IBM Security Guardium

Health Check Patch Release Notes

Package name:

Health Check for GPU and Upgrade installations (August 11 2021)

Filename	**MD5Sum:**
SqlGuard-11.0p9997.tgz.enc.sig	8a99cb7daa6134cebb8797c4520294a2

Dependencies:

Overview:

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The purpose of the patch is to perform preliminary checks on the Guardium appliance before v11 GPU installation in order to prevent potential issues during the upgrade.

This patch can be installed more than once.

The health check generates a log file named *health_check.<time_stamp>.log*.

In order to view the log file, perform the following actions:

1. type *fileserver* command in cli

2. open the fileserver in web browser

3. go to *Sqlguard logs->diag->current* folder and open the log file

The log file will contain a status of each validation.

In case any one of these validations has failed, the status of the failed validation will start with an "ERROR:" prefix and the following message will appear at the end of the log file:

Please send this log file and <file_name> file to support team.

In case when validation is completed with a warning (validation has failed but it will not fail the upgrade), the status of the failed validation will be "DONE", but the following message will appear at the end of the log file:

Please send this log file and <file_name> file to support team.

In this case the output has to be sent to support in order to prevent potential issue during the upgrade.

If no problem was found, the following message appears at the end of the log file:

Appliance is ready for GPU installation/upgrade.

Output of each Health Check run is available in predefined UI Report "Health Check Log".

The following will be checked by the patch:

Appliance Configuration Check:

- There is NO issue with DB size (used DB space is less than 80%).

- In case DB used space is greater than 80%, the following message appears in the output file:
    ERROR:DB is more than 80% full.
    Please reduce size of your DB and run Health Check again.

- In case DB used space is between 50% and 80%, the following message appears in the output file: WARNING:DB is more than 50% full.
    Please reduce size of your DB and run Health Check again.

    In this case we do not fail the patch, but strongly recommend to ask support to investigate the issue before GPU installation.

- There is NO issue with disk space

- In case /var partition has less than 9G of free space, the following message appears in the output file: ERROR:/var partition has less than 9G of free space.

- In case / partition has less than 1.5G of free space, the following message appears in the output file: ERROR: root partition has less than 1.5G of free space

    Note: Health Check will delete unnecessary metadata files from root partition.

Custom Query Check :

- In case customer has custom queries with the same name that are going to be added by GPU, the following message will appear in log file:

    ERROR:. Duplicate query names found.

- In case no custom queries found with the same name that are going to be added by upgrade, the following message will appear in log file:

    No duplicate queries found.

Drop obsolete columns

In order to prevent failure during insertion of analytic data collected from collector, an obsolete column AVG_EXECUTION_TIME should be dropped from the AGG_ANALYTIC_INPUT table in DATAMART DB.

In case the column is found, the following message will appear in log file:

  Obsolete column DATAMART.AGG_ANALYTIC_INPUT.AVG_EXECUTION_TIME has been dropped.

In case the column was not found, the following message will appear in log file:

  Obsolete column DATAMART.AGG_ANALYTIC_INPUT.AVG_EXECUTION_TIME was not found.

MySQL Table Corruption Check:

- In case there are any crashed tables found in the main databases, the following message will appear in the log file:
    ERROR: Crashed tables have been found.

    Guardium support should investigate the issue before GPU installation.

- In case no crashed tables are found, the following message will appear in the log file:
    No crashed tables found.

Check Hardware Version

In order to prevent failure of upgrade because of firmware version, we want to verify that current version of it will not cause upgrade issues.

- In case when hardware is not 3550 M4 or 3550 M5 or SR630 (M6), patch will NOT fail and the following message will appear in the log file: "Hardware is not a recognized type. Skipping version check."

- In case hardware version need to be checked and the check passes, the patch will NOT fail and the following message will appear in the log: "<Hardware version info>. Hardware version check passed."

  For each of the supported models/types, the health check verifies the following:
  x3550 M4 – Type 7914:
  · DSA: >= 9.54
  · IMM: >= 7.40
  · UEFI: >= 3.10
  x3550 M5 – Type 8869/5463
  · DSA: >= 10.5
  · IMM2: >= 5.40
  · UEFI: >= 3.11
  SR630 (M6) – Type 7X02:
  · BMC/XCC: >= 4.20
  · LXPM: >= 1.90
  · UEFI: >= 2.61

- In case hardware version does not pass the verification, the patch will fail and the following message will appear in the log file: "ERROR: Hardware version check failed. Please apply the latest firmware patch from IBM Fix Central"

Check Network Role

In order to prevent failure of upgrade because of wrong network configuration, the patch will verify rolemap file content

- In case configuration is correct, the following message will appear in the log file: "No need to rebuild rolemap"

- In case configuration is wrong but can be fixed by the patch, the following message will appear in the log file: "Rolemap was successfully rebuilt"

- In case configuration is wrong and the patch can not fix it, the patch will fail and the following message will appear in the log file: "ERROR: Please escalate the issue to Guardium support for fixing network configurations" and the patch will fail to prevent GPU installation failure

Check for existing TURBINE_USER_GROUP_ROLE table

TURBINE_USER_GROUP_ROLE table may be missing due to previous database crash problems.

- In case this table is missing, the following message will appear in the log file: "ERROR: TURBINE_USER_GROUP_ROLE table does not exist or is corrupted". Guardium support should be contacted to correctly rebuild this table.

- In case the table exists, no message will be written to the log file.