Migrate from the Cisco ACI Endpoint Update App to the Cisco APIC Integration with ASA

The following topics discuss the Cisco ACI Endpoint Update App to the Cisco APIC integration with ASA.

About the migration

This chapter discusses how to migrate your configuration and objects from the Cisco ACI Endpoint Update App to the Cisco APIC integration with ASA. Among the reasons to migrate:

- The Cisco APIC integration uses the dynamic attributes connector, which retrieves dynamic objects (that is, network object groups, EPGs, and ESGs) from Cisco APIC and sends them to the Secure Firewall Management Center.
- You can add more Cisco APIC-ASA integrations to the dynamic attributes connector at any time.

Note As an alternative to this migration, you can use the Standalone ACI-Endpoint-Update-App.

To migrate, perform the following tasks:

1. Install the dynamic attributes connector and make sure it, Cisco APIC, and Cisco APIC can communicate with each other over the network. The dynamic attributes connector retrieves network object groups from Cisco APIC and pushes them to Cisco APIC so all systems must be able to communicate.

   See Migration step 1: Set up the dynamic attributes connector, on page 2

2. On Cisco APIC, get the site prefix and update interval from the Cisco ACI Endpoint Update App, disable learning, and choose a user with the appropriate privilege level.

   See Migration step 2: Prepare Cisco APIC, on page 2

3. On the dynamic attributes connector, create an ASA adapter.

See Migration step 3: Configure the dynamic attributes connector, on page 3

4. As a final verification step, make sure you see objects on the Cisco APIC.

   See Migration final step: Verify network object groups in ASDM, on page 3

Migration step 1: Set up the dynamic attributes connector

To use the integration, you must install the dynamic attributes connector on a Ubuntu or Red Hat Enterprise Linux virtual machine and verify it can communicate both with Cisco APIC and ASA.

Following are the minimum requirements for your system:

- Ubuntu 18.04 to 22.04.2
- Red Hat Enterprise Linux (RHEL) 7 or 8
- Python 3.6.x or later
- Ansible 2.9 or later

Procedure

Step 1 Set up a virtual machine with the hardware and software prerequisites discussed in Supported operating systems and third-party software.

Step 2 Get the dynamic attributes connector software as discussed in Install prerequisite software.

Step 3 Install the dynamic attributes connector as discussed in Install the dynamic attributes connector.

What to do next

See Migration step 2: Prepare Cisco APIC, on page 2.

Migration step 2: Prepare Cisco APIC

Get required information

To migrate to the Cisco APIC integration with ASA, you must get all of the following information:

- Cisco ACI Endpoint Update App site prefix and update interval
- Cisco APIC tenant name
- Cisco APIC application profile name
- EPG name
- User with at least the `read-all` role with `readPriv` access and the `tenant-admin` role with `writePriv` access for the security domain that contains the network object groups to send to ASA.

For more information, see Get required information for the integration.

Disable learning for the Cisco ACI Endpoint Update App

To prevent the Cisco ACI Endpoint Update App from communicating with Cisco APIC, you must disable learning.

1. Log in to Cisco APIC as a user with the `tenant-admin` role with `writePriv` access.
2. Click **Apps**.
3. Under ACI Endpoint Update app, click **Open**.
4. Select the check box next to one or more tenants you're integrating with Cisco APIC.
5. On the right side of the page, click  .
6. From the list, click **Disable Learning**.
7. Select the checkbox to optionally erase all existing learning objects on the Cisco APIC device with which the Cisco ACI Endpoint Update App was previously associated.
8. Click **Submit**.

Migration step 3: Configure the dynamic attributes connector

In the dynamic attributes connector, create a Cisco APIC connnector and an ASA adapter.

Before you begin

Complete the tasks discussed in Migration step 2: Prepare Cisco APIC, on page 2.

Procedure

Step 1 Log in to the dynamic attributes connector.

Step 2 Create the connector: Create a Cisco APIC connector.

Step 3 Create the adapter: Create an ASA adapter.

What to do next

See Migration final step: Verify network object groups in ASDM, on page 3.

Migration final step: Verify network object groups in ASDM

To make sure the integration is working, you can optionally view network object groups retrieved from Cisco APIC in ASDM.

Before you begin

Complete the tasks discussed in Migration step 3: Configure the dynamic attributes connector, on page 3.

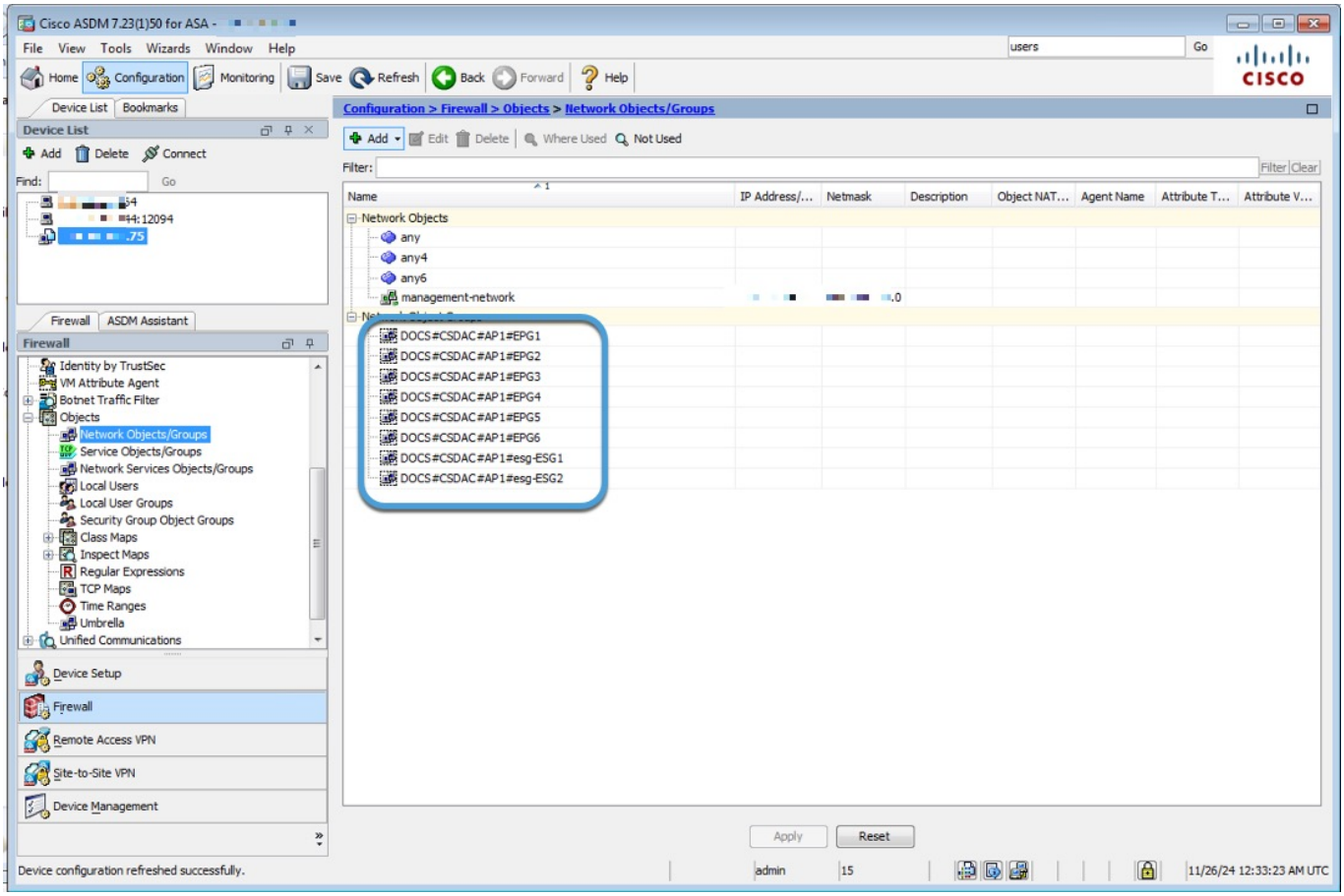
Procedure

Step 1 Log in to ASDM as a user with at least privilege level 15 (administrator).

For more information about starting ASDM, see Start ASDM.

For more information about permissions, see Configure Management Remote Access.

Step 2 Click **Configuration** > **Firewall** > **Objects** > **Network Objects/Groups**.
The network object groups are displayed in the right pane as the following figure shows.



Network object groups are named as follows: `SiteName#TenantName#ProfileName#EPGName`