IBM Security QRadar Risk Manager Version 7.2.4

Installation Guide



Note

Before using this information and the product that it supports, read the information in "Notices" on page 25.

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This document applies to IBM QRadar Security Intelligence Platform V7.2.4 and subsequent releases unless superseded by an updated version of this document.

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Introduction to installing IBM Security QRadar Risk Manager

This information is intended for use with IBM[®] Security QRadar[®] Risk Manager. QRadar Risk Manager is an appliance used to monitor device configurations, simulate changes to your network environment, and prioritize risks and vulnerabilities in your network.

This guide contains instructions for installing QRadar Risk Manager and adding QRadar Risk Manager as a managed host on IBM Security QRadar SIEM console.

QRadar Risk Manager appliances are preinstalled with software and a Red Hat Enterprise Linux operating system. You can also install QRadar Risk Manager software on your own hardware.

Intended audience

This guide is intended for network administrators that are responsible for installing and configuring QRadar Risk Manager systems in your network.

Administrators need a working knowledge of networking and Linux systems.

Technical documentation

For information about how to access more technical documentation, technical notes, and release notes, see Accessing IBM Security Documentation Technical Note (http://www.ibm.com/support/docview.wss?rs=0&uid=swg21612861).

Contacting customer support

For information about contacting customer support, see the Support and Download Technical Note (http://www.ibm.com/support/docview.wss?rs=0 &uid=swg21612861).

Statement of good security practices

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

Chapter 1. Prepare to install IBM Security QRadar Risk Manager

You can install an IBM Security QRadar Risk Manager appliance as a managed host on your IBM Security QRadar console. Only one QRadar Risk Manager can exist on a QRadar console.

As of version 7.1 of QRadar Risk Manager, QRadar console and QRadar Risk Manager use the same installation process and ISO for installation. For this reason, you can use the deployment editor in QRadar console to add QRadar Risk Manager to your deployment. A QRadar Risk Manager appliance installation includes the QRadar Risk Manager software and a Red Hat Enterprise Linux operating system.

Before you install

You must complete the installation process for an IBM Security QRadar console before you install IBM Security QRadar Risk Manager. As a best practice, install QRadar SIEM and QRadar Risk Manager on the same network switch.

For information about installing QRadar SIEM, including hardware and software requirements, see *IBM Security QRadar SIEM Installation Guide*.

Since IBM Security QRadar Risk Manager is a 64-bit appliance, make sure that you download the correct installation software for your operating system.

Identify network settings

You must gather information about your network settings before starting the installation process.

Gather the following information for your network settings:

- Host name
- IP address
- Network mask address
- Subnet mask
- Default gateway address
- · Primary Domain Name System (DNS) server address
- · Secondary DNS server (optional) address
- Public IP address for networks that use Network Address Translation (NAT) email server name
- Email server name
- Network Time Protocol (NTP) server (Console only) or time server name

Configure port access on firewalls

Firewalls between the IBM Security QRadar console and IBM Security QRadar Risk Manager must allow traffic on certain ports.

Ensure that any firewall located between the QRadar SIEM console and QRadar Risk Manager allows traffic on the following ports:

- Port 443 (HTTPS)
- Port 22 (SSH)
- Port 37 UDP (Time)

Unsupported features in QRadar Risk Manager

It is important to be aware of the features that are not supported by IBM Security QRadar Risk Manager.

The following features are not supported in QRadar Risk Manager:

- High availability (HA)
- Dynamic Routing for Border Gateway Protocol (BGP), Open Shortest Path First (OSPF), or Routing Information Protocol (RIP)
- IPv6
- Non-contiguous network masks
- Load-balanced routes
- Reference maps
- Store and Forward

Additional hardware requirements

Additional hardware is required before you can install IBM Security QRadar Risk Manager.

Before you install IBM QRadar Risk Manager systems, you need access to the following hardware components:

- monitor and keyboard or a serial console
- Uninterrupted Power Supply (UPS)

QRadar Risk Manager appliances or systems that are running QRadar Risk Manager software that store data must be equipped with an Uninterrupted Power Supply (UPS). Using a UPS ensures that your QRadar Risk Manager data, such as consoles, event processors, and QFlow Collectors, is preserved during a power failure.

Additional software requirements

Additional software is required before you can install IBM Security QRadar Risk Manager.

The following software must be installed on the desktop system that you use to access the QRadar Risk Manager user interface:

- Java[™] runtime environment
- · Adobe Flash, version 10 or higher

Supported web browsers

For the features in IBM Security QRadar products to work properly, you must use a supported web browser.

When you access the QRadar system, you are prompted for a user name and a password. The user name and password must be configured in advance by the administrator.

The following table lists the supported versions of web browsers.

Table 1. Supported web browsers for QRadar products

Web browser	Supported versions
Mozilla Firefox	17.0 Extended Support Release
	24.0 Extended Support Release
32-bit Microsoft Internet Explorer, with document mode and browser mode enabled	9.0 10.0
Google Chrome	The current version as of the release date of IBM Security QRadar V7.2.4 products

Enabling document mode and browser mode in Internet Explorer

If you use Microsoft Internet Explorer to access IBM Security QRadar products, you must enable browser mode and document mode.

- 1. In your Internet Explorer web browser, press F12 to open the Developer Tools window.
- 2. Click Browser Mode and select the version of your web browser.
- 3. Click Document Mode.
 - For Internet Explorer V9.0, select Internet Explorer 9 standards.
 - For Internet Explorer V10.0, select Internet Explorer 10 standards.

Chapter 2. Install IBM Security QRadar Risk Manager appliances

An IBM Security QRadar Risk Manager deployment includes an IBM Security QRadar console and QRadar Risk Manager appliance as a managed host.

Installing QRadar Risk Manager involves the following steps:

- 1. Preparing your appliance.
- 2. Installing QRadar Risk Manager.
- 3. Adding QRadar Risk Manager to QRadar.

Preparing your appliance

You must prepare your appliance before you install an IBM Security QRadar Risk Manager appliance.

Before you begin

You must install all necessary hardware and you need an activation key. The activation key is a 24-digit, four-part, alphanumeric string that you receive from IBM. You can find the activation key:

- Printed on a sticker and physically placed on your appliance.
- Included with the packing slip; all appliances are listed along with their associated keys.

To avoid typing errors, the letter I and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

If you do not have an activation key for your QRadar Risk Manager appliance, contact customer support (http://www.ibm.com/support).

For information about your appliance, see the *IBM Security QRadar Hardware Installation Guide*.

- 1. Choose one of the following options:
 - Connect a notebook to the serial port on the rear of the appliance.
 - If you use a notebook to connect to the system, you must use a terminal program, such as HyperTerminal, to connect to the system. Make sure that you set **Connect Using** to the appropriate COM port of the serial connector and **Bits per second** to 9600. You must also set **Stop Bits** (1), **Data bits** (8), and **Parity** (None).
 - Connect a keyboard and monitor to their respective ports.
- 2. Power on the system and login. The username, which is case-sensitive, is root.
- 3. Press Enter.
- 4. Read the information in the window. Press the Spacebar to advance each window until you reach the end of the document.
- 5. Type yes to accept the agreement, and then press Enter.
- 6. Type your activation key and press Enter.

Access the IBM Security QRadar Risk Manager user interface

IBM Security QRadar Risk Manager uses default login information for the URL, user name, and password.

You access IBM Security QRadar Risk Manager through the QRadar console. Use the information in the following table when you log in to your IBM Security QRadar console.

Login information	Default
URL	https:// <ip address="">, where <ip address=""> is the IP address of the QRadar console.</ip></ip>
User name	admin
Password	The password that is assigned to QRadar Risk Manager during the installation process.
License key	A default license key provides access to the system for 5 weeks.

Table 2. Default login information for QRadar Risk Manager

Network parameter information for IPv4

Network information for Internet Protocol version 4 (IPv4) network settings is required when you install IBM Security QRadar Risk Manager or when you change network settings.

Network information is required when you install or reinstall IBM Security QRadar Risk Manager, or when you need to change network settings.

The Public IP network setting is optional. This secondary IP address is used to access the server, usually from a different network or the Internet, and is managed by your network administrator. The Public IP address is often configured using the Network Address Translation (NAT) services on your network or firewall settings on your network. NAT translates an IP address in one network to a different IP address in another network.

Installing IBM Security QRadar Risk Manager

You can install IBM Security QRadar Risk Manager after you prepare your appliance.

Before you begin

You must complete the preparation steps before you install QRadar Risk Manager.

- 1. Select normal for the type of setup. Select Next and press Enter.
- 2. Select your time zone continent or area. Select Next and press Enter.
- 3. Select your time zone region. Select Next and press Enter.
- 4. Select an Internet Protocol version. Select Next and press Enter.
- 5. Select the interface that you want to specify as the management interface. Select **Next** and press Enter.

- 6. Type your hostname, IP address, network mask, gateway, primary DNS, secondary DNS, public IP, and email server. For network parameter information, see "Network parameter information for IPv4" on page 6.
- 7. Select Next and press Enter.
- 8. Type a password to configure the QRadar Risk Manager root password.
- 9. Select Next and press Enter.
- **10**. Retype your new password to confirm. Select **Finish** and press Enter. This process typically takes several minutes.

What to do next

Use the deployment editor to add QRadar Risk Manager as a managed host to your QRadar console.

Adding QRadar Risk Manager to QRadar console

You must add IBM Security QRadar Risk Manager as a managed host to IBM Security QRadar console.

Before you begin

If you want to enable compression, then the minimum version for each managed host must be QRadar console 7.1 or QRadar Risk Manager 7.1.

To add a non-NATed managed host to your deployment when the Console is NATed, you must change the QRadar console to a NATed host. You must change the console before you add the managed host to your deployment. For more information, see the *IBM Security QRadar SIEM Administration Guide*.

- 1. Open your web browser.
- 2. Type the URL, https://<IP Address>, where <IP Address> is the IP address of the QRadar console.
- **3**. Type your user name and password.
- 4. On the Admin tab, click Deployment Editor.
- 5. From the menu, select Actions, and then select Add a Managed Host.
- 6. Click Next.
- 7. Enter values for the following parameters:

Option	Description
Enter the IP of the server or appliance to add	The IP address of QRadar Risk Manager.
Enter the root password of the host	The root password for the host.
Confirm the root password of the host	Confirmation for your password.
Host is NATed	To enable NAT for a managed host, the NATed network must be using static NAT translation. For more information, see the <i>IBM Security QRadar SIEM Administration Guide</i> .

Option	Description
Enable Encryption	Creates an SSH encryption tunnel for the host. To enable encryption between two managed hosts, each managed host must be running QRadar console 7.1 or QRadar Risk Manager 7.1.
Enable Compression	Enables data compression between two managed hosts.

- 8. Choose one of the following options:
 - If you selected the **Host is NATed** check box, then you must enter values for the NAT parameters.

Option	Description
Enter public IP of the server or appliance to add	The public IP address of the managed host. The managed host uses this IP address to communicate with other managed hosts in different networks that use NAT.
Select NATed network	The network that you want this managed host to use. If the managed host is on the same subnet as the QRadar console, select the console of the NATed network.
	If the managed host is not on the same subnet as the QRadar console, select the managed host of the NATed network.

- If you did not select the Host is NATed check box, click Next.
- **9**. Click **Finish**. This process can take several minutes to complete. If your deployment includes changes, then you must deploy all changes.
- 10. Click **Deploy**.

What to do next

Clear your web browser cache and then log in to QRadar console. The **Risks** tab is now available.

Clearing web browser cache

You must clear the web browser cache before you can access the **Risks** tab in QRadar console.

Before you begin

Ensure that only one web browser is open. If you have multiple browsers open, the cache can fail to clear properly.

If you are using a Mozilla Firefox web browser, you must clear the cache in your Microsoft Internet Explorer web browser too.

Procedure

1. Open your web browser.

2. Clear your web browser cache. For instructions, see your web browser documentation.

Risk Manager user role

You must assign the Risk Manager user role for users that require access to the **Risks** tab.

A user account defines the default password, and email address for a user. You need to assign a user role and security profile for each new user account.

Before you can allow access to IBM Security QRadar Risk Manager functionality to other users in your organization, you must assign the appropriate user role permissions. By default, QRadar console provides a default administrative role, which provides access to all areas of QRadar Risk Manager.

For information about creating and managing user roles, see the *IBM Security QRadar SIEM Administration Guide*.

Assigning the Risk Manager user role

You can assign the Risk Manager user role to users that need access to the **Risk** tab.

Procedure

- 1. Click the **Admin** tab.
- 2. On the navigation menu, click System Configuration.
- 3. In the User Management pane, click the User Roles icon.
- 4. Click the Edit icon next to the user role you want to edit.
- 5. Select the Risk Manager check box.
- 6. Click Next. If you add Risk Manager to a user role that has Log Activity permission, then you must define the log sources that the user role can access. You can add an entire log source group by clicking the Add icon in the Log Source Group pane. You can select multiple log sources by holding the Control key while you select each log source you want to add.
- 7. Click Return.
- 8. From the Admin tab menu, click Deploy Changes.

Troubleshoot the Risks tab

You can troubleshoot if the Risks tab does not display properly or is inaccessible.

When the Risks tab is not displaying properly or is inaccessible, you remove and read IBM Security QRadar Risk Manager as a managed host.

Removing a managed host

You can remove your IBM Security QRadar Risk Manager managed host from IBM Security QRadar console to change network settings or if there is a problem with the **Risks** tab.

Procedure

1. Open your web browser.

- Type the URL https://<IP Address>, where <IP Address> is the IP address of the QRadar console.
- 3. Type your user name and password.
 - For default login information, see Table 2 on page 6.
- 4. On the Admin tab, click Deployment Editor.
- 5. Click the System View tab.
- 6. Right-click the managed host that you want to delete and select **Delete**. Repeat for each non-Console managed host until all hosts are deleted.
- 7. Click Save.
- 8. Close the deployment editor.
- 9. On the Admin tab, click Deploy Changes.

Reading QRadar Risk Manager as a managed host

You can read QRadar Risk Manager as a managed host after it is removed.

- 1. Open your web browser.
- 2. Type the URL https://<IP Address>, where <IP Address> is the IP address of the QRadar console.
- Type your user name and password.
 For default login information, see Table 2 on page 6.
- 4. On the Admin tab, click Deployment Editor.
- 5. Click the **System View** tab.
- 6. From the menu, select Actions > Add a managed host.
- 7. Click Next.
- 8. Enter values in the Add new managed host window.
- 9. Click Next.
- **10**. Click **Finish**. The process of adding QRadar Risk Manager can take several minutes to complete.
- 11. Close the deployment editor.
- 12. On the Admin tab, click Deploy Changes.

Chapter 3. USB flash drive installations

You can install IBM Security QRadar software with a USB flash drive.

USB flash drive installations are full product installations. You cannot use a USB flash drive to upgrade or apply product patches. For information about applying fix packs, see the fix pack Release Notes.

Supported versions

The following appliances or operating systems can be used to create a bootable USB flash drive:

- A QRadar v7.2.1 appliance or later
- A Linux system that is installed with Red Hat Enterprise Linux 6.4
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 2008
- Microsoft Windows 2008R2

Installation overview

Follow this procedure to install QRadar software from a USB flash drive:

- 1. Create the bootable USB flash drive.
- 2. Install the software for your QRadar appliance.
- 3. Install any product maintenance releases or fix packs.

See the Release Notes for installation instructions for fix packs and maintenance releases.

Creating a bootable USB flash drive with a QRadar appliance

You can use an IBM Security QRadar V7.2.1 or later appliance to create a bootable USB flash drive that can be used to install QRadar software.

Before you begin

Before you can create a bootable USB flash drive from a QRadar appliance, you must have access to the following items:

- A 2 GB USB flash drive
- A QRadar V7.2.1 or later ISO image file
- A physical QRadar appliance

If your QRadar appliance does not have Internet connectivity, you can download the QRadar ISO image file to a desktop computer or another QRadar appliance with Internet access. You can then copy the ISO file to the QRadar appliance where you install the software.

When you create a bootable USB flash drive, the contents of the flash drive are deleted.

Procedure

- 1. Download the QRadar ISO image file.
 - a. Access the IBM Support website (www.ibm.com/support).
 - b. Locate the IBM Security QRadar ISO file that matches the version of the QRadar appliance.
 - c. Copy the ISO image file to a /tmp directory on your QRadar appliance.
- 2. Using SSH, log in to your QRadar system as the root user.
- Insert the USB flash drive in the USB port on your QRadar system.
 It might take up to 30 seconds for the system to recognize the USB flash drive.
- Type the following command to mount the ISO image: mount -o loop /tmp/<name of the ISO image>.iso /media/cdrom
- 5. Type the following commend to copy the USB creation script from the mounted ISO to the /tmp directory.

cp /media/cdrom/post/create-usb-key.py /tmp/

- Type the following command to start the USB creation script: /tmp/create-usb-key.py
- 7. Press Enter.
- Press 1 and type the path to the ISO file. For example, /tmp/<name of the iso image>.iso
- 9. Press 2 and select the drive that contains your USB flash drive.
- 10. Press 3 to create your USB key.

The process of writing the ISO image to your USB flash drive takes several minutes to complete. When the ISO is loaded onto the USB flash drive, a confirmation message is displayed.

- 11. Press q to quit the USB key script.
- 12. Remove the USB flash drive from your QRadar system.
- 13. To free up space, remove the ISO image file from the /tmp file system.

What to do next

If your connection to the appliance is a serial connection, see Configuring a flash drive for serial only appliances.

If your connection to the appliance is keyboard and mouse (VGA), see Installing QRadar with a USB flash drive.

Creating a bootable USB flash drive with Microsoft Windows

You can use a Microsoft Windows desktop or notebook system to create a bootable USB flash drive that can be used to install QRadar software.

Before you begin

Before you can create a bootable USB flash drive with a Microsoft Windows system, you must have access to the following items:

- A 2 GB USB flash drive
- A desktop or notebook system with one the following operating systems:
 - Windows 7
 - Windows Vista

- Windows 2008
- Windows 2008R2

You must download the following files from the IBM Support website (www.ibm.com/support).

- QRadar V7.2.1 or later Red Hat 64-bit ISO image file
- Create-USB-Install-Key (CUIK) tool.

You must download the following files from the Internet.

- PeaZip Portable 4.8.1
- SYSLINUX 4.06

Tip: Search the web for Peazip Portal v4.8.1 and Syslinux to find the download files.

When you create a bootable USB flash drive, the contents of the flash drive are deleted.

Procedure

- 1. Extract the Create-USB-Install-Key (CUIK) tool to the c:\cuik directory.
- 2. Copy the .zip files for PeaZip Portable 4.8.1 and SYSLINUX 4.06 to the cuik\deps folder.

For example, c:\cuik\deps\peazip_portable-4.8.1.WINDOWS.zip and c:\cuik\deps\syslinux-4.06.zip.

You do not need to extract the .zip files. The files need only to be available in the cuik/deps directory.

- 3. Insert the USB flash drive into the USB port on your computer.
- 4. Verify that the USB flash drive is listed by drive letter and that it is accessible in Microsoft Windows.
- 5. Right-click on c:\cuik\cuik.exe, select Run as administrator, and press Enter.
- 6. Press 1, select the QRadar ISO file, and click **Open**.
- 7. Press 2 and select the number that corresponds to the drive letter assigned to your USB flash drive.
- 8. Press 3 to create the USB flash drive.
- **9**. Press **Enter** to confirm that you are aware that the contents of the USB flash drive will be deleted.
- **10**. Type create to create a bootable USB flash drive from the ISO image. This process takes several minutes.
- 11. Press Enter, and then type q to exit the Create_USB_Install_Key tool.
- 12. Safely eject the USB flash drive from your computer.

What to do next

If your connection to the appliance is a serial connection, see Configuring a flash drive for serial only appliances.

If your connection to the appliance is keyboard and mouse (VGA), see Installing QRadar with a USB flash drive.

Creating a bootable USB flash drive with Red Hat Linux

You can use a Linux desktop or notebook system with Red Hat v6.3 to create a bootable USB flash drive that can be used to install IBM Security QRadar software.

Before you begin

Before you can create a bootable USB flash drive with a Linux system, you must have access to the following items:

- A 2 GB USB flash drive
- A QRadar V7.2.1 or later ISO image file
- A Linux system that has the following software installed:
 - Red Hat 6.4
 - Python 6.2 or later

When you create a bootable USB flash drive, the contents of the flash drive are deleted.

Procedure

- 1. Download the QRadar ISO image file.
 - a. Access the IBM Support website (www.ibm.com/support).
 - b. Locate the IBM Security QRadar ISO file.
 - c. Copy the ISO image file to a /tmp directory on your QRadar appliance.
- 2. Update your Linux- based system to include these packages.
 - syslinux
 - mtools
 - dosfstools
 - parted

For information about the specific package manager for your Linux system, see the vendor documentation.

- **3**. Log in to your QRadar system as the root user.
- Insert the USB flash drive in the front USB port on your system.
 It might take up to 30 seconds for the system to recognize the USB flash drive.
- Type the following command to mount the ISO image: mount -o loop /tmp/<name of the ISO image>.iso /media/cdrom
- 6. Type the following command to copy the USB creation script from the mounted ISO to the /tmp directory.

cp /media/cdrom/post/create-usb-key.py /tmp/

- Type the following command to start the USB creation script: /tmp/create-usb-key.py
- 8. Press Enter.
- Press 1 and type the path to the ISO file. For example, /tmp/Rhe664QRadar7_2_4_<build>.iso
- 10. Press 2 and select the drive that contains your USB flash drive.
- 11. Press 3 to create your USB key.

The process of writing the ISO image to your USB flash drive takes several minutes to complete. When the ISO is loaded onto the USB flash drive, a confirmation message is displayed.

- 12. Press q to quit the USB key script.
- 13. Remove the USB flash drive from your system.

What to do next

If your connection to the appliance is a serial connection, see Configuring a flash drive for serial only appliances.

If your connection to the appliance is keyboard and mouse (VGA), see Installing QRadar with a USB flash drive.

Configuring a USB flash drive for serial-only appliances

You must complete an extra configuration step before you can use the bootable USB flash drive to install QRadar software on serial-only appliances.

About this task

This procedure is not required if you have a keyboard and mouse that is connected to your appliance.

Procedure

- 1. Insert the bootable USB flash drive into the USB port of your appliance.
- 2. On your USB flash drive, locate the syslinux.cfg file.
- **3**. Edit the syslinux configuration file to change the default installation from default linux to default serial.
- 4. Save the changes to the syslinux configuration file.

What to do next

You are now ready to install QRadar with the USB flash drive.

Installing QRadar with a USB flash drive

Follow this procedure to install QRadar from a bootable USB flash drive.

Before you begin

You must create the bootable USB flash drive before you can use it to install QRadar software.

About this task

This procedure provides general guidance on how to use a bootable USB flash drive to install QRadar software.

The complete installation process is documented in the product Installation Guide.

- 1. Install all necessary hardware.
- 2. Choose one of the following options:
 - Connect a notebook to the serial port at the back of the appliance.
 - Connect a keyboard and monitor to their respective ports.

- **3**. Insert the bootable USB flash drive into the USB port of your appliance.
- 4. Restart the appliance.

Most appliances can boot from a USB flash drive by default. If you are installing QRadar software on your own hardware, you might have to set the device boot order to prioritize USB.

After the appliance starts, the USB flash drive prepares the appliance for installation. This process can take up to an hour to complete.

- 5. When the **Red Hat Enterprise Linux** menu is displayed, select one of the following options:
 - If you connected a keyboard and monitor, select **Install or upgrade using VGA console**.
 - If you connected a notebook with a serial connection, select **Install or upgrade using Serial console**.
- 6. Type SETUP to begin the installation.
- 7. When the login prompt is displayed, type root to log in to the system as the root user.

The user name is case-sensitive.

8. Press Enter and follow the prompts to install QRadar.

The complete installation process is documented in the product Installation Guide.

Chapter 4. Reinstall IBM Security QRadar Risk Manager from the recovery partition

When you reinstall IBM Security QRadar Risk Manager from the IBM Security QRadar console ISO on the recovery partition, your system is restored back to factory default configuration. This means that your current configuration and data files are overwritten.

This information applies to new QRadar Risk Manager installations or upgrades from new QRadar Risk Manager installations on QRadar Risk Manager appliances. When you install QRadar Risk Manager, the installer (QRadar console ISO) is copied into the recovery partition. From this partition, you can reinstall QRadar Risk Manager, which restores QRadar Risk Manager to factory defaults.

Note: If you upgrade your software after you install QRadar Risk Manager, then the ISO file is replaced with the newer version.

When you reboot your QRadar Risk Manager appliance, you are presented with the option to reinstall the software. Since QRadar console and QRadar Risk Manager use the same ISO installation file, the QRadar console ISO name displays.

If you do not respond to the prompt after 5 seconds, the system reboots as normal, which maintains your configuration and data files. If you choose to reinstall QRadar console ISO, a warning message is displayed and you must confirm that you want to reinstall the software. After confirmation, the installer runs and you can follow the prompts through the installation process.

After a hard disk failure, you cannot reinstall from the recovery partition because it is no longer available. If you experience a hard disk failure, contact customer support for assistance.

Reinstalling QRadar Risk Manager by using Factory re-install

You can reboot and reinstall your QRadar Risk Manager appliance using the factory reinstall option.

Before you begin

Ensure that you have your activation key, which is a 24-digit, four-part, alphanumeric string that you receive from IBM. You can find the key:

- Printed on a sticker and physically placed on your appliance.
- Included with the packing slip; appliances are listed along with their associated keys.

To avoid typing errors, the letter I and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

If you do not have an activation key for your QRadar Risk Manager appliance, contact customer support (http://www.ibm.com/support).

Software activation keys do not require serial numbers.

Procedure

- 1. Reboot your QRadar Risk Manager appliance.
- 2. Select Factory re-install.
- **3.** Type flatten to continue. The hard disk is partitioned and reformatted, the OS is installed, and then QRadar Risk Manager is reinstalled. You must wait for the flatten process to complete. This process can take up to several minutes, depending on your system.
- 4. Type SETUP.
- 5. Log in to QRadar Risk Manager as the root user.
- 6. Read the information in the window. Press the Spacebar to advance each window until you reach the end of the document. Type yes to accept the agreement, and then press Enter.
- 7. Type your activation key and press Enter.
- 8. Select **normal** for the type of setup. Select **Next** and press Enter.
- 9. Select your time zone continent or area. Select Next and press Enter.
- 10. Select your time zone region. Select Next and press Enter.
- 11. Select an Internet Protocol version. Select Next and press Enter.
- 12. Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- **13.** Enter information for your hostname, IP address, network mask, gateway, primary DNS, secondary DNS, public IP, and email server. For network information, see "Network parameter information for IPv4" on page 6.
- 14. Type your password to configure the QRadar Risk Manager root password.
- 15. Select Next and press Enter.
- **16**. Retype your new password to confirm. Select **Finish** and press Enter. This process typically takes several minutes.
- 17. Press Enter to select OK.
- 18. Press Enter to select OK.

What to do next

Use the deployment editor to add QRadar Risk Manager as a managed host to your QRadar console.

Chapter 5. Change network settings

You can change the network settings of an IBM Security QRadar Risk Manager appliance that is attached to an IBM Security QRadar console.

If you need to change the network settings, then you must complete these tasks in the following order:

- 1. Remove QRadar Risk Manager as a managed host.
- 2. Change network settings.
- 3. Read QRadar Risk Manager as a managed host.

Removing a managed host

You can remove your IBM Security QRadar Risk Manager managed host from IBM Security QRadar console to change network settings or if there is a problem with the **Risks** tab.

Procedure

- 1. Open your web browser.
- Type the URL https://<IP Address>, where <IP Address> is the IP address of the QRadar console.
- 3. Type your user name and password.
- For default login information, see Table 2 on page 6.
- 4. On the Admin tab, click Deployment Editor.
- 5. Click the **System View** tab.
- 6. Right-click the managed host that you want to delete and select **Delete**. Repeat for each non-Console managed host until all hosts are deleted.
- 7. Click Save.
- 8. Close the deployment editor.
- 9. On the Admin tab, click Deploy Changes.

Changing network settings

You can change the network settings of an IBM Security QRadar Risk Manager appliance that is attached to an IBM Security QRadar console.

Before you begin

You must remove the QRadar Risk Manager managed host from QRadar console before you change the network settings.

- 1. Using SSH, log in to QRadar Risk Manager as the root user.
- 2. Type the command, qchange_netsetup.
- **3.** Select an Internet Protocol version. Select **Next** and press Enter. Depending on your hardware configuration, the window displays up to a maximum of four interfaces. Each interface with a physical link is denoted with a plus (+) symbol.

- 4. Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- 5. Enter information for your hostname, IP address, network mask, gateway, primary DNS, secondary DNS, public IP, and email server. For network information, see "Network parameter information for IPv4" on page 6.
- 6. Type your password to configure the QRadar Risk Manager root password.
- 7. Select Next and press Enter.
- **8**. Retype your new password to confirm. Select **Finish** and press Enter. This process typically takes several minutes.

Reading QRadar Risk Manager as a managed host

You can read QRadar Risk Manager as a managed host after it is removed.

- 1. Open your web browser.
- 2. Type the URL https://<IP Address>, where <IP Address> is the IP address of the QRadar console.
- Type your user name and password.
 For default login information, see Table 2 on page 6.
- 4. On the Admin tab, click Deployment Editor.
- 5. Click the System View tab.
- 6. From the menu, select Actions > Add a managed host.
- 7. Click Next.
- 8. Enter values in the Add new managed host window.
- 9. Click Next.
- **10**. Click **Finish**. The process of adding QRadar Risk Manager can take several minutes to complete.
- 11. Close the deployment editor.
- 12. On the Admin tab, click Deploy Changes.

Chapter 6. Data back up and restore

You can use a command-line interface (CLI) script to back up data that is stored on IBM Security QRadar console managed hosts.

You can use the CLI script to restore IBM Security QRadar Risk Manager after a data failure or hardware failure on the appliance.

A backup script is included in QRadar Risk Manager, which can be scheduled by using crontab. The script automatically creates a daily archive of QRadar Risk Manager data at 3:00 AM. By default, QRadar Risk Manager keeps the last five backups. If you have network or attached storage, you must create a cron job to copy QRadar Risk Manager back archives to a network storage location.

The backup archive includes the following data:

- QRadar Risk Manager device configurations
- Connection data
- · Topology data
- Policy Monitor questions
- QRadar Risk Manager database tables

For information about migrating from QRadar Risk Manager Maintenance Release 5 to this current release, see the *IBM Security QRadar Risk Manager Migration Guide*.

Prerequisites for backing up and restoring data

You must understand how data is backed up, stored, and archived before you back up and restore your data.

Data backup location

Data is backed up in the /store/qrm_backups local directory. Your system might include a mount /store/backup from an external SAN or NAS service. External services provide long term offline retention of data. Long-term storage might be required for compliance regulations, such as Payment Card Industry (PCI) standards.

Appliance version

The version of the appliance that created the backup in the archive is stored. A backup can only be restored in a QRadar Risk Manager appliance if it is the same version.

Data backup frequency and archival information

Daily data backups are created at 3:00 AM. Only the last five backup files are stored. A backup archive is created if there is enough free space on QRadar Risk Manager.

Format of backup files

Use the following format to save backup files: backup-<target date>-<timestamp>.tgz

Where:

<target date> is the date that the backup file was created.

The format of the target date is <day>_<month>_<year>. <timestamp> is the time that the backup file was created. The format of the timestamp is <hour>_<minute>_<second>.

Backing up your data

Automatic backup occurs daily, at 3:00 AM, or you can start the backup process manually.

Procedure

- 1. Using SSH, log in your QRadar console as the root user.
- 2. Using SSH from the QRadar console, log in to QRadar Risk Manager as the root user.
- Start a QRadar Risk Manager backup by typing /opt/qradar/bin/dbmaint/ risk_manager_backup.sh

Results

The script that is used to start the backup process might take several minutes to start.

After the script completes the backup process, the following message is displayed:

```
Tue Sep 11 10:14:41 EDT 2012
- Risk Manager Backup complete,
wrote /store/qrm_backups/backup-2012-09-11-10-14-39.tgz
```

Restoring data

You can use a restore script to restore data from a QRadar Risk Manager backup.

Before you begin

The QRadar Risk Manager appliance and the backup archive must be the same version of QRadar Risk Manager. If the script detects a version difference between the archive and the QRadar Risk Manager managed host, an error is displayed.

About this task

Use the restore script to specify the archive that you are restoring to QRadar Risk Manager. This process requires you to stop services on QRadar Risk Manager. Stopping services logs off all QRadar Risk Manager users and stops multiple processes.

The following table describes the parameters that you can use to restore a backup archive.

Option	Description
-f	Overwrites any existing QRadar Risk Manager data on your system with the data in the restore file. Selecting this parameter allows the script to overwrite any existing device configurations in Configuration Source Management with the device configurations from the backup file.
-w	Do not delete directories before you restore QRadar Risk Manager data.
-h	The help for the restore script.

Table 3. Parameters used to restore a backup archive to QRadar Risk Manager

Procedure

- 1. Using SSH, log in your QRadar SIEM console as the root user.
- 2. Using SSH from the QRadar SIEM console, log in to QRadar Risk Manager as the root user.
- 3. Stop hostcontext by typing service hostcontext stop.
- 4. Type the following command to restore a backup archive to QRadar Risk Manager: /opt/qradar/bin/risk_manager_restore.sh -r /store/qrm_backups/ <backup>. Where <backup> is the QRadar Risk Manager archive you want to restore.

For example, backup-2012-09-11-10-14-39.tgz.

5. Start hostcontext by typing service hostcontext start.

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