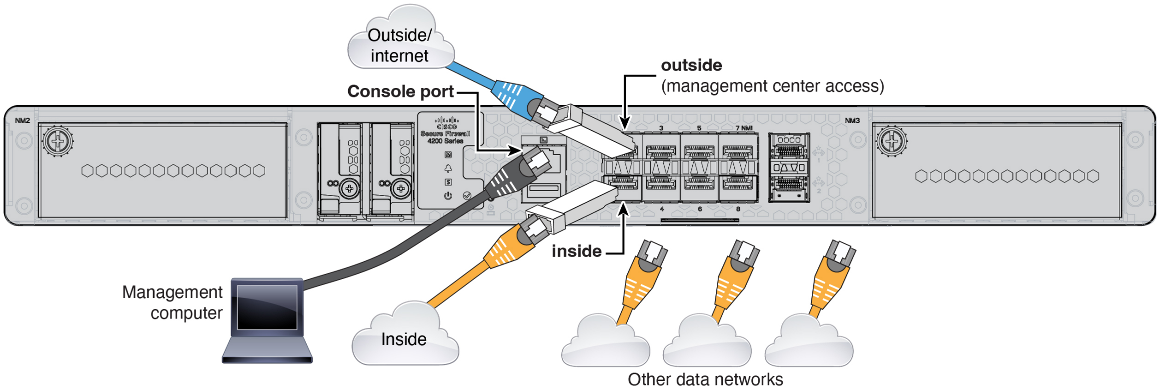
Cable and Register the Firewall

Cable the firewall and then register the firewall to the Firewall Management Center.

Cable the Firewall

- Obtain a console cable—The firewall does not ship with a console cable by default, so you will need to buy a third-party USB-to-RJ-45 serial cable, for example.
- Install SFPs into the data interface ports—The built-in ports are 1/10/25-Gb SFP28 ports that require SFP/SFP+/SFP28 modules.
- See the hardware installation guide for more information.



Perform Initial Configuration

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 Firewall Threat Defense CLI. See Access the Firewall Threat Defense CLI.

Register the Firewall with the Firewall Management Center

Register the firewall to the Firewall Management Center.

Procedure

Step 1 Log into the Firewall Management Center.

a) Enter the following URL.

https://*fmc_ip_address*

b) Enter your username and password.

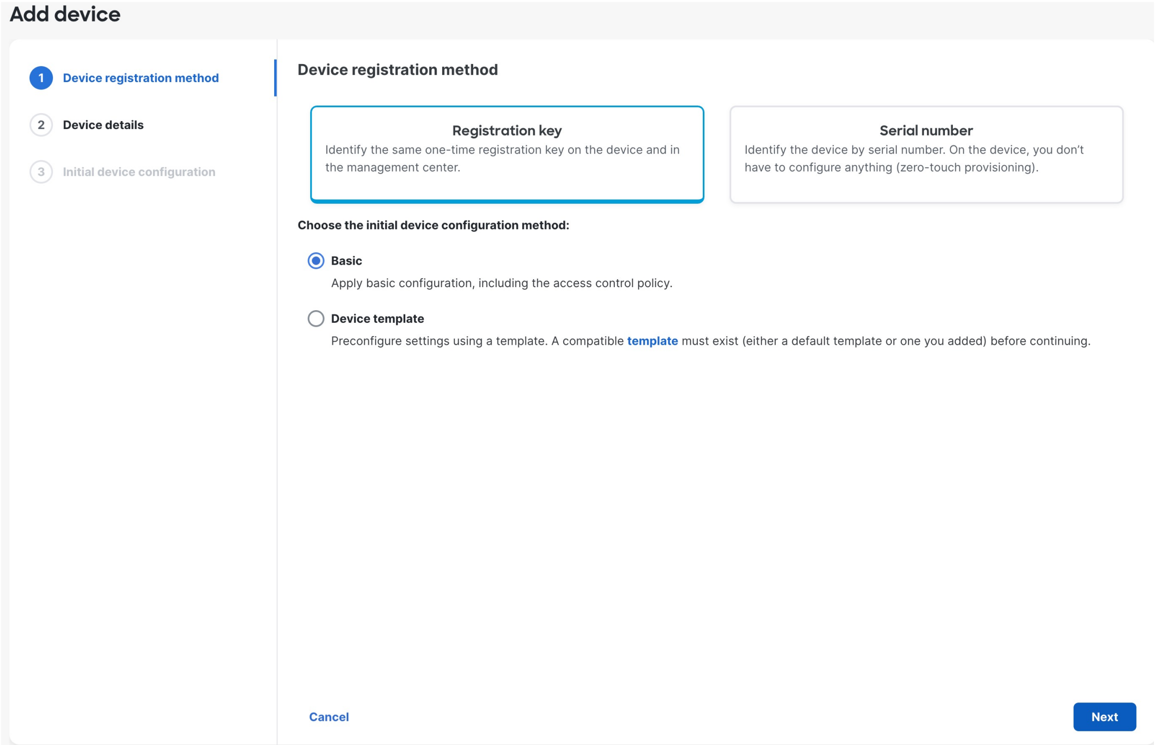
c) Click **Log In**.

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

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

Step 4 Click **Registration Key**, click **Basic**, and then click **Next**.

Figure 1: Device Registration Method



Add device

1 Device registration method

2 Device details

3 Initial device configuration

Device registration method

Registration key
Identify the same one-time registration key on the device and in the management center.

Serial number
Identify the device by serial number. On the device, you don't have to configure anything (zero-touch provisioning).

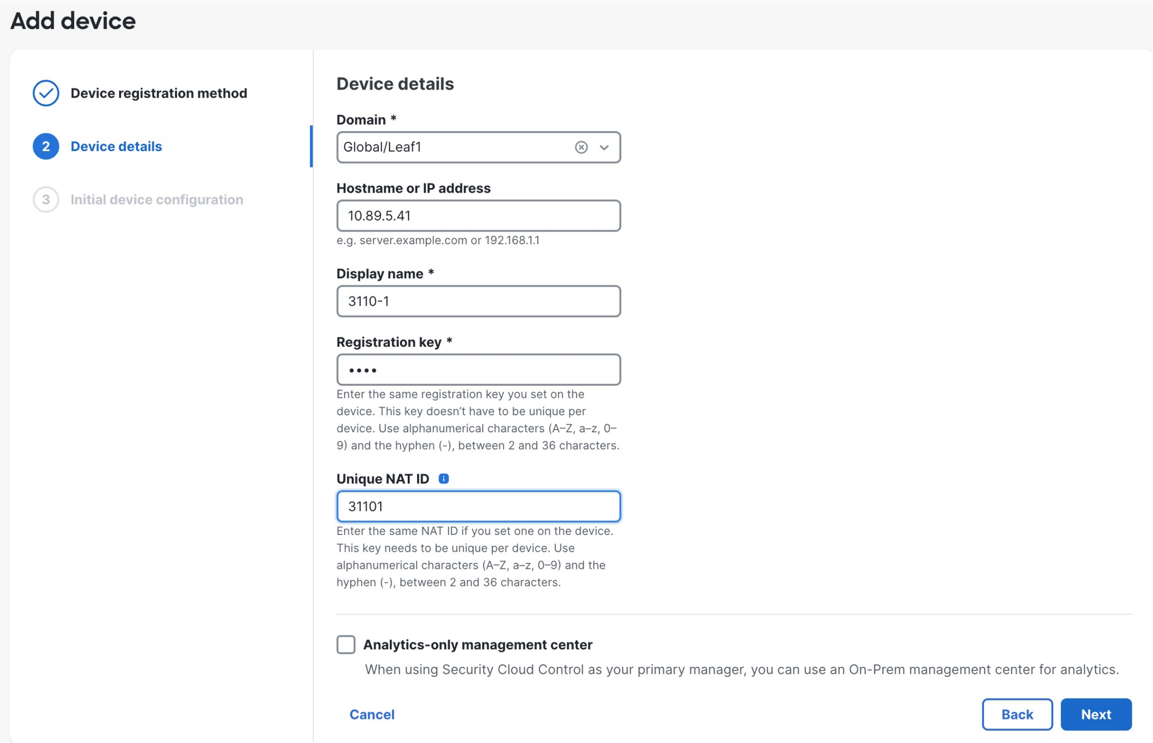
Choose the initial device configuration method:

● Basic
Apply basic configuration, including the access control policy.

○ Device template
Preconfigure settings using a template. A compatible template must exist (either a default template or one you added) before continuing.

Step 5 Configure the device details and click **Next**.

Figure 2: Device Details



Device details

Domain *
Global/Leaf1

Hostname or IP address
10.89.5.41
e.g. server.example.com or 192.168.1.1

Display name *
3110-1

Registration key *
••••
Enter the same registration key you set on the device. This key doesn't have to be unique per device. Use alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-), between 2 and 36 characters.

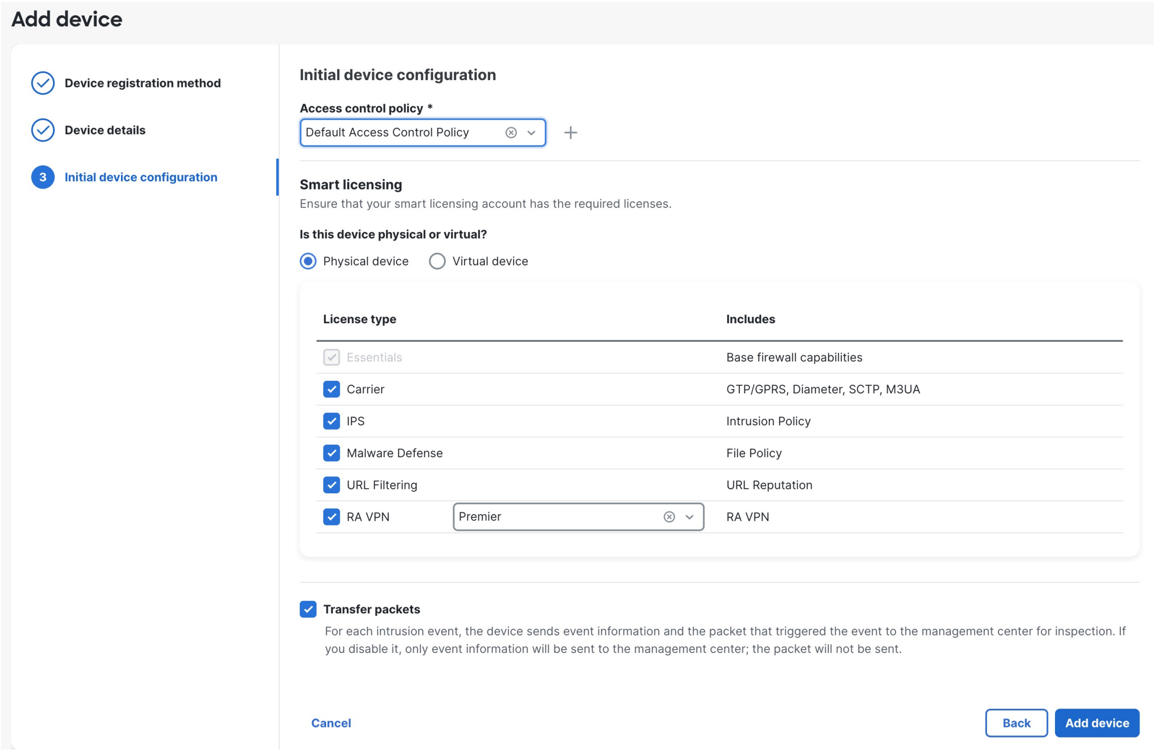
Unique NAT ID
31101
Enter the same NAT ID if you set one on the device. This key needs to be unique per device. Use alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-), between 2 and 36 characters.

☐ Analytics-only management center
When using Security Cloud Control as your primary manager, you can use an On-Prem management center for analytics.

- **Domain**—In a multidomain environment, choose the leaf domain.
- **Device group**—In a single domain environment, add the device to a **Device group**.
- **Hostname or IP address**—Enter the IP address or the hostname of the device you want to add. Leave this field blank if you don't know the device IP address (for example, it's behind NAT).
- **Display name**—Enter a name for the device as you want it to display in the Firewall Management Center. You cannot change this name later.
- **Registration key**—Enter the same registration key from your initial configuration.
- **Unique NAT ID**—Enter the same ID from your initial configuration.
- **Analytics-only management center**—Leave this unchecked.

Step 6 Configure the initial device configuration.

Figure 3: Initial Device Configuration



Initial device configuration

Access control policy *

Default Access Control Policy

Smart licensing

Ensure that your smart licensing account has the required licenses.

Is this device physical or virtual?

● Physical device ○ Virtual device

License type		Includes
☑ Essentials		Base firewall capabilities
☑ Carrier		GTP/GPRS, Diameter, SCTP, M3UA
☑ IPS		Intrusion Policy
☑ Malware Defense		File Policy
☑ URL Filtering		URL Reputation
☑ RA VPN	Premier	RA VPN

☑ Transfer packets

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.

- **Access control policy**—Choose an initial policy to deploy to the device at registration, or create a new policy. Unless you already have a customized policy you know you need to use, choose **Add** (+), and choose **Block all traffic**. You can change this later to allow traffic; see Configure an Access Control Rule.
- **Smart licensing**—Choose your licenses.
  - **Is this device physical or virtual?**—Choose **Physical device**
  - **License type**—Check each license type to assign to the device.

  You can also apply licenses after you add the device.
- **Transfer packets**—Enable this option so that for each intrusion event, the device transfers the packet to the Firewall Management Center for inspection.

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

Step 7 Click **Add device**.

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

- Ping—Access the device CLI, and ping the Firewall Management Center IP address using the following command:

  ping system *ip_address*

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

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

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