IBM QRadar Version 7.3.0

Security Technical Implementation Guide (STIG)



# Note Before you use this information and the product that it supports, read the information in "Notices" on page 15.

#### **Product information**

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## **About this STIG for QRadar guide**

This documentation includes the requirements and procedures for configuring STIG on IBM Security QRadar.

#### **Intended audience**

The intended audience for this guide is system administrators or developers who are configuring STIG for IBM Security QRadar.

#### **Technical documentation**

To find IBM Security QRadar product documentation in the QRadar products library, see <u>Accessing IBM</u> Security Documentation Technical Note (www.ibm.com/support/docview.wss?rs=0&uid=swg21614644).

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# Chapter 1. Overview of STIG for QRadar installations

This Security Technical Implementation Guide (STIG) provides the configuration standards and steps that are required for IBM Security QRadar deployments to achieve the level of security that is required to operate in US Department of Defense (DoD) computer networks.

This STIG implementation follows IBM secure engineering practices.

#### What systems can you run STIG scripts on?

You can run STIG scripts on QRadar All-in-One consoles. You can also run STIG scripts on Event Processors and Flow Processors, but you must use the expert guidance of your IBM Security QRadar Client Technical Professional (CTP) or IBM QRadar Product Professional Services to complete the task.

IBM Security QRadar is working to support running STIG scripts on the following products, but they are not currently supported:

- IBM QRadar Network Insights
- IBM Security QRadar Incident Forensics
- IBM QRadar Network Packet Capture
- IBM Security QRadar Packet Capture
- QRadar Packet Capture Data Nodes
- IBM Security QRadar Risk Manager
- IBM Security QRadar Master Console
- · App Nodes

#### **Exceptions to STIG compliance**

For operational and performance reasons, full-disk encryption, SELinux (Security-Enhanced Linux), and patch maintenance are intentionally excluded from the hardening procedures for full STIG compliance.

#### **Full-disk encryption**

The Red Hat Enterprise Linux 7 Security Technical Implementation Guide (STIG) (beta) states that you must enable *LUKS* (Linux Unified Key Setup-on-disk-format), which is full-disk encryption. However, the performance degradation that is experienced in a QRadar deployment prohibits this full-disk encryption. The suggested solution is to maintain all QRadar hosts in a physically-secured environment.

#### **SELinux** considerations

If you enable SELinux in enforcement mode, the performance of QRadar is significantly impacted. An alternative template for QRadar hosts is not available.

You must protect your privileged user passwords so that access to the operating system is restricted.

#### **Software maintenance**

Software fixes or updates for QRadar hosts are provided only by IBM, whether Red Hat Enterprise Linux is installed separately or not. You must disable Red Hat Enterprise Linux subscription feeds, and all RPM updates must be provided only by IBM. IBM regularly provides software fixes and updates for product defects and known vulnerabilities within QRadar and Red Hat Enterprise Linux.

#### **Root logins**

When you run STIG on an All-in-One appliance, you can't use the SSH root account to log in remotely to the QRadar Console.

#### SSH access control

IP (Internet Protocol) based access controls for SSH connections are applied to managed hosts but not to Consoles.

Note: Use iptables rather than SSH configuration to restrict SSH access.

See the IBM Security QRadar Administration Guide for information about creating iptables rules.

#### **Routing and Bridging**

Docker containers that run on QRadar hosts use bridged interfaces for connecting and routing to the host. You can't disable forwarding (routing) on a QRadar host because it might block communication with the containers. To limit the risk with forwarding, use iptables firewall filtering instead.

#### **FTP**

An FTP server package (vsftpd) is installed on QRadar hosts but is unavailable on all QRadar hosts except for QRadar Incident Forensics hosts.

When the FTP server package is enabled it uses TLS authentication and chroot to restrict access. The FTP daemon only runs when QRadar Incident Forensics is being used.

**Note:** You can remove the FTP package but it might impact future product upgrades and cause them to fail.

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# **Chapter 2. Prerequisites for STIG implementation**

You must prepare your IBM Security QRadar setup before you implement STIG.

#### **Hardware**

All QRadar hardware that is required in the deployment must be available and ready to configure.

#### Software

The hardening script is included in the QRadar ISO image. You can install RHEL 7 separately, but you don't have to because QRadar 7.3 comes with the pre-requisite RPMs installed, suitable partitioning, and uses LVM.

The only time you might pre-install RHEL 7 is when you want to uses Full Disk Encryption but it's not supported.

# Chapter 3. Installing QRadar in a STIG environment overview

This Security Technical Implementation Guide (STIG) provides guidance for implementing security standards for IBM Security QRadar deployments that meet the requirements set by the Defense Information Systems Agency (DISA). Hardening of the operating system and QRadar hosts are part of making QRadar deployments more secure.

#### **About this task**

Use STIG for highly secure environments, such as the federal government. The procedures in this guide are not suitable for every QRadar deployment.

**Note:** Before you run the STIG scripts on a managed host, you must add the managed host to your QRadar deployment and deploy a full configuration. When you run the STIG scripts, secure key authentication replaces the requirement for root passwords between the Console and the managed host.

You must complete the following procedures to make QRadar STIG-compliant:

#### **Procedure**

1. Install the QRadar 7.3 ISO image by following the steps that are specified in the *IBM Security QRadar Installation Guide*.

If you choose to

do a software install and install RHEL separately, then you must follow the partitioning guidelines in the *IBM Security QRadar Installation Guide*.

- 2. Create a non-root user.
- 3. Run scripts that automate hardening of the operating system.
- 4. Edit QRadar scripts.
- 5. Change the boot loader configuration.

#### Creating a non-root user in a STIG-compliant environment

You can't log in remotely as the root user in a STIG-compliant environment. On each host in the QRadar deployment, create a non-root user who has **sudo** access and choose a non-root user name such as stiguser.

#### **Procedure**

1. To create the non-root user, type the following commands:

```
useradd -c 'Admin User' -d /home/stiguser -m -s /bin/bash stiguser passwd stiguser
```

The password must follow these guidelines:

- · Consist of 15 or more characters.
- Not repeat the same character consecutively more than two times.
- Not repeat the same character type consecutively more than two times.
- · Have at least one uppercase character.
- · Have at least one numerical character.
- · Have at least one special character.

**Tip:** These new password requirements are enforced when the STIG script is run. If your root password doesn't meet these requirements, you can change it now.

2. Edit the /etc/sudoers file and at the end of the file, type the following line:

```
stiguser ALL=(ALL) ALL
```

**Note:** It is conventional to use tabs for white space but it's not a requirement; for example:

```
stiguser ALL=(ALL) ALL
```

Use the # symbol to comment out any lines that contain NOPASSWD.

**Tip:** If you use the Vim text editor, type :/NOPASSWD in command mode to search for any instances of NOPASSWD.

3. Verify that the new user can log in from a remote host and use the **sudo** command to become a root user.

For example, log in to the IBM Security QRadar as stiguser by using an SSH client such as PuTTY, and then run a command by using **sudo**; for example, **sudo** cat /etc/shadow.

#### Running the hardening script on the Console

To help secure the system, you must run hardening scripts on the IBM Security QRadar Console.

#### Before you begin

Before you run the hardening script, verify that the stiguser can log in remotely.

#### **Procedure**

1. Go to the STIG directory by typing the following command:

```
cd /opt/qradar/util/stig
```

2. Run the STIG hardening script by typing the following command:

```
./stig_harden.sh -h
```

Type yes at the following prompt: Do you want to continue (yes/no)?

Note: You must run the script only once.

- 3. Replace the ssl.conf and httpd.conf files in /etc/httpd/conf with the same files from the / store/STIG directory.
  - a) Copy the /store/STIG/orig-files file to /etc/httpd/conf/httpd.conf.
  - b) Copy the /store/STIG/orig-files file to /etc/httpd/conf.d/ssl.conf.

**Note:** You are overwriting the http.conf and ssl.conf files in the /etc/httpd/conf directory. These files aren't changed when the script is run.

- 4. Restart the QRadar appliance.
- 5. Verify that the stiguser can log in remotely at the same time that you (as administrator) are logged in as a root user.

If you are hardening a managed host, change the root user's password to meet the password requirements. Ensure that the root authentication works locally.

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#### **Editing scripts to configure QRadar in STIG environments**

Extra configuration tasks, such as configuring the mail server, disabling the DHCP client, updating iptables, and changing the backup log directory location are required when you configure QRadar in STIG environments.

#### **Procedure**

- 1. To ensure that the mail server on each host is listening on local interfaces:
  - a) Make a backup copy of the /etc/postfix/main.cf file.
  - b) Edit the /etc/postfix/main.cf file and verify that the inet\_interfaces line is similar to one of the following examples:
    - inet\_interfaces = localhost.
    - inet\_interfaces = loopback-only.
  - c) Restart postfix by typing the following command:

```
systemctl restart postfix
```

- 2. Disable the DHCP client by editing the /etc/sysconfig/network-scripts/ ifcfg\* files:
  - a) Type the following command:

```
grep -i BOOTPROTO /etc/sysconfig/network-scripts/ ifcfg*
```

b) For each interface configuration file that is returned, change the **BOOTPROTO** value to **none** if this value is not equal to **static** or **none**. In the following example the **BOOTPROTO** value equals **none**.

#### **Example:**

```
DEVICE=ens192

ONBOOT=yes

BOOTPROTO=none

IPADDR=192.168.122.254

NETMASK=255.255.255.0
```

- 3. Change iptables and set the default INPUT policy to DROP:
  - a) Make a backup copy of the /opt/gradar/bin/iptables\_update.pl file.
  - b) Edit the /opt/qradar/bin/iptables\_update.pl file and change all instances of INPUT ACCEPT [0:0] to INPUT DROP [0:0].
  - c) Run the /opt/gradar/bin/iptables\_update.pl script.
- 4. Add the following line at the end of the /etc/hosts.allow file on the QRadar Console:

```
time: ALL
```

- 5. Change the backup log directory:
  - a) Search for the /var/log/backup.log log file and if it exists, move the file to /store/LOGS.

**Note:** The /var/log/backup.log does not exist on a fresh install.

- b) Make a backup copy of the /opt/qradar/bin/backup.sh file.
- c) Edit the /opt/qradar/bin/backup.sh file and replace the InitLog @syslog:local1.info || ErrorExit 'Failed to initialize logging' line in the /opt/gradar/bin/backup.sh file with the following line:

InitLog /store/LOGS/\$(basename  $\$\{0\}$  .sh).log || ErrorExit 'Failed to initialize logging'

- 6. To disable packet forwarding on a host that is not a QRadar Console:
  - a) Run the following script to disable forwarding on a host that is not a QRadar Console:

```
sysctl -w net.ipv4.ip_forward=0
```

- b) Edit the /etc/sysctl.conf file to add the net.ipv4.ip forward = 0 line.
- 7. Create an AIDE baseline, schedule integrity checks, and create the baseline and schedule updates.
  - a) To check for the existence of prelink, type the following command:

```
rpm -qa | grep prelink
```

If nothing is returned, skip step b.

b) If results for prelink are returned in step a, run the following command:

```
/usr/sbin/prelink -ua
```

c) As root user, initialize the AIDE database by typing:

```
aide --init
```

d) Create a cron script in /etc/cron.d to enable the following aide --update:

```
mv -f /var/lib/aide/aide.db.new.gz /var/lib/aide/aide.db.gz ; aide --
update
```

e) Run the aide --update after you run a QRadar deployment action.

The content in the monitored fields changes when configuration changes are made after a deployment.

- 8. To configure **audit logging** forwarding to a remote log server:
  - a) In the /opt/qradar/syslog-ng/syslog-ng.conf.default file, change the following entry from:

```
# local4.info
filter local4_info { facility(local4) and level(info..emerg) and not match("Token: Local Health Console"
value("MESSAGE")); };
destination audit { file("/var/log/audit/audit.log" perm(0600) create_dirs(yes) flush_lines(20) flush_timeout(500)); };
log { source(local); filter(local4_info); destination(audit); };
```

to:

b) Replace \$\$LOGHOST\$\$ with the IP address of the appropriate log host.

#### **Changing the boot loader configuration**

Change the GRUB 2 boot loader settings to configure the non-root user for STIG environments and other settings. Update the GRUB 2 boot loader configuration on the QRadar Console, event processors, and flow processors.

#### **About this task**

The stig\_harden.sh sets audit=1 in the /etc/default/grub file.

Update the GRUB 2 configuration for the change to be effective.

#### **Procedure**

- 1. Type tar -cvf /root/grub2backup.tar /etc/grub.d /etc/default/grub /boot/grub2 to back up of the following GRUB 2 configuration files and directories:
  - /etc/grub.d
  - /etc/default/grub and /boot/grub2

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2. Run the following script to generate a password hash for the boot loader.

```
grub2-mkpasswd-pbkdf2
```

Note the hash value that is generated, and use the hash value output to replace the hash content (example) in step 3.

**Tip:** You can copy and paste the generated hash value if you complete this step remotely by using the stiguser user account.

3. Edit the /etc/grub2.cfg file, by typing the following two lines:

```
set superusers=stiguser and
```

password\_pbkdf2 stiguser after the

### END /etc/grub.d/00\_header ### line, and then paste the hash value content from step 2.

Here's an example:

```
### END /etc/grub.d/00_header ###
set superusers=stiguser
password_pbkdf2 stiguser
1 grub.pbkdf2.sha512.10000.51A734C16CD93009EED3814937CCBABAF
70256B5EB67BE6B6D96138A110B3092722248605923588F143375E09149520ADE32
5EB4791DA08C74F0E48A2A1CD3F8.D1B528BD41790DAFF9479A511FD95EF03B4F4A
583EF6DA53AA2DFE10941A028F15AA9ADEEEE0E3398F5734516655820C836BBBA86
5911282D326C5B7EA2FEC1A 2
#### BEGIN /etc/grub.d/10_linux ###
```

You insert the hash value between 1 and 2, which follows the set superusers=stiguser and password\_pbkdf2 stiguser lines.

For example,

```
排排 END /etc/grub.d/00_header 排排 set superusers=stiguser password_pbkdf2 stiguser <hash_value_content...>
排排 BEGIN /etc/grub.d/10_linux 排排
```

Note: The hash value content line that starts with grub. pbkdf2 is one continuous line.

4. In the /boot/grub2/grub.cfg file, edit every line that begins with menuentry so that --users is followed by stiguser.

Here's an example:

```
### BEGIN /etc/grub.d/10_linux
### menuentry 'Red Hat Enterprise Linux Server'
--class gnu-linux --class gnu --class os --users stiguser
$menuentry_id_option 'gnulinux-simple-f804409d-9e87-4e19-a321-a26b55a66fd9'
{ load_video set gfxpayload=keep
```

**Tip:** If you use the Vim text editor, type :/menuentry to search for any instances of menuentry.

**Note:** If --class os is followed by --unrestricted, replace --unrestricted with --users stiguser.

# **Chapter 4. Post-installation checks**

Post-installation checks are required to complete your STIG compliance.

**Note:** If you've install QRadar and RHEL from the QRadar ISO image, the following checks might not be necessary.

#### Passwords restricted to 1-day minimum lifetime

Type the following command to check for any violations:

```
awk -F: '$4 >= 1 {print $1}' /etc/shadow
```

You must change the password-restriction setting for any non-system accounts or non-user accounts that are displayed.

#### Passwords restricted to 60-day maximum lifetime

Type the following command to check for any violations:

```
awk -F: $5 \ge 1 \{ print $1 \}' / etc/shadow
```

You must change the password-restriction setting for any non-system accounts or non-user accounts that are displayed.

#### **Duplicate user IDs (UID)**

Type the following command to check for duplicate user IDs:

pwck -rq

Accounts that are displayed are in violation of this rule.

# **Chapter 5. STIG notes**

Review vulnerabilities updates and software updates regularly to make sure that your environment is current.

#### **Vulnerabilities**

Some false positives in QRadar are caused by software banners such as Apache that might display older versions than the installed version. Vulnerability scans often report false positives for critical software such as Apache, and OpenSSH.

#### **Upgrading QRadar software**

Before you upgrade QRadar software on a STIG hardened system in a production environment, ensure that you have a full backup that is up to date, and test software upgrades in a pre-production environment.

If you can't test a software upgrade in a pre-production environment, and you want to be fully protected before you upgrade QRadar software on a STIG hardened system, back up your data and system configuration and then take the following steps:

- 1. Reinstall QRadar and RHEL software.
- 2. Install software fixes.
- 3. Restore the data and system configuration.
- 4. Run the STIG scripts.

#### **Maintenance in STIG environments**

QRadar changes or upgrades might undo the configuration that you made, as part of the STIG hardening procedure.

Some files or scripts in the /opt/qradar directory are impacted by a QRadar software update or upgrade. The logging configuration and SSHD configuration are also impacted. Restore the hardening configuration by rerunning the hardening scripts, and then verifying that the manual changes that you made are implemented.

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