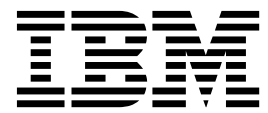


IBM Security QRadar

Adapter Configuration Guide

November 2017



Note

Before you use this information and the product that it supports, read the information in "Notices" on page 61.

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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. QRadar Risk Manager uses adapters to integrate with devices in your network.

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 QRadar Documentation* (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

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 your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service or security measure can be completely effective in preventing improper use or access. IBM systems, products and services are designed to be part of a lawful comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. IBM DOES NOT WARRANT THAT ANY SYSTEMS, PRODUCTS OR SERVICES ARE IMMUNE FROM, OR WILL MAKE YOUR ENTERPRISE IMMUNE FROM, THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.

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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.

Network topology and configuration

QRadar Risk Manager uses adapters to collect network configurations. The adapters turn the configuration information into a standard format that is unified for 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 the user credentials that are configured in QRadar to access the device and to download the configurations.

Process for integrating network devices

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

1. Configure the network device to enable communication with 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 network protocol that is required for communication with your network devices.

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

Types of adapters

IBM Security QRadar Risk Manager supports several types of adapters.

The following adapters are supported:

- F5 BIG-IP
- Brocade vRouter
- Check Point SecurePlatform Appliances
- Check Point Security Management Server
- Cisco Catalyst (CatOS)
- Cisco Internet Operating System (IOS)
- Cisco Nexus
- Cisco Security Appliances
- Fortinet FortiOS
- HP Networking ProVision
- Juniper Networks ScreenOS

- Juniper Networks JUNOS
- Juniper Networks NSM
- Palo Alto
- Sourcefire 3D Sensor
- Generic SNMP
- TippingPoint IPS
- McAfee Sidewinder

Adapter features

Adapters come with many features to help you integrate your network devices with QRadar Risk Manager.

The following table lists common features for the supported adapters.

Table 1. Adapter features

Adapter	Versions	NAT	Routing	Tunnelling	Protocols	Other features
Brocade vRouter	6.7 to 17.1		Static		Telnet, SSH	
Check Point Secure Platform	R65 to R77.30	Static Dynamic	Static		Telnet, SSH	
Check Point SMS OPSEC	NGX R60 to R77	Static Dynamic	Static		CPSMS	
Check Point SMS HTTPS	R80	Static Dynamic	Static		HTTPS	
Cisco ASA	ASA: 8.2, 8.4 to 9.1.7 PIX: 6.1, 6.3 FWSM: 3.1, 3.2	Static	Static EIGRP, OSPF		Telnet, SSH, SCP	
Cisco CatOS	Catalyst 6500 series chassis devices. 4.2, 6.4		Static		Telnet, SSH	
Cisco Nexus	Nexus 5548: OS level 6.0 Nexus 7000 series: OS level 6.2 Nexus 9000 series: OS level 6.1		Static EIGRP, OSPF		Telnet, SSH	
Cisco IOS	IOS 12.0 to 15.1 for routers and switches Cisco Catalyst 6500 switches with MSFC.	Static Dynamic	Static EIGRP, OSPF	VPN	Telnet, SSH	
F5 BIG-IP	10.1.1, 11.4.1	Static Dynamic	Static	VPN	SSH	

Table 1. Adapter features (continued)

Adapter	Versions	NAT	Routing	Tunnelling	Protocols	Other features
Fortinet FortiOS	4.0 MR3 to 5.2.4	Static	Static		Telnet, SSH	
Generic SNMP	SNMPv1, v2 and v3					
HP ProCurve ProVision	HP Networking ProVision Switches K/KA.15.X		RIP		SSH	
IBM Proventia GX IPS	GX appliances that are managed by SiteProtector.				SQL	Applications
Juniper JUNOS	10.4, 11.2 to 12.3, and 13.2	Static Dynamic	Static OSPF		Telnet, SSH, SCP	
Juniper NSM	IDP appliances that are managed by NSM (Network and Security Manager)				HTTPS	
Juniper ScreenOS	5.4, 6.2	Static Dynamic	Static		Telnet, SSH	
Sidewinder	8.3.2	Static	Static		Telnet, SSH	
Palo Alto Firewalls	PAN-OS Versions 5.0 to 7.0	Static Dynamic		IPSEC	HTTPS	User/Groups Applications
SourceFire 3D Sensor	5.3			VPN	SSH	IPS
Tipping Point IPS	TOS 3.6 and SMS 4.2				Telnet, SSH, HTTPS	IPS

Adapter FAQs

QRadar Risk Manager uses adapters to connect and get configuration information from network devices.

Do adapters support all devices and versions that QRadar SIEM supports?

Adapters are a separate integration and are used by QRadar Risk Manager only to import device configurations. To view a list of supported adapters, see Chapter 5, “Supported adapters,” on page 23.

Do all adapters support the same features, for example, OSPF routing?

The range of supported features such as routing support and NAT support vary with the adapters. See “Adapter features” on page 2.

What user-access level does the adapter require to get device configuration?

The required access levels varies by adapter but it is restricted to read-only for most adapters. See Chapter 5, "Supported adapters," on page 23 and view the user-access level requirements when you select an adapter.

How do you configure credentials to access your network devices?

You must configure credentials to allow QRadar Risk Manager to connect to devices in your network. Administrators use Configuration Source Management to input device credentials. Individual device credentials can be saved for a specific network device. If multiple network devices use the same credentials, you can assign credentials to a group. For more information, see the *IBM Security QRadar Risk Manager User Guide*.

What credential fields do you need to complete for each device?

Some adapters might require only a user name and password while others might need extra credentials, for example, Cisco IOS might require an enable password. See Chapter 5, "Supported adapters," on page 23 and view the required credential parameters in the tables.

How do you configure protocols for your devices?

Use Network Groups, which contain protocols that you can use to enable connectivity to IP/CIDR/ address ranges for devices. For more information, see the *IBM Security QRadar Risk Manager User Guide*.

How do you add your network devices to QRadar Risk Manager?

Table 1 lists the methods for adding network devices to QRadar Risk Manager.

Table 2. Adding network devices

Method	Description
Add devices individually	Use this method if you want to run a test backup of a few devices, for example, to check that your credentials and protocols are correctly configured.
Device discovery	Use this method if you have an IP/CIDR address range with SNMP community strings that are configured for each device and you want to find all devices in that address range. You must have SNMP get community strings defined in your credential set for device discovery to work.
Discovery from management device	Use this method for devices that are managed by a supported management system such as Check Point SMS.
Import devices	If you have several devices in your network, this method is the most reliable.

For information about adding network devices to QRadar Risk Manager, see the *IBM Security QRadar Risk Manager User Guide*.

Chapter 2. Installing adapters

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

Before you begin

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

Procedure

1. Using SSH, log in to your QRadar SIEM Console as the root user.
2. Download the compressed file for the QRadar Risk Manager adapters from Fix Central (www.ibm.com/support/fixcentral/) to your QRadar SIEM Console.
3. To copy the compressed file from your QRadar SIEM Console to QRadar Risk Manager, type the following command:

```
scp adapters.zip root@IP_address:
```

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

For example:

```
scp adapters.bundle-2014-10-972165.zip 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. To unpack and install the adapters, type the following commands from the root directory that contains the compressed file:

```
unzip adapters.zip
```

```
yum install -y adapters*.rpm
```

For example:

```
unzip adapters.bundle-2014-10-972165.zip
```

```
yum install -y adapters*.rpm
```

Note:

For QRadar Risk Manager versions prior to V.7.2.8 use the **rpm** command

For example:

```
rpm -Uvh adapters*.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.

Uninstalling an adapter

Use the **yum** 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:

```
yum remove -y adapter package
```

For example, `yum remove -y adapters.cisco.ios-2011_05-205181.noarch`

Note:

For QRadar Risk Manager versions prior to V.7.2.8 use the **rpm** command

For example:

```
rpm -e adapter file
```

```
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 3. Methods for adding a network device to QRadar Risk Manager

Method	Description
Add Device	Add one device.
Discover Devices	Add multiple devices.
Discover From NSM	Add devices that are managed by a Juniper Networks NSM console.
Discover Check Point SMS	Add devices that are managed by a Check Point Security Manager Server (CPSMS).
Discover From SiteProtector™	Add devices from SiteProtector.
Discover from Palo Alto Panorama	Add devices from Palo Alto Panorama
Discover From Defense Center	Add devices from Sourcefire Defense Center.


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 5, “Supported adapters,” on page 23.

Procedure

1. Open the **Admin** settings:
 - In IBM Security QRadar V7.3.0 or earlier, click the **Admin** tab.
 - In IBM Security QRadar V7.3.1, click the navigation menu icon () , and then click **Admin** to open the admin tab.
2. On the **Admin** navigation menu, click **Plug-ins** or **Apps**.
 - In IBM Security QRadar V7.3.0 or earlier, click **Plug-ins**.
 - In IBM Security QRadar V7.3.1, click **Apps**.
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.

For example, use the following format for a wildcard, type 10.1.*.*
 For example, use the following format for 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 create and enter values for the parameters.

The following table describes the parameters.

Table 4. Parameter options for credentials

Parameter	Description
Username	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: rule.C objects.C implied_rules.C Standard.PF
Password	The password for the device.
Enable Password	The password for second-level authentication. This password is required when the credentials prompt you for user credentials that are required for expert mode access level.
SNMP Get Community	Optional
SNMPv3 Authentication Username	Optional
SNMPv3 Authentication Password	Optional
SNMPv3 Privacy Password	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, see the *IBM Security QRadar Risk Manager User Guide*.

7. On the navigation menu, add a single device or multiple devices.
 - To add one network device, click **Add Device**.
 - To add multiple IP addresses for network devices, click **Discover Devices**.
8. Enter the IP address for the device, select the adapter type, and then click **Add**.

If the device is not backed up, a blue question mark appears beside the adapter.
9. To backup the device that you add to the device list, select the device, and then click **Backup**.
10. Repeat these steps for every network device that you want to add to the device list.

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*.


Adding devices that are managed by an NSM console

Use Configuration Source Management to add all devices from a Juniper Networks NSM (Network and Security Manager) 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 5, "Supported adapters," on page 23.

Procedure

1. Open the **Admin** settings:
 - In IBM Security QRadar V7.3.0 or earlier, click the **Admin** tab.
 - In IBM Security QRadar V7.3.1, click the navigation menu icon () , and then click **Admin** to open the admin tab.
 2. On the **Admin** navigation menu, click **Plug-ins** or **Apps**.
 - In IBM Security QRadar V7.3.0 or earlier, click **Plug-ins**.
 - In IBM Security QRadar V7.3.1, click **Apps**.
 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.
- 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 5. Parameter options for Juniper NSM web services credentials

Parameter	Description
Username	A valid user name to log in to the Juniper NSM (Network and Security Manager) web services. For Juniper NSM web services, this user must be able to access the Juniper NSM server.
Password	The password for the device.
Enable Password	Not required.

Restriction: Juniper Networks NSM (Network and Security Manager) does not support SNMP.

7. On the navigation menu, click **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*.

Adding devices to QRadar Risk Manager that are managed by a CPSMS console

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

Depending on your version of Check Point Security Manager Server, you must choose one of the following discovery methods to add your devices to QRadar Risk Manager.

Adding devices that are managed by CPSMS by using OPSEC

Add devices that are managed by Check Point Security Manager Server versions NGX R60 to R77 to IBM Security QRadar Risk Manager by using OPSEC to discover and add the devices.

Before you begin

Review the supported software versions, credentials, and required commands for your network devices. For more information, see Chapter 5, "Supported adapters," on page 23.


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

Repeat the following procedure for each CPSMS that you want to connect to, and to initiate discovery of its managed firewalls.

Procedure

1. On the navigation menu (), click **Admin** to open the admin tab.
2. On the **Admin** navigation menu, click **Apps**.
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 then click **OK**.
 - b. Type the IP address of your CPSMS device, and then 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 then click **OK**.
 - b. Select the name of the credential set that you created, and then 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 because the format depends on the type of device that the discovery is coming from. Use the following table as a reference to OPSEC Entity SIC name formats.

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 **Protocols** and verify that the **CPSMS** protocol is selected.
The default port for the CPSMS protocol is 18190.
12. Click **Discover From Check Point OPSEC**, and then enter the CPSMS IP address.
13. Click **OK**.
14. Repeat these steps for each CPSMS device that you want to add.


What to do next

When you add all the required devices, back up the devices, and view them in the topology.

Adding devices that are managed by CPSMS by using HTTPS

Add devices that are managed by Check Point Security Manager Server version R80 to IBM Security QRadar Risk Manager by using the HTTPS protocol to discover and add the devices.

Procedure

1. Open the **Admin** settings:
 - In IBM Security QRadar V7.3.0 or earlier, click the **Admin** tab.
 - In IBM Security QRadar V7.3.1, click the navigation menu icon () , and then click **Admin** to open the admin tab.
2. On the **Admin** navigation menu, click **Plug-ins** or **Apps**.
 - In IBM Security QRadar V7.3.0 or earlier, click **Plug-ins**.
 - In IBM Security QRadar V7.3.1, click **Apps**.
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 then click **OK**.
 - b. Type the IP address of your Check Point device, and then click **Add**.
 - c. Ensure that the address is displayed in the **Network address** box.
6. On the Credentials pane, click **Add a new credential set**.
 - a. Type a name for the credential set, and then click **OK**.
 - b. Select the name of the credential set that you created, and then type a valid user name and password for the device.
7. Click **OK**.
8. Click **Protocols** and verify that the **HTTPS** protocol is selected.
9. Click **Discover From Check Point HTTPS**, and then enter the Check Point IP address.
10. Click **OK**.


What to do next

After you add all the required devices, back up the devices, and view them in the topology.

Adding devices that are managed by the Palo Alto Panorama

Use Configuration Source Management to add devices from the Palo Alto Panorama to IBM Security QRadar Risk Manager.

Procedure

1. Open the **Admin** settings:
 - In IBM Security QRadar V7.3.0 or earlier, click the **Admin** tab.
 - In IBM Security QRadar V7.3.1, click the navigation menu icon () , and then click **Admin** to open the admin tab.
2. On the **Admin** navigation menu, click **Plug-ins** or **Apps**.
 - In IBM Security QRadar V7.3.0 or earlier, click **Plug-ins**.
 - In IBM Security QRadar V7.3.1, click **Apps**.
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 then click **OK**.
 - b. Type the IP address of your Palo Alto Panorama device, and then click **Add**.
 - c. Ensure that the addresses that you add are displayed in the **Network address** box beside the **Add address** box.The Palo Alto Panorama supports proxy backups.
6. On the Credentials pane, click **Add a new credential set**.
 - a. Type a name for the credential set, and then click **OK**.
 - b. Select the name of the credential set that you created, and then type a valid user name and password for the device.
7. Click **OK**.
8. Click **Discover From Palo Alto Panorama** , and then enter the Palo Alto Panorama IP address.

The Palo Alto Panorama uses the following command for the backup:

```
api/?type=op&cmd=<show><devices><connected></connected></devices></show>
```
9. Click **OK**.

What to do next

When you add all the required devices, back up the devices, and view them in the topology.

Palo Alto Panorama

IBM Security QRadar Risk Manager supports the Palo Alto Panorama network security management server.

Palo Alto Panorama supports proxy backups.

Backups of devices that are discovered by the Palo Alto Panorama network security management server are collected from the Panorama when they are backed up.

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

Table 6. Integration requirements for the Palo Alto Panorama

Integration requirement	Description
Versions	8.0
Minimum user access level	Superuser (full access) Required for PA devices that have Dynamic Block Lists to perform system-level commands. Superuser (read-only) for all other PA devices.
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	HTTPS
Required commands to use for the backup operation.	api/?type=op&cmd=<show><devices><connected></connected></devices></show>

Adding devices that are 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. Open the **Admin** settings:
 - In IBM Security QRadar V7.3.0 or earlier, click the **Admin** tab.
 - In IBM Security QRadar V7.3.1, click the navigation menu icon () , and then click **Admin** to open the admin tab.
2. On the **Admin** navigation menu, click **Plug-ins** or **Apps**.
 - In IBM Security QRadar V7.3.0 or earlier, click **Plug-ins**.
 - In IBM Security QRadar V7.3.1, click **Apps**.
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 then click **OK**.
 - b. Type the IP address of your SiteProtector device, and then 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 then click **OK**.
 - b. Select the name of the credential set that you created, and then type a valid user name and password for the device.

Restriction: The user name and password are the same credentials that are 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

When you add all the required devices, backup the devices, and view them in the topology.

Chapter 4. Troubleshooting device discovery and backup

Fix issues with device discovery and backup. You can look at the details for logs and error and warning messages to help you troubleshoot.

Device backup failure

Check device login credentials.

1. On the **Admin** tab, click **Configuration Source Management**.
2. Verify that the credentials to access the target device are correct.
3. Test the credentials on the target device.

View device backup errors

To see backup errors, do the following steps:

1. On the **Admin** tab, click **Configuration Source Management**.
2. Click a device, and then click **View error**.

This table lists the error message identifier, the description of the message and the suggested troubleshooting action.

Table 7. Device backup errors

Backup errors	Error description	Suggested troubleshooting step
UNEXPECTED_RESPONSE	Connection attempt timed out	Verify that you're using the correct adapter.
INVALID_CREDENTIALS	Credentials are incorrect	Check credentials in Configuration Source Management .
SSH_ERROR	Connection error	Check that the device is working and is connected to your network. Use other network connection protocols and troubleshooting tools to verify that the device is accessible. Verify that the SSH connection protocol is allowed and that it is configured correctly.
TELNET_ERROR	Connection error	Check that the device is working and is connected to your network. Use other network connection protocols and troubleshooting tools to verify that the device is accessible. Verify that the Telnet connection protocol is allowed and that it is configured correctly.

Table 7. Device backup errors (continued)

Backup errors	Error description	Suggested troubleshooting step
SNMP_ERROR	Connection error	Check that the device is working and is connected to your network. Use other network connection protocols and troubleshooting tools to verify that the device is accessible. Verify that the SNMP is allowed and that it is configured correctly.
TOO_MANY_USERS	The number of users that are configured to access this device is exceeded.	Check the maximum number of users that are allowed to access the device by logging on to the device and checking the configuration for the maximum number of users that can access the device at the same time.
DEVICE_MEMORY_ERROR	Device configuration errors	Verify that the device is working correctly. Access the device and verify the configuration and check the logs for errors. Use your device documentation to help you to troubleshoot errors.
NVRAM_CORRUPTION_ERROR	Device access issues	In Configuration Source Management , check the access level of the user name that is configured to access the device.
INSUFFICIENT_PRIVILEGE	User that is configured to access the device has insufficient privilege	In Configuration Source Management , check the access level of the user name that is configured to access the device.
DEVICE_ISSUE	Error on the device	Select the device in Configuration Source Management and click View error to see more details.

Backup completes with parse warning

To view more detail about the warning, do the following steps:

1. Click the **Risks** tab.
2. From the navigation menu, click **Configuration Monitor**.
3. Click **See Log** for the selected device in the **Device List** table.

Verify whether you have the most recent adapter versions

To check your adapter versions, log in as root to the QRadar Risk Manager appliance and then type the following command:

```
yum list adapter\*
```


You can look for date information in the names of the adapters to help you determine the release dates.

To download the most recent adapter bundle, do the following steps:

1. Go to IBM Fix Central (<https://www.ibm.com/support/fixcentral/>).
2. In the **Product selector** field type Risk Manager to filter your selection.
3. Click IBM Security QRadar Risk Manager.
4. From the **Installed Version** list, select the version that is installed on your system.
5. From the **Platform** list, select the operating system that is installed on your system, and then click **Continue**.
6. Click **Browse for fixes**, and then click **Continue**.
7. To download the most recent adapter bundle, click the adapter-bundle link on the top of the **Adapter** list.

Verify whether your device backup is current

To verify whether you have a recent backup, do these steps:

1. Click the **Risks** tab.
2. From the navigation menu, click **Configuration Monitor**.
3. Double-click the device in the **Device List** table.
4. From the toolbar, click **History**. The most recent configuration that is imported is displayed.

If you don't think that you have the most recent configuration, verify by running the backup again.

Error when importing configurations from your devices

An incorrectly formatted CSV file can cause a device backup to fail. Do these steps to check the CSV file:

1. Review your CSV file to correct any errors.
2. Re-import your device configurations by using the updated CSV file.

Failure to discover devices from Check Point SMS (OPSEC)

Follow all steps in the "Adding devices that are managed by a CPSMS console" section of the *IBM Security QRadar Risk Manager Adapter Configuration Guide*, especially steps 7 and 8 where the OPSEC fields must be precise.

Device backup failure because of login message or message of the day

Adapters that use Telnet and SSH to connect to devices use regular expressions (regex) to match device prompts. If characters in the login message or the message of the day match the regex, then the backup process might fail.

For example, if you use the following login banner for the Cisco ASA, the backup fails because the adapter operates as if the # character in the login message is the device prompt when the regex `#\s*$` is matched.

```
##### Welcome to ASA #####
```

The following table lists the adapters and their regexes that are impacted by these backup failures:

Table 8. Adapters and their regexes

Adapter	Regexes (single quotes (!) are used as delimiters)
CheckPoint SecurePlatform	'sername: (?!Last)\s+login:' '[Pp]assword:' '(# \\$ >)\s*\$'
Cisco SecurityAppliance (ASA)	'sername: ogin:' '[Pp]assword:' '>\s*\$' '#\s*\$'
Cisco Nexus	'sername: \s*' 'assword: \s*' '(^ \n \r)[^#\n\r]+\s*\$ [^#\n\r]+\s*\S+\s*\$' '\hello>W+?'
Cisco IOS	'maximum number of telnet' 'assword required, but none se' 'sername:' 'assword:' 'PASSCODE:' '(?m)^\w\S*#\s*(?![\n\r])\$' '(?m)^\w\S*>\s*(?![\n\r])\$' 'any key to' 'User Interface Menu'
Cisco CatOS	'sername: ogin:' '[Pp]assword:' '\n\S+\s\$' '\(enable\)\s*\$' '(^ \n \r)[^>^\n\r]+>\s*\$'
HP ProVision	'\S+>' '\S+#' 'sername: \s*\Z' 'ogin as:'
TippingPoint IPS	'sername: ogin:' 'assword:' '(# \\$ >)\s*\$'
CheckPoint OPSEC	'sername: (?!Last)\s+login:' '[Pp]assword:' '(# \\$ >)\s*\$'
McAfee Sidewinder	'sername: (?!Last)\s+login: (login:\s+)\$' '[Pp]assword:' '(# \\$ > %)\s*\$'
Juniper ScreenOS	'sername: ogin:' '[Pp]assword:' '(# >)\s*\$'
Juniper JUNOS	'^\s*login:' 'assword' '%' '\s+>'
Juniper NSM	'sername: (?!Last)\s+login:' '[Pp]assword:' '(# \\$ >)\s*\$'
Sourcefire 3D	'(# \\$ >)\s*\$' '(\>\s*expert?a?)\s*\$' '([Pp]assword)\s*\:\s*\$'

Table 8. Adapters and their regexes (continued)

Adapter	Regexes (single quotes (') are used as delimiters)
F5 BIG-IP	'sername: ogin:\s*\$' 'continue connecting \(\yes\ no\)\)?\s*\$' '[Pp]assword:\s*\$' '(\# \\$)\s*\$'
Fortinet FortiOS	'sername: (?<!Last)\s+login:' '[Pp]assword:' '(\# \\$ >)\s*\$'
Nokia CheckPoint	'sername:\s*\$ ogin:\s*\$' '[Pp]assword:' 'Terminal\s+type\?' '(\# \\$ >)\s*\$'

Related tasks:

“Adding devices that are managed by CPSMS by using OPSEC” on page 10
 Add devices that are managed by Check Point Security Manager Server versions NGX R60 to R77 to IBM Security QRadar Risk Manager by using OPSEC to discover and add the devices.

Chapter 5. Supported adapters

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

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.

Devices must support standard MIB-2 for SNMP discovery to take place, and the device's SNMP configuration must be supported and configured correctly.

Required credential parameters

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

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.

To add credentials in QRadar, log in as an administrator and use **Configuration Source Management** on the **Admin** tab.

Connection protocols

Specifies the supported protocols for the network device.

To add protocols in QRadar, log in as an administrator and use **Configuration Source Management** on the **Admin** tab.

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.

Brocade vRouter

IBM Security QRadar Risk Manager supports the Brocade Virtual Router (vRouter) adapter.

The static routing feature is available with the Brocade vRouter adapter.

The integration requirements for the Brocade vRouter adapter are described in the following table:

Table 9. Brocade vRouter adapter

Integration Requirement	Description
Supported versions	6.7 to 17.1
Minimum user access level	Operator or Admin
Required credential parameters	Username Password
Supported connection protocols	Use one of the following supported connection protocols: SSH Telnet
Commands that the adapter requires to log in and collect data	show version show host name show system memory show configuration all no-more show interfaces no-more

Check Point SecurePlatform Appliances

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

The following features are available with the Check Point SecurePlatform Appliances adapter:

- Dynamic NAT
- Static NAT
- SNMP discovery
- Static routing
- Telnet and SSH connection protocols

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

Table 10. Integration requirements for the Check Point SecurePlatform Appliances adapter

Integration requirement	Description
Versions	R65 to R77.30 Restriction: Nokia IPSO appliances are not supported for backup.
SNMP discovery	Matches NGX in SNMP sysDescr.
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password Enable Password (expert mode)
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported connection protocols: Telnet SSH
Commands that the adapter requires to log in and collect data	hostname dmi decode 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

Use the Check Point adapter to discover and backup end nodes that are managed by the Security Management Server (CPSMS).

Choose one of the following adapters to discover and backup end nodes that are managed by the CPSMS.

Check Point Security Management Server OPSEC adapter

Use the Check Point Security Management Server OPSEC adapter to discover and backup end nodes that are managed by the CPSMS versions NGX R60 to R77.

The following features are available with the Check Point Security Management Server OPSEC adapter:

- OPSEC protocol
- Dynamic NAT
- Static NAT
- Static routing

The CPSMS adapter is built on the OPSEC SDK 6.0, which supports Check Point products that are configured to use certificates that are signed by using SHA-1 only.

The following table describes the integration requirements for the CPSMS adapter.

Table 11. Integration requirements for the CPSMS adapter

Integration requirement	Description
Versions	NGX R60 to R77
Required credential parameters To add credentials in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use the credentials that are set from 'Adding devices managed by a CPSMS console'.
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	CPSMS
Configuration requirements	To allow the cpsms_client to communicate with Check Point Management Server, the \$CPDIR/conf/sic_policy.conf on CPSMS must include the following line: # OPSEC applications defaultANY ; SAM_clients ; ANY ; sam ; sslca, local, sslca_comp# sam proxyANY ; Modules, DN_Mgmt ; ANY; sam ; sslcaANY ; ELA_clients ; ANY ; ela ; sslca, local, sslca_compANY ; LEA_clients ; ANY ; lea ; sslca, local, sslca_compANY ; CPMI_clients; ANY ; cpmi ; sslca, local, sslca_comp
Required ports	The following ports are used by QRadar Risk Manager and 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.

Check Point Security Management Server HTTPS adapter

Use the Check Point Security Management Server HTTPS adapter to discover and backup end nodes that are connected to firewall blades that are managed by the Security Management Server version R80.

The following features are available with the Check Point Security Management Server HTTPS adapter:

- Static NAT
- Static routing
- HTTPS connection protocol

The following features are not supported by the Check Point Security Management Server adapter:

- Dynamic objects (network objects)
- Security Zones (network objects)
- RPC objects (services)
- DCE-RPC objects (services)
- ICMP services (services)
- GTP objects (services)
- Compound TCP objects (services)
- Citrix TCP objects (services)
- Other services (services)
- User objects
- Time objects
- Access Control Policy criteria negation

Note:

If you upgrade to the Check Point Security Management Server R80 from a previous version of Check Point SMS, you must rediscover your devices by using the **Discover From Check Point HTTPS** discovery method, even if your devices are recorded by **Configuration Source Management**.

The following table describes the integration requirements for the Check Point Security Management Server adapter.

Table 12. Integration requirements for the Check Point Security Management Server adapter

Integration requirement	Description
Versions	R80
Required credential parameters To add credentials in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab. Note: You must add the credentials for the Check Point Security Management Server before you configure device discovery.	Username Password

Table 12. Integration requirements for the Check Point Security Management Server adapter (continued)

Integration requirement	Description
<p>Device discovery configuration</p> <p>To configure device discovery in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p> <p>To configure the discovery method, click Discover From Check Point HTTPS, enter the IP address of the Check Point Security Management Server, and then click OK.</p>	Discover From Check Point HTTPS
<p>Supported connection protocols</p> <p>To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p>	HTTPS
User access level requirements	Read-write access all
Requested API endpoints	<p>Use the following format to issue the listed commands to devices:</p> <pre>https://<managemenet server>:<port>/web_api/<command></pre> <p>show-simple-gateways</p> <p>show-hosts</p> <p>show-networks</p> <p>show-address-ranges</p> <p>show-groups</p> <p>show-groups-with-exclusion</p> <p>show-services-tcp</p> <p>show-services-udp</p> <p>show-service-groups</p> <p>show-packages</p> <p>show-access-rulebase</p> <p>show-nat-rulebase</p> <p>run-script</p> <p>show-task</p>

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 QRadar Risk Manager can access.

The following features are available with the Cisco CatOS adapter:

- Neighbor data support
- SNMP discovery
- Static routing
- Telnet and SSH connection protocols

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

Table 13. Integration requirements for the Cisco CatOS adapter

Integration requirement	Description
Versions	Catalyst 6500 series chassis devices. 4.2 6.4 Restriction: The adapter for CatOS backs up only the essential switching port structure. Multilayer Switch Feature Card (MSFC) CatOS adapters are backed up by Cisco IOS adapters. Firewall Services Module (FWSM) CatOS adapters are backed up by Cisco ASA adapters.
SNMP discovery	Matches CATOS or Catalyst Operating System in SNMP sysDescr.
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password Enable Password
Supported connection protocols To add protocols in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported connection protocols: Telnet SSH

Table 13. 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 features are available with the Cisco IOS adapter:

- Neighbor data support
- Dynamic NAT
- Static NAT
- SNMP discovery
- Static routing
- EIGRP and OSPF dynamic routing
- P2P Tunneling/VPN
- Telnet and SSH connection protocols

The following table describes the integration requirements for Cisco IOS.

Table 14. Integration requirements for Cisco IOS

Integration requirement	Description
Versions	<p>IOS 12.0 to 15.1 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>
User Access Level	<p>A user with command exec privilege level for each command that the adapter requires to log in and collect data. For example, you can configure a custom privilege level 10 user that uses local database authentication.</p> <p>The following example sets all show ip commands, to privilege level 10.</p> <pre>privilege exec level 10 show ip</pre>
SNMP discovery	Matches ISO or Cisco Internet Operation System in SNMP sysDescr.
<p>Required credential parameters</p> <p>To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>Username</p> <p>Password</p> <p>Enable Username (Optional)</p> <p>Use this field, if the user needs to enter a specific privilege level when logging in to the device. Use the format <code>level-<n></code> where <i>n</i> is a privilege level [0-15]. For example, to enter privilege level 10, enter the following command:</p> <pre>level-10</pre> <p>This results in sending the enable 10 command to the Cisco device.</p> <p>Enable Password (Optional)</p>
<p>Supported connection protocols</p> <p>To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>Use any one of the following supported connection protocols:</p> <p>Telnet</p> <p>SSH</p>

Table 14. Integration requirements for Cisco IOS (continued)

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

Table 14. Integration requirements for Cisco IOS (continued)

Integration requirement	Description
show ip commands that the adapter requires to log in and collect data	<pre>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 interface show ip ospf neighbor show ip protocols show ip route eigrp terminal length 0</pre>

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 features are available with the Cisco Nexus adapter:

- Neighbor data support
- SNMP discovery
- EIGRP and OSPF dynamic routing
- Static routing
- Telnet and SSH connection protocols

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

Table 15. Integration requirements for the Cisco Nexus adapter

Integration requirement	Description
Versions and supported OS levels	<p>Nexus 5548: OS level 6.0</p> <p>Nexus 7000 series: OS level 6.2</p> <p>Nexus 9000 series: OS level 6.1</p>
SNMP discovery	<p>Matches <i>Cisco NX-OS</i> and an optional qualification string that ends with <i>Software</i> in the SNMP sysDescr.</p> <p>Example: (<i>Cisco NX\-OS.* Software</i>)</p>

Table 15. Integration requirements for the Cisco Nexus adapter (continued)

Integration requirement	Description
<p>Required credential parameters</p> <p>To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>Username</p> <p>Password</p> <p>Enable Password</p> <p>If you add virtual device contexts (VDCs) as individual devices, ensure that the required credentials allow the following actions:</p> <ul style="list-style-type: none"> Access the account that is enabled for the VDCs. Use the required commands in that virtual context.
<p>Supported connection protocols</p> <p>To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>Use any one of the following supported connection protocols:</p> <p>Telnet</p> <p>SSH</p>

Table 15. Integration requirements for the Cisco Nexus adapter (continued)

Integration requirement	Description
<p>Commands that the adapter requires to log in and collect data</p>	<p>show hostname</p> <p>show version</p> <p>show vdc</p> <p>show vdc current-vdc</p> <p>switchto vdc <vdc> where <i>vdc</i> is an active vdc that is listed when you enter the command, show vdc.</p> <p>show snmp</p> <p>dir <filesystem> where <i>filesystem</i> is bootflash, slot0, volatile, log, logflash, or system.</p> <p>show running-config</p> <p>show startup-config</p> <p>show module</p> <p>show interface brief</p> <p>show interface snmp-ifindex</p> <p>show ip access-lists</p> <p>show vlan</p> <p>show vtp status</p> <p>show spanning-tree summary</p> <p>show object-group</p> <p>show interface <interface> where <i>interface</i> is any interface that is listed when you enter the command, show running-config.</p> <p>show hsrp</p> <p>show vrrp</p> <p>show vtp</p> <p>show glbp</p> <p>show ip eigrp</p> <p>show ip route eigrp</p> <p>show ip ospf</p> <p>show ip route ospf</p> <p>show ip rip</p> <p>show ip route rip</p>

Table 15. Integration requirements for the Cisco Nexus adapter (continued)

Integration requirement	Description
Telemetry commands	<pre>terminal length 0 show hostname show vdc switchto vdc <vdc> where vdc is an active vdc that is listed when you enter the command, show vdc. show cdp entry all show interface brief show ip arp show mac address-table show ip route</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 subdevices of the Nexus device or as individual devices.

View Virtual Device Contexts

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

If you add VDCs as subdevices, they are not displayed in the topology. You can view the VDCs in the Configuration Monitor window.

Adding VDCs as subdevices of your Cisco Nexus device

Use Configuration Source Management to add VDCs as subdevices of your Cisco Nexus device.

Procedure

1. Enable the following commands for the user that is specified in the credentials:
 - show vdc (admin context)
 - switchto vdc *x*, where *x* is the VDC that is supported.

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

2. Use Configuration Source Management to add the *admin context* IP address of the Nexus device.

For more information, see “Adding a network device” on page 7.

Adding VDCs as individual devices

Use Configuration Source Manager to add each (virtual device context) 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 7.
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 3 permit command terminal
NexusDevice(config-role)# rule 4 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 following features are available with the Cisco Security Appliances adapter:

- Neighbor data support
- Static NAT
- SNMP discovery
- EIGRP and OSPF dynamic routing
- Static routing
- IPSEC tunneling
- Telnet and SSH connection protocols

The Cisco Security Appliances adapter collects device configurations by backing up Cisco family devices. The Cisco Security Appliances adapter supports the following firewalls:

- Cisco Adaptive Security Appliances (ASA) 5500 series
- Firewall Service Module (FWSM)
- Module in a Catalyst chassis
- Established Private Internet Exchange (PIX) device.

Note: Cisco ASA transparent contexts cannot be placed in the QRadar Risk Manager topology, and you cannot do path searches across these transparent contexts.

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

Table 16. Integration requirements for the Cisco Security Appliances adapter

Integration requirement	Description
Versions	ASA: 8.2, 8.4 to 9.1.7 PIX: 6.1, 6.3 FWSM: 3.1, 3.2
Minimum User Access Level	privilege level 5 You can back up devices with privilege level 5 access level. For example, you can configure a level 5 user that uses local database authentication by running the following commands: <pre> aaa authorization command LOCAL aaa authentication enable console LOCAL privilege cmd level 5 mode exec command terminal privilege cmd level 5 mode exec command changeto (multi-context only) privilege show level 5 mode exec command running-config privilege show level 5 mode exec command startup-config privilege show level 5 mode exec command version privilege show level 5 mode exec command shun privilege show level 5 mode exec command names privilege show level 5 mode exec command interface privilege show level 5 mode exec command pager privilege show level 5 mode exec command arp privilege show level 5 mode exec command route privilege show level 5 mode exec command context privilege show level 5 mode exec command mac-address-table </pre>
SNMP discovery	Matches PIX or Adaptive Security Appliance or Firewall Service Module in SNMP sysDescr.
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password Enable Password You can specify the enable level of the user that you configure to access the ASA device from QRadar Risk Manager. For example; use the enable username of level-5 to make the adapter run enable 5 to enter privileged mode, instead of the higher level enable mode.

Table 16. Integration requirements for the Cisco Security Appliances adapter (continued)

Integration requirement	Description
<p>Supported connection protocols</p> <p>To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>Use any one of the following supported connection protocols:</p> <p>Telnet</p> <p>SSH</p> <p>SCP</p>
<p>Required commands that the adapter requires to log in and collect data</p>	<pre> changeto context <context> changeto system show running-config show startup-config show arp show context show interface show mac-address-table show names show ospf neighbor show route show shun show version terminal pager 0 show interface detail show crypto ipsec sa show eigrp topology show eigrp neighbors show firewall </pre> <p>The <code>changeto context <context></code> command is used for each context on the ASA device.</p> <p>The <code>changeto system</code> command detects whether the system has <i>multi-context</i> configurations and determines the <i>admin-context</i>.</p> <p>The <code>changeto context</code> command is required if the <code>changeto system</code> command has a <i>multi-context</i> configuration or <i>admin-configuration</i> context.</p> <p>The <code>terminal pager</code> command is used to turn off paging behavior.</p>

F5 BIG-IP

IBM Security QRadar Risk Manager supports the F5 BIG-IP adapter.

The following features are available with the F5 BIG-IP adapter:

- Neighbor data support
- Dynamic NAT
- Static NAT
- SNMP discovery
- Static routing
- Telnet and SSH connection protocols

F5 BIG-IP load balancer appliances that run the Local Traffic Manager (LTM) are supported.

On the F5 BIG-IP device, you must configure the **Admin** role for the user name that QRadar Risk Manager uses for backup, and configure **Advanced Shell** for **Terminal Access**.

The following table describes the integration requirements for the F5 BIG-IP adapter.

Table 17. Integration requirements for the F5 BIG-IP adapter

Integration requirement	Description
Versions	10.1.1 11.4.1
SNMP discovery	Matches F5 BIG-IP in SNMP sysDescr
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	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 17. Integration requirements for the F5 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 17. Integration requirements for the F5 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>
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>

Fortinet FortiOS

IBM Security QRadar Risk Manager adapter for Fortinet FortiOS supports Fortinet FortiGate appliances that run the Fortinet operating system (FortiOS).

The following features are available with the Fortinet FortiOS adapter:

- Static NAT
- Static routing
- Telnet and SSH connection protocols

The Fortinet FortiOS adapter interacts with FortiOS over Telnet or SSH. The following list describes some limitations of QRadar Risk Manager and the Fortinet FortiOS adapter:

- Geography-based addresses and referenced policies are not supported by QRadar Risk Manager.
- Identity-based, VPN, and Internet Protocol Security policies are not supported by QRadar Risk Manager.
- Policies that use Unified Threat Management (UTM) profiles are not supported by the Fortinet FortiOS adapter. Layer 3 firewall policies only are supported.
- Policy Routes are not supported.
- Virtual Domains with Virtual Links that have partial IP addresses or no IP addresses are not supported.

The integration requirements for the Fortinet FortiOS adapter are described in following table:

Table 18. Integration requirements for the Fortinet FortiOS adapter

Integration Requirement	Description
Version	4.0 MR3 to 5.2.4
SNMP discovery	No
Required credential parameters To add credentials in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported connection protocols: Telnet SSH
User access level requirements	Read-write access for Fortinet firewalls that have VDOMs enabled Read-only access for Fortinet firewalls that don't have VDOMs enabled

Table 18. Integration requirements for the Fortinet FortiOS adapter (continued)

Integration Requirement	Description
Commands that the adapter requires to log in and collect data	<pre> config system console set output standard Note: The config system console and set output standard commands require a user with read/write access to system configuration. If you use a read-only user with pagination enabled when you back up a Fortigate device, the performance is impaired significantly. show system interface get hardware nic <variable> get system status get system performance status get router info routing-table static get test dnsproxy 6 show firewall addrgrp show firewall address show full-configuration get firewall service predefined <variable> show firewall service custom show firewall service group show firewall policy show system zone show firewall vip show firewall vipgrp show firewall ippool </pre>
Commands to use with VDOMs	<pre> config global to enter global configuration mode config vdom; edit <vdom-name> to switch between VDOMs </pre>

Generic SNMP adapter

IBM Security QRadar Risk Manager supports appliances that run an SNMP agent with the generic SNMP adapter.

This adapter interacts with the SNMP agent by using SNMP queries.

The object identifiers (OIDs) are contained in SNMP MIB-2, and you can expect all SNMP agents to expose these OIDs.

The following are adapter limitations:

- Collects basic interface and basic system information only. Rules and routing information are not collected.
- Even though displayed in the **Configuration Source Management** UI, with SNMPv3, the adapter does not support AES encryption.
- The adapter does not support AES encryption with SNMPv3, even though it might appear to support it in the Configuration Source Management window.

The integration requirements for the generic SNMP adapter are described in following table:

Integration Requirement	Description
Version	SNMPv1, SNMPv2c, SNMPv3
Neighbor data support	No
SNMP discovery	No
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	SNMPv1 and SNMPv2c require SNMP Get Community SNMPv3 requires SNMPv3 Authentication Username SNMPv3 can have either one of the following credentials: SNMPv3 Authentication Password SNMPv3 Privacy Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported connection protocols: SNMPv1 SNMPv2c SNMPv3 using MD5 SHA with DES

Integration Requirement	Description
Commands that the adapter requires to log in and collect data	SNMP Get commands
	.1.3.6.1.2.1.1.1.0
	.1.3.6.1.2.1.1.2.0
	.1.3.6.1.2.1.1.3.0
	.1.3.6.1.2.1.1.4.0
	.1.3.6.1.2.1.1.5.0
	.1.3.6.1.2.1.1.6.0
	SNMP Walk commands
	.1.3.6.1.2.1.2.2.1.2
	.1.3.6.1.2.1.2.2.1.3
	.1.3.6.1.2.1.2.2.1.4
	.1.3.6.1.2.1.2.2.1.5
	.1.3.6.1.2.1.2.2.1.6
	.1.3.6.1.2.1.2.2.1.7
.1.3.6.1.2.1.4.20	

HP Networking ProVision

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

The following features are available with the HP Networking ProVision adapter:

- Neighbor data support
- SNMP discovery
- RIP dynamic routing
- Telnet and SSH connection protocols

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

Table 19. Integration requirements for the HP Networking ProVision adapter

Integration requirement	Description
Versions	HP Networking ProVision Switches K/KA.15.X Restriction: HP switches that run a Comware operating system are not supported by this adapter.
SNMP discovery	Matches version numbers with the format HP(.*Switch(.*)(revision [A-Z]{1,2}\.(\d+)\.(\d+)) in sysDescr.

Table 19. Integration requirements for the HP Networking ProVision adapter (continued)

Integration requirement	Description
<p>Required credential parameters</p> <p>To add credentials in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>Username</p> <p>Password</p> <p>Enable Password</p>
<p>Supported connection protocols</p> <p>To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.</p>	<p>SSH</p>

Table 19. 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 <vlan id> show access-list show access-list <name or number> show access-list ports <port number> show config show filter show filter <id> show running-config show interfaces brief show interfaces <interface id> 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 <id or list> (for each spanning-tree that is configured on the device) show spanning-tree mst-config show system information show version show vlans show vlans <id> (for each vlan) show vrrp walkmib </pre>

Table 19. 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 <port number> show interfaces brief show interface show ip route show lldp info remote-device show lldp info remote-device <port number> 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 features are available with the Juniper Networks JUNOS adapter:

- Neighbor data support
- SNMP discovery
- OSPF dynamic routing
- Static routing
- Telnet and SSH connection protocols

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

Table 20. Integration requirements for the Juniper Networks JUNOS adapter

Integration requirement	Description
Versions	10.4 11.2 to 12.3 13.2
SNMP discovery	Matches SNMP sysOID: 1.3.6.1.4.1.2636
Required credential parameters To add credentials in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported 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 </pre>

Juniper Networks NSM

IBM Security QRadar Risk Manager adapter supports Juniper Networks NSM (Network and Security Manager).

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 (Network and Security Manager) console contains the configuration and device information for Juniper Networks routers and switches that are managed by the Juniper Networks NSM console.

You can use HTTPS and SOAP connection protocols with Juniper Networks NSM.

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

Table 21. QRadar Risk Manager adapter supported environments for Juniper Networks NSM

Supported environment	Description
Versions	IDP appliances that are managed by NSM (Network and Security Manager)
SNMP discovery	Not supported
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported connection protocols: SOAP HTTP

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 features are available with the Juniper Networks ScreenOS adapter:

- Neighbor data support
- Dynamic NAT
- Static NAT
- SNMP discovery
- Static routing
- Telnet and SSH connection protocols

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

Table 22. Integration requirements for the Juniper Networks ScreenOS adapter

Integration requirement	Description
Versions	5.4 6.2
SNMP discovery	Matches netscreen or SSG in SNMP sysDescr.
Required credential parameters	Username Password
Supported connection protocols	Use any one of the following supported connection protocols: Telnet SSH
Commands that the adapter requires to log in and collect data	set console page 0 get system get config get snmp get memory get file info get file get service get group address <i>zone group</i> get address

Table 22. Integration requirements for the Juniper Networks ScreenOS adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data (continued)	<p>get service group</p> <p>get service group <i>variable</i></p> <p>get interface</p> <p>get interface <i>variable</i></p> <p>get policy all</p> <p>get policy id <i>variable</i></p> <p>get admin user</p> <p>get route</p> <p>get arp</p> <p>get mac-learn</p> <p>get counter statistics interface <i>variable</i></p> <p>Where, <i>zone</i> is the zone data that is returned from the get config command.</p> <p><i>group</i> is the group data that is returned from the get config command.</p> <p><i>variable</i> is a list of returned data from a get service group, get interface, or get policy id command.</p>

Palo Alto

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

The following features are available with the Palo Alto adapter:

- Neighbor data support
- Dynamic NAT
- Static NAT
- SNMP discovery
- IPSEC Tunneling/VPN
- Applications
- User/Groups
- HTTPS connection protocol

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

Table 23. Integration requirements for the Palo Alto adapter

Integration requirement	Description
Versions	PAN-OS Versions 5.0 to 7.0

Table 23. Integration requirements for the Palo Alto adapter (continued)

Integration requirement	Description
Minimum user access level	Superuser (full access) Required for PA devices that have Dynamic Block Lists to perform system-level commands. Superuser (read-only) for all other PA devices.
SNMP discovery	SysDescr matches 'Palo Alto Networks(.*)series firewall' or sysOid matches 'panPA'
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	HTTPS
Required commands to use for the backup operation.	/api/?type=op&cmd=<show><system><info></info></system>/show> /api/?type=op&cmd=<show><config><running></running></config></show> /api/?type=op&cmd=<show><interface>all</interface></show>
Optional commands to use for the backup operation.	/api/?type=op&cmd=<show><system><resources></resources></system></show> /api/?type=op&cmd=/config/predefined/service /api/?type=op&cmd=<request><system><external-list><show><name>\$listName</name></show></external-list></system></request> where \$listName is a variable in this command, which is run multiple times. /api/?type=op&cmd=<show><object><dynamic-address-group><all></all></dynamic-address-group></object></show> /api/?type=config&action=get&xpath=/config/predefined/application
Required commands to use for telemetry and neighbor data.	/api/?type=op&cmd=<show><system><info></info></system></show> /api/?type=op&cmd=<show><interface>all</interface></show> /api/?type=op&cmd=<show><routing><interface></interface></routing></show>

Table 23. Integration requirements for the Palo Alto adapter (continued)

Integration requirement	Description
Optional commands to use for telemetry and neighbor data.	<pre>/api/?type=op&cmd=<show><counter><interface>all</interface></counter></show></pre> <pre>/api/?type=op&cmd=<show><arp>all</arp></show></p><p><show><mac>all</mac></show></pre> <pre>/api/?type=op&cmd=<show><arp>all</arp></show></pre> <pre>/api/?type=op&cmd=<show><routing><route></route></routing></show></pre>
Required commands to use for the GetApplication.	<pre>/api/?type=config&action=get&xpath=/config/predefined/application</pre>

Related tasks:

“Adding devices that are managed by the Palo Alto Panorama” on page 13
 Use Configuration Source Management to add devices from the Palo Alto Panorama to IBM Security QRadar Risk Manager.

Sidewinder

IBM Security QRadar Risk Manager supports McAfee Enterprise Firewall (Sidewinder) appliances that run SecureOS.

The following features are available with the Sidewinder adapter:

- Static NAT
- Static routing
- Telnet and SSH connection protocols

The Sidewinder adapter interacts with the CLI-based McAfee operating system (SecureOS) over Telnet or SSH.

Sidewinder adapter has the following limitations:

- Only Layer 3 firewall policies are supported because the Layer 7 policies that use Sidewinder application defenses are unsupported.
- Identity-based, geography-based, and IPv6 policies are dropped, because these policies are unsupported by QRadar Risk Manager.

The integration requirements for the Sidewinder adapter are described in the following table:

Table 24. Sidewinder adapter

Integration Requirement	Description
Supported versions	8.3.2
Minimum user access level	admin The admin user access level is required to retrieve predefined services information from the database by using the cf appdb list verbose=on command.
SNMP discovery	No
Required credential parameters	Username Password

Table 24. Sidewinder adapter (continued)

Integration Requirement	Description
Supported connection protocols	Use any one of the following supported connection protocols: SSH Telnet
Commands that the adapter requires to log in and collect data	hostname uname -r uptime cf license q cf route status cf ipaddr q cf iprange q cf subnet q cf domain q Use "dig \$address +noall +answer" for each domain output from: cf domain q cf host q cf netmap q cf netgroup q cf appdb list verbose=on cf application q cf appgroup q cf policy q cf interface q cf zone q

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 features are available with the Sourcefire 3D Sensor adapter:

- IPS
- SSH connection protocol

Limitations:

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

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

Table 25. Integration requirements for the Sourcefire 3D Sensor adapter

Integration requirement	Description
Versions	5.2
Supported 3D sensors (Series 2 devices)	3D500 3D1000 3D2000 3D2100 3D2500 3D3500 3D4500 3D6500 3D9900
SNMP discovery	No
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Username Password
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	SSH

Table 25. Integration requirements for the Sourcefire 3D Sensor adapter (continued)

Integration requirement	Description
Commands that the adapter requires to log in and collect data	<p>show version</p> <p>show memory</p> <p>show network</p> <p>show interfaces</p> <p>expert</p> <p>sudo</p> <p>su</p> <p>df</p> <p>hostname</p> <p>ip addr</p> <p>route</p> <p>cat</p> <p>find</p> <p>head</p> <p>mysql</p>

TippingPoint IPS adapter

IBM Security QRadar Risk Manager supports TippingPoint IPS (intrusion prevention system) appliances that run TOS and that are under SMS control.

The following features are available with the TippingPoint IPS adapter:

- IPS
- Telnet, SSH+HTTPS connection protocols

This adapter requires interaction with the following devices:

- IPS directly by using the TippingPoint operating system (TOS) over Telnet or SSH.
- TippingPoint Secure Management Server (SMS) via the web services API over HTTPS.

A connection to the TippingPoint SMS is required to get the most recent Digital Vaccines signatures, which are managed by the SMS.

This adapter works only with IPS devices under SMS control. The SMS web services must be enabled for a successful backup.

This list is limitations of the TippingPoint adapter:

- QRadar Risk Manager doesn't process source or destination IP addresses in IPS rules or filters. The following TippingPoint features are not supported:
 - Traffic management filters
 - Profile or filter exceptions and restrictions

- User-defined filters
- IPS filters without an associated CVE are not modeled because the IPS cannot be mapped to any QRadar vulnerabilities.

The integration requirements for the TippingPoint adapter are described in following table:

Table 26. TippingPoint IPS Adapter

Integration Requirement	Description
Supported Versions	TOS 3.6 and SMS 4.2
Minimum User Access Level	IPS: Operator SMS: Operator (custom) A user who belongs to a group with a <i>custom operator</i> role, that has Access SMS Web Services option enabled.
SNMP discovery	No
Required credential parameters To add credentials in QRadar log in as an administrator and use Configuration Source Management on the Admin tab.	Enter the following credentials: Username: <IPS CLI username> Password: <IPS CLI password> Enable Username: <SMS username> Enable Password: <SMS password>
Supported connection protocols To add protocols in QRadar, log in as an administrator and use Configuration Source Management on the Admin tab.	Use any one of the following supported connection protocols: Telnet for IPS CLI SSH for IPS CLI HTTPS for SMS
Commands that the adapter requires to log in and collect data	show config show version show interface show host show sms show filter \$filterNumber (for each signature found in Digital Vaccine)
API commands sent to the SMS to retrieve the most recent signatures	https://<sms_server>/dbAccess/tptDBServlet?method=DataDictionary&table=SIGNATURE&format=xml

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