

IBM Security QRadar Risk Manager  
Version 7.2.4

*Adapter Configuration Guide*



**Note**

Before using this information and the product that it supports, read the information in “Notices” on page 39.

**Product information**

This document applies to IBM QRadar Security Intelligence Platform V7.2.4 and subsequent releases unless superseded by an updated version of this document.

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# Contents

<b>Introduction to configuring adapters for QRadar Risk Manager</b> . . . . .	<b>v</b>
<b>Chapter 1. Adapters overview</b> . . . . .	<b>1</b>
Types of adapters. . . . .	1
<b>Chapter 2. Installing an adapter</b> . . . . .	<b>3</b>
Uninstalling an adapter. . . . .	3
<b>Chapter 3. Methods for adding network devices</b> . . . . .	<b>5</b>
Adding a network device . . . . .	5
Adding devices managed by a Juniper Networks NSM console . . . . .	7
Adding devices managed by a CPSMS console . . . . .	8
Adding devices managed by SiteProtector . . . . .	9
<b>Chapter 4. Supported adapters</b> . . . . .	<b>11</b>
BIG-IP . . . . .	12
Check Point SecurePlatform Appliances . . . . .	15
Check Point Security Management Server adapter . . . . .	16
Cisco CatOS . . . . .	17
Cisco IOS . . . . .	19
Cisco Nexus . . . . .	22
Methods for adding VDCs for Cisco Nexus devices . . . . .	25
Adding VDCs as sub-devices of your Cisco Nexus device . . . . .	25
Adding VDCs as individual devices . . . . .	25
Cisco Security Appliances . . . . .	26
HP Networking ProVision . . . . .	28
Juniper Networks JUNOS . . . . .	31
Juniper Networks NSM . . . . .	32
Juniper Networks ScreenOS . . . . .	33
Palo Alto . . . . .	35
Sourcefire 3D Sensor . . . . .	36
<b>Notices</b> . . . . .	<b>39</b>
Trademarks . . . . .	40
Privacy policy considerations . . . . .	41
<b>Index</b> . . . . .	<b>43</b>



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# Introduction to configuring adapters for QRadar Risk Manager

IBM® Security QRadar® Risk Manager is an appliance that is used to monitor device configurations, simulate changes to your network environment, and prioritize risks and vulnerabilities.

## Intended audience

Network administrators who are responsible for installing and configuring adapters must be familiar with network security concepts and device configurations.

## Technical documentation

To find IBM Security QRadar product documentation on the web, including all translated documentation, access the IBM Knowledge Center (<http://www.ibm.com/support/knowledgecenter/SS42VS/welcome>).

For information about how to access more technical documentation in the QRadar products library, see *Accessing IBM Security Documentation Technical Note* ([www.ibm.com/support/docview.wss?rs=0&uid=swg21614644](http://www.ibm.com/support/docview.wss?rs=0&uid=swg21614644)).

## Contacting customer support

For information about contacting customer support, see the *Support and Download Technical Note* (<http://www.ibm.com/support/docview.wss?uid=swg21616144>).

## Statement of good security practices

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## Chapter 1. Adapters overview

Use adapters to integrate IBM Security QRadar Risk Manager with your network devices. By configuring adapters, QRadar Risk Manager can interrogate and import the configuration parameters of network devices, such as firewalls, routers, and switches.

**Note:** You cannot import devices that use a management server IP, for example, CPSMS and IBM Internet Security Systems GX.

### Network topology and configuration

QRadar Risk Manager uses adapters to collect network configurations. The adapters turn the configuration information into a format that is unified for all supported device models, manufacturers, and types. QRadar Risk Manager uses the data to understand your network topology and configuration of your network devices.

To connect external devices in the network, QRadar Risk Manager must be able to access the devices. QRadar Risk Manager uses configured user credentials to access the device and download configurations.

### Process for integrating network devices

To integrate network devices with QRadar Risk Manager, follow these steps:

1. Configure your network device with appropriate access to QRadar Risk Manager.
2. Install the appropriate adapter for your network device on your QRadar Risk Manager appliance.
3. Use Configuration Source Management to add your network devices to QRadar Risk Manager.
4. Define the communication method (protocol) required for communication to your network devices.

For more information, see the *IBM Security QRadar Risk Manager User Guide*.

If QRadar Risk Manager and your network devices cannot communicate, see the disconnected configuration toolkit information in the *IBM Security QRadar Risk Manager User Guide*.

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## Types of adapters

IBM Security QRadar Risk Manager supports several types of adapters.

The following adapters are supported:

- BIG-IP
- Check Point SecurePlatform Appliances
- Cisco Internet Operating System (IOS)
- Cisco Catalyst (CatOS)
- Check Point Security Management Server
- Cisco Security Appliances

- HP Networking ProVision
- Juniper Networks ScreenOS
- Juniper Networks JUNOS
- Juniper Networks NSM
- Palo Alto



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## Chapter 2. Installing an adapter

You must download an adapter to your IBM Security QRadar SIEM Console, and then copy the adapter files to IBM Security QRadar Risk Manager.

### Before you begin

You access and download adapters from Fix Central ([www.ibm.com/support/fixcentral/](http://www.ibm.com/support/fixcentral/)). The RPM files are included in the download.

After you establish the initial connection, QRadar SIEM Console is the only device that can communicate directly to QRadar Risk Manager.

### Procedure

1. Using SSH, log in to your QRadar SIEM Console as the root user.
2. Download the adapter file from the IBM support web site ([www.ibm.com/support](http://www.ibm.com/support)) to your QRadar SIEM Console.
3. To copy the adapter file from your QRadar SIEM Console to QRadar Risk Manager, type the following command:

```
scp adapter.rpm root@IP address
```

The *IP address* is the IP address or host name of QRadar Risk Manager.

**Example:** `scp adapters.cisco.ios-2011_05-205181.noarch.rpm root@100.100.100.100:`

4. On your QRadar Risk Manager appliance, type the password for the root user.
5. Using SSH from your QRadar SIEM Console, log in to your QRadar Risk Manager appliance as the root user.
6. From the root directory that contains the adapter file, type the following command to install the adapter:

```
rpm -Uvh RPM_filename
```

**Example:** `rpm -Uvh adapters.cisco.ios-2011_05-205181.noarch.rpm`

7. To restart the services for the ziptie server and complete the installation, type the following command:

```
service ziptie-server restart
```

**Important:** Restarting the services for the ziptie server interrupts any device backups that are in progress from Configuration Source Management.

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## Uninstalling an adapter

Use the `rpm` command to remove an adapter from IBM Security QRadar Risk Manager.

### Procedure

1. Using SSH, log in to the IBM Security QRadar SIEM Console as the root user.
2. To uninstall an adapter, type the following command:

```
rpm -e adapter file
```

**Example:** `rpm -e adapters.cisco.ios-2011_05-205181.noarch.rpm`

---

## Chapter 3. Methods for adding network devices

Use Configuration Source Management to add network devices to IBM Security QRadar Risk Manager.

The following table describes the methods that you can use to add a network device.

*Table 1. Methods for adding a network device to QRadar Risk Manager*

Method	Description
<b>Add Device</b>	Add one device.
<b>Discover Devices</b>	Add multiple devices.
<b>Discover NSM</b>	Add devices that are managed by a Juniper Networks NSM console.
<b>Discover CPSMS From SiteProtector</b>	Add devices that are managed by a Check Point Security Manager Server (CPSMS).
<b>Discover</b>	Add devices from SiteProtector™.

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### Adding a network device

To add a network device to IBM Security QRadar Risk Manager, use Configuration Source Management.

#### Before you begin

Review the supported software versions, credentials, and required commands for your network devices. For more information, see Chapter 4, "Supported adapters," on page 11.

#### Procedure

1. Click the **Admin** tab.
2. On the **Admin** navigation menu, click **Plug-ins**
3. On the Risk Manager pane, click Configuration Source Management.
4. On the navigation menu, click **Credentials**.
5. On the Network Groups pane, click **Add a new network group**.

- a. Type a name for the network group, and click **OK**.
- b. Type the IP address of your device, and click **Add**.

You can type an IP address, a range of IP addresses, a CIDR subnet, or a wildcard. Use a wildcard type 10.1.\*.\* or to use a CIDR, type 10.2.1.0/24.

**Restriction:** Do not replicate device addresses that exist in other network groups in Configuration Source Management.

- c. Ensure that the addresses that you add are displayed in the **Network address** box beside the **Add address** box.
  - d. Repeat the previous two steps for each IP address that you want to add.
6. On the Credentials pane, click **Add a new credential set**.

- a. Type a name for the credential set, and click **OK**.
- b. Select the name of the credential set that you created and enter values for the parameters.

The following table describes the parameters.

Table 2. Parameter options for credentials

Parameter	Description
<b>Username</b>	A valid user name to log in to the adapter.  For adapters, the user name and password that you provide requires access to several files, such as the following files: <ul style="list-style-type: none"> <li>• rule.C</li> <li>• objects.C</li> <li>• implied_rules.C</li> <li>• Standard.PF</li> </ul>
<b>Password</b>	The password for the device.
<b>Enable Password</b>	The password for second-level authentication.  This password is required when the credentials prompt for the user credentials in expert mode.
<b>SNMP Get Community</b>	Optional
<b>SNMPv3 Authentication Username</b>	Optional
<b>SNMPv3 Authentication Password</b>	Optional
<b>SNMPv3 Privacy Password</b>	Optional  The protocol that is used to decrypt SNMPv3 traps.

**Restriction:** If your network device meets one of the following conditions, you must configure protocols in Configuration Source Management:

- Your device uses a non-standard port for the communication protocol.
- You want to configure the protocol that IBM Security QRadar Risk Manager uses to communicate with specific IP addresses.

For more information about configuring sources in the *IBM Security QRadar Risk Manager User Guide*.

7. On the navigation menu, add a device.
  - To add one network device, click **Add Device**.
  - To add multiple IP addresses for network devices, select **Discover Devices**.
8. Enter the IP address for the device and select the adapter type, and then click **Add**.  
A blue question mark is displayed in the device list for devices that are not backed up.
9. Select the device that you added to the device list, and click **Backup**.
10. Repeat these steps for each type of network device that you want to add.

## What to do next

After you add all of the required devices, you can configure protocols. For more information, see the *IBM Security QRadar Risk Manager User Guide*.

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## Adding devices managed by a Juniper Networks NSM console

Use Configuration Source Management to add all devices from a Juniper Networks NSM console to IBM Security QRadar Risk Manager.

### Before you begin

Review the supported software versions, credentials, and required commands for your network devices. For more information, see Chapter 4, “Supported adapters,” on page 11.

### Procedure

1. In IBM Security QRadar SIEM, click the **Admin** tab.
2. On the **Admin** navigation menu, click **Plug-ins**
3. On the Risk Manager pane, click **Configuration Source Management**.
4. On the navigation menu, click **Credentials**.
5. On the Network Groups pane, click **Add a new network group**.
  - a. Type a name for the network group, and click **OK**.
  - b. Type the IP address of your device, and click **Add**.  
You can type an IP address, a range of IP addresses, a CIDR subnet, or a wildcard. Use a wildcard type 10.1.\*.\* or to use a CIDR, type 10.2.1.0/24.

**Restriction:** Do not replicate device addresses that exist in other network groups in Configuration Source Management.

- c. Ensure that the addresses that you add are displayed in the **Network address** box beside the **Add address** box.
  - d. Repeat the previous two steps for each IP address that you want to add.
6. On the Credentials pane, click **Add a new credential set**.
    - a. Type a name for the credential set, and click **OK**.
    - b. Select the name of the credential set that you created and enter values for the parameters.

The following table describes the parameters.

Table 3. Parameter options for Juniper NSM web services credentials

Parameter	Description
<b>Username</b>	A valid user name to log in to the Juniper NSM web services.  For Juniper NSM web services, this user must be able to access the Juniper NSM server.
<b>Password</b>	The password for the device.
<b>Enable Password</b>	Not required.

**Restriction:** Juniper Networks NSM does not support SNMP.

7. On the navigation menu, **Discover from NSM**.

8. Enter values for the IP address and user credentials, click **OK** and then click **GO**.
9. Select the device that you added to the device list, and click **Backup** and then click **Yes**.

## What to do next

After you add all of the required devices, you can configure protocols. For more information, see the *IBM Security QRadar Risk Manager User Guide*.

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## Adding devices managed by a CPSMS console

Use Configuration Source Management to add all devices from a Check Point Security Manager Server (CPSMS) to IBM Security QRadar Risk Manager.

### Before you begin

Review the supported software versions, credentials, and required commands for your network devices. For more information, see Chapter 4, "Supported adapters," on page 11.

You must obtain the OPSEC Entity SIC name, OPSEC Application Object SIC name, and the one-time password for the Pull Certificate password before you begin this procedure. For more information, see your CPSMS documentation.

**Note:** The Device Import feature is not compatible with CPSMS adapters.

### About this task

You need to repeat this procedure for each CPSMS that you want to contact to initiate discovery of its managed firewalls.

### Procedure

1. Click the **Admin** tab.
2. On the **Admin** navigation menu, click **Plug-ins**
3. On the Risk Manager pane, click **Configuration Source Management**.
4. On the navigation menu, click **Credentials**.
5. On the Network Groups pane, click **Add a new network group**.
  - a. Type a name for the network group, and click **OK**.
  - b. Type the IP address of your CPSMS device, and click **Add**.

**Restriction:** Do not replicate device addresses that exist in other network groups in Configuration Source Management.

- c. Ensure that the addresses that you add are displayed in the **Network address** box beside the **Add address** box.
6. On the Credentials pane, click **Add a new credential set**.
    - a. Type a name for the credential set, and click **OK**.
    - b. Select the name of the credential set that you created and type a valid user name and password for the device.
  7. Type the OPSEC Entity SIC name of the CPSMS that manages the firewall devices to be discovered. This value **MUST** be exact and the format changes depending on the type of device from which you are discovering:

Type	Name
Management Server	CN=cp_mgmt,0=<take 0 value from DN field>
Gateway to Management Server	CN=cp_mgmt_<gateway hostname>,0=<take 0 value from DN field>

For example, when you are discovering from the Management Server:

- OPSEC Application DN: CN=cpsms226,0=vm226-CPSMS..bs7ocx
- OPSEC Application Host: vm226-CPSMS

The Entity SIC Name is CN=cp\_mgmt,0=vm226-CPSMS..bs7ocx

For example, when you are discovering from the Gateway to Management Server:

- OPSEC Application DN: CN=cpsms230,0=vm226-CPSMS..bs7ocx
- OPSEC Application Host: vm230-CPSMS2-GW3

The Entity SIC Name is CN=cp\_mgmt\_vm230-CPSMS2-GW3,0=vm226-CPSMS..bs7ocx

8. Use the Check Point SmartDashboard application to enter the OPSEC Application Object SIC name that was created on the CPSMS.

For example: CN=cpsms230,0=vm226-CPSMS..bs7ocx

9. Obtain the OPSEC SSL Certificate:
  - a. Click **Get Certificate**.
  - b. In the **Certificate Authority IP** field, type the IP address.
  - c. In the **Pull Certificate Password** field, type the one-time password for the OPSEC Application.
  - d. Click **OK**.
10. Click **OK**.
11. Click **Discover From Check Point SMS**, and then enter the CPSMS IP address.
12. Click **OK**.
13. Repeat these steps for each CPSMS device that you want to add.

## What to do next

After you add all the required devices you can backup your devices and then view them in the topology.

---

## Adding devices managed by SiteProtector

Use Configuration Source Management to add devices from SiteProtector to IBM Security QRadar Risk Manager.

### Before you begin

The IBM Internet Security Systems GX and IBM Security SiteProtector System adapters must be installed before you can add devices.

The Microsoft SQL protocol must be enabled to use Microsoft SQL Server port 1433.

### Procedure

1. Click the **Admin** tab.
2. On the **Admin** navigation menu, click **Plug-ins**.

3. On the Risk Manager pane, click Configuration Source Management.
4. On the navigation menu, click **Credentials**.
5. On the Network Groups pane, click **Add a new network group**.
  - a. Type a name for the network group, and click **OK**.
  - b. Type the IP address of your SiteProtector device, and click **Add**.
  - c. Ensure that the addresses that you add are displayed in the **Network address** box beside the **Add address** box.
6. On the Credentials pane, click **Add a new credential set**.
  - a. Type a name for the credential set, and click **OK**.
  - b. Select the name of the credential set that you created and type a valid user name and password for the device.

**Restriction:** The user name and password are the same credentials used to access the SiteProtector Microsoft SQL Server database.
7. Click **OK**.
8. Click **Discover From SiteProtector**, and then enter the SiteProtector IP address.
9. Click **OK**.

## What to do next

After you add all the required devices you can backup your devices and then view them in the topology.



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## Chapter 4. Supported adapters

IBM Security QRadar Risk Manager integrates with many manufacturers and vendors of security products.

The list of supported adapters and documentation for them is constantly growing. If an adapter for your network device is not listed, contact your IBM sales representative.

The following information is provided for each supported adapter:

### **Supported versions**

Specifies the product name and version supported.

### **Supports neighbor data**

Specifies whether neighbor data is supported for this adapter. If your device supports neighbor data, then you get neighbor data from a device by using Simple Network Management Protocol (SNMP) and a command-line interface (CLI).

### **SNMP discovery**

Specifies whether the device allows discovery by using SNMP.

Generic SNMP devices do not have routes and therefore, do not transmit traffic.

### **Required credential parameters**

Specifies the necessary access requirements for QRadar Risk Manager and the device to connect.

You can use Configuration Source Management to configure device credentials. Ensure that the device credentials configured in QRadar Risk Manager and in the device are the same.

If a parameter is not required, you can leave that field blank.

### **Connection protocols**

Specifies the supported protocols for the network device.

### **Required commands**

Specifies the list of commands that the adapter requires to log in and collect data.

To run the listed commands on the adapter, the credentials that are provided in QRadar Risk Manager must have the appropriate privileges.

### **Files collected**

Specifies the list of files that the adapter must be able to access. To access these files, the appropriate credentials must be configured for the adapter.

## BIG-IP

IBM Security QRadar Risk Manager supports the BIG-IP adapter.

The following table describes the integration requirements for the BIG-IP adapter.

*Table 4. Integration requirements for the BIG-IP adapter*

<b>Integration requirement</b>	<b>Description</b>
Versions	BIG-IP version 10 and later.
Neighbor data support	Supported
SNMP discovery	Matches BIG-IP in SNMP sysDescr.
Required credential parameters	Username Password
Connection protocols	Telnet SSH
Commands that the adapter requires to log in and collect data	cat filename  dmesg  uptime  route -n  ip addr list  snmpwalk -c public localhost 1.3.6.1.4.1.3375.2.1.2.4.3.2.1.1  snmpwalk -c public localhost 1.3.6.1.4.1.3375.2.1.2.4.3.2.1.2

Table 4. Integration requirements for the BIG-IP adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect bigpipe data	<pre> bigpipe global bigpipe system hostname bigpipe platform bigpipe version show bigpipe db packetfilter bigpipe db packetfilter.defaultaction bigpipe packet filter list bigpipe nat list all bigpipe vlan show all bigpipe vlangroup list all bigpipe vlangroup bigpipe interface show all bigpipe interface all media speed bigpipe trunk all interfaces bigpipe stp show all bigpipe route all list all bigpipe mgmt show all bigpipe mgmt route show all bigpipe pool bigpipe self bigpipe virtual list all bigpipe snat list all bigpipe snatpool list all           </pre>
Commands that the adapter requires to log in and collect data	<pre> b db snat.anyipprotocol           </pre>

Table 4. Integration requirements for the BIG-IP adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect tmsh data	<pre> tmsh -q list sys global-settings hostname  tmsh -q show sys version  tmsh -q show sys hardware  tmsh -q list sys snmp sys-contact  tmsh -q show sys memory  tmsh -q list /net interface all-properties  tmsh -q list net trunk  tmsh -q list /sys db packetfilter  tmsh -q list /sys db packetfilter.defaultaction  tmsh -q list /net packet-filter  tmsh -q list /net vlan all-properties  tmsh -q show /net vlan  tmsh -q list /net vlan-group all all-properties  tmsh -q list net tunnels           </pre>

Table 4. Integration requirements for the BIG-IP adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect tmsh data (continued)	<pre>tmsh -q show /net vlan-group tmsh -q list ltm virtual tmsh -q list ltm nat tmsh -q list ltm snatpool tmsh -q list ltm snat tmsh -q list sys db snat.anyipprotocol tmsh -q list net stp-globals all-properties tmsh -q list net stp priority tmsh -q list net stp all-properties tmsh -q list net route tmsh -q list sys management-ip tmsh -q list sys management-route tmsh -q list ltm pool tmsh -q list net self tmsh -q list net ipsec</pre>
Files collected	<pre>/config/bigip.license /config/snmp/snmpd.conf /etc/passwd</pre>

## Check Point SecurePlatform Appliances

IBM Security QRadar Risk Manager supports the Check Point SecurePlatform Appliances adapter.

The following table describes the integration requirements for the Check Point SecurePlatform Appliances adapter.

Table 5. Integration requirements for the Check Point SecurePlatform Appliances adapter

Integration requirement	Description
Versions	<p>Versions R65 and later</p> <p><b>Restriction:</b> Nokia IPSO appliances are not supported for backup.</p>
Neighbor data support	Not supported
SNMP discovery	Matches NGX in SNMP sysDescr.

Table 5. Integration requirements for the Check Point SecurePlatform Appliances adapter (continued)

Integration requirement	Description
Required credential parameters	Username Password Enable Password (expert mode)
Connection protocols	Telnet SSH
Commands that the adapter requires to log in and collect data	hostname dmidecode ver uptime dmesg route -n show users ifconfig -a echo \$FWDIR
Files collected	rules.C objects.C implied_rules.C Standard.pf snmpd.com

---

## Check Point Security Management Server adapter

You use the Check Point Security Management Server (CPSMS) adapter to discover and backup end nodes that are managed by the CPSMS. These end nodes are used to run the CheckPoint FireWall-1 and the VPN-1 product family.

The CPSMS adapter is based on the CPMI OPSEC SDK API library.

### Forward compatibility for CPMI connections

CPMI connections are compatible with later versions. For example, a CPMI application that uses an NG FP3 OPSEC SDK can communicate with VPN-1 NGX R60.

### Backward compatibility for CPMI connections

CPMI connections are not compatible with an earlier version. For example, a CPMI application that uses OPSEC SDK 6.0 cannot communicate with any version of VPN-1 before NGX R60.

## Configuration requirements for CPSMS

Two configuration requirements must be available for CPSMS. These requirements are available by default when CPSMS is installed; however, you must ensure that these requirements are retained.

The CPSMS client application, `cpsms_client`, is in the CPSMS adapter. The `cpsms_client` application establishes an asymmetric authentication method through a Secure Internal Communication (SIC) channel with CPSMS. The asymmetric method is also known as the `OPSEC_SSLCA` method.

The asymmetric authentication method is translated into configuration requirements. You must configure and enable the Secure Internal Communication (SIC) on the firewall management server to allow the `cpsms_client` application to communicate with CPSMS.

The following ports must be open on CPSMS:

- Port 18190 for the Check Point Management Interface service (or CPMI)
- Port 18210 for the Check Point Internal CA Pull Certificate Service (or `FW1_ica_pull`)

If you cannot use 18190 as a listening port for CPMI, then the CPSMS adapter port number must be similar to the value listed in the `$FWDIR/conf/fwopsec.conf` file for CPMI on CPSMS. For example, `cpmi_server auth_port 18190`.

To allow the `cpsms_client` to communicate with Check Point Management Server, the `$CPDIR/conf/sic_policy.conf` on CPSMS must use the following line, at minimum:

```
# OPSEC applications default
ANY ; SAM_clients ; ANY ; sam ; sslca, local, sslca_comp
# sam proxy
ANY ; Modules, DN_Mgmt ; ANY; sam ; sslca
ANY ; ELA_clients ; ANY ; ela ; sslca, local, sslca_comp
ANY ; LEA_clients ; ANY ; lea ; sslca, local, sslca_comp
ANY ; CPMI_clients; ANY ; cpmi ; sslca, local, sslca_comp
```

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## Cisco CatOS

IBM Security QRadar Risk Manager supports the Cisco Catalyst (CatOS) adapter.

The Cisco CatOS adapter collects device configurations by backing up CatOS network devices that are viewable by QRadar Risk Manager.

The following table describes the integration requirements for the Cisco CatOS adapter.

Table 6. Integration requirements for the Cisco CatOS adapter

Integration requirement	Description
Versions	<p>Catalyst 6500 series chassis devices.</p> <p><b>Restriction:</b> The adapter for CatOS backs up only the essential switching port structure.</p> <p>Multilayer Switch Feature Card (MSFC) CatOS adapters are backed up by Cisco IOS adapters.</p> <p>Firewall Services Module (FWSM) CatOS adapters are backed up by Cisco ASA adapters.</p>
Neighbor data support	Supported
SNMP discovery	Matches CATOS or Catalyst Operating System in SNMP sysDescr.
Required credential parameters	<p>Username</p> <p>Password</p> <p>Enable Password</p>
Connection protocols	<p>Telnet</p> <p>SSH</p>



Table 6. Integration requirements for the Cisco CatOS adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data	show version whichboot show module show mod ver show system show flash devices show flash ... show snmp ifalias show port ifindex show interface show port show spantree show ip route show vlan show vtp domain show arp show cdp show cam dynamic show port status show counters

---

## Cisco IOS

IBM Security QRadar Risk Manager supports the Cisco Internet Operating System (IOS) adapter.

The Cisco IOS adapter collects device configurations by backing up IOS-based network switches and routers.

The following table describes the integration requirements for Cisco IOS.

Table 7. integration requirements for Cisco IOS

Integration requirement	Description
Versions	<p>10.1 and later for routers and switches</p> <p>Cisco Catalyst 6500 switches with MSFC.</p> <p>Use the Cisco IOS adapter to back up the configuration and state of the MSFC card services.</p> <p>If a Cisco IOS 7600 series router has an FWSM, use the Cisco ASA adapter to back up the FWSM.</p>
Neighbor data support	Supported
SNMP discovery	Matches ISO or Cisco Internet Operation System in SNMP sysDescr.
Required credential parameters	<p>Username</p> <p>Password</p> <p>Enable Password</p>
Connection protocols	<p>Telnet</p> <p>SSH + SCP</p> <p>TFTP</p>

Table 7. integration requirements for Cisco IOS (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data	<pre> show access lists show cdp neighbors detail show eigrp neighbors show diagbus show diag show install running show interfaces show inventory show file systems show mac-address-table dynamic show module show mod version show power show startup-config show object-group show running-config show snmp show glbp show spanning-tree show standby set terminal length show vlan show vtp status show version show vrrp           </pre>

Table 7. integration requirements for Cisco IOS (continued)

Integration requirement	Description
show ip commands that the adapter requires to log in and collect data	show ip arp show ip bgp neighbors show ip eigrp interface show ip eigrp neighbors show ip eigrp topology show ip ospf show ip ospf neighbor show ip protocols show ipv6 neighbors show ip ospf interface show ip route eigrp

## Cisco Nexus

To integrate IBM Security QRadar Risk Manager with your network devices, ensure that you review the requirements for the Cisco Nexus adapter.

The following table describes the integration requirements for the Cisco Nexus adapter.

Table 8. Integration requirements for the Cisco Nexus adapter

Integration requirement	Description
Versions	No version restrictions
Neighbor data support	Supported
SNMP discovery	Matches <i>Cisco NX-OS</i> and an optional qualification string that ends with <i>Software</i> in the SNMP sysDescr.  <b>Example:</b> ( <i>Cisco NX\-OS.* Software</i> )
Required credential parameters	Username Password Enable Password  If you add virtual device contexts (VDCs) as individual devices, ensure that the required credentials can do the following actions: <ul style="list-style-type: none"> <li>• Access the account that is enabled for the VDCs.</li> <li>• Use the required commands in that virtual context.</li> </ul>
Connection protocols	Telnet  SSH

Table 8. Integration requirements for the Cisco Nexus adapter (continued)

Integration requirement	Description
Required third-party files	adapters-common-2013.03_05-515182.noarch.rpm perl-Net-CIDR-Set-0.11-1.noarch.rpm perl-XML-Twig-3.42-1.noarch.rpm

Table 8. Integration requirements for the Cisco Nexus adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data	<pre> terminal length 0  show version  show hostname  show vdc  show snmp  show module  dir fs(fs is file systems on the device)  show interface brief  show interface snmp-ifindex  show interface if (if is all of the interfaces from show interface brief with configuration sections)  show running-config  show startup-config  show static-route  show ip access-lists  show object-group  show vlan  show vtp status  show hsrp  show vrrp  show vtp  show glbp  show ip arp  show mac address-table  show ip route  show ipv6 route  show ipv6 ndp  show cdp entry all  switchto vdc (for all supported virtual device contexts)           </pre>

## Methods for adding VDCs for Cisco Nexus devices

Use Configuration Source Management to add Nexus network devices and Virtual Device Contexts (VDC) to IBM Security QRadar SIEM. There are two ways to add multiple VDCs to IBM Security QRadar Risk Manager.

You can add VDCs as sub-devices of the Nexus device or as individual devices.

### View Virtual Device Contexts

If VDCs are added as individual devices, then each VDC is displayed as a device in the topology.

If VDCs are added as a sub-device, they are not displayed in the topology. Instead, you can view the VDCs in Configuration Monitor.

## Adding VDCs as sub-devices of your Cisco Nexus device

Use Configuration Source Manager to add VDCs as sub-devices of your Cisco Nexus device.

### Procedure

1. Use Configuration Source Manager to add the admin IP address of each VDC. For more information, see “Adding a network device” on page 5.
2. Use Configuration Source Manager to obtain the configuration information for your Nexus device.

For information about getting device configuration, see the *IBM Security QRadar Risk Manager User Guide*.

3. Enable the following commands for the user that is specified in the credentials:
  - `show vdc` (at admin context)
  - `switchto vdc x`, where *x* is the VDCs that are supported.

In Configuration Monitor, you can view the Nexus device in the topology and the VDC sub-devices. For information about viewing devices, see the *IBM Security QRadar Risk Manager User Guide*.

## Adding VDCs as individual devices

Use Configuration Source Manager to add each VDC as a separate device. When you use this method, the Nexus device and the VDCs are displayed in the topology

When you view your Cisco Nexus device and VDCs in the topology, the chassis containment is represented separately.

### Procedure

1. Use Configuration Source Manager to add the admin IP address of each VDC. For more information, see “Adding a network device” on page 5.
2. Use Configuration Source Manager to obtain the configuration information for your VDCs.
3. On the Cisco Nexus device, use the Cisco Nexus CLI to disable the `switchto vdc` command for the user name that is associated with the adapter.

**Example:** If the user name for a Cisco Nexus device is *qrmuser*, type the following commands:

```

NexusDevice(config)# role name qrmuser
NexusDevice(config-role)# rule 1 deny command switchto vdc
NexusDevice(config-role)# rule 2 permit command show
NexusDevice(config-role)# rule 2 permit command terminal
NexusDevice(config-role)# rule 2 permit command dir

```

## Cisco Security Appliances

To integrate IBM Security QRadar Risk Manager with your network devices, ensure that you review the requirements for the Cisco Security Appliances adapter.

The Cisco Security Appliances adapter collects device configurations by backing up Cisco family devices. The following list describes examples of the Cisco firewalls that the adapter for the Cisco Security Appliances supports:

- Stand-alone Adaptive Security Appliance
- Firewall Service Module (FWSM)
- A module in a Catalyst chassis
- Established Private Internet Exchange (PIX) device.

The following table describes the integration requirements for the Cisco Security Appliances adapter.

*Table 9. Integration requirements for the Cisco Security Appliances adapter*

Integration requirement	Description
Versions	Adaptive Security Appliances (ASA) that use a Private Internet Exchange operating system (PIX-OS)  ASA routers or switches that use FWSM  Cisco IOS 7600 series routers that use FWSM.  Use the ASA adapter to back up the configuration and state of the FWSM card services.
Neighbor data support	Supported
SNMP discovery	Matches PIX or Adaptive Security Appliance or Firewall Service Module in SNMP sysDescr.
Required credential parameters	Username  Password  Enable Password
Connection protocols	Telnet  SSH + SCP



Table 9. Integration requirements for the Cisco Security Appliances adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data	change context change context <i>admin-context</i> change context <i>context</i> change system get startup-config show arp show context show interface

Table 9. Integration requirements for the Cisco Security Appliances adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data (Continued)	<pre> show interface detail show ipv6 interface show ipv6 neighbor show mac-address-table show names show ospf neighbor show pager show route show running-config show shun show version terminal pager 0 terminal pager 24 </pre> <p><b>Where:</b></p> <p>The show pager command must be enabled to access accounts that use QRadar Risk Manager.</p> <p>The change context <i>context</i> command is used for each context on the ASA device.</p> <p>The change system command detects whether the system has multi-context configurations and determines the admin-context.</p> <p>The change context command is required if the change system command has a multi-context configuration or admin configuration context.</p> <p>The terminal pager commands are used to set and reset paging behavior.</p>

## HP Networking ProVision

IBM Security QRadar Risk Manager supports the HP Networking ProVision adapter.

The following table describes the integration requirements for the HP Networking ProVision adapter.

Table 10. Integration requirements for the HP Networking ProVision adapter

Integration requirement	Description
Versions	HP Networking ProVision Switches K/KA.11.XX and later. <b>Restriction:</b> HP switches that are on a Comware operating system are not supported by this adapter.
Neighbor data support	Supported
SNMP discovery	Matches version numbers with the format HP(.*Switch(.*)(revision [A-Z]{1,2}\.(\d+)\.(\d+)) in sysDescr.
Required credential parameters	Username Password Enable Password
Connection protocols	SSH

Table 10. Integration requirements for the HP Networking ProVision adapter (continued)

Integration requirement	Description
Backup operation commands that are issued by the adapter to the device	<pre> dmesgshow system power-supply getmib show access-list vlan &lt;vlan id&gt; show access-list show access-list &lt;name or number&gt; show access-list ports &lt;port number&gt; show config show filter show filter &lt;id&gt; show running-config show interfaces brief show interfaces &lt;interface id&gt; For each interface. show jumbos show trunks show lacp show module show snmp-server show spanning-tree show spanning-tree config show spanning-tree instance &lt;id or list&gt; - for each spanning tree configured on the device show spanning-tree mst-config show system information show version show vlans show vlans &lt;id&gt; For each vlan. show vrrp walkmib </pre>

Table 10. Integration requirements for the HP Networking ProVision adapter (continued)

Integration requirement	Description
show ip backup operation commands that are issued by the adapter to the device	<pre>show ip show ip route show ip odpf show ip odpf redistribute show ip rip show ip rip redistribute</pre>
Telemetry and neighbor data commands	<pre>getmib show arp show cdp neighbors show cdp neighbors detail &lt;port number&gt; show interfaces brief show interface show ip route show lldp info remote-device show lldp info remote-device &lt;port number&gt; show mac-address or show mac address show system information show vlans show vlans custom id state ipaddr ipmask walkmib</pre>

## Juniper Networks JUNOS

To integrate IBM Security QRadar Risk Manager with your network devices, ensure that you review the requirements for the Juniper Networks JUNOS adapter.

The following table describes the integration requirements for the Juniper Networks JUNOS adapter.

Table 11. Integration requirements for the Juniper Networks JUNOS adapter

Integration requirement	Description
Versions	Versions 9 and later.
Neighbor data support	Supported
SNMP discovery	Matches SNMP sysOID: 1.3.6.1.4.1.2636

Table 11. Integration requirements for the Juniper Networks JUNOS adapter (continued)

Integration requirement	Description
Required credential parameters	Username Password
Connection protocols	Telnet SSH + SCP
Commands that the adapter requires to log in and collect data	<pre> show version show system uptime show chassis hardware show chassis firmware show chassis mac-address show chassis routing-engine show configuration snmp show snmp mib walk system configure show configuration firewall show configuration firewall family inet6 show configuration security show configuration security zones show interfaces show interfaces filters show ospf interface detail show bgp neighbor show configuration routing-option show arp no-resolve show ospf neighbor show rip neighbor show bgp neighbor show ipv6 neighbors </pre>

## Juniper Networks NSM

IBM Security QRadar Risk Manager adapter supports Juniper Networks NSM.

You can use the QRadar Risk Manager to back up a single Juniper Networks device or obtain device information from a Juniper Networks NSM console.

The Juniper Networks NSM console contains the configuration and device information for Juniper Networks routers and switches that are managed by the Juniper Networks NSM console.

The following table describes the supported environments for Juniper Networks NSM.

*Table 12. QRadar Risk Manager adapter supported environments for Juniper Networks NSM*

Supported environment	Description
Versions	IDP appliances that are managed by NSM
Neighbor data support	Not supported
SNMP discovery	Not supported
Required credential parameters	<ul style="list-style-type: none"> <li>• Username</li> <li>• Password</li> </ul>
Connection protocols	<ul style="list-style-type: none"> <li>• SOAP</li> <li>• HTTP</li> </ul>

---

## Juniper Networks ScreenOS

To integrate IBM Security QRadar Risk Manager with your network devices, ensure that you review the requirements for the Juniper Networks ScreenOS adapter.

The following table describes the integration requirements for the Juniper Networks ScreenOS adapter.

*Table 13. integration requirements for the Juniper Networks ScreenOS adapter*

Integration requirement	Description
Versions	Firewalls that use a ScreenOS operating system
Neighbor data support	Supported
SNMP discovery	Matches netscreen or SSG in SNMP sysDescr.
Required credential parameters	Username Password
Connection protocols	Telnet SSH

Table 13. integration requirements for theJuniper Networks ScreenOS adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data	<pre> set console page 0 get          system get config get          snmp get memory get file          info get file get          service get group          addresszonegroup get          address                     </pre>
Commands that the adapter requires to log in and collect data (continued).	<pre> get service group get service group <i>variable</i> get interface get interface<i>variable</i> get policy all get policy id<i>variable</i> get admin user get route get arp get mac-learn get counter statistics interface <i>variable</i> <b>Where:</b> <i>zone</i> is the zone data that is returned from the get          config command. <i>group</i> is the group data that is returned from the get          config command. <i>variable</i> is a list of returned data from a get service          group, get interface, or get policy id command.                     </pre>



---

## Palo Alto

IBM Security QRadar Risk Manager supports the Palo Alto adapter. The Palo Alto adapter uses the PAN-OS XML-based Rest application programming interface (API) to communicate with devices.

You use an HTTPS request to a URL to send a command to a device. The command format for the request is `https://deviceIPAddress/api/?type=op&cmd=<command>`

Where *command* is a set of XML tags or XPath.

The following example is for a set of XML tags.

```
<show><system><info></info></system></show>
```

The following example is an XPath:

```
/config/predefined/service
```

The following table describes the integration requirements for the Palo Alto adapter.

*Table 14. Integration requirements for the Palo Alto adapter*

Integration requirement	Description
Versions	PAN-OS version 4.1.0 and later.
Neighbor data support	Supported
SNMP discovery	SysDescr matches 'Palo Alto Networks(.*?)series firewall' or sysOid matches 'panPA'
Required credential parameters	Username Password Use SuperReader access for credentials.
Connection protocols	HTTPS

Table 14. Integration requirements for the Palo Alto adapter (continued)

Integration requirement	Description
Commands that are used for backup operation	<pre>&lt;show&gt;&lt;system&gt;&lt;info&gt;&lt;/info&gt;&lt;/system&gt;/ show&gt;  &lt;show&gt;&lt;config&gt;&lt;running&gt;&lt;/running&gt;&lt;/ config&gt;&lt;/show&gt;  &lt;show&gt;&lt;routing&gt;&lt;route&gt;&lt;/route&gt;&lt;/ routing&gt;&lt;/show&gt;  &lt;show&gt;&lt;virtual-wire&gt;all&lt;/virtual-wire&gt;&lt;/ show&gt;  &lt;show&gt;&lt;vlan&gt;all&lt;/vlan&gt;&lt;/show&gt;  &lt;show&gt;&lt;interface&gt;all&lt;/interface&gt;&lt;/show&gt;  &lt;show&gt;&lt;system&gt;&lt;disk-space&gt;&lt;/disk- space&gt;&lt;/system&gt;&lt;/show&gt;  &lt;show&gt;&lt;system&gt;&lt;resources&gt;&lt;/resources&gt;&lt;/ system&gt;&lt;/show&gt;  /config/predefined/service</pre>
Commands that are used for telemetry and neighbor data	<pre>&lt;show&gt;&lt;system&gt;&lt;info&gt;&lt;/info&gt;&lt;/system&gt;&lt;/ show&gt;  &lt;show&gt;&lt;interface&gt;all&lt;/interface&gt;&lt;/show&gt;  &lt;show&gt;&lt;routing&gt;&lt;interface&gt;&lt;/interface&gt;&lt;/ routing&gt;&lt;/show&gt;  &lt;show&gt;&lt;counter&gt;&lt;interface&gt;all&lt;/ interface&gt;&lt;/counter&gt;&lt;/show&gt;  &lt;show&gt;&lt;arp&gt;all&lt;/arp&gt;&lt;/show&gt;&lt;/ p&gt;&lt;p&gt;&lt;show&gt;&lt;mac&gt;all&lt;/mac&gt;&lt;/show&gt;  &lt;show&gt;&lt;routing&gt;&lt;route&gt;&lt;/route&gt;&lt;/ routing&gt;&lt;/show&gt;</pre>
Commands that are used for GetApplication	<pre>&lt;show&gt;&lt;config&gt;&lt;running&gt;&lt;/running&gt;&lt;/ config&gt;&lt;/show&gt;  /config/predefined/application</pre>

## Sourcefire 3D Sensor

To integrate IBM Security QRadar Risk Manager with your network devices, ensure that you review the requirements for the Sourcefire 3D Sensor adapter.

The following table describes the integration requirements for the Sourcefire 3D Sensor adapter.

### Limitations:

- Intrusion policies attached to individual access control rules are not used by QRM. Only the default intrusion policy is supported.
- NAT and VPN are not supported.

Table 15. integration requirements for the Sourcefire 3D Sensor adapter

Integration requirement	Description
Versions	5.2
Neighbor data support	No
SNMP discovery	No
Required credential parameters	Username Password
Connection protocols	SSH
Commands that the adapter requires to log in and collect data	show version show memory show network show interfaces expert sudo su df hostname ip addr route cat find head mysql



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## Index

### A

- adapters 11
  - configuration overview 1
  - types 1
- adaptersinstalling on QRadar Risk Manager 3

### B

- BIG-IP 12

### C

- Check Point SecurePlatform 1
- Check Point SecurePlatform Appliances
  - integration requirements 15
- Check Point Security Management Server 16
- Cisco Catalyst 1
- Cisco CatOS
  - supported environments 17
- Cisco Internet Operating System 1
- Cisco IOS
  - integration requirements 19
- Cisco Nexus
  - adding VDCs 25
  - integration requirements 22
- Cisco Security Appliance 1
- Cisco security appliances
  - integration requirements 26
- Configuration Source Management
  - adding network devices 5
  - adding network devices managed by Juniper Networks 7
- connection protocols
  - adapters support 11
- CPSMS 16
- customer support
  - contact information v

### D

- documentation v

### F

- files collected
  - adapters support 11

### H

- HP Networking ProVision 28

### I

- installing
  - adapters 3

### J

- Juniper Networks JunOS 1
- Juniper Networks JUNOS
  - integration requirements 31
- Juniper Networks NSM 1
  - supported environments 32
- Juniper Networks ScreenOS 1
  - integration requirements 33

### N

- neighbor data
  - definition 11
- network administrator
  - description v
- network devices
  - adding and configuring 5
  - adding devices managed by Juniper networks to Risk Manager 7
  - adding to Risk Manager 5
- Nexus device
  - adding VDCs as sub-devices 25
- Nexus devices
  - adding VDC as individual devices 25

### P

- Palo Alto 35

### R

- required commands
  - adapters support 11
- required credentials
  - adapters 11

### S

- SiteProtector discovery 9
- SNMP discovery
  - adapters 11
- Sourcefire IPS
  - integration requirements 36
- supported adapters
  - overview 11

### T

- technical library v

### U

- uninstalling
  - adapters 3

### V

- VDC
  - methods for adding to Cisco Nexus devices 25
- Virtual Device Contexts
  - See VDC