

Partition Splitting
Version 7.1.0 MR1

Technical Note

IBM

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

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PARTITION SPLITTING

This document provides information on how to use a QRadar SIEM script to create a partition and move the `/store/ariel/persistent_data` location and contents into the new partition for systems running High Availability (HA).

This technical note only applies to HA systems.

The partition splitting process affects both the primary and secondary HA hosts. Before running the script, you must remove the HA secondary from the HA cluster configuration. This script takes several hours to complete. During this time, the secondary host is offline, however, the primary host continues to collect data and is still available to access using the user interface. The script performs the required actions and preserves the data integrity of the contents of the `/store` location. After the script is complete, you can reconfigure your HA cluster.

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

Before you begin

Before you begin, you must have the following:

- Advanced knowledge of the Linux operating system.
- Administrative privileges for the QRadar SIEM software.
- Administrative privileges for the systems running QRadar SIEM and HA.

Be aware that there are potential risks involved with running the partition script.

- Determine the disc capacity of the system. You must give the new partition an appropriate size. Typically, the new partition should be approximately 25% the size of the `/store` location. The script does not have safeguards in place to prevent the introduction of values that are incorrect or too large.
- Investigate and find the root cause of your performance issues before you run the script. Partitioning and migrating the `/store` location can resolve throttling issues where HA data replication is the reason for the slowdown.
- There is a low risk of data loss. Make sure that the host has sufficient space for a new partition. For example, if you have 100 GB of free space, you should not allocate a 400 GB partition.

For assistance, contact Customer Support.

Partition splitting script

If you have experienced performance issues caused by HA data replication that partition splitting can resolve, you can use the partition splitting script to modify the boundaries of the `/store/` partition and move the associated temporary results to the newly created partition.

This document provides information on preparing, configuring, and running the partition splitting script available with your QRadar SIEM installation.

To prepare and run the partitioning script, you need to log on to QRadar SIEM as an administrator, and then SSH to both the primary and secondary HA host.

The script is stored in the bin directory of QRadar SIEM: `/opt/qradar/bin`. The script takes two commands:

- `size` - Sets the disc space required for the new partition.
- `continue` - Resumes the processing after a reboot.

The partitioning script contains the complete set of instructions required; running the script may take several hours. You may be prompted to restart the host, if so, you can resume the script with the `continue` command.

Partitioning the HA cluster hosts

Running the partition splitting script, requires disconnecting the HA cluster.

After disconnecting the HA cluster, run the partitioning script on each of the two HA systems. The script can take several hours to complete, however, you can run the partition splitting script on both hosts at the same time. After the script is complete on both hosts, you must reconnect the HA cluster.

To partition the HA cluster hosts, perform the following procedures:

- 1 Disconnect the HA Cluster.
For more information see, [Disconnecting the HA Cluster](#)
- 2 Run the partition splitting script on the primary and secondary HA hosts:
 - [Partitioning the primary HA host](#)
 - [Partitioning the secondary HA host](#)
- 3 Reconnect the HA cluster. For information on reconnecting the HA cluster, see the *Adding an HA Cluster* section in your *IBM Security QRadar SIEM Administration Guide*.

Disconnecting the HA Cluster You can disconnect the HA cluster.

Procedure:

- Step 1** Click the **Admin** tab.
- Step 2** On the navigation menu, click **System Configuration**.
- Step 3** On the **System Configuration** panel, click the **System and License Management** icon.
- Step 4** In the System and License Management window, select the HA host you want to remove.
- Step 5** From the **High Availability** menu, select **Remove HA Host**.
- Step 6** Click **OK**.

Result:

When you remove an HA host, the host restarts.

Partitioning the primary HA host You can partition the primary HA host

Procedure:

- Step 1** Using SSH, log into the primary HA host as the `root` user:
 Username: `root`
 Password: `<password>`
- Step 2** Change to the `/opt/qradar/bin` directory.
- Step 3** Type `./create_cursor_partition.sh size=<size>`.
`<size>` should be approximately one quarter the `/store` capacity. `<size>` is written as a numeric value and the measurement specification. The partition size on the primary and secondary HA host must be the same. Type the measurement using one of the following:
 - `m` for Megabyte
 - `g` for Gigabyte
 - `t` for Terabyte
 If the script prompts you to restart the host, do the following steps:
 - a** Restart the primary host and log in as the `root` user.
 - b** Change to the `/opt/qradar/bin` directory.
 - c** Type the following command to restart the script:
`./create_cursor_partition.sh --continue`.
- Step 4** To check the partition when the script has finished, type `df -h`.

Partitioning the secondary HA host

You can partition the secondary HA host.

Procedure:

Step 1 Using SSH, log into the secondary HA host as the `root` user:

Username: `root`

Password: `<password>`

Step 2 Change to the `/opt/qradar/bin` directory.

Step 3 Type `./create_cursor_partition.sh size=<size>`.

`<size>` should be approximately one quarter the `/store` capacity. `<size>` is written as a numeric value and the measurement specification. The partition size on the primary and secondary HA host must be the same. Type the measurement using one of the following:

- `M` for Megabyte
- `G` for Gigabyte
- `T` for Terabyte

If the script prompts you to restart the host, perform the following steps:

- a Restart the secondary host and log in as the `root` user.
- b Change to the `/opt/qradar/bin` directory.
- c Type the following command to restart the script:

```
./create_cursor_partition.sh --continue.
```

Step 4 To check the partition when the script has finished, type `df -h`.

5 Reconnect the HA cluster.

For more information on reconnecting an HA cluster, see the *IBM Security QRadar SIEM High Availability (HA) Guide*.

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NOTICES AND TRADEMARKS

What's in this appendix:

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

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

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