

# **Cable and Register the Firewall**

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

- Cable the Firewall, on page 1
- Perform Initial Configuration (Manual Provisioning), on page 2
- Register the Firewall with the Management Center, on page 11

# **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 in	nterface (Ethernet 1/2).
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- **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.



Device Setup	1 Co	onfigure ternet Connection	2 Configu Time Se	re ettings		3 Smart License Registration	
	F Inside Network	MGMT 1/ CONSOLE 1/2	1/2 1 1/3 1/5 1/7 2 1/4 1/6 1/8 1/1 1/2 1/4 1/6 1/8	1/9 1/11 1/10 1/12	SFP	ISP/WAN/Gateway	Internet  DNS Server  NTP Server  Control Smart Lice

Note

The exact port configuration depends on your model.

a) Configure the outside and management interfaces.

## Figure 2: 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 other traffic.
Quitaida Interface Address	
Outside interface Address	
Connect Ethernet1/1 (Outside) to your cable modem or router. Then, configu	r ISP/WAN device, for example, your re the addresses for the outside interface.
Connect Ethernet1/1 (Outside) to you cable modem or router. Then, configu	r ISP/WAN device, for example, your re the addresses for the outside interface.
Connect Ethernet1/1 (Outside) to you. cable modem or router. Then, configu Configure IPv4 Using DHCP	r ISP/WAN device, for example, your ire the addresses for the outside interface.
Connect Ethernet1/1 (Outside) to you cable modem or router. Then, configu Configure IPv4 Using DHCP Configure IPv6	r ISP/WAN device, for example, your re the addresses for the outside interface.

- Skip device setup
- 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 3: 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		
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?
<ul> <li>Continue with evaluation period: Start 90-day evaluation period without registration</li> <li>Recommended if device will be cloud managed. Learn More <sup>[2]</sup></li> <li>Please make sure you register with Cisco before the evaluation period ends.</li> <li>Otherwise you will not be able to make any changes to the device configuration.</li> </ul>

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

d) Click Finish.

Figure 4: What's Next

		$\times$
The	Device Is Up and Ready to Be Configured! What's next?	
	Device will be Cloud Managed Standalone Device	
C	Configure Interfaces	
	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 5
   Register with the management center by choosing Device > System Settings > Central Management and clicking Proceed

Configure the Management Center/CDO Details.

#### Figure 5: 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 Defe 10.89.5. fe80::6a87:c6ff:fe	6 6:4c00/64	Manaç	10.89.5.35	
Management Center/CDO Host	name or IP Address			
10.89.5.35				
Management Center/CDO Regi	stration Key			
••••				0
NAT ID Required when the management cer the NAT ID even when you specify th	ter/CDO hostname or l e management center/	P address is not provide CDO hostname or IP ad	d. We recommend always dress.	setting
11203				
Connectivity Configuration Threat Defense Hostname 1120-3	on			
DNS Server Group				
CustomDNSServerGroup				~
Management Center/CDO Acce	ess Interface			
Please select an interfac				~
Management Interface Vie	w details			
	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.

See

#### Figure 6: 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 14.

# **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.
Step 2	Complete	e 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 <b>configure network</b> commands. S Cisco Secure Firewall Threat Defense Command Reference.
	You must Press <f Cisco Ge []</f 	accept the EULA to continue. ENTER> to display the EULA: eneral Terms
	Please e	enter 'YES' or press <enter> to AGREE to the EULA:</enter>
	System : You must	nitialization in progress. Please stand by. 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.

```
> sensor
```

**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 7: Device Registration Method

1 D	evice registration method	
	Registration Key Register device using registration key	Serial Number Register one or more devices using the serial number (zero-touch provisioning)
		Navt

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

# Figure 8: 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*         Mx_automationPolicy123       X ∨ +         Smart licensing       Ensure that your smart licensing account has the required licenses.         ● Carrier       Malware Defense         ④ IIPI       IIII	
3 Device details	•
Cancel Add Devi	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 9: Device details

Device			
Device registration method			
Device registration method Serial Numbe	r		
Initial device configuration			
Access control policy wfx_automationPo	licy123		
Device details			
Configure the public IP address or FQDI	N for the Management Center, except in s	scenarios where the Threat Defense device is	publicly reachable, running a
version earlier than 7.4, and is connected	ed to the data interface. To configure the	public IP address or FQDN, go to Configuratio	n > Manager Remote Access.
Serial number		Display name	
JAD25440DW1		FTD1	
JAD25440DW1 Device group		FTD1	
Device group Select		FTD1	
JAD25440DW1 Device group Select	~	FTD1	
JAD25440DW1 Device group Select Set the device password	~	FTD1	
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previ	✓ ⊃	FTD1	
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previ New password	✓ Ously changed the device's default passw	FTD1 ord. Confirm password	
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previ New password	✓ v	FTD1 ord. Confirm password	
JAD25440DW1 Device group 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	v ously changed the device's default passw assword on the device. If you provide a ne	FTD1 ord. Confirm password w password in this case, registration will fail.	
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previo New password Skip this field if you already changed the page	v ously changed the device's default passw assword on the device. If you provide a ne	FTD1 ord. Confirm password w password in this case, registration will fail.	Previous
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previon New password Skip this field if you already changed the page	v ously changed the device's default passw assword on the device. If you provide a ne	FTD1 ord. Confirm password w password in this case, registration will fail.	Previous
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previon New password Skip this field if you already changed the page	v ously changed the device's default passw assword on the device. If you provide a ne	FTD1 ord. Confirm password w password in this case, registration will fail.	Previous
JAD25440DW1 Device group Select Set the device password Enter a new password if you have not previous New password Skip this field if you already changed the page	v	FTD1 ord. Confirm password w password in this case, registration will fail.	Previous
JAD25440DW1 Device group 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	v	FTD1 ord. Confirm password w password in this case, registration will fail.	Previous Cancel Add Devi

- 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
	<ul><li>b) Enter your username and password.</li><li>c) Click Log In.</li></ul>
Step 2 Step 3	Choose <b>Devices</b> > <b>Device Management</b> . From the <b>Add</b> drop-down list, choose <b>Add Device</b> .

	40		<b>n</b> .		<b>n</b> .		
Figuro	111·	/\dd	Howco	Heina a	Rome	trotion	KOV
IIUUIC	10.	muu	DEVILE	usiliu a	IICUISI	lauvn	NGV
							/

Add Device ®	
CDO Managed Device	
Host:+	
10.89.5.41	
Display Name:	
3110-1	
Registration Key:*	
Group:	
None ~	
Access Control Policy:*	
wfx_automationPolicy123 v	
Note: All virtual Firewall Threat Defense devices require a performance tier license. Make sure your Smart Licensing account contains the available licenses you need. It's important to choose the tier that matches the license you have in your account. Click here for information about the Firewall Threat Defense performance-tiered licensing. Until you choose a tier, your Firewall Threat Defense virtual defaults to the FTDv50 selection. Performance Tier (only for Firewall Threat Defense virtual 7.0 and above): Select a recommended Tier Carrier Malware Defense URL	
Advanced	
31101	
✓ Transfer Packets	
Cancel 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.

# Figure 11: New Policy

New Policy		?
Name: ftd-ac-policy		
Description:		
Select Base Policy:		
Default Action:		
Block all traffic     Intrusion Prevention		
Network Discovery		
	Cancel	Save

- 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), 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.