> / net mask <netmask> ) is not
in the same network of current DHCP server IP range <ip - ip>.
Either disable DHCP server first or config with a different ipv4 address.]
firepower /fabric-interconnect* # exit
firepower* # scope system
firepower /system* # scope services
firepower /system/services* # disable dhcp-server
firepower /system/services* # 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 8.

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
- Carrier—Diameter, GTP/GPRS, M3UA, SCTP
- 1. If you need to add licenses yourself, go to Cisco Commerce Workspace and use the Search All field.

Figure 6: License Search

≡ ▼	Search All					Q
h -	Catalog	Estimates	Deals & Quotes	Orders	Subscriptions & Services	Software

2. Choose Products & Services from the results.

Figure 7: Results

All Results	
Crders	6
Est Invoices	2
🛱 Software Subsc	1
Products & Ser	1

3. 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-FPR3110T-TMC=
 - L-FPR3120T-TMC=
 - L-FPR3130T-TMC=
 - L-FPR3140T-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-FPR3110T-TMC-1Y
- L-FPR3110T-TMC-3Y
- L-FPR3110T-TMC-5Y
- L-FPR3120T-TMC-1Y
- L-FPR3120T-TMC-3Y
- L-FPR3120T-TMC-5Y
- L-FPR3130T-TMC-1Y
- L-FPR3130T-TMC-3Y
- L-FPR3130T-TMC-5Y
- L-FPR3140T-TMC-1Y
- L-FPR3140T-TMC-3Y
- L-FPR3140T-TMC-5Y
- Carrier:
 - L-FPR3K-FTD-CAR=

• Cisco Secure Client—See the Cisco Secure Client Ordering Guide.

(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

RJ-45 console



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 (\Diamond).
	c) Click the Device tab.
	d) Click Shut Down Device (⁰) 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.

Power Off the Firewall Using the Management Center



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

- (Optional) Obtain a console adapter—The Secure Firewall 3100 ships with a DB-9 to RJ-45 serial cable, so you may need to buy a third party DB-9-to-USB serial cable to make the connection.
- Install SFPs into ports Ethernet 1/9 and higher.
- See the hardware installation guide for more information.
- Do not cable the Management interface unless you are using high availability with zero-touch provisioning or intend to use clustering using manual provisioning. In this case, see the Cisco Secure Firewall Management Center Device Configuration Guide. This guide covers only the outside interface.



Perform Initial Configuration (Manual Provisioning)

For manual provisioning, perfom 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.
 - a) Go to https://192.168.95.1.
 - b) Log in with the username admin and the default password Admin123.
 - c) You are prompted to read and accept the General Terms and change the admin password.

L

Step 3 Use the setup wizard.





Note

The exact port configuration depends on your model.

a) 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	Default Action Block all other traffic	
This rule allows traffic to go from inside to outside, which is needed for the Smart License configuration.	The default action blocks all othe traffic.	r
Outside Interface Address		
Connect Ethernet1/1 (Outside) to your cable modem or router. Then, configu	r ISP/WAN device, for example, you re the addresses for the outside int	ur erface.
Configure IPv4		
Using DHCP		~
Configure IPv6		
Using DHCP		~

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.

Don't have internet connection? Skip device setup

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	~	0
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.



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

d) Click Finish.

Figure 12: What's Next

		×
The	Device Is Up and Ready to Be Configured! What's next?	
	Device will be Cloud Managed Standalone Device	
(1	Configure Interfaces	
(2	Configure Policy	
	GOT IT	

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 5Register with the management center by choosing Device > System Settings > Central Management and clicking
Proceed

Configure the Management Center/CDO Details.

Figure 13: Management Center/CDO Details

Configure Connection to Management Center or CDO

Provide details to register to the management center/CDO.

Management Center/CDO Details

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

Yes No	
Threat Defense 10.89.5.16 fe80::6a87:c6ff:fea6:4c00/64	Management Center/CDO
Management Center/CDO Hostname or IP Addr	ess
10.89.5.35	
Management Center/CDO Registration Key	
••••	0
NAT ID Required when the management center/CDO hostname the NAT ID even when you specify the management cen	or IP address is not provided. We recommend always setting ter/CDO hostname or IP address.
11203	
Connectivity Configuration Threat Defense Hostname	
1120-3	
DNS Server Group	
CustomDNSServerGroup	×
Management Center/CDO Access Interface O Data Interface	
Please select an interface	Ý
Management Interface <u>View details</u>	
CANCEL	CONNECT

- a) For **Do you know the Management Center/CDO 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/CDO Hostname/IP Address.

c) Specify the Management Center/CDO 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 not exceed 37 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 not exceed 37 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/CDO 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 registration.

Figure 14: Successful Connection



Step 9 After the **Saving Management Center/CDO Registration Settings** step on the status screen, go to the management center and add the firewall. See Add the Firewall to the Management Center Using Manual Provisioning, on page 24.

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 not exceed 37 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 not exceed 37 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.

- a) Enter the **shutdown** command.
- b) Observe the Power LED and Status LED to verify that the chassis is powered off (appear unlit).
- c) 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 the Firewall to the Management Center Using 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 Cisco Defense Orchestrator (CDO) for this functionality.

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

Zero-Touch Provisioning is not supported with clustering or multi-instance mode.

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.



Note

For management center version 7.4, you need to add the device using CDO; 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.

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

Note

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

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

- a) Choose Integration > Cisco Security Cloud.
- b) 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 CDO account, you can add one during this procedure.

For detailed information about this integration, see .

CDO onboards the on-prem management center after you integrate the management center with Cisco Security Cloud. CDO needs the management center in its inventory for zero-touch provisioning to operate. However, you do not need to use CDO directly. If you do use CDO, 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.

- c) Make sure Enable Zero-Touch Provisioning is checked.
- d) 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)
		Novt

Step 5 For the **Initial device configuration**, click the **Basic** radio button.

Figure 16: Initial Device Configuration Method

Add Device	0
1 Device registration method Device registration method Serial Number 2 Initial device configuration Choose initial device configuration method Apply basic configuration, including the access control policy, or preconfigure settings using a template • Basic • Device template Access Control Policy* ✓mfx_automationPolicy123 × • + Smart licensing Ensure that your smart licensing account has the required licenses. • Carrier • Malware Defense • IPS • URL	
3 Device details	
Cancel Add Devic	ce

a) 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.

b) 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.

- c) Click Next.
- **Step 6** Configure the **Device details**.

Figure 17: Device details

Device		
Device registration method		
Device registration method Serial Numbe	r	
Initial device configuration		
Access control policy wfx automationPo	licv123	
needee contact point, <u>inn_</u> accontant of		
Device details		
 Configure the public IP address of FQD version earlier than 7.4, and is connected Serial number. 	N for the Management Center, except in scenarios where the Infeat Defense device is publicly reachable, run ad to the data interface. To configure the public IP address or FQDN, go to Configuration > Manager Remote A	ccess.
JAD25440DW1		
Device group		
Select	~	
Select Set the device password Enter a new password if you have not previ	ously changed the device's default password.	
Select Set the device password Enter a new password if you have not previ	ously changed the device's default password.	
Select Set the device password Enter a new password if you have not previ New password	ously changed the device's default password.	
Select Set the device password Enter a new password if you have not previ New password Skip this field if you already changed the pa	ously changed the device's default password. Confirm password assword on the device. If you provide a new password in this case, registration will fail.	
Select Set the device password Enter a new password if you have not previ New password Skip this field if you already changed the pa	ously changed the device's default password. Confirm password assword on the device. If you provide a new password in this case, registration will fail. Pre	vious
Select Set the device password Enter a new password if you have not previ New password Skip this field if you already changed the pa	ously changed the device's default password. Confirm password assword on the device. If you provide a new password in this case, registration will fail. Pre	vious
Select Set the device password Enter a new password if you have not previ New password Skip this field if you already changed the pa	ously changed the device's default password. Confirm password assword on the device. If you provide a new password in this case, registration will fail. Pre	vious
Select Set the device password Enter a new password if you have not previ New password Skip this field if you already changed the pa	ously changed the device's default password. Confirm password assword on the device. If you provide a new password in this case, registration will fail. Pre	vious

- a) Enter the Serial number.
- b) Enter the **Display name** as you want it to display in the management center
- c) (Optional) Choose the **Device Group**.
- d) 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 7 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.

Add the Firewall to the Management Center 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 list, choose Add Device.				

Figure 18:	Add Device	Using a	Registra	tion Key
------------	------------	---------	----------	----------

Add Device	0
CDO Managed Device	
Host:+	
10.89.5.41	
Display Name:	
3110-1	
Registration Key:*	
Group:	
None ~	
Access Control Policy:*	
wfx_automationPolicy123 v	
Smart Licensing Note: All virtual Firewall Threat Defense devices require a performance Make sure your Smart Licensing account contains the available licenses It's important to choose the tier that matches the license you have in yo Click here for information about the Firewall Threat Defense performance Until you choose a tier, your Firewall Threat Defense virtual defaults to t Performance Tier (only for Firewall Threat Defense virtual 7.0 and above Select a recommended Tier Carrier Malware Defense IPS URL	tier license. you need. ur account. ce-tiered licensing. he FTDv50 selection.
Advanced	
31101	
Transfer Packets	
Ca	ncel Register

Set the following parameters:

- Host—Enter the IP address or hostname of the firewall you want to add, if available. Leave this field blank if it is not available.
- **Display Name**—Enter the name for the firewall as you want it to display in the management center. You cannot change this name later.
- Registration Key—Enter the same registration key that you specified in the firewall initial configuration.
- Domain—Assign the device to a leaf domain if you have a multidomain environment.

- Group—Assign it to a device group if you are using groups.
- Access Control Policy—Choose an initial 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 38.

Figure	19 :	New	Policy
--------	-------------	-----	--------

New Policy	?
Name: ftd-ac-policy	
Description:	
Select Base Policy: None	
Default Action: Block all traffic	
Intrusion Prevention Network Discovery	
Cancel	ive

- Smart Licensing—Assign the Smart Licenses you need for the features you want to deploy. Note: You can apply the Secure Client remote access VPN license after you add the device, from the System > Licenses > Smart Licenses page.
- Unique NAT ID—Specify the NAT ID that you specified in the firewall initial configuration.
- **Transfer Packets**—Check the **Transfer Packets** check box so that for each intrusion event, the device transfers the packet to the management center for inspection.

This option is enabled by default. 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 4 Click Register.

If the threat defense fails to register, check the following items:

• Ping—Access the threat defense CLI (see Access the Threat Defense CLI, on page 3), and ping the management center IP address using the following command:

ping system fmc_ip_address

If the ping is not successful, check your network settings using the **show network** command. If you need to change the firewall Management IP address, use the **configure network management-data-interface** command.

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

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



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.
- Configure Interfaces, on page 29
- Configure the DHCP Server, on page 34
- Configure NAT, on page 35
- Configure an Access Control Rule, on page 38
- Enable SSH on the Outside Interface, on page 41
- Deploy the Configuration, on page 42

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.

Procedure

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

Step 2 Click Interfaces.

Figure 20: Interfaces

Device Routing Interfaces Ir	nline Sets DHCP	VTEP					
					Q Search by name	Sync Device Add Inter	rfaces 🔻
Interface	Logical Name	Туре	Security Zones	MAC Address (Active/Standby)	IP Address	Path Monitoring Virtual Router	
Management0/0	management	Physical				Disabled Global	९ -⊄
GigabitEthernet0/0		Physical				Disabled	/
GigabitEthernet0/1		Physical				Disabled	1
GigabitEthernet0/2		Physical				Disabled	1
GigabitEthernet0/3		Physical				Disabled	1
GigabitEthernet0/4		Physical				Disabled	1
GigabitEthernet0/5		Physical				Disabled	1
GigabitEthernet0/6		Physical				Disabled	1
GigabitEthernet0/7		Physical				Disabled	/

Step 3 To create breakout ports from a 40-Gb or larger interface, click the **Break** icon for the interface.

If you already used the full interface in your configuration, you will have to remove the configuration before you can proceed with the breakout.

Step 4 Click **Edit** (\mathcal{O}) for the interface that you want to use for inside.

Figure 21: General Tab

Edit Physical Interface

General				
General	IPv4	IPv6	Path Monitoring	ł
Name:				
inside				
Enabled				
Managen	nent Only			
Description:				
Mode:				
None			•	
Security Zone	9:			
inside_zone	e		•	
Interface ID:				
MTU				
1500				
1500 (64 - 9000)				
1500 (64 - 9000) Priority:				

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 22: IPv4 Tab

Edit Physi	cal Inter	face	
General	IPv4	IPv6	Path Monitoring
IP Type:			
Use Static	IP		•
IP Address:			
192.168.1	1/24		

• IPv6—Check the Autoconfiguration check box for stateless autoconfiguration.

Figure 23: IPv6 Tab

General	IPv4	IPv6	Pat	h Monitoring	Hardwa	are Configu
Basic	Address	Prefix	es	Settings	DHCP	
	Enab	le IPV6:				
	Enforce	EUI 64:				
	Link-Local a	ddress:				
	Autoconfig	uration:				
O	btain Default	t Route:				

f) Click OK.

Step 5 Click **Edit** (\Diamond) for the interface that you want to use for outside.

Figure 24: General Tab

Edit Physical Interface

General	IPv4	IPv6	Path Monitoring	Hardware
Name:				
outside				
Enabled				
Manager	nent Only			
Description:				
Mode:				
None				
Security Zone	e:			
outside_zo	ne		•	
Interface ID:				
MTU:				
1500				
(64 - 9000)				
Priority:				
0			(0 - 65	535)
Propagate Se	ecurity Gro	oup 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 6** Configure a DMZ interface to host a web server, for example.
 - a) Click **Edit** (\Diamond) 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 7 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** (\Diamond) for the device.
- Step 2 Choose DHCP > DHCP Server.

Figure 25: DHCP Server

Device Routing Interface	es Inline Sets DHCP VTEP	SNMP	
	Ping Timeout		
DHCP Server	50	(10 - 10000 ms)	
DHCP Relay	Lease Length		
DDNS	3600	(300 - 10,48,575 sec)	
	Auto-Configuration	, ,	
	Interface		
	()	
	Override Auto Configured Sett	ings:	
	Domain Name		
	Primary DNS Server	Primary WINS Server	
	(~) + (~) +	
	Secondary DNS Server	Secondary WINS Server	
	(· · · · · · · · · · · · · · · · · · ·) + [~ ~ +	
	Server Advanced		
			+ Add
	Interface	Address Pool	Enable DHCP Server
		No records to display	

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

Figure 26: 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	ок

- 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 4Click OK.Step 5Click 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 27: New Policy

New Policy			0
Name: FTD_policy			
Description:			
Targeted Devices			
Select devices to which you want to apply t Available Devices and Templates	his policy.	Selected Devices and 1	emplates
Q Search by name or value)	192.168.0.124	ū
192.168.0.124		192.168.0.155	Ū
192.168.0.155			
	Add to Policy		
		с	ancel Save

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

Figure 28: NAT Policy

FTD_Policy		Show Warnings	Save Cancel
Enter Description			
Rules		NAT Exemptions	Policy Assignments (1)
Filter by Device Filter Rules			Add Rule
	Original Packet	Translated Packet	
Source Destination # Direction Type Interface Interface Objects Objects	Original Original Original Sources Destinations Services	Translated Translated Translated Sources Destinations Services	Options
 NAT Rules Before 			
 Auto NAT Rules 			
 NAT Rules After 			

Step 3 Click Add Rule.

Step 4 Configure the basic rule options:

I

Figure 29: Basic Rule Options

Add NAT Rule	•
NAT Rule:	
Auto NAT Rule	\sim
Туре:	
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 30: Interface Objects

Interface Objects	Translation	PAT Pool	Advanced			
Available Interface Object	s C'		Source Interface Objects	(0)	Destination Interface Objects	(1)
Q Search by name			any		3 outside	ā
inside	Ad	d to Source)			
outside	Add	to Destination				
	2					

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

Figure 31: Translation

Interface Objects	Translation	PAT Pool	Advanced					
Original Packet			Translated Packet					
Original Source:* all-ipv4	~ +		Translated Source: Destination Interface IP ~					
Original Port: TCP	~		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 32: New Network Object

New Network Object		?
Name all-ipv4		
Description		
Network Range Network	O 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 any zone to the outside zone.

Procedure

Step 1Choose Policy > Access Policy > Access Policy, and click Edit (?) for the access control policy assigned to the device.Step 2Click Add Rule, and set the following parameters.

L

Figure 33: Source Zone

1	🗍 Add Rul	e							
Name	inside-to-outsid	le						Action 🕒 Allow	✓ ■ Lo
Insert	into Mandatory	~						Intrusion Policy	None
Q	Zones (1)	Networks	Ports	Applications	🛕 Users	URLs	Dynamic Attributes	s VLAN Tags	
Cle	ar Selections	Search Security Zo	ne Objects		Showir	ng 2 out of 2	Selected 1	Selected Sources: 0	
2	♣ inside (Route) ♣ outside (Route)	d Security Zone) ted Security Zone)							
									Any
+ 0	reate Security Zor	ne Object						3	Add Source Zone

- 1. Name this rule, for example, inside-to-outside.
- 2. Select the inside zone from Zones

3. Click Add Source Zone.

Figure 34: Destination Zone

1	🗘 Add Rule		
Nam	e inside-to-outside	Action 💽 Allow 🗸 🕒 Logging OFF 🐻	Time Range None ~ Ru
Inse	rt into Mandatory ~	Intrusion Policy None Variable Se	t V File Policy None
C	Zones (2) Networks Ports Applications 🛕 Users URLs Dynamic Attribu	ites VLAN Tags	
C	lear Selections Q Search Security Zone Objects Showing 2 out of 2 Selected 1	Selected Sources: 1	Selected Destinations and Applications: ${\bf 0}$
6	👬 inside (Routed Security Zone)	Collapse All Remove All	
4	A outside (Routed Security Zone)	ZONE V 1 Object	
		🚓 inside	
			Any
	Create Security Zone Object	Add Source Zone	5 Add Destination Zone

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 35: Policies Applied Before Access Control

<i>□</i> Packets →	0	Prefilter Rules	→ C	Decryption	→	Ø	Security Intelligence	+	🔵 Identi	ty →	Ø	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.

a) Click the Intrusion Policy drop-down list.

Figure 36: System-Provided Intrusion Policies



- b) 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 37: File Policy

🖶 File Policy	None	^
	No options	
ns and Applicatio	Open File Policy List [↗]	

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 3

- Step 2 Select SSH Access.
 - 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.

Edit Secure Shell Configuration	?
IP Address* any-ipv4 ~ +	
Available Zones/Interfaces C* Selected Zones/Interfaces	
DMZ	
inside outside	
outside	Add
Cancel	ОК

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 39: Deploy



Figure 40: Deploy Selected

Step 2 For a quick deployment, check specific devices and then click **Deploy**, or click **Deploy All** to deploy to all devices. Otherwise, for additional deployment options, click **Advanced Deploy**.

1010-2	Ready for Deployment
1120-3	Ready for Deployment
re 41: Deploy All	
Q	Advanced Deploy All
1010-2	Ready for Deployment
1120-3	Ready for Deployment
1120-4	Ready for Deployment
_	Ready for Deployment
ftd-cluster1	

O Search using device name, user name, type, group or status Deploy time: En Pending Changes Reports Device Modified by Inspect Interru Type Group Last Deploy Time Preview ftd1 rboersma, System FTD Feb 26, 2024 10:36 Ready for Deploy ftd-cluster1 rboersma, System FTD Feb 22, 2024 10:36 Ready for Deploy Coccess Control Group Access Control Oriop Access Control Policy: In-out Access Control Policy: In-out Access Control Policy: In-out A system Vetwork Analysis Policy: Balanced Security and Connectivity A system Device Configuration Template Policy: Unassigned A rboersma Vet Configuration Template Policy: Unassigned A rboersma 						
Pending Changes Reports Device Modified by Inspect Interru Type Group Last Deploy Time Preview Indiana Interrutation Policy Interrutation Provided Interrutation Previow FTD Feb 26, 2024 11:09 Ready for Dep Indiana Interrutation Policy Interrutation Interrutation Policy Interrutation Policy Interrutation Policy Interrutation Policy Interrutation Interrutation Interrutation Interrutation Policy Interrutation Interutation Interrutation Interrutation Interu	ate Deploy					
Pending Changes Reports Device Modified by Inspect Interru Type Group Last Deploy Time Preview Intrusion Cluster1 rboersma, System FTD Feb 26, 2024 11:09 Ready for Dep Intrusion Cluster1 rboersma, System FTD Feb 22, 2024 10:36 Ready for Dep Access Control Policy: In-out Access Control Policy: In-out Access Control Policy: In-out Access Control Policy: No Rules Active Asystem Device Configuration Verice Configuration Template Policy: Unassigned A rboersma Verice Configuration Template Policy: Unassigned A rboersma 						
Device Modified by Inspect Interru Type Group Last Deploy Time Preview ftd1 rboersma, System ftd2 rboersma, System ftd2 rboersma, System ftD FFD Feb 26, 2024 11:09 Ready for Dep Feb 22, 2024 10:36 Ready for Dep intrusion Policy: In-out Access Control Policy: In-out Access Control Policy: Balanced Security and Connectivity A System Velve Configuration Interface Policy: Delicy: Balanced Security and Connectivity A System Files Configuration Template Policy: Unasigned A / cboersma Files Configuration Motione A Decess Files Configuration A Decess Configuration Network Analysis Policy: Balanced Security and Connectivity A System Velve Configuration A riboersma Files Configuration Motione A riboersma Files Configuration A riboersma Files Configuration A riboersma Files Configuration A riboersma Files Configuration Files Configuration Files Configuration Files Configuration Files Co						
Intra rboersma, System FTD Feb 26, 2024 11:09 Ready for Dep Intra-cluster1 rboersma, System FTD Feb 22, 2024 10:36 Ready for Dep Image: Cluster 1 rboersma, System FTD Feb 22, 2024 10:36 Ready for Dep Image: Cluster 1 rboersma, System FTD Feb 22, 2024 10:36 Ready for Dep Image: Cluster 1 rboersma, System FTD Feb 22, 2024 10:30 Ready for Dep Image: Cluster 1 Access Control Policy: In-out A rboersma, System Ready for Dep Access Control Policy: In-out A rboersma, System A System Ready for Dep Access Control Policy: In-out A rboersma, System A System Ready for Dep V Device Configurations Ready for Dep A rboersma Ready for Dep Interface Policy: Unassigned A rboersma Ready for Dep Ready for Dep V Exe Configuration Ready for Dep Ready for Dep Ready for Dep V Flex Configuration Ready for Dep Ready for Dep Ready for Dep V Flex Configuration Ready for Dep Ready for Dep Ready for Dep V Flex C						
Intractor rboersma, System FTD Feb 22, 2024 10:36 Ready for Depine the second of the seco	ment					
v V V FD Feb 22, 2024 11:09 Ready for Dep * Access Control Policy: In-out A rboersma, System * Access Control Policy: In-out A rboersma, System Intrusion Policy: No Rules Active A system Network Analysis Policy: Balanced Security and Connectivity A system * Device Configurations Interface Policy A rboersma * Fex Configuration Template Policy: Unassigned A rboersma * Nat Group	nent					
	nent					
Access Control Policy: In-out Access Control Policy: In-out Access Control Policy: In-out Access Control Policy: No. Rules Active Access Control Policy: Active Active Active Access Control Policy: Active Active Active Active Active A						
Intrusion Policy: No Rules Active A System Network Analysis Policy: Balanced Security and Connectivity System Verice Configurations Interface Policy A <i>rboersma</i> Verifies Configuration Template Policy: Unassigned A <i>rboersma</i> Verifies Configuration						
Network Analysis Policy: Balanced Security and Connectivity Q. System V Device Configurations Interface Policy Q. rboersma V Flex Configuration Q. rboersma Template Policy: Unassigned Q. rboersma V Ald Group						
 > Device Configurations Interface Policy Q rboersma > Fiex Configuration Template Policy: Unassigned Q rboersma > NAT Group 						
Interface Policy & R rboersma ~ Flex Configuration Template Policy: Unassigned & R rboersma ~ NAT Group						
 ✓ Flex Configuration Template Policy: Unassigned Q rboersma ✓ NAT Group 						
Template Policy: Unassigned & R rboersma	V Flex Configuration					
✓ NAT Group						
Manual NAT Rules: interface_PAT Q rboersma						
Security Updates						
Rule Update: (Isp-rel-20240311-2013)						

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 43: Deployment Status

	Q Search		Deploy	@ (3 ~
Deployments	Upgrades 🔺 Health	Tasks	₽	Show Po	p-up Notifications 🧻
7 total	1 running 6 success	0 warnings	0 failures	Q Filt	ter
🗘 1010-2	D-2 Deployment - Policy and object collection 10% - complete.				<u>11s</u>
1120-3	20-3 Deployment to device successful.				
🥏 1120-4	Deployment to device successful.				
Ø 3110-1	Deployment to devi	ce successful.			1m 38s

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