

IBM Security QRadar
Version 7.2.0

Restoring Data Technical Note



Note: Before using this information and the product that it supports, read the information in [“Notices and trademarks”](#) on [page 9](#).

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RESTORE DATA

You can backup your configuration information and data using the QRadar Admin tab.

The data portion of the backup includes all offenses (including source and destination IP address information), asset data, event category information, vulnerability data, event data, and flow data located on your QRadar SIEM Console and managed hosts with storage.

Unless otherwise noted, all references to QRadar refer to IBM Security QRadar SIEM, QRadar Log Manager, and IBM Security QRadar Network Anomaly Detection. References to flows do not apply to QRadar Log Manager.

For more information about backing up your configuration and data, see the *IBM Security QRadar SIEM Administration Guide*.

Restoring your data

If you are using QRadar 6.3 and above, you can restore your configuration information using the QRadar interface, however, you must use the procedures in this document to restore your data.

Before you begin

Each managed host in your deployment, including the QRadar SIEM Console, creates all backup files in the `/store/backup/` directory.

Your system might include a mount `/store/backup` from an external SAN or NAS service, which allows for long term off-line retention of data, as often required for compliancy regulations. For example, PCI.

Administrators must consider the following prerequisites:

- If you are restoring data on a newly installed console, you must restore the configuration backup before restoring the data backup.
- Locate the managed host on which the data is backed up.
- All systems in your deployment with storage capabilities store the backups locally in the following directory: `/store/backup`. All backup files are saved using the following format:

```
backup.<name>.<hostname_hostID>.<target date>.<backup type>.<timestamp>.tgz
```

Where:

<name> is the name associated with the backup.

<hostname_hostID> is the name of the QRadar system hosting the backup file followed by the identifier for the QRadar system.

<target date> is the date that the backup file was created. The format of the target date is <day>_<month>_<year>.

<backup type> is the type of backup. The options are `data` or `config`.

<timestamp> is the time that the backup file was created.

- Make sure your `/store (/store/ariel)` directory includes adequate space (if your deployment includes a separate mount point for that volume) for the data you want to recover.
- Identify the date and time for the data you want to recover.

Procedure to restore your data

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

Username: **root**

Password: **<password>**

Step 2 To change the directory, type the following command:

```
cd /store/backup
```

Step 3 To locate the data files you need to restore, type the following command:

Note: If no backup files are listed, skip [Step 5](#).

Step 4 To change the directory to the root directory, type the following command:

```
cd /
```

Step 5 To extract the files to their original directory, type the following command:

```
tar -zxpvPf  
/store/backup/backup.<name>.<hostname_hostID>.<target date>  
.<backup type>.<timestamp>.tgz
```

Results

Daily backup of data captures all data on each host. If you want to restore data on a managed host that only contains event or flow data, only that data is restored to that host.

Note: If you want to maintain the restored data, you can increase your data retention settings to prevent the nightly disk maintenance routines from deleting your restored data. To ensure your restored data is not deleted, see [Verifying data is restored](#).

Verifying data is restored

Verifying your data has been restored correctly.

Procedure

- Step 1** To verify the files are restored by investigating one of the restored directories, type the following command:

```
cd /store/ariel/flows/payloads/<yyyy/mm/dd>
```

You can view the restored directories that are created for each hour of the day. If directories are missing, this might indicate that no data was captured for that time period.

- Step 2** Verify the restored data is now available:

- a Log into the QRadar interface.
- b Click the **Log Activity** or **Network Activity** tab.
- c Select **Edit Search** from the **Search** list box on the toolbar.
- d In the Time Range pane of the **Search** window, select **Specific Interval**.
- e Select the time range of the data you restored in [Step 5](#).
- f Click **Filter**.
- g View the results to verify the restored data.

Note: After you have verified that your data is restored to your system, you must re-apply RPMs for any DSMs, vulnerability assessment (VA) scanners, or log source protocols.

What to do next

For more information on log source protocols, see the *Log Sources Users Guide*.

For more information on DSMs, see the *Configuring DSMs Guide*.

For more information on VA scanners, see the *Managing VA Guide*.

Troubleshoot data restore

If your restored data is not available in the QRadar interface, you need to verify that data is restored in the proper location and file permissions are correctly configured.

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- For example, the restored files need to be located in the `/store` directory, however, if you typed `cd` instead of `cd /` in **Step 4**, the files are restored in the directory in which you typed the command (the `/root/store` directory). Also, if you omitted **Step 4**, the files are restored in the `/store/backup/store` directory.
- Typically, files are restored with the original permissions. However, if the files are owned by the root user account, this can cause issues. If this is the case, adjust the files permissions using the `chown` and `chmod` commands. For assistance, contact customer support.

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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