Configuring Security Policies

This chapter includes the following sections:

Security Policies

Cisco VNMC security policies provide options to create security profiles and policies. A security profile and policies can be configured at any organizational level.

Security Profile

A Cisco VNMC security profile is a set of custom security attributes and one assigned policy set. The security profile is added to the port profile for the Nexus 1000V VSM. The port profile is assigned to the Nexus 1000V VSM vNic, making the security profile part of the virtual machine (VM). Adding a security profile to the VM allows the addition of custom attributes to the VM. Firewall rules can be written using custom attributes such that traffic between VMs can be allowed to pass or be dropped. You can also add security policies in the same GUI pane where you are adding security profiles.

There is a pre-configured default security profile at root level. The default security profile points to the default policy set. The default security profile can be edited but cannot be deleted.

Policies

A Cisco VNMC supports a number of policies. The policies are as follows:

1   Policy set—The policy set contains the policy, the rule, the zone, and the object group. Once the policy set is created, it can be assigned to a security profile. An existing default policy set is automatically assigned at system boot up.

2   Policy—A policy contains rules. A policy can contain rules that can be ordered. An existing default policy is automatically assigned at system boot up. The default policy has a default rule that has an action as **drop**.

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3 Rule—A rule contains the conditions for regulating traffic. The default policy has a default rule that has an action as **drop**. Conditions for a rule can be set using the network, custom, and virtual machine attributes.

4 Object group—An object group object can be created under an organization node. It defines a collection of condition expressions on a specific system defined or on a custom attribute. An object group can be referred in a policy rule condition when a member or not-member operator is selected. The rule condition referring to the object group evaluates to true if any of the expressions in the object group evaluate to true.

5 Security Profile Dictionary—A Cisco VNMC security profile dictionary is a logical collection of security attributes. You define dictionary attributes for use in a security profile. A security profile dictionary is created at the root or tenant node. You can only create one dictionary for a tenant and only one dictionary for the root. The security profile dictionary allows the user to define names of custom attributes. Custom attribute values are specified on security profile objects. Custom attributes can be used to define policy rule conditions. Attributes configured in a root level dictionary can be used by any tenant. Creation of a dictionary below tenant level is not supported.

6 Zone—A zone defines a set of virtual machines based on conditions. The zone name is used in the authoring rules.

Security policies are created and then pushed to the Cisco VSG.

Configuring Security Profiles

Adding a Security Profile

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Security Profiles**

Step 4 In the **Work** pane, click the **Add Security Profile** link.

Note You can add the component at any organizational level.

Step 5 In the **Add Security Profile** dialog box, **General** tab area, complete the following fields:

Name	Description
Name field	The name of the security profile. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.

Name	Description
Description field	A description of the security profile. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.
Policy Set drop-down list	A selectable drop-down list of policy sets.
Add Policy Set link	A link to add a policy set.
Resolved Policy Set field	A link to edit the resolved policy set.

Table 1: Resolved Policies Area

Name	Description
(Un)assign Policy link	The link to unassign a policy.
Name column	The name of the rule.
Source Condition column	Contains the source condition specified.
Destination Condition column	Contains the destination condition specified.
Protocol column	Contains the protocol specified.
Ethertype column	Contains the Ethertype specified.
Action column	Contains the action specified for the rule.
Description column	Contains a description for the rule.

Step 6 In the **Add Security Profile** dialog box, **Attributes** tab area, complete the following fields:

Name	Description
Add link	The link opens a dialog box where you can add an attribute.
Name column	The name of the attribute.
Value column	The attribute value.

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Step 7 Click **OK**.

Editing a Security Profile

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Security Profiles** .

Step 4 In the **Work** pane, click the security profile you want to edit.

Step 5 Click the **Edit** link.

Step 6 In the **Edit Security Profile** dialog box, **General** tab area, modify the following fields as appropriate:

Name	Description
Name field	The name of the security profile.
Description field	A user-defined description of the object.
Policy Set drop-down list	A selectable drop-down list of policy sets.
Resolved Policy Set field	A link to edit the resolved policy set.

Table 2: Resolved Policies Area

Name	Description
(Un)assigned Policy column	The link to a dialog box where you can assign or unassign policies.
Source Condition column	Contains the source condition specified.
Destination Condition column	Contains the destination condition specified.
Protocol column	Contains the protocol specified.
Ethertype column	Contains the Ethertype specified.
Action column	Contains the action specified for the rule.
Description column	A description of the component.

Step 7 In the **Edit Security Profile** dialog box, **Attributes** tab area, modify the following fields as appropriate:

Name	Description
Add link	Allows you to add a Security Profile attribute.
Name column	The name of the Security Profile attribute.
Value column	A value for the attribute.

Step 8 Click **OK**.

Deleting a Security Profile

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Security Profiles**.

Step 4 In the **Work** pane, click the security profile you want to delete.

Step 5 Click the **Delete** link.

Step 6 In the **Confirm** dialog box, click **OK**.

Deleting a Security Profile Attribute

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Security Profiles**.

Step 4 In the **Navigation** pane, click the security profile that contains the attribute you want to delete.

Step 5 In the **Work** pane, click the **Attributes** tab.

Step 6 Click the attribute you want to delete.

Step 7 Click the **Delete** link.

Step 8 In the **Confirm** dialog box, click **OK**.

Assigning a Policy

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Security Profiles**.

Step 4 In the **Navigation** pane, click the profile where you want to assign the policy.

Step 5 In the **Work** pane, click the **(Un)assign Policy** link.

Step 6 In the **(Un)assign Policy** dialog box, move the policy you want assigned to the **Assigned** list.

Step 7 Click **OK**.

Unassigning a Policy

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Security Profiles**.

Step 4 In the **Navigation** pane, click the profile where you want to unassign the policy.

Step 5 In the **Work** pane, click the **(Un)assign Policy** link.

Step 6 In the **(Un)assign Policy** dialog box, move the policy you want unassigned to the **Available** list.

Step 7 Click **OK**.

Configuring Security Policy Attributes

Configuring Object Groups

Adding an Object Group

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Object Groups**.

Step 4 In the **Work** pane, click the **Add Object Group** link.

      Note   You can add the component at any organizational level.

Step 5 In the **Add Object Group** dialog box, complete the following fields:

Name	Description
Name field	The name of the object group.
	This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.
Description field	A description of the object group.
	This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.
Attribute Type drop-down list	The attribute types available to select.
Attribute Name drop-down list	The attribute names available to select.
Add Attribute link	The link opens a dialog box where you can add an attribute.
Resolved Attribute field	The resolved attribute link.

Step 6 Click **OK**.

Adding an Object Group Expression

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Object Groups**.

Step 4 In the **Work** pane, click the **Add Object Group** link.
Note   You can add the component at any organizational level.

Step 5 In the **Add Object Group** dialog box, click the **Add** link:

Step 6 In the **Add Object Group Expression** dialog box, complete the following fields:

Name	Description
Attribute Name field	The name of the attribute.
Operator drop-down list	The list of selectable operators.
Attribute Value field	The value of the attribute.

Step 7 Click **OK**.

Editing an Object Group

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand**root** > **Advanced** > **Advanced** > **Object Groups**.

Step 4 In the **Work** pane, click the object group you want to edit.

Step 5 Click the **Edit** link.

Step 6 In the **Edit Object Group** dialog box **General** tab area, edit the appropriate fields:

Name	Description
Name field	The name of the object group.
	This field cannot be edited on this tab.

Name	Description
Description field	The description of the object group.
	This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.
Attribute Type drop-down list	A list that contains attribute types.
Attribute Name drop-down list	A list that contains attribute names

Table 3: Expression Area

Name	Description
Operator column	The operator used.
Value column	The attribute value.

Step 7   Click **OK**.

Editing an Object Group Expression

Procedure

Step 1   In the **Navigation** pane, click the **Policy Management** tab.

Step 2   In the **Navigation** pane, click the **Security Policies** subtab.

Step 3   In the **Navigation** pane, expand **root** > **Advanced** > **Object Groups** and click the object group where you want to edit an expression.

Step 4   In the **Work** pane, click the **Edit** link in the **Expression** area.

Step 5   In the **Expressions** area, click the expression you want to edit.

Step 6   In the **Edit Expression** dialog box modify the appropriate fields:

Name	Description
Attribute Name field	The name of the attribute.
Operator drop-down list	The list of selectable operators.
Attribute Value field	The value of the attribute.

Step 7   Click **OK**.

Deleting an Object Group

Procedure

Step 1   In the **Navigation** pane, click the **Policy Management** tab.

Step 2   In the **Navigation** pane, click the **Security Policies** subtab.

Step 3   In the **Navigation** pane, expand **root** > **Advanced** > **Object Groups**.

Step 4   In the **Navigation** pane, click the **Object Groups** node.

Step 5   In the **Work** pane, click the object group you want to delete.

Step 6   Click the **Delete** link.

Step 7   In the **Confirm** dialog box, click **Yes**.

Deleting an Object Group Expression

Procedure

Step 1   In the **Navigation** pane, click the **Policy Management** tab.

Step 2   In the **Navigation** pane, click the **Security Policies** subtab.

Step 3   In the **Navigation** pane, expand **root** > **Advanced** > **Object Groups**.

Step 4   In the **Navigation** pane, click the object group that contains the expression you want to delete.

Step 5   In the **Expression** area, click the expression you want to delete.

Step 6   Click the **Delete** link.

Step 7   In the **Confirm** dialog box, click **Yes**.

Configuring a Policy

Adding a Policy

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies**.

Step 4 In the **Work** pane, click the **Add Policy** link.

Step 5 In the **Add Policy** dialog box, complete the following fields:

Name	Description
Name	The name of the policy. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.
Description	The description of the policy. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.

Table 4: Rules Area

Name	Description
Add Rule link	Opens a dialog box that allows you to add a rule.
Up and **Down** arrows	Changes the priority of the selected policies.
Name column	Contains the rule names.
Source Condition column	Contains the source condition specified
Destination Condition column	Contains the destination condition specified
Protocol column	Contains the protocol specified
Ethertype column	Contains the EtherType specified
Action column	Contains the action specified for the rule.

Name	Description
Description column	Contains a description for the rule.

Step 6 Click **OK**.

Editing a Policy

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies**.

Step 4 In the **Work** pane, click the policy you want to edit.

Step 5 Click the **Edit** link.

Step 6 In the **Edit Policy** dialog box, **General** tab area, modify the following fields as appropriate:

Name	Description
Name field	A component name.
Description field	A component description.

Table 5: Rules Area

Name	Description
Add Rule link	Opens a dialog box that allows you to add a rule.
Up and **Down** arrows	Changes the priority of the selected policies.
Name column	Contains the rule names.
Source Condition column	Contains the source condition specified
Destination Condition column	Contains the destination condition specified
Protocol column	Contains the protocol specified
Ethertype column	Contains the EtherType specified
Action column	Contains the action specified for the rule.

Name	Description
Description column	Contains a description for the rule.

Step 7 Click **Apply**, and then click **OK**.

Deleting a Rule-Based Policy

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies**.

Step 4 In the **Work** pane, click the policy you want to delete.

Step 5 Click the **Delete** link.

Step 6 In the **Confirm** dialog box, click **Yes**.

Adding a Rule

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies**.

Step 4 In the **Work** pane, click the **Add Policy** link.

    Note You can add the component at any organizational level.

Step 5 In the **Add Policy** dialog box, click the **Add Rule** link.

Step 6 In the **Add Rule** dialog box, complete the following fields:

Name	Description
Name field	The name of the rule. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.

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Name	Description
Description field	The description of the rule. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.
Action to Take area	The area in which you manage actions. • **drop** radio button—Click to set the action to drop. • **permit** radio button—Click to set the action to permit. • **reset** radio button—Click to set the action to reset. You can also check the **log** check box to enable logging.
Protocol area	The area in which you set the protocol. • **Any** check box—Check to use any protocol, and uncheck to choose a protocol. • **Operator** drop-down list—Choose an operator from the drop-down list. • **Value** drop-down list—Choose a protocol from the drop-down list.
Ether Type area	The area in which you set the Ethernet type. • **Any** check box—Check to use any value, and uncheck to enter a value. • **Operator** drop-down list—Choose an operator from the drop-down list. • **Value** field—Enter a hex number in the field.

Step 7 In the **Source Conditions** area, click the **Add** link to open the **Add Source Condition** dialog box, and choose the fields as appropriate:

Table 6: Source Conditions Area

Name	Description
Add link	Clicking the **Add** link opens the **Add Source Condition** dialog box.
Attribute Name column	The name of the attribute.
Operator column	The operator value specified.
Attribute Value column	The attribute value specified.

Step 8 In the **Destination Conditions** area, click the **Add** link to open the **Add Destination Condition** dialog box, and choose the fields as appropriate:

Table 7: Destination Conditions Area

Name	Description
Add link	Clicking the **Add** link opens the **Add Destination Condition** dialog box.
Attribute Name column	The name of the attribute.
Operator column	The operator value specified.
Attribute Value column	The attribute value specified.

Step 9 Click **OK**.

Editing a Rule

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies** > *Policy_name* where you want to edit a rule.

Step 4 In the **Work** pane, click the *Rule_name* you want to edit.

Step 5 Click the **Edit** link.

Step 6 In the **Edit Rule** dialog box **General** tab area, modify the fields:

   a) Modify the following fields as appropriate:

Name	Description
Name field	The name of the rule.
Description field	A description of the rule. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.
Action to Take area	The area in which you manage actions. • **drop** radio button—Click to set the action to drop. • **permit** radio button—Click to set the action to permit. • **reset** radio button—Click to set the action to reset. You can also check the **log** check box to enable logging.
Protocol area	The area in which you set the protocol. • **Any** check box—Check to use any protocol, and uncheck to choose a protocol. • **Operator** drop-down list—Choose an operator from the drop-down list. • **Value** drop-down list—Choose a protocol from the drop-down list.
Ether Type area	The area in which you set the Ethernet type. • **Any** check box—Check to use any value, and uncheck to enter a value. • **Operator** drop-down list—Choose an operator from the drop-down list. • **Value** field—Enter a hex number in the field.

b) In the **Source Conditions** area, modify the appropriate fields:

Table 8: Source Conditions Area

Name	Description
Add link	Clicking the **Add** link opens the **Add Source Condition** dialog box.
Attribute Name column	The name of the attribute.
Operator column	The operator value specified.
Attribute Value column	The attribute value specified.

c) In the **Destination Conditions** area, modify the appropriate fields:

Table 9: Destination Conditions Area

Name	Description
Add link	Clicking the **Add** link opens the **Add Destination Condition** dialog box.
Attribute Name column	The name of the attribute.
Operator column	The operator value specified.
Attribute Value column	The attribute value specified.

Step 7 Click **OK**.

Step 8 In the *Policy_name* dialog box, click **Save**.

Deleting a Rule

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies**.

Step 4 In the **Work** pane, click the Policy where you want to delete a rule.

Step 5 Click the **Edit** link.

Step 6 In the **Edit Policy** dialog box, click the rule you want to delete.

Step 7 Click the **Delete** link.

Step 8 In the **Confirm** dialog box, click **Yes**.

Deleting a Source or a Destination Condition

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policies**.
In the **Navigation** pane, click the policy that contains the source or destination condition you want to delete.

Step 4 In the **Navigation** pane, click the policy that contains the source or destination condition you want to delete.

Step 5 In the **Work** pane, click the **Edit Rule** link.

Step 6 In the **Edit Rule** dialog box, click the source or a destination condition you want to delete.

Step 7 Click the **Delete** link in the associated area.

Step 8 In the **Confirm** dialog box, click **Yes**.

Configuring a Policy Set

Adding a Policy Set

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policy Sets**.
    Note You can add the component at any organizational
            level.

Step 4 In the **Work** pane, click the **Add Policy Set** link.

Step 5 In the **Add Policy Set** dialog box, **General** tab area, complete the following fields, and optionally, move policies between the **Available** and **Assigned** areas:

Name	Description
Name field	A name for the component. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.
Description field	A user-defined description of the component. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.

Table 10: Policies Area

Name	Description
Add Policy link	Opens a dialog box that allows you to add a policy.
Up and **Down** arrows	Changes the priority of the selected policies.
Available column	Lists the policies created and available. Use arrows between the columns to move policies to the **Assigned** column.
Assigned column	Lists the policies assigned to the policy set. Use arrows between the columns to move policies to the **Available** column.

Step 6   In the **Add Policy Set** dialog box, click **OK**.

Editing a Policy Set

Procedure

Step 1   In the **Navigation** pane, click the **Policy Management** tab.

Step 2   In the **Navigation** pane, click the **Security Policies** subtab.

Step 3   In the **Navigation** pane, expand **root** > **Advanced** > **Policy Sets**.

Step 4   In the **Work** pane, click the policy set you want to edit.

Step 5   Click the **Edit** link.

Step 6   In the **Edit Policy Set** dialog box, **General** tab area, modify the following fields as appropriate:

Name	Description
Name field	A name for the component.
Description field	A user-defined description of the component.

Table 11: Policies Area

Name	Description
Add Policy link	Opens a dialog box that allows you to add a policy.
Up and **Down** arrows	Changes the priority of the selected policies.
Available column	Lists the policies created and available. Use arrows between the columns to move policies to the **Assigned** column.
Assigned column	Lists the policies assigned to the policy set. Use arrows between the columns to move policies to the **Available** column.

Step 7   Click **OK**.

Deleting a Policy Set

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Policy Sets**.

Step 4 In the **Work** pane, click the policy set you want to delete.

Step 5 Click the **Delete** link.

Step 6 In the **Confirm** dialog box, click **Yes**.

Configuring Zones

Adding a vZone

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced**.

Step 4 In the **Navigation** pane, click the **vZones** node.
Note   You can add the component at any organizational level.

Step 5 In the **Work** pane, click the **Add vZone** link.

Step 6 In the **Add vZone** dialog box, complete the following fields:

Name	Description
Name field	The name of the vZone. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.
Description field	The description of the vZone. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.

Step 7   Click the **Add** link in the **vZone Condition** area and complete the following tasks:

a)   In the Add vZone Condition dialog box, complete the following areas:

Name	Description
Attribute Type drop-down list	A list of attribute types. It can be one of the following attributes: • **Network** • **VM** • **User Defined**

Table 12: Expression Area

Name	Description
Attribute Name	The attribute name. Depending upon the attribute type selected, a different set of choices are available.
Operator	The operator used. Depending upon the attribute type selected, a different set of choices are available.
Attribute Value	The attribute value. Depending upon the attribute type selected, a different set of choices is available.

b)   Click **OK**.

Step 8   In the **Add vZone** dialog box, click **OK**.

Editing a vZone

Procedure

Step 1   In the **Navigation** pane, click the **Policy Management** tab.

Step 2   In the **Navigation** pane, click the **Security Policies** subtab.

Step 3   In the **Navigation** pane, expand **root** > **Advanced** > **vZones** node.

Step 4   In the **Navigation** pane, click the **vZones** node.

Step 5   In the **Work** pane, click the vzone you want to edit.

Step 6   Click the **Edit** link.

Step 7   In the **Edit Zone** dialog box **General** tab area, change the appropriate fields:

Name	Description
Name column	A list of components.
Description column	A list of component descriptions.

Step 8 In the **Edit Zone** dialog box **vZone Conditions** area, do the following:

a) Click an attribute you want to edit.

b) Click the **Edit** link to open the **Edit Condition** dialog box, and make the appropriate changes in the following fields:

Name	Description
Attribute Type drop-down list	The list you use to manage attribute types.

Table 13: Expression area

Name	Description
Attribute Name drop-down list	Contains attribute names.
Operator drop-down list	Contains operators.
Attribute Value field	Contains attribute values.

c) Click **OK**.

Step 9 In the **Edit vZone** dialog box, click **OK**.

Deleting a vZone

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced**.

Step 4 In the **Navigation** pane, click the **vZones** node.

Step 5 In the **Work** pane, click the vZone you want to delete.

Step 6 Click the **Delete** link.

Step 7 In the **Confirm** dialog box, click **Yes**.

Deleting a vZone Condition

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **vZones** .

Step 4 In the **Navigation** pane, click the vZone that contains the condition you want to delete.

Step 5 In the **Work** pane, click the **Edit** link.

Step 6 In the **Edit vZone** dialog box, **vZone Condition** area, click the condition you want to delete.

Step 7 Click the **Delete** link.

Step 8 In the **Confirm** dialog box, click **Yes**.

Step 9 In the **Edit vZone** dialog box, click **Apply**.

Configuring Security Profile Dictionary

Adding a Security Profile Dictionary

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Security Profile Dictionary** node.

Step 4 In the **Work** pane, click the **Add Security Profile Dictionary** link.
Note You can create a security profile dictionary at the root or Tenant level.

Step 5 In the **Add Security Profile Dictionary** dialog box, complete the following fields as appropriate:

Name	Description
Name field	The name of the security profile. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.

Name	Description
Description field	A description of the security profile. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.
Policy Set drop-down list	A selectable drop-down list of policy sets.
Add Policy Set link	A link to add a policy set.
Resolved Policy Set field	A link to edit the resolved policy set.

Step 6 Click **OK**.

Adding a Security Profile Dictionary Attribute

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Security Profile Dictionary** to view and select the appropriate *Security Profile Dictionary_name*.

Step 4 In the **Work** pane, click the **Edit** link to open the **Edit Security Profile Dictionary** dialog box.

Step 5 In the **Edit Security Profile Dictionary** dialog box, click the **Add Attribute** link.

Step 6 In the **Add Attribute** dialog box, complete the following fields:

Name	Description
Name field	The name of the **Security Profile Dictionary** attribute. This name can be between 1 and 32 identifier characters. You can use alphanumeric characters including hyphen, underscore, dot, and colon. You cannot change this name after it is saved.
Description field	A description of the **Security Profile Dictionary** attribute. This description can be between 1 and 256 identifier characters. You can use alphanumeric characters including hyphens, underscore, dot, and colon. You cannot change this description after it is saved.

Step 7	Click **OK**.

Editing a Security Profile Dictionary

Procedure

Step 1	In the **Navigation** pane, click the **Policy Management** tab.
Step 2	In the **Navigation** pane, click the **Security Policies** subtab.
Step 3	In the **Navigation** pane, expand **root** > **Advanced** > **Security Profile Dictionary**.
Step 4	In the **Work** pane, click the security profile dictionary you want to edit.
Step 5	Click the **Edit** link.
Step 6	In the **Edit Security Profile Dictionary** dialog box, modify the fields as appropriate:

Name	Description
Name field	The name of the security profile dictionary. You cannot edit this field.
Description field	A description of the security profile dictionary.

Step 7	Click **OK**.

Editing a Security Profile Dictionary Attribute

Procedure

Step 1	In the **Navigation** pane, click the **Policy Management** tab.
Step 2	In the **Navigation** pane, click the **Security Policies** subtab.
Step 3	In the **Navigation** pane, expand **root** > **Advanced** > **Security Profile Dictionary** node.
Step 4	In the **Work** pane, click the security profile dictionary that contains the attribute you want to edit.
Step 5	Click the **Edit** link.
Step 6	In the **Edit Security Profile Dictionary** dialog box, **Attributes** area, click the attribute you want to edit.
Step 7	Click the **Edit** link.
Step 8	In the **Edit Attribute** dialog box, modify the following fields as appropriate:

Name	Description
Name field	The name of the security profile dictionary attribute.
Description field	A description of the security profile dictionary attribute.

Step 9 Click **OK**.

Step 10 In the **Edit Security Profile Dictionary** dialog box, click **OK**.

Deleting a Security Profile Dictionary

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand**root** > **Advanced** > **Security Profile Dictionary** node.

Step 4 In the **Work** pane, click the security profile dictionary you want to delete.

Step 5 Click the **Delete** link.

Step 6 In the **Confirm** dialog box, click **OK**.

Deleting a Security Profile Dictionary Attribute

Procedure

Step 1 In the **Navigation** pane, click the **Policy Management** tab.

Step 2 In the **Navigation** pane, click the **Security Policies** subtab.

Step 3 In the **Navigation** pane, expand **root** > **Advanced** > **Security Profile Dictionary**.
In the **Navigation** pane, click the dictionary that contains the attribute you want to delete.

Step 4 In the **Work** pane, click the **Edit** link.

Step 5 In the **Edit Security Profile Dictionary** dialog box, **Attributes** area, click the attribute you want to delete.

Step 6 Click the **Delete** link.

Step 7 In the **Confirm** dialog box, click **OK**.