NVIDIA SYSTEM MANAGEMENT

RN-09705-1908 _v |

Release Notes

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Chapter 1. CHANGELOG FOR NVSM 19.08.6

NVIDIA® System Management (NVSM) is a software framework for monitoring NVIDIA DGX™ nodes in a data center. It includes active health monitoring, system alerts, and log generation. See the NVSM User Guide for more information.

NVSM Version 19.08.6 is released in December 2019, and consists of the following components:

- **nvsm-cli** v19.08.7
- **nvsm-dshm** v19.08.6
- **nvsm-apis** v19.08.10
- **nvsm-health** v19.08.10

NVSM is provided as part of the DGX OS software as well as the DGX software stack for Red Hat Enterprise Linux.

1.1. Special Update Instructions for NVSM 19.08.6

While updates to NVSM are typically provided with DGX OS or EL7 updates, you can update just the NVSM package for 19.08.6. **This applies only if you are running either DGX OS 4.2.0 or EL7-19.10 on DGX-2 systems**.

To update NVSM,

1. Update the NVSM package.

   Issue the following under Ubuntu (DGX OS 4.2.0 only).

   ```
   $ sudo apt update && sudo apt install --only-upgrade nvsm-apis nvsm-cli
    nvsm-dshm nvsm-health
   ```

   Issue the following under Red Hat Enterprise Linux (EL7-19.10 only)

   ```
   yum update nvsm-apis nvsm-cli nvsm-dshm nvsm-health
   ```

2. (Optional) Verify the correct versions are installed.

   Issue the following under Ubuntu (DGX OS 4.2.0).

```
$ apt-cache policy nvsm-apis nvsm-cli nvsm-dshm nvsm-health
```

Issue the following under Red Hat Enterprise Linux (EL7-19.10)

```
yum list installed nvsm-apis nvsm-cli nvsm-dshm nvsm-health
```

1.2. Bug Fixes

- [DGX-2]: **`nvsm dump health`** command does not collect PSU and CPLD information.
- [DGX-2]: Some firmware versions are missing from **`NVSMHEALTH_DUMP_TOOLS_ipmitool_raw.sh`** script.

1.3. Known Issues

- NVSM Reports "Unknown" for the number of logical CPU cores on Non-English locales.
- [DGX-2]: NVSM does not detect downgraded GPU PCIe Link
- [DGX-2 KVM]: **`nvidia-vm vmshow`** command does not work for running VMs.
- configure_raid_array.py script cannot recreate RAID array after re-inserting a known good SSD.
- [DGX-2]: NVSM does not detect downgraded GPU PCIe link.

Chapter 2. CHANGELOG FOR NVSM 19.08

NVIDIA® System Management (NVSM) is a software framework for monitoring NVIDIA DGX™ nodes in a data center. It includes active health monitoring, system alerts, and log generation. See the NVSM User Guide for more information.

NVSM Version 19.08 is released in September 2019, and consists of the following components:

- **`nvsm-cli`** v19.08.5
- **`nvsm-dshm`** v19.08.5
- **`nvsm-apis`** v19.08.8
- **`nvsm-health`** v19.08.5

2.1. Changes and New Features

General

- nvhealth and nvsysinfo replaced by **`nvsm health`**.
- Improved the accuracy of the RAID-1 rebuild progress bar.
- `configure_raid_array` script now enables temperature reading on Micron SSDs.
- [DGX-2]: Added bay location info to SSD IDs.

NVSM CLI

- Hide "cleared" alerts by default, unless the "**`-all`**" flag is given.
- Added **`--version`** flag to show the installed NVSM package versions.

NVSM API

- Integrated OpenAPI-based API generation.
- Added ability to show all alerts present in the database.(**`nvsm/v1/Alerts API`**).

2.2. Bug Fixes

- [DGX-2]: RAID 1 rebuild progress bar may freeze.

2.3. Known Issues

- NVSM Reports "Unknown" for the number of logical CPU cores on Non-English locales.
- [DGX-2]: NVSM does not detect downgraded GPU PCIe Link
- [DGX-2 KVM]: **`nvidia-vm vmshow`** command does not work for running VMs.
- configure_raid_array.py script cannot recreate RAID array after re-inserting a known good SSD.
- [DGX-2]: NVSM does not detect downgraded GPU PCIe link.

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