Use Dynamic Objects in Access Control Policies

The dynamic attributes connector enables you to configure dynamic filters, seen in the Secure Firewall Management Center as dynamic objects, in access control rules.

About Dynamic Objects in Access Control Rules

A *dynamic object* is automatically pushed from the dynamic attributes connector to the Secure Firewall Manager after you create connectors and save a dynamic attributes filter on the connector.

You can use these dynamic objects on the access control rule's **Dynamic Attributes** tab page, similarly to the way you used Security Group Tags (SGTs). You can add dynamic objects as source or destination attributes; for example, in an access control block rule, you can add a Finance dynamic object as a destination attribute to block access to Finance servers by whatever objects match the other criteria in the rule.

Note You cannot create dynamic attributes filters for AWS, AWS service tags, AWS service groups, Azure, Azure Service Tags, Cisco Cyber Vision, Generic Text, GitHub, Google Cloud, Office 365, vCenter, Webex, or Zoom. These types of cloud objects provide their own IP addresses.

Create Access Control Rules Using Dynamic Attributes Filters

This topic discusses how to create access control rules using dynamic objects (these dynamic objects are named after the dynamic attributes filters you created previously).

Before you begin

Create dynamic attributes filters as discussed in Create Dynamic Attributes Filters.

Note You cannot create dynamic attributes filters for AWS, AWS service tags, AWS service groups, Azure, Azure Service Tags, Cisco Cyber Vision, Generic Text, GitHub, Google Cloud, Office 365, vCenter, Webex, or Zoom. These types of cloud objects provide their own IP addresses.

Procedure

Step 1 Log in to the Secure Firewall Management Center

Step 2 Click **Policies** > **Access Control heading** > **Access Control**.

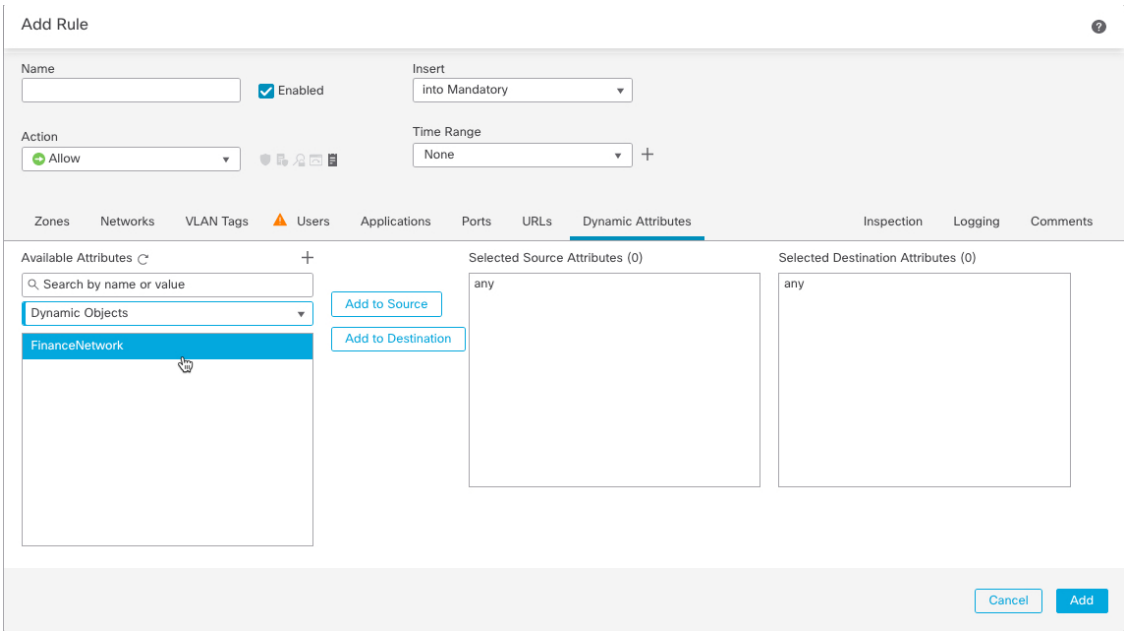
Step 3 Click **Edit** (✎) next to an access control policy.

Step 4 Click **Add Rule**.

Step 5 Click the **Dynamic Attributes** tab.

Step 6 In the Available Attributes section, from the list, click **Dynamic Objects**.

The following figure shows an example.



The preceding example shows a dynamic object named `FinanceNetwork` that corresponds to the dynamic attribute filter created in the Cisco Secure Dynamic Attributes Connector.

Step 7 Add the desired object to source or destination attributes.

Step 8 Add other conditions to the rule if desired.

What to do next

Dynamic Attributes Rule Conditions in the *Cisco Secure Firewall Management Center Device Configuration Guide*.

How to Use Network Object Groups from Cisco APIC in ASA Access Rules

The following topics show how to use network object groups from Cisco APIC in ASA Access Rules.

Related Topics

Add Network Object Groups to Access Rules, on page 3
View Network Object Groups in ASDM, on page 5

Add Network Object Groups to Access Rules

To use dynamic network object groups from Cisco APIC to ASA access rules, you must add those objects as discussed in this task.

Before you begin

Complete all of the following tasks:

- Create a Cisco APIC Connector
- Create an ASA Adapter

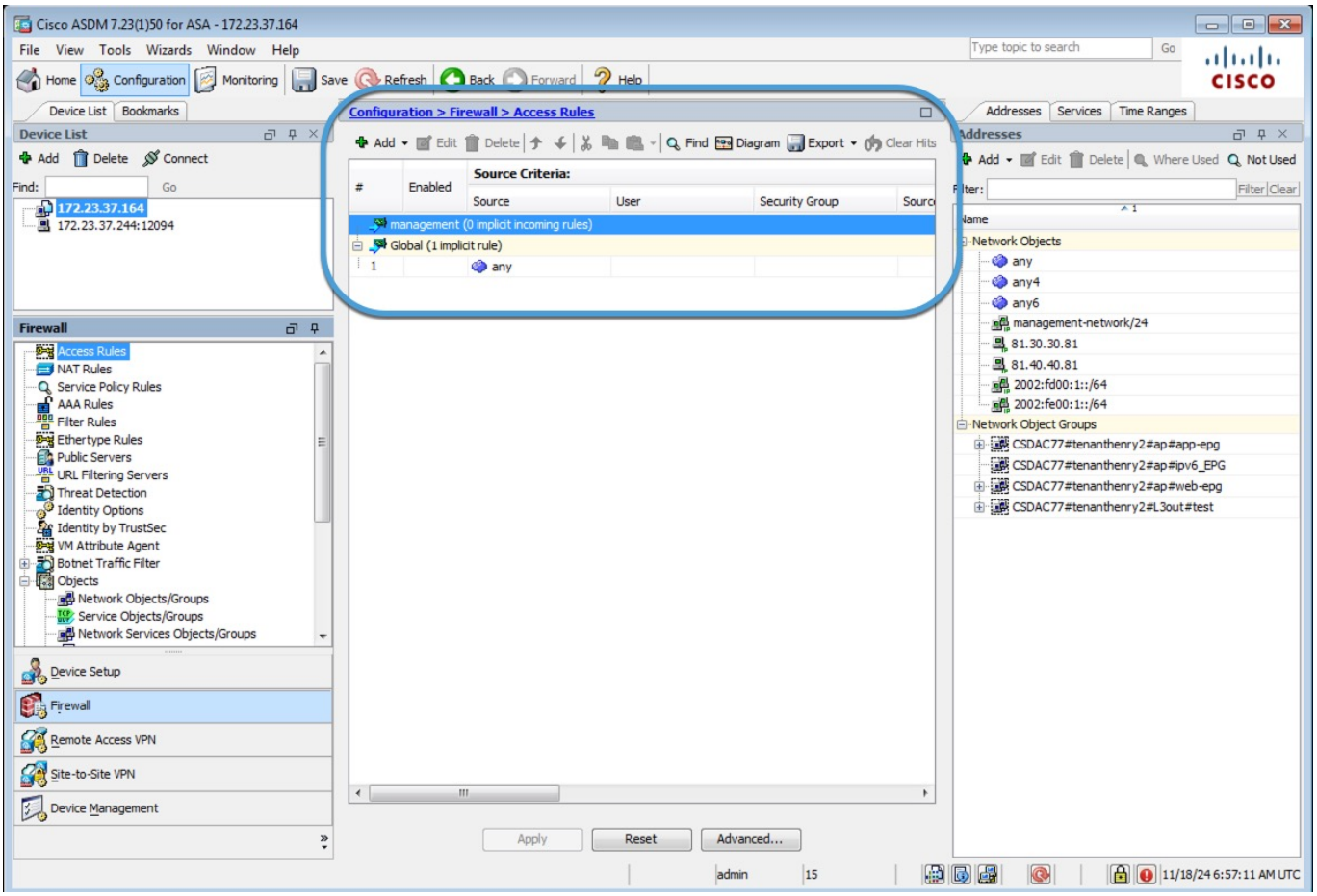
Procedure

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

For more information about starting ASDM, see Start ASDM.

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

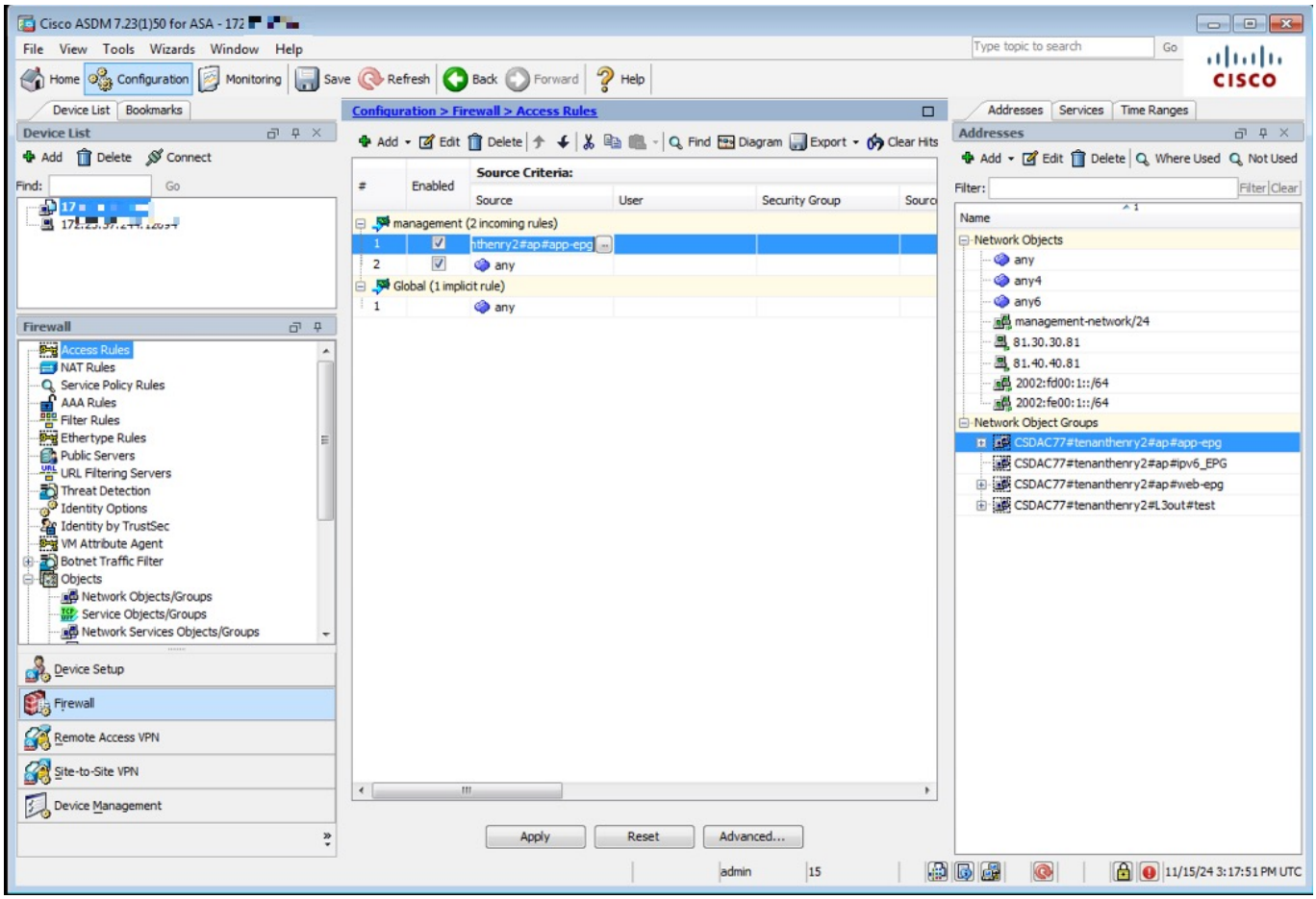
Step 2 Click **Configuration** > **Firewall** > **Access Rules** > **Network Objects/Groups**.
Access rules are displayed in the center pane as the following figure shows.



Step 3 Specify one or more network object groups as source criteria for the rule.

Double-click the **Source** field, then click to select a network object group for the rule.

The following figure shows an example.



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

Step 4 Follow the prompts on your screen to complete the action.

For more information, see Access Rules.

Related Topics

Add Network Object Groups to Access Rules, on page 3
View Network Object Groups in ASDM, on page 5

View Network Object Groups in ASDM

This task is optional. To configure ASA access rules without viewing network object groups, see Add Network Object Groups to Access Rules, on page 3.

Before you begin

Complete all of the following tasks:

- Create a Cisco APIC Connector

- Create an ASA Adapter

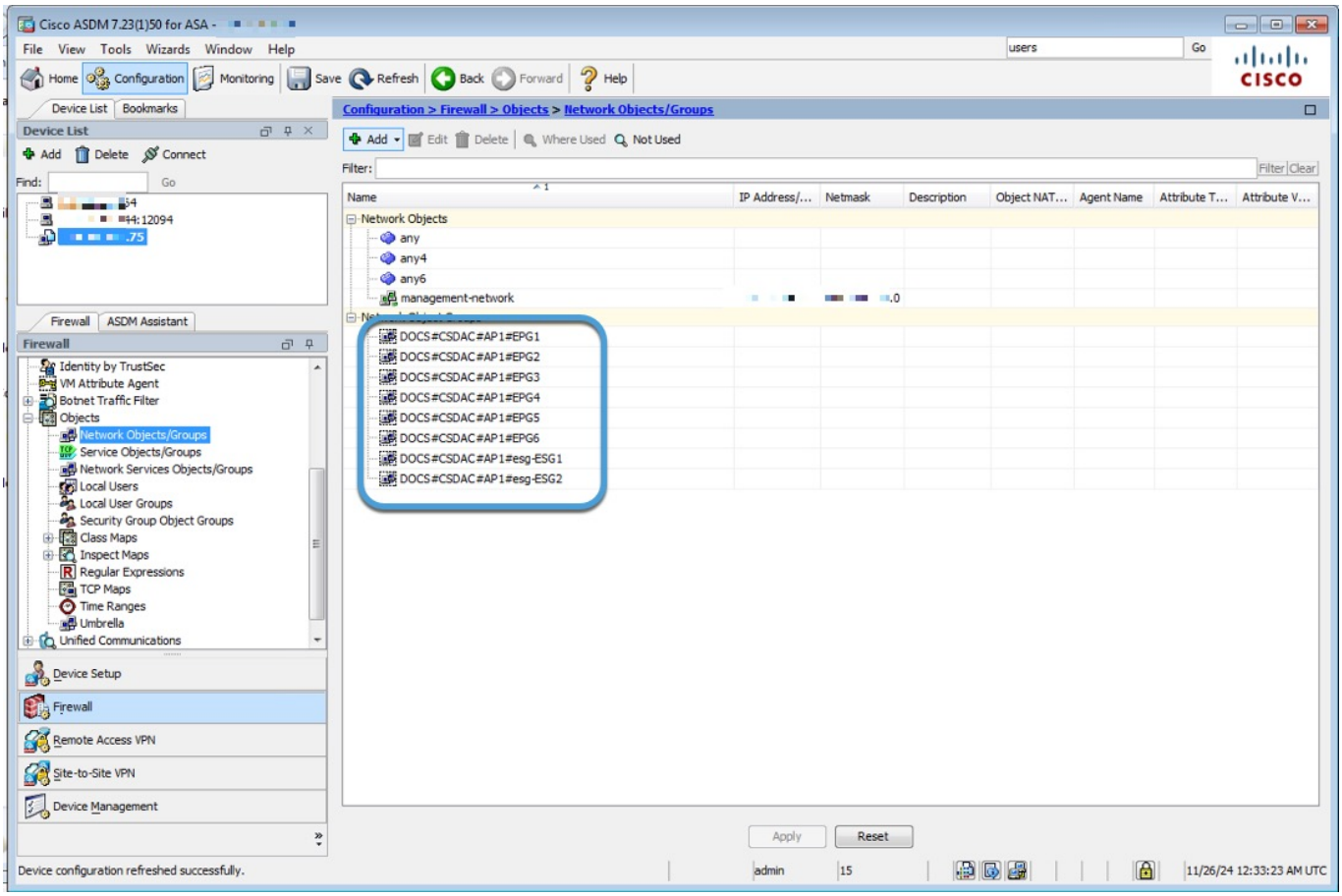
Procedure

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`

What to do next

See Add Network Object Groups to Access Rules, on page 3

Related Topics

Add Network Object Groups to Access Rules, on page 3
View Network Object Groups in ASDM, on page 5