

IBM Security QRadar Log Manager
Version 7.1.0 MR1

Installation Guide



Note: Before using this information and the product that it supports, read the information in [“Notices and Trademarks”](#) on page 51.

CONTENTS

ABOUT THIS GUIDE

Intended Audience	1
Documentation Conventions	1
Technical Documentation	1
Contacting Customer Support	2

1 PREPARING FOR YOUR INSTALLATION

QRadar Log Manager Deployments	3
Additional Hardware Requirements	4
Additional Software Requirements	5
Supported Browsers	5
Identifying Network Settings	6
Preparing Your Network Hierarchy	7
Identifying Security Monitoring Log Sources	7
Preparing For HA	8
Using the Installation Wizard	9
Accessing the QRadar Log Manager User Interface	9

2 INSTALLING QRADAR LOG MANAGER APPLIANCES

Installing a QRadar Log Manager Appliance (Consoles)	11
Installing a QRadar Log Manager 1605 Appliance	14

3 INSTALLING AND RECOVERING HIGH AVAILABILITY (HA) QRADAR LOG MANAGER APPLIANCES

Before You Begin	17
Installing a Secondary HA QRadar Log Manager Appliance	18
Recovering a Failed Primary HA QRadar Log Manager Appliance	20
Recovering a Failed Primary HA QRadar Log Manager 1605 Appliance	24
Recovering a Failed Secondary HA Host to the QRadar Log Manager 7.1 (MR1)	26
Recovering a QRadar Log Manager Secondary HA Host to a Previous Version or Factory Default	27

4 INSTALLING A VIRTUAL APPLIANCE

Before You Begin	29
Preparing Your Virtual Machine for QRadar SIEM Installation	30

Installing QRadar Log Manager Software on Your Virtual Machine	31
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5 CHANGING NETWORK SETTINGS

Changing Network Settings in an All-in-One Console	35
Changing the Network Settings of a Console in a Multi-System Deployment	37
Changing the Network Settings of a Non-Console in a Multi-System Deployment	40
Updating Network Settings after a NIC Replacement	43

6 RE-INSTALLING QRADAR LOG MANAGER FROM THE RECOVERY PARTITION

Preparing for Re-installation from a Recovery Partition	46
Re-installing a QRadar Log Manager Appliance	47
Re-installing a QRadar Log Manager 1605 Appliance	49

A NOTICES AND TRADEMARKS

Notices	51
Trademarks	53

INDEX

ABOUT THIS GUIDE

The *IBM Security QRadar Log Manager Installation Guide* provides you with information on installing QRadar Log Manager 7.1.0 (MR1). QRadar Log Manager appliances are pre-installed with software and a Red Hat Enterprise Linux version 6.3 operating system; however, you can install QRadar Log Manager software on your own hardware. This guide assumes a working knowledge of networking and Linux systems.

Intended Audience This guide is intended for network administrators responsible to installing and configuring QRadar Log Manager systems in your network.

Documentation Conventions The following conventions are used throughout this guide:

- ▶ Indicates that the procedure contains a single instruction.

NOTE Indicates that the information provided is supplemental to the associated feature or instruction.



CAUTION

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



WARNING

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

Technical Documentation For information on how to access more technical documentation, technical notes, and release notes, see the [Accessing IBM Security QRadar Documentation](#)

Technical Note.

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

**Contacting
Customer Support**

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

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

1

PREPARING FOR YOUR INSTALLATION

This section provides information on preparing your IBM Security QRadar Log Manager installation. To ensure a successful QRadar Log Manager deployment, adhere to the recommendations in this document.

This section includes the following topics:

- [QRadar Log Manager Deployments](#)
- [Additional Hardware Requirements](#)
- [Additional Software Requirements](#)
- [Supported Browsers](#)
- [Identifying Network Settings](#)
- [Preparing Your Network Hierarchy](#)
- [Identifying Security Monitoring Log Sources](#)
- [Preparing For HA](#)
- [Using the Installation Wizard](#)
- [Accessing the QRadar Log Manager User Interface](#)

QRadar Log Manager Deployments

Your QRadar Log Manager deployment can consist of QRadar Log Manager installed on one or multiple systems. You can use the QRadar Log Manager three-tier architecture to install components on a single server for small enterprises or distributed across multiple servers for maximum performance and scalability in large enterprise environments. QRadar Log Manager also provides High Availability (HA) functionality, which requires you to install redundant appliances for each system that requires HA protection.

You can install QRadar Log Manager on QRadar appliances or QRadar Log Manager software installed on your own hardware. An QRadar appliance includes QRadar Log Manager software and a Red Hat Enterprise Linux operating system. For further information about QRadar appliances, see the *IBM Security QRadar Hardware Installation Guide*.

QRadar Log Manager components that can exist in your deployment include:

- **Console** - Provides the user interface for QRadar Log Manager. The Console provides real time views, reports, alerts, and in-depth flow views of network traffic and security threats. Using the Console, you can also manage distributed QRadar Log Manager deployments.

You can access the Console from a standard web browser. When you access the system, a prompt is displayed for a username and password, which you configure during the installation process. You must also have Java™ installed on your desktop system. For information about software requirements, see [Additional Software Requirements](#).

- **Event Collector** - The Event Collector gathers events from local and remote device sources. The Event Collector normalizes events, and then sends the information to the Event Processor. Before sending information to the Event Processor, the Event Collector bundles identical events to conserve system usage. During this process, the Magistrate examines the event from the device and maps the event to a QRadar Identifier (QID), and then creates the bundles.
- **Event Processor** - Processes events collected from one or more Event Collector. When received, the Event Processor correlates the information from QRadar Log Manager and distributes the information to the appropriate area, depending on the type of event. The Event Processor also includes information gathered by QRadar Log Manager to indicate behavioral changes or policy violations for the event. Rules are applied to the events that allow the Event Processor to process events according to the configured rules. When complete, the Event Processor sends the events to the Magistrate.
- **Magistrate** - Provides the core processing components. You can add one Magistrate component for each deployment. The Magistrate provides views, reports, alerts, and analysis of network traffic and security events. The Magistrate processes the event against the defined custom rules to create an offense. If there is no match to a custom rule, the Magistrate uses default rules to process the event. The magistrate prioritizes the events and assigns a magnitude value based on several factors, including number of events, severity, relevance, and credibility.

NOTE

For more information on each QRadar Log Manager component, see the *IBM Security QRadar Log Manager Administration Guide*.

Additional Hardware Requirements

Before installing your QRadar Log Manager systems, make sure you have access to the additional hardware components:

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

NOTE

To make sure that your QRadar Log Manager data is preserved during a power failure, we recommend that all QRadar Log Manager appliances or systems

running QRadar Log Manager software that store data are equipped with a Uninterrupted Power Supply (UPS).

Additional Software Requirements

Before installing QRadar Log Manager, make sure you have the following applications installed on any desktop system you use to access the QRadar Log Manager user interface:

- Java™ Runtime Environment (JRE) installed on the desktop system you plan to use to view QRadar Log Manager. You can download Java 1.6.0_u24 at the following website: <http://java.com/>.
- Adobe Flash 10.x installed on the desktop you plan to use to access the QRadar Log Manager Console.

NOTE

Make sure that you install JRE on your desktop system, not the QRadar Log Manager appliance.

Supported Browsers

You can access the Console from a standard web browser. When you access the system, a prompt is displayed asking for a user name and a password, which must be configured in advance by the QRadar Log Manager administrator.

Table 2-1 Supported Web Browsers

Web Browser	Supported Versions
Mozilla Firefox	<ul style="list-style-type: none"> • 10.0 <p>Due to Mozilla's short release cycle, we cannot commit to testing on the latest versions of the Mozilla Firefox browser. However, we are fully committed to investigating any issues that are reported.</p>
Microsoft Internet Explorer, with Compatibility View Enabled	<ul style="list-style-type: none"> • 8.0 • 9.0 <p>For instructions on how to enable Compatibility View, see Enabling Compatibility View for Microsoft Internet Explorer.</p>

Enabling Compatibility View for Microsoft Internet Explorer To enable Compatibility View for Microsoft Internet Explorer 8.0 and 9.0:

Step 1 Press F12 to open the Developer Tools window.

Step 2 Configure the following compatibility settings:

Table 2-2 Microsoft Internet Explorer Compatibility Settings

Browser Version	Option	Description
Microsoft Internet Explorer 8.0	Browser Mode	From the Browser Mode list box, select Internet Explorer 8.0 .
	Document Mode	From the Document Mode list box, select Internet Explorer 7.0 Standards .
Microsoft Internet Explorer 9.0	Browser Mode	From the Browser Mode list box, select Internet Explorer 9.0 .
	Document Mode	From the Document Mode list box, select Internet Explorer 7.0 Standards .

Identifying Network Settings

Before you install QRadar Log Manager, you must gather the following information for each system that you want to install:

- Hostname
- 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 using Network Address Translation (NAT)
- Email server name
- Network Time Protocol (NTP) server (Console only) or time server name

If you have already installed QRadar Log Manager 7.1 (MR1) and are recovering a failed primary HA host, you must also gather the following information from the QRadar Log Manager user interface:

- Cluster Virtual IP Address
- Primary IP Address

NOTE

You can find these IP addresses in the System and License Management window by pointing your mouse over the row for the HA cluster. For more information, see the *IBM Security QRadar Log Manager Administration Guide*.

Preparing Your Network Hierarchy

QRadar Log Manager uses the network hierarchy to understand your network traffic and provide you with the ability to view network activity for your entire deployment. QRadar Log Manager supports any network hierarchy that can be defined by a range of IP addresses. You can create your network hierarchy based on many different variables, including geographical or business units. For example, your network hierarchy might include corporate IP address ranges (internal or external), physical departments or areas, mail servers, and web servers.

After you define the QRadar Log Manager components that you want to add to your network hierarchy and install QRadar Log Manager, you can then configure the network hierarchy using the QRadar Log Manager Console.

- ▶ For each QRadar Log Manager component that you want to add to your network hierarchy, record each network component (object) in your network map.

At a minimum, we recommend that you define objects in the network hierarchy for:

- Internal and external Demilitarized zones (DMZs)
- Virtual Private Networks (VPNs)
- All internal IP address spaces (for example, 10.0.0.0/8)
- Proxy servers
- (NAT) IP address range
- Server Network subnets
- Voice over IP (VoIP) subnets

For more information, see the *IBM Security QRadar Log Manager Administration Guide - Setting Up QRadar Log Manager, Creating Your Network Hierarchy*.

Identifying Security Monitoring Log Sources

QRadar Log Manager collects and correlates events received from log sources which are external devices such as:

- Security equipment, such as firewalls, VPNs, and Intrusion Detection Systems (IDSs)
- Host or application security logs such as window logs

Device Support Modules (DSMs) allow you to integrate QRadar Log Manager data from these log sources.

QRadar Log Manager automatically discovers log sources that send syslog messages to an Event Collector. Automatically discovered log sources are displayed in the Log Sources window within the **Admin** tab. For more information, see the *IBM Security QRadar Log Manager Administration Guide*.

You must add non-syslog based log sources to your deployment manually. For each non-syslog log source that you want to add to your deployment, record the following information:

- **Log Source Type** - Specifies the type of log source, such as firewall, router, or VPN log sources.
- **QTY** - Specifies how many devices you have of this log source type.
- **Product Name/Version** - Specifies the log source product name and version number.
- **Link Speed & Type** - Specifies the maximum network link speed (in Kbps) for firewall, router, and VPN log sources. For the type, record the primary application of the host system, for example, email, anti-virus, domain controller, or a workstation.
- **Msg Level** - Specifies the message level that you want to log for this log source type. For example, critical, informational, or debug.
- **Avg Log Rate (Event/Sec)** - Specifies the average event rate per second.
- **No. of Users** - Specifies the maximum number of hosts or users using or being served by this log source.
- **Network Location** - Specifies whether this log source is located on the DMZ, Internet, Intranet, or Extranet.
- **Geographic Location** - Specifies if the log sources are located on the same Local Area Network (LAN) as QRadar Log Manager or if they are sending logs over the Wide Area Network (WAN).
- **Credibility** - Specifies the integrity of an event or offense as determined by the credibility rating from log sources. Credibility increases as multiple sources report the same event.

For more information, see the *Managing Log Sources Guide*.

Preparing For HA

Before deploying HA in your environment, ensure your HA hosts adhere to the following requirements:

- The secondary host must have a valid HA activation key.
- The secondary host must have the same QRadar Log Manager software version and patch level installed as the primary host in the HA cluster.
- The secondary host's memory must be equal to or greater than the primary host's memory.
- The secondary host must be located on the same subnet as the primary host.
- The secondary host's /store partition must be larger than the /store partition on the primary host.
- If you plan to enable disk synchronization, we recommend that there is at least a 1 GB connection between the primary host and secondary host.

- If you plan for your HA hosts to share external storage, we recommend that there is at least a 1 GB connection between each HA host and your external storage solution.

Using the Installation Wizard

The following table provides instruction on how to use and navigate the installation wizard:

Table 2-3 Installation Wizard Actions

If you want to	Perform this action
Move to another option on a page	Press the Up or Down arrows to move the cursor through configurable options on the installation wizard page.
Select an option from a list	Press the Spacebar to select your chosen option on a list. When you select an option, an X is displayed in the parentheses next to the option.
Select a navigation option	Press Tab to move the cursor from the configurable options to the Next , Back , and Finish options.
Select a navigation option	Press Enter on the keyboard.

Accessing the QRadar Log Manager User Interface

After the installation is complete, you can access the QRadar Log Manager user interface.

To access the QRadar Log Manager user interface:

Step 1 Open your web browser.

Step 2 Log in to QRadar Log Manager:

`https://<IP Address>`

Where `<IP Address>` is the IP address of the QRadar Log Manager system. The default values are:

Username: **admin**

Password: **<root password>**

Where `<root password>` is the password assigned to QRadar Log Manager during the installation process.

NOTE

If you are using Mozilla Firefox, you must add an exception to Mozilla Firefox to log in to QRadar Log Manager. For more information, see your Mozilla documentation. If you are using Internet Explorer, a website security certificate message is displayed. You must select the Continue to this website option to log in to QRadar Log Manager.

Step 3 Click **Login To QRadar Log Manager**.

For your QRadar Log Manager Console, a default license key provides you access to QRadar Log Manager for five weeks. For more information on the license key, see the *IBM Security QRadar Log Manager Administration Guide*.

2

INSTALLING QRADAR LOG MANAGER APPLIANCES

A IBM Security QRadar Log Manager appliance includes QRadar Log Manager software and a Red Hat Enterprise Linux operating system. For more information about appliances, see the *IBM Security QRadar Hardware Installation Guide*.

Before you begin, review the guidelines for navigating the installation wizard. See [Using the Installation Wizard](#).

This section includes the following topics:

- [Installing a QRadar Log Manager Appliance \(Consoles\)](#)
- [Installing a QRadar Log Manager 1605 Appliance](#)

Installing a QRadar Log Manager Appliance (Consoles)

To install a QRadar Log Manager appliance:

Step 1 Prepare your appliance.

a Install all necessary hardware.

For information on your QRadar Log Manager appliance, see the *IBM Security QRadar Hardware Installation Guide*.

b Choose one of the following options:

- Connect a laptop to the serial port on the rear of the appliance.

If you use a laptop to connect to the system, you must use a terminal program, such as HyperTerminal, to connect to the system. Make sure 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.

For more information on appliance ports, see the *IBM Security QRadar Hardware Installation Guide*.

c Power on the system and log in:

Username: **root**

NOTE

The username is case sensitive.

- d Press Enter.
The End User License Agreement (EULA) is displayed.
- e Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document.
- f Type **yes** to accept the agreement, and then press Enter.
The activation key window is displayed. 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.
- g Type your activation key and press Enter.

NOTE

The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

- Step 2** Select **normal** for the type of setup. Select **Next** and press Enter.
- Step 3** Select the **Enterprise** tuning template. Select **Next** and press Enter.
- Step 4** Choose one of the following options:
 - **Manual** - Select this option to manually input the time and date. Select **Next** and press Enter. The Current Date and Time window is displayed. Go to **Step 5**.
 - **Server** - Select this option to specify your time server. Select **Next** and press Enter. The Enter Time Server window is displayed. Go to **Step 6**.
- Step 5** To manually enter the time and date, type the current date and time. Select **Next** and press Enter. Go to **Step 9**.
- Step 6** To specify a time server, in the **Time server** field, type the time server name or IP address. Select **Next** and press Enter.
The Time Zone Continent window is displayed.
- Step 7** Select your time zone continent or area. Select **Next** and press Enter.
The Time Zone Region window is displayed.
- Step 8** Select your time zone region. Select **Next** and press Enter.
- Step 9** Select an internet protocol version. Select **Next** and press Enter.
The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.

- Step 10** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 11** Choose one of the following options:
- If you are using IPv4 as your Internet protocol, go to [Step 14](#).
 - If you are using IPv6 as your Internet protocol, go to [Step 12](#).
- Step 12** Choose one of the following options:
- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 14](#).
 - b To manually configure for IPv6, select **No** and press Enter. Go to [Step 13](#).
- Step 13** To enter network information to use for IPv6:
- a In the **Hostname** field, type a fully qualified domain name as the system hostname.
 - b In the **IP Address** field, type the IP address of the system.
 - c In the **Email server** field, type the email server. If you do not have an email server, type `localhost` in this field.
 - d Select **Next** and press Enter. Go to [Step 15](#)
- Step 14** Configure the QRadar Log Manager network settings:
- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the email server. If you do not have an email server, type `localhost` in this field.
 - b Select **Next** and press Enter.
- Step 15** Configure the QRadar Log Manager root password:
- a Type your password. Select **Next** and press Enter.
The password must meet the following criteria:
 - Must contain at least five characters

- No spaces
- Can include the following special characters: @, #, ^, and *.

The Confirm New Root Password window is displayed.

- b Retype your new password to confirm. Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.

The Configuration is Complete window is displayed.

- Step 16** Press Enter to select **OK**.

You are now ready to access QRadar Log Manager. For more information on accessing QRadar Log Manager, see [Accessing the QRadar Log Manager User Interface](#).

Installing a QRadar Log Manager 1605 Appliance

To set up your QRadar Log Manager 1605 appliance:

- Step 1** Prepare your appliance.

- a Install all necessary hardware.

For information on your QRadar Log Manager appliance, see the *IBM Security QRadar Hardware Installation Guide*.

- b Choose one of the following options:

- Connect a laptop to the serial port on the rear of the appliance.

If you use a laptop to connect to the system, you must use a terminal program, such as HyperTerminal, to connect to the system. Make sure 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.

For more information on appliance ports, see the *IBM Security QRadar Hardware Installation Guide*.

- c Power on the system and log in:

Username: **root**

NOTE _____
The username is case sensitive.

- d Press Enter.

The End User License Agreement (EULA) is displayed.

- e Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document. Type **yes** to accept the agreement, and then press Enter.

The activation key window is displayed. 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.

f Type your activation key and press Enter.

NOTE

The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

Step 2 Select **normal** for your type of setup. Select **Next** and press Enter.

Step 3 Select your time zone continent or area. Select **Next** and press Enter.

The Time Zone Region window is displayed.

Step 4 Select your time zone region. Select **Next** and press Enter.

Step 5 Select an internet protocol version. Select **Next** and press Enter.

The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.

Step 6 Select the interface that you want to specify as the management interface. Select **Next** and press Enter.

Step 7 Choose one of the following options:

- If you are using IPv4 as your Internet protocol, go to [Step 10](#).
- If you are using IPv6 as your Internet protocol, go to [Step 8](#).

Step 8 To configure IPv6, choose one of the following options:

- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 10](#).
- b To manually configure for IPv6, select **No** and press Enter. Go to [Step 9](#).

Step 9 To enter network information to use for IPv6:

- a Type the values for the **Hostname**, **IP Address**, and **Email server**.
- b Select **Next** and press Enter.

Step 10 Configure the QRadar Log Manager network settings:

- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.

- **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the name of the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

Step 11 Configure the QRadar Log Manager root password:

- a Type your password. Select **Next** and press Enter.

The password must meet the following criteria:

- Must contain at least five characters
- No spaces
- Can include the following special characters: @, #, ^, and *.

The Confirm New Root Password window is displayed.

- b Retype your new password to confirm.
- c Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.

The Configuration is Complete window is displayed.

- d Press Enter to select **OK**.

You are now ready to access QRadar Log Manager. For more information on accessing QRadar Log Manager, see [Accessing the QRadar Log Manager User Interface](#).

3

INSTALLING AND RECOVERING HIGH AVAILABILITY (HA) QRADAR LOG MANAGER APPLIANCES

This section provides information on installing or recovering your QRadar Log Manager High Availability (HA) appliances. Before you begin, review the guidelines for navigating the installation wizard. See [Using the Installation Wizard](#).

This section includes the following topics:

- [Before You Begin](#)
- [Installing a Secondary HA QRadar Log Manager Appliance](#)
- [Recovering a Failed Primary HA QRadar Log Manager Appliance](#)
- [Recovering a Failed Secondary HA Host to the QRadar Log Manager 7.1 \(MR1\)](#)
- [Recovering a QRadar Log Manager Secondary HA Host to a Previous Version or Factory Default](#)

Before You Begin

Before deploying HA in your environment, ensure your HA hosts adhere to the following requirements:

- The secondary host must have a valid High Availability (HA) activation key.
- The secondary host must have the same QRadar Log Manager software version installed as the primary host in the HA cluster.
- The secondary host's memory must be equal to or greater than the primary host's memory.
- The secondary host must be located on the same subnet as the primary host.
- The secondary host's /store partition must be larger than the /store partition on the primary host.
- If you plan to enable disk synchronization, we recommend that there is at least a 1 GB connection between the primary host and secondary host.
- If you plan for your HA hosts to share external storage, we recommend that there is at least a 1 GB connection between each HA host and your external storage solution.

Installing a Secondary HA QRadar Log Manager Appliance

To install your secondary HA QRadar Log Manager appliance:

Step 1 Prepare your appliance.

a Install all necessary hardware.

For information on your QRadar Log Manager appliance, see the *Hardware Installation Guide*.

b Choose one of the following options:

- Connect a laptop to the serial port on the rear of the appliance.

If you use a laptop to connect to the system, you must use a terminal program, such as HyperTerminal, to connect to the system. Make sure 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.

For more information on appliance ports, see the *Hardware Installation Guide*.

c Power on the system and log in:

Username: **root**

NOTE

The username is case sensitive.

d Press Enter.

The End User License Agreement (EULA) is displayed.

e Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document. Type **yes** to accept the agreement, and then press Enter.

The activation key window is displayed. 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.

f Type your activation key and press Enter.

NOTE

The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

Step 2 To specify your secondary device type, select **This system is a stand-by for a console**. Select **Next** and press Enter.

Step 3 Choose one of the following options:

- **Manual** - Select this option to manually input the time and date. Select **Next** and press Enter. The Current Date and Time window is displayed. Go to **Step 4**.
- **Server** - Select this option to specify your time server. Select **Next** and press Enter. The Enter Time Server window is displayed. Go to **Step 5**.

Step 4 To manually enter the time and date, type the current date and time. Select **Next** and press Enter. Go to **Step 8**.

Step 5 To specify a time server, in the **Time server** field, type the time server name or IP address. Select **Next** and press Enter.

The Time Zone Continent window is displayed.

Step 6 Select your time zone continent or area. Select **Next** and press Enter.

The Time Zone Region window is displayed.

Step 7 Select your time zone region. Select **Next** and press Enter.

Step 8 Select **IPv4** for your internet protocol version. Select **Next** and press Enter.

NOTE

IPv6 is not supported in an HA environment. If you are installing software or an appliance with an HA activation key and you select the IPv6 option, an error message is displayed. In this case, select **Back** and then select **IPv4**. You can then proceed to next step in your installation.

The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.

Step 9 Select the interface that you want to specify as the management interface. Select **Next** and press Enter.

Step 10 Configure the QRadar Log Manager network settings:

- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.

NOTE

If you are recovering an HA appliance, the IP address is the Primary HA IP address, which you can identify in the System and License Management window by pointing your mouse over the row for the HA cluster. For more information on managing HA, see the *IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.

- **Network Mask** - Type the network mask address for the system.
- **Gateway** - Type the default gateway of the system.
- **Primary DNS** - Type the primary DNS server address.
- **Secondary DNS** - Optional. Type the secondary DNS server address.

- **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

NOTE

If you are changing network settings using `qchange_netsetup`, select **Finish** and press Enter. See [Changing Network Settings](#).

- Step 11** To configure the QRadar Log Manager root password:
- a Type your password.
The password must meet the following criteria:
 - Must contain at least five characters
 - No spaces
 - Can include the following special characters: @, #, ^, and *.
 - b Select **Next** and press Enter.
The Confirm New Root Password window is displayed.
 - c Retype your new password to confirm.
 - d Select **Finish** and press Enter.
A series of messages is displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.
The Configuration is Complete window is displayed.
 - e Press Enter to select **OK**.
- Step 12** Log in to the QRadar Log Manager user interface. See [Accessing the QRadar Log Manager User Interface](#).
- Step 13** Configure your HA cluster. For more information on configuring your HA cluster, see the *IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.

Recovering a Failed Primary HA QRadar Log Manager Appliance

Before you recover a failed primary HA appliance, you must gather the following information from the QRadar Log Manager user interface:

- Cluster Virtual IP Address
- Primary IP Address

You can find these IP addresses in the System and License Management window by pointing your mouse over the row for the HA cluster. For more information, see

the *IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.



CAUTION

*If your HA cluster uses shared storage, you must manually configure iSCSI. For more information about configuring iSCSI, see the *Configuring iSCSI Technical Note*.*

To recover a failed primary HA QRadar Log Manager appliance:

Step 1 Prepare your appliance.

a Install all necessary hardware.

For information on your QRadar Log Manager appliance, see the *Hardware Installation Guide*.

b Choose one of the following options:

- Connect a laptop to the serial port on the rear of the appliance.

If you use a laptop to connect to the system, you must use a terminal program, such as HyperTerminal, to connect to the system. Make sure 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.

For more information on appliance ports, see the *Hardware Installation Guide*.

c Power on the system and log in:

Username: **root**

NOTE

The username is case sensitive.

d Press Enter.

The End User License Agreement (EULA) is displayed.

e Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document. Type **yes** to accept the agreement, and then press Enter.

The activation key window is displayed. 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.

f Type your activation key and press Enter.

NOTE

The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

- Step 2** To specify your type of setup, select **HA Recovery Setup**. Select **Next** and press Enter.
- Step 3** Choose one of the following options:
- **Manual** - Select this option to manually input the time and date. Select **Next** and press Enter. The Current Date and Time window is displayed. Go to [Step 4](#).
 - **Server** - Select this option to specify your time server. Select **Next** and press Enter. The Enter Time Server window is displayed. Go to [Step 5](#).
- Step 4** To manually enter the time and date, type the current date and time. Select **Next** and press Enter. Go to [Step 8](#).
- Step 5** To specify a time server, in the **Time server** field, type the time server name or IP address. Select **Next** and press Enter.
The Time Zone Continent window is displayed.
- Step 6** Select your time zone continent or area. Select **Next** and press Enter.
The Time Zone Region window is displayed.
- Step 7** Select your time zone region. Select **Next** and press Enter.
- Step 8** Select **IPv4** for your internet protocol version. Select **Next** and press Enter.

NOTE

IPv6 is not supported in an HA environment. If you are installing software or an appliance with an HA activation key and you select the IPv6 option, an error message is displayed. In this case, select **Back** and then select **IPv4**. You can then proceed to next step in your installation.

The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.

- Step 9** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 10** Type the Cluster Virtual IP address. Select **Next** and press Enter.
The Cluster Virtual IP address is the original IP address of the primary HA system. You can find this IP address in the System and License Management window by pointing your mouse over the row for the HA cluster.
- Step 11** Configure the QRadar Log Manager network settings:
- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.

NOTE

If you are recovering an HA appliance, the IP address is the Primary HA IP address, which you can identify in the System and License Management window by pointing your mouse over the row for the HA cluster. For more information on managing HA, see *the IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.

- **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

Step 12 To configure the QRadar Log Manager root password:

- a Type your password. Select **Next** and press Enter.
- The password must meet the following criteria:
- Must contain at least five characters
 - No spaces
 - Can include the following special characters: @, #, ^, and *
- The Confirm New Root Password window is displayed.
- b Retype your new password to confirm. Select **Finish** and press Enter.
- A series of messages is displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.
- The Configuration is Complete window is displayed.
- c Press Enter to select **OK**.

Step 13 Log in to the QRadar Log Manager user interface. See [Accessing the QRadar Log Manager User Interface](#).

Step 14 Using the user interface, restore the failed primary HA system. For more information on restoring a failed primary HA system, see *the IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.

Recovering a Failed Primary HA QRadar Log Manager 1605 Appliance

Before you recover a failed primary HA QRadar Log Manager 1605 appliance, you must gather the following information from the QRadar Log Manager user interface:

- Cluster Virtual IP Address
- Primary IP Address

NOTE

You can find these IP addresses in the System and License Management window by pointing your mouse over the row for the HA cluster. For more information, see the *IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.



CAUTION

*If your HA cluster uses shared storage, you must manually configure iSCSI. For more information about configuring iSCSI, see the *Configuring iSCSI Technical Note*.*

To recover a failed primary HA QRadar Log Manager 1605 appliance:

Step 1 Prepare your appliance.

- a Install all necessary hardware.

For information on your QRadar Log Manager appliance, see the *Hardware Installation Guide*.

- b Choose one of the following options:

- Connect a laptop to the serial port on the rear of the appliance.

If you use a laptop to connect to the system, you must use a terminal program, such as HyperTerminal, to connect to the system. Make sure 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.

For more information on appliance ports, see the *Hardware Installation Guide*.

- c Power on the system and log in:

Username: **root**

NOTE

The username is case sensitive.

- d Press Enter.

The End User License Agreement (EULA) is displayed.

- e Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document. Type **yes** to accept the agreement, and then press Enter.

The activation key window is displayed. 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.

f Type your activation key and press Enter.

NOTE

The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

Step 2 To specify your type of setup, select **HA Recovery Setup**. Select **Next** and press Enter.

Step 3 Select your time zone continent or area. Select **Next** and press Enter.

The Time Zone Region window is displayed.

Step 4 Select your time zone region. Select **Next** and press Enter.

Step 5 Select **IPv4** for your internet protocol version. Select **Next** and press Enter.

NOTE

IPv6 is not supported in an HA environment. If you are installing software or an appliance with an HA activation key and you select the IPv6 option, an error message is displayed. In this case, select **Back** and then select **IPv4**. You can then proceed to next step in your installation.

The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.

Step 6 Select the interface that you want to specify as the management interface. Select **Next** and press Enter.

Step 7 Type the Cluster Virtual IP address. Select **Next** and press Enter.

The Cluster Virtual IP address is the original IP address of the primary HA system. You can find this IP address in the System and License Management window by pointing your mouse over the row for the HA cluster.

Step 8 Configure the QRadar Log Manager network settings:

a Enter values for the following parameters:

- **Hostname** - Type a fully qualified domain name as the system hostname.
- **IP Address** - Type the IP address of the system.

NOTE

If you are recovering an HA appliance, the IP address is the Primary HA IP address, which you can identify in the System and License Management window by pointing your mouse over the row for the HA cluster. For more information on managing HA, see the *IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.

- **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.
- Step 9** To configure the QRadar Log Manager root password:
- a Type your password. Select **Next** and press Enter.
- The password must meet the following criteria:
- Must contain at least five characters
 - No spaces
 - Can include the following special characters: @, #, ^, and *.
- The Confirm New Root Password window is displayed.
- b Retype your new password to confirm. Select **Finish** and press Enter.
- A series of messages are displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.
- The Configuration is Complete window is displayed.
- c Press Enter to select **OK**.
- Step 10** Log in to the QRadar Log Manager user interface. See [Accessing the QRadar Log Manager User Interface](#).
- Step 11** Using the user interface, restore the failed primary HA system. For more information on restoring a failed primary HA system, see the *IBM Security QRadar Log Manager Administration Guide - Managing High Availability*.

Recovering a Failed Secondary HA Host to the QRadar Log Manager 7.1 (MR1)

When recovering a failed secondary HA host that used a previous QRadar Log Manager version, you can install QRadar Log Manager 7.1 (MR1) from an updated recovery partition.

To recover a failed secondary HA host from the recovery partition:

- Step 1** Using SSH, log in to the secondary HA host as the root user.
- Username:** root
- Password:** <password>

Step 2 Obtain the QRadar Log Manager software from the Qmmunity website.

Step 3 To copy the QRadar Log Manager 7.1 (MR1) ISO to the secondary HA host, type the following command:

```
scp <iso file name> root@<ip_address>:/root
```



CAUTION

*If you are installing QRadar Log Manager 7.0 and above, **Step 4** and **Step 5** are not required because the recovery script is placed in /opt/qradar/bin during the installation.*

Step 4 To mount the ISO, type the following command:

```
mount -o loop <iso_file_name> /media/cdrom/
```

Step 5 To copy the recover script into the root directory, type the following command:

```
cp /media/cdrom/post/recovery.py /root
```

Step 6 To unmount the ISO, type the following command:

```
umount /media/cdrom/
```

Step 7 If the host is a non-Console, stop the IPTables service to allow SCP. Type the following command: `service iptables stop`.

Step 8 To start the extracted recovery script, type the following command:

```
./recovery.py -r --default --reboot <iso_file_name>
```

Step 9 When prompted, press Enter to reboot the appliance.

Step 10 When prompted, type `flatten` and press Enter.

The installer repartitions and reformats the hard disk, installs the Operating System, and then re-installs QRadar Log Manager. Wait for the flatten process to complete. This process can take up to several minutes, depending on your system. When this process is complete, the normal installation process proceeds.

For more information on installing your secondary HA host, choose one of the following:

- [Installing a Secondary HA QRadar Log Manager Appliance](#)
- [Installing a QRadar Log Manager 1605 Appliance](#)

Step 11 When the installation completes, type `setup` and log in to the system as the root user.

Recovering a QRadar Log Manager Secondary HA Host to a Previous Version or Factory Default

Using this procedure, you can recover a failed QRadar Log Manager secondary HA host that does not include a recovery partition or a USB port to a previous version or restore the system to factory defaults. When you recover the failed secondary HA host, all data removed and the factory default configuration is restored on the host.

To restore a secondary HA host to a previous version or factory default:

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

Step 2 Using SCP, copy the `recovery.py` script from the Console to the failed secondary HA host.

By default, the `recovery.py` script is downloaded to the `/root` directory if you do not specify a location.

Step 3 Go to the Qmmunity website to download the ISO image for the QRadar Log Manager version you want to restore.

Step 4 Using SCP, copy the ISO to the target QRadar Log Manager host.

Step 5 Using SSH, log in to the secondary HA host.

Step 6 Type the following commands:

```
Chmod 755 recovery.py
./recovery.py -r --default --reboot <iso_file_name>
```

Step 7 Press Enter when prompted to reboot the system.

The system restarts.

Step 8 When prompted, type `flatten` and press Enter.

The installer repartitions and reformats the hard disk, installs the Operating System, and then installs QRadar Log Manager. Wait for the flatten process to complete. This process can take up to several minutes, depending on your system. When this process is complete, the normal installation process proceeds.

For more information on installing your secondary HA host, choose one of the following:

- [Installing a Secondary HA QRadar Log Manager Appliance](#)
- [Installing a QRadar Log Manager 1605 Appliance](#)

4

INSTALLING A VIRTUAL APPLIANCE

A virtual appliance enables the same visibility and functionality in your virtual network infrastructure that QRadar Log Manager appliances offer in your physical environment.

The QRadar Log Manager 8090 virtual appliance is a QRadar Log Manager system manages and stores events from various network devices. The QRadar Log Manager 8090 virtual appliance includes an on-board Event Collector, Event Processor, and internal storage for events. The QRadar Log Manager 8090 virtual appliance supports:

- 1,000 Events Per Second (EPS), depending on your license
- 2 TB or larger dedicated event storage

This section includes the following topics:

- [Before You Begin](#)
- [Preparing Your Virtual Machine for QRadar SIEM Installation](#)
- [Installing QRadar Log Manager Software on Your Virtual Machine](#)

After you install your virtual appliances, you can access the deployment editor and add your virtual appliances to your deployment. For more information on connecting appliances using the deployment editor, see the *IBM Security QRadar Log Manager Administration Guide*.

Before You Begin

Before you install your virtual appliance, note the following:

- Virtual appliances require VMware ESXi 4.1. You must have a VMware client installed on your desktop. VMware server applications are bundled with client software. For example, ESXi 4.1 is bundled with VMware vSphere client 4.1. If your server/client configuration differs, we recommend you upgrade your VMware server and client. For more information, see <http://www.vmware.com>.
- 4 GB of free memory is required by the VMware host for QRadar Log Manager 8090. 12 GB is optimal.
- 256 GB of free disk space is required.

Preparing Your Virtual Machine for QRadar SIEM Installation

This section includes the following topics:

- [Creating your Virtual Machine](#)
- [Installing the QRadar Log Manager ISO on the Virtual Machine](#)

Creating your Virtual Machine

To create your virtual machine:

- Step 1** Access your vSphere Client.
- Step 2** Select **File > New > Virtual Machine**.
The Create New Virtual Machine window is displayed.
- Step 3** In the Configuration pane, select the **Custom** option and click **Next**.
- Step 4** In the **Name** field, type a unique name for the virtual machine and click **Next**.
- Step 5** In the right pane, select the datastore where you want to store the virtual machine and click **Next**.
- Step 6** In the Virtual Machine Version pane, select the **Virtual Machine Version: 7** option and click **Next**.
- Step 7** Specify the guest Operating System (OS) for the QRadar Log Manager virtual appliance:
 - a In the Guest Operating System pane, select the **Linux** option.
 - b From the **Version** list box, select **Red Hat Enterprise Linux 6 (64-bit)** and click **Next**.
- Step 8** From the **Number of virtual processors** list box, select the number of processors that you want for the virtual machine and click **Next**. You must select a minimum of 2 processors.
- Step 9** In the Memory Configuration pane, provide a minimum of 8 GB for memory:
 - a In the **Memory Size** field, type or select **8** or higher.
 - b In the list box, select **GB**.
- Step 10** Configure your network connections:
 - a From the **How many NICs do you want to connect** list box, select the number of Network Interface Controllers (NICs) that you want to add. You must add at least one NIC.
 - b For all NICs, select **VMXNET3** from the **Adapter** list box.
 - c Click **Next**.
- Step 11** In the SCSI Controller pane, select **VMware Paravirtual** and click **Next**.
- Step 12** In the Disk pane, select **Create a new virtual disk**.
- Step 13** Configure the virtual disk size and specify a provisioning policy:
 - a In the Capacity pane, type or select 256 or higher and select **GB** from the list box.

b In the Disk Provisioning pane, select the **Allocate and commit space on demand (Thin provisioning)** check box.

c Click **Next**.

The Advanced Options page is displayed. Do not configure the options on this page.

Step 14 Click **Next**.

The Ready to Complete page is displayed. Review the settings for your new virtual machine and edit the settings if required.

Step 15 Click **Finish**.

Your virtual machine is ready for optimal performance when running your QRadar Log Manager virtual appliance.

Installing the QRadar Log Manager ISO on the Virtual Machine

To install QRadar Log Manager software on a virtual appliance:

Step 1 Obtain the QRadar Log Manager software from the Qmmunity website.

Step 2 In the left pane of your VMware vSphere Client, select your virtual machine from the menu tree.

Step 3 In the right pane, click the **Summary** tab.

Step 4 In the Commands pane, click **Edit Settings**.

The Virtual Machine Properties window is displayed.

Step 5 In the left pane, click **CD/DVD Drive 1**.

Step 6 In the Device Status pane, select the **Connect at power on** check box.

Step 7 In the Device Type pane, select **Datastore ISO File** and click **Browse**.

The Browse Datastores window is displayed.

Step 8 Locate and select the ISO file and click **Open**.

Step 9 Click **OK**.

The virtual machine is now ready to power up and install QRadar Log Manager. For more information, see [Installing QRadar Log Manager Software on Your Virtual Machine](#).

Installing QRadar Log Manager Software on Your Virtual Machine

Before you begin, review the guidelines for navigating the installation wizard. See [Using the Installation Wizard](#).

To install QRadar Log Manager software on your virtual machine:

Step 1 Access your vSphere Client.

Step 2 In the menu tree, right-click your virtual machine and select **Power > Power On**.

Step 3 Log in to the virtual machine:

Username: **root**

NOTE _____
The username is case sensitive.

Step 4 Press Enter.

The End User License Agreement (EULA) is displayed.

Step 5 Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document.

Step 6 Type **yes** to accept the agreement, and then press Enter.

The activation key window is displayed. The activation key is a 24-digit, four-part, alphanumeric string that you receive from IBM

Step 7 Type your activation key and press Enter.

NOTE _____
The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

Step 8 Select **normal** for your type of setup. Select **Next** and press Enter.

Step 9 Specify if you want to install a Console or non-Console system.

- **Yes** - Select this option if this system is a Console.
- **No** - Select this option if this system is not a Console.

NOTE _____
If you select **Yes** to indicate that your system is a Console, an error message is displayed if your system has less than 8 GB of RAM. We require that you upgrade the memory on your system before installing QRadar Log Manager on your system.

d Select **Next** and press Enter.

Step 10 Select the **Enterprise** tuning template. Select **Next** and press Enter.

Step 11 Select method that you want to use to set the date and time:

- **Manual** - Select this option to manually input the time and date. Select **Next** and press Enter. The Current Date and Time window is displayed. Go to [Step 12](#).
- **Server** - Select this option to specify your time server. Select **Next** and press Enter. The Enter Time Server window is displayed. Go to [Step 13](#).

Step 12 To manually enter the time and date, type the current date and time. Select **Next** and press Enter. Go to [Step 14](#).

Step 13 To specify a time server, type the time server name or IP address. Select **Next** and press Enter.

The Time Zone Continent window is displayed.

Step 14 Select your time zone continent or area. Select **Next** and press Enter.

The Time Zone Region window is displayed.

- Step 15** Select your time zone region. Select **Next** and press Enter.
- Step 16** Select an internet protocol version. Select **Next** and press Enter.
The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.
- Step 17** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 18** Choose one of the following options:
- If you are using IPv4 as your Internet protocol, go to [Step 21](#).
 - If you are using IPv6 as your Internet protocol, go to [Step 19](#).
- Step 19** Choose one of the following options:
- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 21](#).
 - b To manually configure for IPv6, select **No** and press Enter. Go to [Step 20](#).
- Step 20** To enter network information to use for IPv6, type the values for the **Hostname** and **Email server**. Select **Next** and press Enter.
- Step 21** Configure the QRadar Log Manager network settings:
- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the email server. If you do not have an email server, type `localhost` in this field.
 - b Select **Next** and press Enter.

NOTE

If you are changing network settings using the `qchange_netsetup` utility, select **Finish** and press Enter. See [Changing Network Settings](#).

- Step 22** Configure the QRadar Log Manager root password:
- a Type your password. Select **Next** and press Enter.

The password must meet the following criteria:

- Must contain at least five characters
- No spaces
- Can include the following special characters: @, #, ^, and *.

The Confirm New Root Password window is displayed.

- b** Retype your new password to confirm. Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.

The Configuration is Complete window is displayed.

- c** Press Enter to select **OK**.

You are now ready to access QRadar Log Manager. For more information on accessing QRadar Log Manager, see [Accessing the QRadar Log Manager User Interface](#).

Adding Your Virtual Appliance to Your Deployment

To add your virtual appliance to your deployment:

- Step 1** Log in to the QRadar Log Manager Console.
- Step 1** On the **Admin** tab, click **Deployment Editor**.
The Event View page is displayed.
- Step 2** In the Event Components pane, select the virtual appliance component that you want to add.
The Adding a New Component wizard is displayed.
- Step 3** Type a unique name for the virtual appliance. The name can be up to 20 characters in length and may include underscores or hyphens. Click **Next**.
The Assign Component page is displayed.
- Step 4** From the **Select a host to assign to** list box, select the managed host that you want to assign the virtual appliance to. Click **Next**.
- Step 5** Click **Finish**.
- Step 6** From the deployment editor menu, select **File > Save to staging**.
The deployment editor saves your changes to the staging area and automatically closes.
- Step 7** On the **Admin** tab menu, click **Deploy Changes**.

5

CHANGING NETWORK SETTINGS

This section includes the following topics:

- [Changing Network Settings in an All-in-One Console](#)
- [Changing the Network Settings of a Console in a Multi-System Deployment](#)
- [Changing the Network Settings of a Non-Console in a Multi-System Deployment](#)
- [Updating Network Settings after a NIC Replacement](#)

Before you begin, review the guidelines for navigating the installation wizard. See [Using the Installation Wizard](#).



CAUTION

Changing the network settings of a host in an HA cluster causes HA to cease functioning on the cluster. If you want to change the network settings of a host in an HA cluster, you must first remove the host from the cluster, make your changes, and then re-add the host to the cluster.

Changing Network Settings in an All-in-One Console

You can change the network settings in your All-In-One system. An All-In-One system has all QRadar Log Manager components, including the **Admin** tab, installed on one system.

To change the settings on the QRadar Log Manager Console:

NOTE

You must have a local connection to your Console before executing the script.

Step 1 Log in to QRadar Log Manager as the root user:

Username: root

Password: <password>

Step 2 Type the following command:

```
qchange_netsetup
```

- Step 3** Select an internet protocol version. Select **Next** and press Enter.
- The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.
- Step 4** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 5** Choose one of the following options:
- If you are using IPv4 as your Internet protocol, go to [Step 8](#).
 - If you are using IPv6 as your Internet protocol, go to [Step 6](#).
- Step 6** To configure IPv6, choose one of the following options:
- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 8](#).
 - b To manually configure for IPv6, select **No** and press Enter. Go to [Step 7](#).
- Step 7** To enter network information to use for IPv6:
- a Type the values for the **Hostname**, **IP Address**, and **Email server**.
 - b Select **Next** and press Enter.
- Step 8** Configure the QRadar Log Manager network settings:
- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the name of the email server. If you do not have an email server, type `localhost` in this field.
 - b Select **Next** and press Enter.
- Step 9** Select **Finish** and press Enter.
- A series of messages are displayed as QRadar Log Manager processes the requested changes. After the requested changes are processed, the QRadar Log Manager system is automatically shutdown and rebooted.

Changing the Network Settings of a Console in a Multi-System Deployment

To change the network settings in a multi-system deployment, you must remove all non-Console managed hosts from the deployment, change the network settings, re-add the managed host or hosts, and then re-assign the component or components.

You must perform this procedure in the following order:

- 1 [Removing Non-Console Managed Hosts](#)
- 2 [Changing the Network Settings](#)
- 3 [Re-Adding Managed Hosts and Re-Assigning the Components](#)

NOTE

This procedure requires you to use the deployment editor. For more information on using the deployment editor, see the *IBM Security QRadar Log Manager Administration Guide*.

Removing Non-Console Managed Hosts

To remove non-Console managed hosts from your deployment, you must:

- Step 1** Log in to QRadar Log Manager:
`https://<IP Address>`
 Where `<IP Address>` is the IP address of the QRadar Log Manager system.
 Username: **admin**
 Password: **<admin password>**
- Step 2** Click the **Admin** tab.
- Step 3** Click the **Deployment Editor** icon.
 The deployment editor is displayed.
- Step 4** Click the **System View** tab.
- Step 5** Right-click the managed host that you want to delete and select **Remove host**.
 Repeat for each non-Console managed host until all hosts are deleted.
- Step 6** Click **Save**.
- Step 7** Close the deployment editor.
- Step 8** On the Admin tab, click **Deploy Changes**.
 The changes are deployed.

Changing the Network Settings

To change the network settings, you must:

- Step 1** Using SSH, log in to QRadar Log Manager as the root user.
 Username: **root**
 Password: **<password>**

Step 2 Type the following command:

```
qchange_netsetup
```

Step 3 Select an internet protocol version. Select **Next** and press Enter.

The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.

Step 4 Select the interface that you want to specify as the management interface. Select **Next** and press Enter.

Step 5 Choose one of the following options:

- If you are using IPv4 as your Internet protocol, go to [Step 8](#).
- If you are using IPv6 as your Internet protocol, go to [Step 6](#).

Step 6 To configure IPv6, choose one of the following options:

- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 8](#).
- b To manually configure for IPv6, select **No** and press Enter. Go to [Step 7](#).

Step 7 To enter network information to use for IPv6:

- a Type the values for the **Hostname**, **IP Address**, and **Email server**.
- b Select **Next** and press Enter.

Step 8 Configure the QRadar Log Manager network settings:

- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the name of the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

Step 9 Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager processes the requested changes. After the requested changes are processed, the QRadar Log Manager system is automatically shutdown and rebooted.

Re-Adding Managed Hosts and Re-Assigning the Components To re-add the managed hosts and re-assign components, you must:

Step 1 Log in to QRadar Log Manager:

`https://<IP Address>`

Where `<IP Address>` is the IP address of the QRadar Log Manager system.

Username: **admin**

Password: **<admin password>**

Step 2 Click the **Admin** tab.

Step 3 Click the **Deployment Edit** icon.

The deployment editor is displayed.

Step 4 Click the **System View** tab.

Step 5 From the menu, select **Actions > Add a managed host**.

The Add a new host wizard is displayed.

Step 6 Click **Next**.

The Enter the host's IP window is displayed.

Step 7 Enter values for the parameters:

- **Enter the IP of the server or appliance to add** - Type the IP address of the host that you want to add to your System View.
- **Enter the root password of the host** - Type the root password for the host.
The password must meet the following criteria:
 - Must contain at least five characters
 - No spaces
 - Can include the following special characters: @, #, ^, and *.
- **Confirm the root password of the host** - Type the password again, for confirmation.
- **Host is NATed** - Select this option if you want to specify NAT values if necessary.
- **Enable Encryption** - Select this option if you want to enable encryption.

Step 8 Click **Next**.

Step 9 Click **Finish**.

Step 10 Re-assign all components to your non-Console managed host.

- a In the QRadar Log Manager deployment editor, click the **Event View** tab.
- b Select the component that you want to re-assign to the managed host.
- c From the menu, select **Actions > Assign**

NOTE You can also right-click a component to access the Actions menu items.

The Assign Component wizard is displayed.

- d From the **Select a host** list box, select the host that you want to re-assign to this component. Click **Next**.
- e Click **Finish**.

Step 11 Repeat for each non-Console managed host until all hosts are re-added and re-assigned.

Step 12 Close the deployment editor.

Step 13 Click **Deploy Changes**.
The changes are deployed.

Changing the Network Settings of a Non-Console in a Multi-System Deployment

To change the network settings of a non-Console in a multi-system deployment, you must remove the non-Console managed host that you want to change from the deployment, change the network settings, re-add the managed host, and then re-assign the original components.

You must perform this procedure in the following order:

- [Removing the Non-Console Managed Host](#)
- [Changing the Network Settings](#)
- [Re-Adding the Managed Host and Re-Assigning the Components](#)

NOTE This procedure requires you to use the deployment editor. For more information on using the deployment editor, see the *IBM Security QRadar Log Manager Administration Guide*.

Removing the Non-Console Managed Host

To remove non-Console managed host from your deployment, you must:

Step 1 Log in to QRadar Log Manager:

`https://<IP Address>`

Where `<IP Address>` is the IP address of the QRadar Log Manager system.

Username: **admin**

Password: **<admin password>**

Step 2 Click the **Admin** tab.

- Step 3** Click the **Deployment Editor** icon.
The deployment editor is displayed.
- Step 4** Click the **System View** tab.
- Step 5** Right-click the managed host that you want to delete to access the menu, select **Remove host**.
- Step 6** Close the deployment editor.
- Step 7** Click **Deploy Changes**.
The changes are deployed.

Changing the Network Settings

To change the network settings, you must:

- Step 1** Using SSH, log in to Console as the root user:
Username: root
Password: <password>
- Step 2** Type the following command:
`qchange_netsetup`
- Step 3** Select an internet protocol version. Select **Next** and press Enter.
The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.
- Step 4** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 5** Choose one of the following options:
- If you are using IPv4 as your Internet protocol, go to [Step 8](#).
 - If you are using IPv6 as your Internet protocol, go to [Step 6](#).
- Step 6** To configure IPv6, choose one of the following options:
- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 8](#).
 - b To manually configure for IPv6, select **No** and press Enter. Go to [Step 7](#).
- Step 7** To enter network information to use for IPv6:
- a Type the values for the **Hostname**, **IP Address**, and **Email server**.
 - b Select **Next** and press Enter.
- Step 8** Configure the QRadar Log Manager network settings:
- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.

- **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the name of the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

Step 9 Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager processes the requested changes. After the requested changes are processed, the QRadar Log Manager system is automatically shutdown and rebooted.

Re-Adding the Managed Host and Re-Assigning the Components

To re-add the managed host and re-assign components, you must:

Step 1 Log in to QRadar Log Manager:

`https://<IP Address>`

Where `<IP Address>` is the IP address of the QRadar Log Manager system.

Username: **admin**

Password: **<admin password>**

Step 2 Click the **Admin** tab.

Step 3 Click the **Deployment Editor** icon.

The deployment editor is displayed.

Step 4 Click the **System View** tab.

Step 5 From the menu, select **Actions > Add a managed host**.

The Add a new host wizard is displayed.

Step 6 Click **Next**.

The Enter the host's IP window is displayed.

Step 7 Enter values for the parameters:

- **Enter the IP of the server or appliance to add** - Type the IP address of the host that you want to add to your System View.
- **Enter the root password of the host** - Type the root password for the host.

The password must meet the following criteria:

- Must contain at least five characters
- No spaces
- Can include the following special characters: @, #, ^, and *.
- **Confirm the root password of the host** - Type the password again, for confirmation.
- **Host is NATed** - Select this option if you want to specify NAT values if necessary.
- **Enable Encryption** - Select this option if you want to enable encryption.

Step 8 Click **Next**.

Step 9 Click **Finish**.

- Step 10** Re-assign all components to your non-Console managed host.
- a In the QRadar Log Manager deployment editor, click the **Event View** tab.
 - b Select the component that you want to re-assign to the managed host.
 - c From the menu, select **Actions > Assign**.

NOTE

You can also right-click a component to access the **Actions** menu items.

The Assign Component wizard is displayed.

- d From the **Select a host** list box, select the host that you want to re-assign to this component. Click **Next**.
- e Click **Finish**.

Step 11 Close the deployment editor.

Step 12 On the **Admin** tab, click **Deploy Changes**.

The changes are deployed.

Updating Network Settings after a NIC Replacement

The hardware in your QRadar Log Manager deployment can include motherboards with integrated Network Interface Cards (NIC) or stand-alone NICs. These procedures only apply to replacements of integrated motherboards and stand-alone NICs.

If you perform a replacement of your integrated motherboard or stand-alone NICs, you must update your QRadar Log Manager network settings to ensure your hardware remains operational.

After you replace your integrated motherboard or NIC, reboot your QRadar Log Manager system and update the network settings.

To reboot and update your network settings:

Step 1 Using SSH, log in to QRadar Log Manager as the root user:

Username: **root**

Password: **<password>**

Step 2 Type the following command:

```
cd /etc/udev/rules.d/
```

Step 3 Edit the network settings file by typing the following command:

```
vi 70-persistent-net.rules
```

The file displays one pair of lines for each NIC that has been installed and one pair of lines for each NIC that has been removed.

The output may resemble the following:

```
# PCI device 0x14e4:0x163b (bnx2)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*",
ATTR{address}=="78:2a:cb:23:1a:2f", ATTR{type}=="1",
KERNEL=="eth*", NAME="eth0"
```

```
# PCI device 0x14e4:0x163b (bnx2)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*",
ATTR{address}=="78:2a:cb:23:1a:2f", ATTR{type}=="1",
KERNEL=="eth*", NAME="eth0"
```

```
# PCI device 0x14e4:0x163b (bnx2)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*",
ATTR{address}=="78:2a:cb:23:1a:2f", ATTR{type}=="1",
KERNEL=="eth*", NAME="eth4"
```

```
# PCI device 0x14e4:0x163b (bnx2)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*",
ATTR{address}=="78:2a:cb:23:1a:2f", ATTR{type}=="1",
KERNEL=="eth*", NAME="eth4"
```

Where **NAME="eth0"** is the NIC that was replaced and **NAME="eth4"** is the NIC that was installed.

Step 4 Remove the pair of lines for the NIC which has been replaced; **NAME="eth0"**.

Step 5 Rename the **Name=<eth>** values for the newly installed NIC. For example, **NAME="eth4"** should be renamed to **NAME="eth0"**.

Step 6 Save and close the file.

Step 7 Type the following command:

```
reboot
```

Your network settings are now updated.

6

RE-INSTALLING QRADAR LOG MANAGER FROM THE RECOVERY PARTITION

This section provides information about re-installing IBM Security QRadar Log Manager software from the recovery partition. When you re-install QRadar Log Manager, your system is restored back to factory default configuration, meaning that your current configuration and data files are overwritten. Before you begin, review the guidelines for navigating the installation wizard. See [Using the Installation Wizard](#).

NOTE

This section applies to new QRadar Log Manager 7.1 (MR1) installations or upgrades from new QRadar Log Manager 7.0 installations on QRadar Log Manager appliances.

When you install QRadar Log Manager 7.1 (MR1), the installer (ISO) is copied into the recovery partition. From this partition, you can re-install QRadar Log Manager, which restores QRadar Log Manager to factory defaults.

NOTE

Any software upgrades you perform after you install QRadar Log Manager 7.1 (MR1) replaces the ISO file with the newer version.

When you reboot your QRadar Log Manager appliance, you are presented with the option to re-install the software. If you do not respond to the prompt after 5 seconds, the system reboots as normal, thus maintaining your configuration and data files. If you choose the re-install QRadar Log Manager option, a warning message is displayed and you must confirm that you want to re-install QRadar Log Manager. After confirmation, the installer runs and you can follow the prompts through the installation process.

NOTE

After a hard disk failure, you are unable to re-install from the recovery partition, because it is no longer available. If you experience a hard disk failure, contact Customer Support for assistance.

This section includes the following topics:

- [Preparing for Re-installation from a Recovery Partition](#)
- [Re-installing a QRadar Log Manager Appliance](#)
- [Re-installing a QRadar Log Manager 1605 Appliance](#)

Preparing for Re-installation from a Recovery Partition

To prepare for re-installation:

Step 1 Reboot your QRadar Log Manager appliance.

A menu is displayed with the following options:

- **Normal System** - Starts QRadar Log Manager as normal.
- **Factory re-install** - Runs the installer.

Step 2 Select **Factory re-install**.

The installer runs and detects that there is already an installation present.

Step 3 Type `flatten` to continue.

The installer partitions and reformats the hard disk, installs the OS, and then re-installs QRadar Log Manager. You must wait for the flatten process to complete. This process can take up to several minutes, depending on your system. When the process is complete, a confirmation is displayed:

Step 4 Type `setup`.

Step 5 Log in to QRadar Log Manager as the root user.

Username: root

Password: <password>

The End User License Agreement (EULA) is displayed.

Step 6 Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document. Type **yes** to accept the agreement, and then press Enter.

The activation key window is displayed. The activation key 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.

NOTE

If you do not have your activation key, contact the Welcome Center at welcomecenter@q1labs.com with the serial number of the QRadar Log Manager appliance. Software activation keys do not require serial numbers.

Step 7 Type your activation key and press Enter.

NOTE

The letter l and the number 1 (one) are treated the same, as are the letter O and the number 0 (zero).

If you are setting up a QRadar Log Manager 3105, the Tuning Template window is displayed. Go to [Re-installing a QRadar Log Manager Appliance](#).

If you are setting up a QRadar Log Manager 1605, the Time Zone Continent window is displayed. Go to [Re-installing a QRadar Log Manager 1605 Appliance](#).

Re-installing a QRadar Log Manager Appliance

To re-install a QRadar Log Manager appliance:

- Step 1** Select the **Enterprise** tuning template. Select **Next** and press Enter.
- Step 2** Choose one of the following options:
- **Manual** - Select this option to manually input the time and date. Select **Next** and press Enter. The Current Date and Time window is displayed. Go to [Step 3](#).
 - **Server** - Select this option to specify your time server. Select **Next** and press Enter. The Enter Time Server window is displayed. Go to [Step 4](#).
- Step 3** To manually enter the time and date, type the current date and time. Select **Next** and press Enter. Go to [Step 7](#).
- Step 4** To specify a time server, in the **Time server** field, type the time server name or IP address. Select **Next** and press Enter.
- The Time Zone Continent window is displayed.
- Step 5** Select your time zone continent or area. Select **Next** and press Enter.
- The Time Zone Region window is displayed.
- Step 6** Select your time zone region. Select **Next** and press Enter.
- Step 7** Select an internet protocol version. Select **Next** and press Enter.
- The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.
- Step 8** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 9** Choose one of the following options:
- If you are using IPv4 as your Internet protocol, go to [Step 12](#).
 - If you are using IPv6 as your Internet protocol, go to [Step 10](#).
- Step 10** Choose one of the following options:
- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 12](#).
 - b To manually configure for IPv6, select **No** and press Enter. Go to [Step 11](#).
- Step 11** To enter network information to use for IPv6:

- a In the **Hostname** field, type a fully qualified domain name as the system hostname.
- b In the **IP Address** field, type the IP address of the system.
- c In the **Email server** field, type the email server. If you do not have an email server, type `localhost` in this field.
- d Select **Next** and press Enter. Go to **Step 13**.

Step 12 Configure the QRadar Log Manager network settings:

- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.
 - **Email Server** - Type the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

Step 13 Configure the QRadar Log Manager root password:

- a Type your password. Select **Next** and press Enter
The password must meet the following criteria:
 - Must contain at least five characters
 - No spaces
 - Can include the following special characters: @, #, ^, and *.
 The Confirm New Root Password window is displayed.
- b Retype your new password to confirm. Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.

The Configuration is Complete window is displayed.

Step 14 Press Enter to select **OK**.

You are now ready to access QRadar Log Manager. For more information on accessing QRadar Log Manager, see [Accessing the QRadar Log Manager User Interface](#).

Re-installing a QRadar Log Manager 1605 Appliance

To re-install a QRadar Log Manager 1605 appliance:

- Step 1** Select your time zone continent or area. Select **Next** and press Enter.
The Time Zone Region window is displayed.
- Step 2** Select your time zone region. Select **Next** and press Enter.
- Step 3** Select an internet protocol version. Select **Next** and press Enter.
The window displays up to a maximum of four interfaces depending on your hardware configuration. Each interface with a physical link is denoted with a plus (+) symbol.
- Step 4** Select the interface that you want to specify as the management interface. Select **Next** and press Enter.
- Step 5** Choose one of the following options:
- If you are using IPv4 as your Internet protocol, go to [Step 8](#).
 - If you are using IPv6 as your Internet protocol, go to [Step 6](#).
- Step 6** To configure IPv6, choose one of the following options:
- a To automatically configure for IPv6, select **Yes** and press Enter. The automatic configuration can take an extended period of time. Go to [Step 8](#).
 - b To manually configure for IPv6, select **No** and press Enter. Go to [Step 7](#).
- Step 7** To enter network information to use for IPv6:
- a Type the values for the **Hostname**, **IP Address**, and **Email server**.
 - b Select **Next** and press Enter.
- Step 8** Configure the QRadar Log Manager network settings:
- a Enter values for the following parameters:
 - **Hostname** - Type a fully qualified domain name as the system hostname.
 - **IP Address** - Type the IP address of the system.
 - **Network Mask** - Type the network mask address for the system.
 - **Gateway** - Type the default gateway of the system.
 - **Primary DNS** - Type the primary DNS server address.
 - **Secondary DNS** - Optional. Type the secondary DNS server address.
 - **Public IP** - Optional. Type the Public IP address of the server. This is a secondary IP address that 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 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.

- **Email Server** - Type the name of the email server. If you do not have an email server, type `localhost` in this field.
- b Select **Next** and press Enter.

NOTE

If you are changing network settings using `qchange_netsetup`, select **Finish** and press Enter. See [Changing Network Settings](#).

Step 9 Configure the QRadar Log Manager root password:

- a Type your password. Select **Next** and press Enter.

The password must meet the following criteria:

- Must contain at least five characters
- No spaces
- Can include the following special characters: @, #, ^, and *.

The Confirm New Root Password window is displayed.

- b Retype your new password to confirm.
- c Select **Finish** and press Enter.

A series of messages are displayed as QRadar Log Manager continues with the installation. This process typically takes several minutes.

The Configuration is Complete window is displayed.

- d Press Enter to select **OK**.

You are now ready to access QRadar Log Manager. For more information on accessing QRadar Log Manager, see [Accessing the QRadar Log Manager User Interface](#).

A

NOTICES AND TRADEMARKS

What's in this appendix:

- [Notices](#)
- [Trademarks](#)

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

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INDEX

A

about this guide 1
accessing the user interface 9

B

browser support 5

C

components
 console 4
 event collector 4
 event processor 4
 magistrate 4
 QRadar QFlow Collector 4
conventions 1

H

hardware requirements 4

I

installing
 HA secondary QRadar SIEM appliance 18
 QFlow appliance 14
 QRadar appliance 11
 virtual appliances 29

J

Japanese support 9

N

network settings
 all-in-one Console 35
 changing 35
 Console in a multi-system deployment 37
 hierarchy 7
 identifying 6
 non-Console in a multi-system deployment 40

P

preparing
 identifying log sources 7
 identifying network settings 6
 installation 3
 network hierarchy 7

R

recovering
 HA secondary QRadar SIEM appliance 18
re-installing from the recovery partition 45

S

software requirements 5
supported Browsers 5

V

virtual appliances 29
 before you begin 29
