

IBM Security QRadar  
Version 7.1.0 (MR2)

*Installing QRadar 7.1 Using a Bootable  
USB Flash-drive Technical Note*



**Note:** Before using this information and the product that it supports, read the information in [“Notices and Trademarks”](#) on [page 7](#).

# CONTENTS

---

<b>1</b>	<b>INSTALL QRADAR 7.1 USING A BOOTABLE USB FLASH-DRIVE</b>	
	About this technical note . . . . .	1
	Before you begin . . . . .	1
	Hardware requirements . . . . .	1
	Software requirements . . . . .	2
	Supported versions . . . . .	2
	Using QRadar to create a bootable USB flash-drive . . . . .	2
	Using Linux to create a bootable USB flash-drive . . . . .	4
	Installing QRadar using a USB flash-drive. . . . .	5
<hr/>		
<b>A</b>	<b>NOTICES AND TRADEMARKS</b>	
	Notices . . . . .	7
	Trademarks . . . . .	9



# 1

## INSTALL QRADAR 7.1 USING A BOOTABLE USB FLASH-DRIVE

This technical note provides information on how to create a USB flash-drive capable of installing or reinstalling IBM Security QRadar software on your QRadar appliance.

---

### About this technical note

This document only applies to full installations on QRadar appliances; it does not apply to upgrades or patches.

Unless otherwise noted, the procedure outlined below can be used to create a bootable USB flash drive for QRadar, QRadar Log Manager, QRadar Risk Manager, or QRadar Network Anomaly Detection using a QRadar 7.1 ISO file. Any patches or updates that you have applied to your system must be installed separately after you install or reinstall completes.

**CAUTION:** *You are not permitted to use these instructions to re-install QRadar software on your own RedHat hardware, as doing so can violate your QRadar license agreement.*

---

### Before you begin

Before you can create a bootable USB flash-drive for a QRadar system, you must have access to the following hardware and software.

#### Hardware requirements

You must have access to the following hardware to create a bootable USB flash-drive:

- 2 GB (or larger) USB flash-drive
- A Linux RedHat 6.3 system

For example,

- A QRadar appliance running RedHat Linux 6.3
- A secondary Linux appliance running RedHat Linux 6.3

**Note:** You can determine the version of RedHat Linux with the `cat /etc/redhat-release` command.

- Software requirements** You must have access to the following software to create a bootable USB flash-drive:
- A QRadar ISO image of the following version:
    - Rhe664QRadar7\_1\_0\_380596.iso (QRadar 7.1)
    - Rhe664QRadar7\_1\_0\_445128.iso (QRadar 7.1 Maintenance Release 1)
    - Rhe664QRadar7\_1\_0\_501605.iso (QRadar 7.1 Maintenance Release 2)
  - The create-usb-install-key.py Python script

The required software is available from one of the following websites:

- <http://www.ibm.com/support>
- <https://qmmunity.q1labs.com/>

---

**Supported versions** The USB create key script is intended to create QRadar 7.1 bootable USB flash-drives to install or reinstall QRadar 7.1 appliances. You must create your USB flash-drive from a QRadar 7.1 ISO and install or re-install to a QRadar system that is at minimum QRadar 7.1.0.380596 or above.

**Note:** You cannot create a bootable USB flash-drive from a QRadar 7.0 appliance.

---

### Using QRadar to create a bootable USB flash-drive

You can use another QRadar 7.1 appliances from your deployment to create a bootable USB flash-drive.

If you need to re-install QRadar software and your appliance does not have Internet connectivity, you can download and copy the script and QRadar ISO to a desktop computer or another QRadar appliance with Internet access. You can then copy the script and ISO file to a QRadar system in your deployment.

#### Procedure

**Step 1** Download a QRadar ISO file:

- a Access one of the following support websites to download QRadar ISO files:
  - <https://qmmunity.q1labs.com/>
  - <http://www.ibm.com/support>

- b Locate the software version you want to download.

For example, the ISO name can resemble the following:

`Rhe664QRadar7_1_0_<build>.iso`

Where, <build> is the software build version for the ISO image.

- c Save the file.
- d Copy the ISO image to a directory on your QRadar system.  
For example, /tmp.

**Step 2** Download the create-usb-install-key.py script:

a Access one of the following support websites and locate the script:

- <https://qmmunity.q1labs.com/>
- <http://www.ibm.com/support>

The create-usb-install-key.py script is also included in the QRadar Maintenance Release 2 ISO file (QRadar 7.1.0.501605). The script is located in the /post directory, after you mount the ISO.

b Save the file.

c Copy the create-usb-install-key.py script to a directory on your QRadar system. For example, /tmp.

**Step 3** Using SSH, log in to your QRadar system as the root user.

Username: `root`

Password: `<password>`

**Step 4** Insert your USB flash-drive in the front USB port on your system.

Depending on your system, it might take up to 30 seconds to recognize a USB flash-drive.

**Step 5** Type the following command to start the USB creation script:

```
/tmp/create-usb-install-key.py
```

**Step 6** Press Enter.

**Step 7** Press **1**, then press Enter to type the path to the ISO file.

For example,

```
/tmp/Rhe664QRadar7_1_0_<build>.iso
```

**Step 8** Press **2**, then press Enter to select the drive containing your USB flash-drive.

**Step 9** Press **3**, then press Enter to create your USB key.

**Step 10** Type **create** and press Enter to start the USB creation process.

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

**Step 11** Press **q** to quit the USB key script.

**Step 12** Remove the USB flash-drive from your QRadar system.

You are now ready to use your USB flash-drive to install or reinstall QRadar on an appliance.

---

**Using Linux to create a bootable USB flash-drive**

You can use a Linux RedHat 6.3 system to create a bootable USB flash-drive for QRadar 7.1.

**Procedure**

**Step 1** Download a QRadar ISO file:

a Access one of the following support websites:

- <https://qmmunity.q1labs.com/>
- <http://www.ibm.com/support>

b Locate the software version you want to download.

For example, the ISO image may resemble the following:

`Rhe664QRadar7_1_0_<build>.iso`

Where, <build> is the software build for the ISO image.

c Save the file.

d Copy the ISO image to a directory on your Linux-based system.

For example, /tmp.

**Step 2** Download the create-usb-install-key.py script:

a Access one of the following support websites and locate the script:

- <https://qmmunity.q1labs.com/>
- <http://www.ibm.com/support>

The create-usb-install-key.py script is also included in the QRadar Maintenance Release 2 ISO file (QRadar 7.1.0.501605). The script is located in the /post directory, after you mount the ISO.

b Save the file.

c Copy the create-usb-install-key.py script to a directory on your QRadar system.

For example, /tmp.

**Step 3** Log in to your Linux-based system as the root user.

Username: `root`

Password: `<password>`

**Step 4** Update your Linux-based system to include the following packages:

- `syslinux`
- `mtools`
- `dosfstools`
- `parted`

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

**Step 5** Insert your USB flash-drive into the USB port on your system.



Depending on your system, it might take up to 30 seconds to recognize a USB flash-drive.

**Step 6** Type the following command to start the USB creation script:

```
/tmp/create-usb-install-key.py
```

**Step 7** Press Enter.

**Step 8** Press **1**, then press Enter to type the path to the ISO file.

For example,

```
/tmp/Rhe664QRadar7_1_0_<build>.iso
```

**Step 9** Press **2**, then press Enter to select the drive containing your USB flash-drive.

**Step 10** Press **3**, then press Enter to create your USB key.

**Step 11** Type **create** and press Enter to start the USB creation process.

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

**Step 12** Press **q** to quit the USB key script.

**Step 13** Remove the USB flash-drive from your QRadar system.

You are now ready to use your USB flash-drive to install QRadar on your appliance.

---

## Installing QRadar using a USB flash-drive

You can now install your QRadar 7.1 appliance using a bootable USB flash-drive.

### Procedure

**Step 1** Insert the bootable USB flash-drive into the USB port of your QRadar 7.1 appliance.

**Step 2** Restart the appliance.

**Step 3** Press the key required to load the boot menu for your appliance.

**Step 4** Select USB as the boot option.

The USB flash-drive prepares for the QRadar installation. It can take up to an hour to start the installation process.

**Step 5** Optional. If you are overwriting an existing QRadar installation, type **FLATTEN** when prompted.

**Step 6** When the login prompt is displayed, type **root**.

**Step 7** Type **SETUP** to begin the installation.

**Step 8** Follow the prompts to install QRadar.

The remaining steps are documented in the installation guide for your software product.



# A

## NOTICES AND TRADEMARKS

What's in this appendix:

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

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

---

### Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing  
IBM Corporation  
North Castle Drive  
Armonk, NY 10504-1785 U.S.A.*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing  
Legal and Intellectual Property Law  
IBM Japan Ltd.  
19-21, Nihonbashi-Hakozakicho, Chuo-ku  
Tokyo 103-8510, Japan*

**The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:**

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Corporation  
170 Tracer Lane,  
Waltham MA 02451, USA*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the

capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

---

## Trademarks

IBM, the IBM logo, and [ibm.com](http://www.ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at <http://www.ibm.com/legal/copytrade.shtml>.

The following terms are trademarks or registered trademarks of other companies:

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.



Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

