**Note:** Before using this information and the product that it supports, read the information in “Notices and Trademarks” on page 17.
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ABOUT THIS GUIDE

The Juniper Networks NSM Plug-In Users Guide provides you with information on installing and configuring the Juniper Networks NSM Plug-In.

Intended Audience

The guide is intended for system administrators responsible for installing, configuring, or using plug-in components on your IBM Security QRadar SIEM Console.

Conventions

The following conventions are used throughout this guide:

**Note:** Indicates that the information provided is supplemental to the associated feature or instruction.

**CAUTION:** Indicates that the information is critical. A caution alerts you to potential loss of data or potential damage to an application, system, device, or network.

**WARNING:** Indicates that the information is critical. A warning alerts you to potential dangers, threats, or potential personal injury. Read any and all warnings carefully before proceeding.

Technical Documentation

For information on how to access more technical documentation, technical notes, and release notes, see the Accessing IBM Security QRadar Documentation Technical Note.

(https://www.ibm.com/support/docview.wss?rs=0&uid=swg21614644)

Contacting Customer Support

For information on contacting customer support, see the Support and Download Technical Note.

(https://www.ibm.com/support/docview.wss?rs=0&uid=swg21612861)

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated or misused or can result in damage to or misuse of

Juniper Networks NSM Plug-In Users Guide
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You can use the Juniper Networks NSM Plug-In to view policy details from the Juniper Networks NSM server for an event.

**NSM Plug-In overview**

Juniper Networks Network and Security Manager (NSM) is a software application that centralizes control and management of your Juniper Networks devices. Juniper Networks NSM delivers integrated, policy-based security and network management for all devices.

Ensure you have the latest QRadar patch installed on your IBM Security QRadar Console.

Installing the Juniper Networks NSM Plug-In results in the httpd and Tomcat processes automatically restarting. This causes a service disruption while the processes restart.

**Installing the NSM Plug-In**

Use SSH to install the Juniper Networks NSM Plug-In on your QRadar Console.

**About this task**

The target directory (/opt/qradar/conf/webplugins/117/) must exist on your QRadar system. After you install the plug-in, the target directory is automatically created when you log in to the QRadar user interface and click the **NSM Settings Plugin** icon on the **Admin** tab.

If multiple users or remote users are viewing the **Admin** tab, you may need to refresh your browser for the NSM Plug-in Settings icon to be displayed.

**Procedure**

1. **Step 1** Download the QRadar ISO from the following website:
   
   http://www.ibm.com/support

2. **Step 2** Copy the ISO file to your QRadar Console.

3. **Step 3** Using SSH, log in to QRadar as the root user.
   
   Username: **root**
   
   Password: `<password>`
Step 4 Type the following command to mount the QRadar ISO file:

```bash
mount -o loop <path to the QRadar ISO> /media/cdrom
```

Where `<path to the QRadar ISO>` is the directory path to where the installation ISO is stored.

Step 5 Type the following command to install the NSM Plug-in rpm:

```bash
rpm -Uvh /media/cdrom/post/qradar/nsm_plugin-<build>.x86_64.rpm
```

Where `<build>` is the related QRadar build number.
The package manager installs the NSM Plug-in rpm.

Step 6 To create the target directory:

a Log in to the QRadar user interface:

```bash
https://<IP Address>
```

Where `<IP Address>` is the IP address of the QRadar system.
Username: admin
Password: `<password>`

b Click the Admin tab.

c Click the **NSM Plug-in Settings** icon.

Step 7 Using SSH, log in to QRadar as the root user.

Username: root
Password: `<password>`

Step 8 Choose one of the following options:

- To connect QRadar to Juniper NSM server, you must copy a certificate to QRadar, go to **Step 9**.
- To connect QRadar to any other version of Juniper NSM, go to **Step 11**.

Step 9 Type the following command to copy the server certificate from your Juniper NSM server to the QRadar Console:

```bash
scp root@<NSM IP address>:/usr/netscreen/GuiSvr/lib/webproxy/conf/server.crt /opt/qradar/conf/webplugins/117/nsmPlugin.cert
```

Where `<NSM IP address>` is the IP address of the Juniper Networks NSM server.
The server.crt file is copied from the Juniper Networks NSM server and renamed to nsmPlugin.cert on your QRadar Console.

Step 10 Type the following command to set the proper file permissions:

```bash
chown nobody:nobody /opt/qradar/conf/webplugins/117/nsmPlugin.cert
```
Step 11  Type the following command to restart Tomcat:

    service tomcat restart

What to do next

Setting up the plug-in
The Juniper Networks NSM Plug-in allows IBM Security QRadar SIEM to integrate with your Juniper Networks NSM appliance to view policy-based security and network management information from NSM appliances. Before you can view policy information, you must configure QRadar SIEM permissions and user roles.

### Configuring the server settings

After you have successfully installed the Juniper Networks NSM Plug-in, you must configure your QRadar SIEM Console with the IP address and port number of your Juniper Networks NSM appliance.

#### Procedure

1. **Click the Admin tab.**
2. **In the navigation menu, click Plug-ins.**
3. **In the Plug-In Configuration pane, click the NSM Plug-in Settings icon.**
4. **In the NSM Server URL field, type the IP address or hostname of the Juniper Networks NSM server to which you want to connect. For example, https://192.168.2.1:8443.**
5. **Click Save Changes.**

### Setting user permissions

You must ensure that each QRadar SIEM user who requires access to the Juniper NSM Plug-in has been assigned the appropriate user permissions. You must have administrative privileges to configure user roles in QRadar SIEM.

#### Procedure

1. **Click the Admin tab.**
2. **On the navigation menu, click System Configuration.**
3. **In the User Management pane, click the User Roles icon.**
4. **Choose one of the following options:**
   a. If you want to create a new role, click Create Role.
   b. If you want to edit an existing role to include NSM Plug-in Settings, click the Edit icon for the role which requires the assigned permissions.
Step 5  Select the user permissions for the NSM Plug-in Settings:

- **Launch NSM Client** - Select this check box if you want to allow users to launch the NSM Client from the main user interface. By default, this check box is clear.

- **View NSM Policy Details from Events interface** - Select this check box if you want to allow users to view policy details for the Juniper Networks NSM server from the Log Activity page. By default, this check box is clear.

Step 6  Select the remaining permissions. For more information on role permissions, see the *IBM Security QRadar SIEM Administration Guide*.

Step 7  Complete the steps of the wizard.

Step 8  On the **Admin** tab, click **Deploy Changes**.

---

### Setting user preferences

All users with the **View NSM Policy Details from Events interface** role permission must enter their user settings to authenticate their user account with the Juniper Networks NSM server. This ensures that appropriate users are able to view policy details for an event.

**Before you begin**

Make sure you have Events permissions to access the policy details.

**About this task**

If your administrator has not completed the configuration of the plug-in, an information message is displayed. Contact your system administrator to complete the configuration before continuing. For more information, see *Configuring the server settings*.

If your credentials are rejected by the Juniper Networks NSM server, but you have verified your access information, your IP address may be blocked by the Juniper Networks NSM server as a result of too many failed login attempts. Contact your Juniper Networks NSM server administrator to unblock the following IP address: 127.0.0.1 using the **Tools > Manage Blocked Hosts** option in the Juniper Networks NSM client.

**Procedure**

**Step 1**  In the upper-right corner of the IBM Security QRadar SIEM user interface, click **NSM Preferences**.

**Step 2**  Enter values for the following parameters:

- **NSM Login** - Type your user name, as defined on the Juniper Networks NSM server.

- **NSM Password** - Type your password, as defined on the Juniper Networks NSM server.

- **NSM Domain** - Type your domain, as defined on the Juniper Networks NSM server. The default is global.

**Step 3**  Click **Save Changes**.
After you have configured and set up the plug-in, you can view policy event information.

### Launching NSM

You can launch NSM from the QRadar SIEM user interface.

**Procedure**

**Step 1** In the upper-right corner of the IBM Security QRadar SIEM user interface, click Launch NSM.

**Step 2** Choose one of the following options:

- If you are using FireFox and this is the first time you are launching NSM, go to **Step 3**.
- If you are using Microsoft® Internet Explorer 8.0 or 9.0, with Compatibility View enabled, and this is the first time you are launching NSM, go to **Step 4**.
- If you have previously launched NSM, go to **Step 5**.

**Step 3** To launch NSM for the first time using FireFox:

a. In the Opening window, select the Open with option.

b. Click Browse.

c. Select the NSM executable from the appropriate directory:
   - For NSM 2013.r.x, the file path is c:\Program Files\Network and Security Manager\NSM.exe.
   - For previous NSM versions, the file path is c:\Program Files\NSM\NSM.exe.

d. Click OK.

e. Select the Do this automatically for files like this from now on check box.

f. Click OK.

g. Go to **Step 5**.

**Step 4** To launch NSM for the first time using Internet Explorer 8.0 or 9.0, with Compatibility View enabled, you must:

a. Create a new association for the .nsm extension and change the extension to access the NSM.exe file. Select the NSM executable from the appropriate directory:
- For NSM 2013.r.x, the file path is c:\Program Files\Network and Security Manager\NSM.exe.
- For previous NSM versions, the file path is c:\Program Files\NSM\NSM.exe.

For more information on creating a file association, see your vendor documentation.

b Go to Step 5.

Step 5 Type the necessary login credentials for the Juniper Networks Client.

Step 6 Click OK.

---

**Viewing policy details**

After the Juniper Networks NSM Plug-In is installed and configured, you can view policy details using the Log Activity tab. However, before you can view policy details, you must add the **NSM Policy (custom)** column to the Log Activity page display.

**Adding the policy column**

Use the event search page to add the **NSM Policy (custom)** column to the Log Activity page:

**About this task**

This task includes only the search criteria for displaying **NSM Policy (custom)** column. For information about additional search parameters, see the *IBM Security QRadar SIEM Users Guide*.

**Procedure**

Step 1 Click the **Log Activity** tab.
Step 2 From the **Search** list box, select **New Search**.
Step 3 From the **Available Columns** list, select **NSM Policy (custom)**.
Step 4 Select the arrow to move the item to the **Column** list.
Step 5 Click **Filter**.

**Result**

The Log Activity page displays the **NSM Policy (custom)** column.

**Viewing policy details**

You can view policy details from the Log Activity tab.

**About this task**

Each Juniper Networks NSM policy includes groups of rule bases and rules. This window provides details of the selected NSM policy and details of the associated rules for this policy. This window may require several minutes to populate depending on the amount of data.

For more information on the Juniper Networks NSM policy, see your Juniper Networks NSM documentation.
Procedure

Step 1  Click the Log Activity tab.
Step 2  If events are displayed in Real Time (streaming) mode, click the Pause button.
Step 3  Right-click the NSM Policy (custom) parameter for the event you want to investigate, and then select More options > View NSM Policy Details.
4 REMOVING THE NSM PLUG-IN

After you uninstall the NSM plug-in, such as when you upgrade to another Juniper product, you must manually remove the plug-in RPM to ensure that the Juniper NSM components are removed from the IBM Security QRadar user interface.

Procedure

Step 1 Using SSH, log in to QRadar as the root user.

Step 2 To identify the name of the plug-in RPM, type the following command:

```
rpm -qa | grep plugin
```

Step 3 To remove the RPM file, type the following command:

```
rpm -e nsm_plugin-<build_number>
```

Step 4 Restart the Tomcat service, type the following command:

```
service tomcat restart
```
What’s in this appendix:

- Notices
- Trademarks

This section describes some important notices, trademarks, and compliance information.

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