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Chapter 1. Introduction

This release covers NVIDIA Base Command™ Manager (BCM) 10.23.11. Previously release notes are located at:

https://docs.nvidia.com/base-command-manager/#release-notes

Information about BCM is available at:

https://docs.nvidia.com/base-command-manager/
Chapter 2. Change Requests

2.1 General

2.1.1 New Features

> Added support for SLES15 SP5

2.1.2 Improvements

> Changed NVIDIA Container Toolkit default values for
  o accept-nvidia-visible-devices-as-volume-mounts (false -> true) and
  o accept-nvidia-visible-devices-envvar-when-unprivileged (true -> false)
> Updated cuda-driver package to 535.129.03

2.2 CMDaemon

2.2.1 New Features

> Added a cmsh command (wlm grid) to create a timelapse view of the jobs that have run
> Added a special default gateway value (255.255.255.255) to use the one provided by dhcpd
> Added cmsh command to show dhcpd leases
> Added Border Gateway Protocol (BGP) overview for Cumulus switches
> Added Link Layer Discovery Protocol (LLDP) overview for Cumulus switches
> Added bootstrap.pem and signature checks in cm-check-certificates and switched from MD5 to SHA1

2.2.2 Improvements

> Allow nodes to be automatically powered off or reset upon installer failure
> Allow devices to be identified by serial in DHCP
> Relaxed SSL checks when registering a new Cumulus switch via ZTP
> Improved CMDaemon startup speed in HA mode
> Prevent multiple identical failover group status
> Added a flag to allow changing a user home directory to an existing directory
2.2.3 Fixed Issues

- Fixed counting of nodes and accelerators towards the license limit
- Fixed service status in cmsh of a lite-node
- Fixed crash in ArchOSInfo::is_arch_os when cm-config-os-arch is not installed on the head node
- Store services added to lite-node to DB
- Fixed cmsh imageupdate --pattern <path>

2.3 Workload Management

2.3.1 New Features

- Automatically configure non-MIG GPUs in Slurm when detected
- Updated slurm23.02 packages to version 23.02.6 (CVE-2023-41914)
- Added new package pyxis-sources to allow building pyxis in air-gapped environments

2.3.2 Improvements

- Allow the management of jobs even if one of the nodes has an incorrect configuration in slurm.conf

2.3.3 Fixed Issues

- Fixed configuring AutoDetect in slurm.conf if GRES is set with addtogresconf=no in the slurm client role
- Cleaned up database node entries of Slurm jobs that were requeued
- Fixed pyxis epilog failure when unpacked images are shared and user does not specify a container name
- Install enroot dependencies on Ubuntu 20.04
2.4 Container Engines

2.4.1 Improvements

> Stopped using deprecated upstream Kubernetes repositories (versions 1.23 and older are no longer available)
> Introduced support for RAPIDS Accelerator for Apache Spark in the Jupyter kernel templates

2.5 Monitoring

2.5.1 New Features

> Collect new DCGM metrics: DCGM_FI_DEV_POWER_VIOLATION and DCGM_FI_DEV_THERMAL_VIOLATION
> Added ManagedServicesOk health check to lite devices

2.5.2 Improvements

> Increased the variability and frequency of the ssh2node healthcheck to reduce load on the head nodes
> Optimized startup of compute nodes in clusters with a large number of nodes and many monitored jobs
> Do not use linear interpolation for health check data, but rather the last known value

2.5.3 Fixed Issues

> Fixed a monitoring bug which prevented new device metrics from being saved to the database if CMDaemon on the head node was restarted right after they were created
> Fixed job-metrics in the base-view monitoring tree
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