

Cable and Register the Firewall

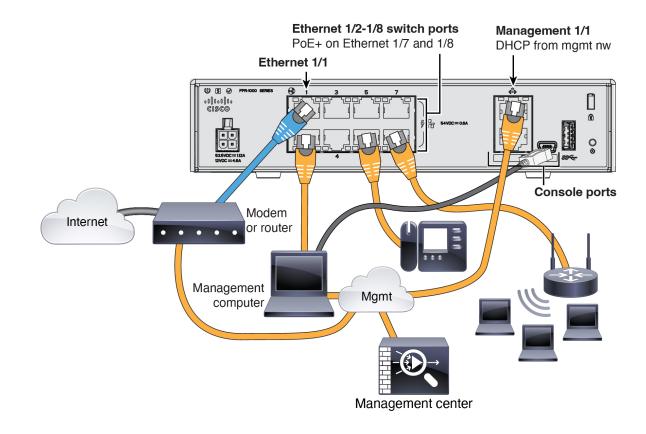
Cable the firewall and then register the firewall to the management center.

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Cable the Firewall

Connect the management center to the dedicated Management 1/1 interface. The management network needs access to the internet for updates. For example, you can connect the management network to the internet through the firewall itself (for example, by connecting to the inside network).

See the hardware installation guide for more information.



Perform Initial Configuration

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
- VLAN1— 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 through 1/8).
- **Step 2** Log into the device manager.

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- 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.

Step 3 Use the setup wizard.

Figure 1: Device Setup

Device Setup	1	Configure Internet Connection	2 Configure Time Settings	3 Smart License Registration	
	Inside Network		1 1/5 1/7 POE MGMT 1/5 1/7 POE E 1/6 1/8 POE CONSOLE 1	ISP/WAN/Gateway	Internet In

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.

Outside Interface Address

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

Configure IPv4		
Using DHCP		~
Configure IPv6		
Using DHCP		~
	NEXT	Don't have internet connection? Skip device setup

- 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—Setting the Management interface IP address is not part of the setup wizard, but you can set the following options. If you need to use a static IP address, see Step Step 4, on page 5.

DNS Servers—The DNS server for the system's management address. The default is the OpenDNS public DNS servers.

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		
1.sourcefire.pool.ntp.org		
2.sourcefire.pool.ntp.org		
NEVT		

c) Select Start 90 day evaluation period without registration.

Register with Cisco Smart Software Manager

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

What is smart license?

Continue with evaluation period: Start 90-day evaluation period without registration

Recommended if device will be cloud managed. Learn More [2]

Please make sure you register with Cisco before the evaluation period ends. Otherwise you will not be able to make any changes to the device configuration.

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

d) Click Finish.

Figure 4: What's Next

The Device Is Up and Ready to Be Configured! What's next? Device will be Cloud Managed Standalone Device	×
Configure Interfaces Connect inside ports to internal devices	
Configure Policy Manage traffic	
GOT IT	

- e) Choose Standalone Device, and then Got It.
- **Step 4** (Optional) Configure the Management interface with a static IP address. See the Management interface on **Device** > **Interfaces**.
- **Step 5** If you want to configure additional interfaces, choose **Device**, and then click the link in the **Interfaces** summary.
- **Step 6** 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	Manag	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				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 <u>Vie</u>	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 7 Configure the **Connectivity Configuration**.

- a) Specify the Threat Defense Hostname.
- b) Specify the **DNS Server Group**.

Although you already set this: Choose an existing group, or create a new one. The default DNS group is called **CiscoUmbrellaDNSServerGroup**, which includes the OpenDNS servers.

c) For the Management Center/CDO Access Interface, click Management Interface.

Step 8 Click Connect.

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

Figure 6: Successful Connection

Registration Status	9
Successful Connection with the Management Center or CDO	
You can now manage the threat defense using the management center or CDO. You can no longer use the device manager to manage the threat defense. See the threat defense getting started guide 2, management center configuration guide 2, or CDO configuration guide 2 to configure your device.	
ок	

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 Register the Firewall with the Management Center, on page 9.

Initial Configuration: CLI

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

Procedure

Connect to	the console port and access the threat defense CLI. See Access the Threat Defense CLI.
Complete	he 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.
Press <en< td=""><td>accept the EULA to continue. TER> to display the EULA: eral Terms</td></en<>	accept the EULA to continue. TER> to display the EULA: eral Terms
Please en	ter 'YES' or press <enter> to AGREE to the EULA:</enter>
You must Configure Do you wa	itialization in progress. Please stand by. configure the network to continue. at least one of IPv4 or IPv6 unless managing via data interfaces. nt to configure IPv4? (y/n) [y]: nt to configure IPv6? (y/n) [y]: n
Guidance	Enter \mathbf{y} for at least one of these types of addresses.
Configure	IPv4 via DHCP or manually? (dhcp/manual) [manual]:
	IPv4 address for the management interface [192.168.45.61]: 10.89.5.17 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]: 10.10.10.1
Enter a co Enter a c If your n Disabling Setting D	ully qualified hostname for this system [firepower]: 1010-3 omma-separated list of DNS servers or 'none' [208.67.222.222,208.67.220.220,2620:119:35::35]: omma-separated list of search domains or 'none' []: cisco.com etworking information has changed, you will need to reconnect. IPv6 configuration: management0 NS servers: 208.67.222.222,208.67.220.220,2620:119:35::35 NS domains:cisco.com
Setting s Updating All confi Saving a	ostname as 1010-3 tatic IPv4: 10.89.5.17 netmask: 255.255.255.192 gateway: data on management0 routing tables, please wait gurations applied to the system. Took 3 Seconds. copy of running network configuration to local disk. Proxy configuration, run 'configure network http-proxy'
Manage th	e device locally? (yes/no) [yes]: no
Guidance	Enter no to use the management center.
Setting s	ostname as 1010-3 tatic IPv4: 10.89.5.17 netmask: 255.255.255.192 gateway: data on management0 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'
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
kev.
'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 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.
```

Register the Firewall with the Management Center

Register the firewall to the management center.

Procedure

Step 1	Log into the management cente	r.

- 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**.

re 7: Add Device Using a Registration Key	-
Add Device	٢
CDO Managed Device	
Host:+	
10.89.5.41	
Display Name:	
3110-1	
Registration Key:*	
••••	
Group:	
None v	
Access Control Policy:*	
wfx_automationPolicy123 v	
Smart Licensing	
Note: All virtual Firewall Threat Defense devices require a performanc	e tier license.
Make sure your Smart Licensing account contains the available licens	es you need.
It's important to choose the tier that matches the license you have in Click here for information about the Firewall Threat Defense performa	
Until you choose a tier, your Firewall Threat Defense virtual defaults to	

Performance Tier (only for Firewall Threat Defense virtual 7.0 and above):

Select a recommended Tier	~		
Carrier			
Malware Defense			
V IPS			
VRL URL			
Advanced			
Unique NAT ID:†			
31101			
✓ Transfer Packets			
		Cancel	Regist

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 8: New Policy	
New Policy	Ø
Name:	
ftd-ac-policy	
Description:	
Select Base Policy:	
None 🔻	
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** {**ipv4** | **ipv6**} manual 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.

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