NVIDIA Base Command Manager

Release Notes
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Chapter 1. Introduction

This release covers NVIDIA Base Command™ Manager (BCM) 10.23.10.

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 mlnx-ofed23.07 package
- Added cm-pmix4 package

2.1.2 Improvements
- Added drainstatus to cm-diagnose
- Updated cuda-driver package to 535.104.12
- Updated cm-libprometheus package to 0.47.0
- Updated cm-openssl package to 3.1.3

2.2 CMDaemon

2.2.1 New Features
- Added advanced config flag DisableRemoteShell to disable all remote shell RPC
- Added events for Cumulus service management operations

2.2.2 Improvements
- Added cmsh clone device option to increment IP addresses by values other than 1
- Allow lite node IP to be set during cmsh device add
- Display an error when setting an invalid software image in cmsh
- Update /etc/resolv.conf via netconfig on SLES15 instead of writing file
- Created the ability to add model/serial number information to new switches (ZTP)
- Kill active ramdisk create process when software image is removed
2.2.3  Fixed Issues

> Fixed provisioning trigger when an image name starts with the name of another image
> Allow cm-cmd-ports --get to work without an active cmd
> Prevent "Reboot required: Interfaces have been modified" event from being shown for a node if the node has a VLAN interface on a Bridge interface that includes a bond interface
> Fixed cm-burn unsuccessful completion in the absence of both a pre and post section
> Image updates on provisioning nodes now wait for provisioning operations on other nodes to complete before proceeding.
> Allow appending or skipping adding a Slurm drain reason when healthcheck fails with drain action enabled
> Fixed crash of pythoncm parallel node termination function
> Fixed an edge case that causes hostlist generation failures when there are 3 numeric fields in the hostname
> Fixed service management for cm-lite-daemon

2.3  cm-scale

2.3.1  Fixed Issues

> Allow to start terminated cloud nodes whose state is one of the node installer ones
> Terminate useless AWS spot instance requests
> Fixed the termination of cloud nodes when multiple clone operations are issued in parallel
> Fixed the startup of nodes by cm-scale if Slurm job predicted start time is set by Slurm in the future
> Fixed handling of job arrays with range from 1 to >1 figure number

2.4  Cloud

2.4.1  New Features

> Added support for AWS FSx on Ubuntu for cmjob

2.4.2  Improvements

> Improved error message when starting a cloud node with incorrect VPC/subnet configuration
2.4.3 Fixed Issues
> Fixed issue with cm-cloud-storage-setup when using us-east-1 region
> Prevent cloud instance termination when cloud director is down from being listed as UP+terminated
> Fixed starting spot instances after a no-capacity in availability zone scenario occurs
> Unfulfilled spot instance requests stay in PENDING state until fulfilled or terminated
> Store availability zones for networks created by COD or manually, which enables AutoScaler to distribute loads between availability zones in COD deployments

2.5 Kubernetes

2.5.1 New Features
> Added support for NGC token authentication in cm-kubernetes-setup

2.5.2 Improvements
> Improved the wizard when it should fail earlier than it actually does (incorrect return code checks caused the installer to confusingly fail at later stages)
> Kubernetes wizard errors will now show more context information where possible
> Increased timeouts for kubeadm init and clusterctl init operations to effectively handle slow connections

2.5.3 Fixed Issues
> Add user wizard will use BCM user name and not commonName

2.6 Workload Management

2.6.1 New Features
> Added enroot and enroot+caps packages

2.6.2 Fixed Issues
> Update AWS spot instances state in Slurm when they are terminated outside of BCM
2.7 Container Engines

2.7.1 Improvements
> Improved internal IP detection logic for etcd (similarly to internal IP detection for Kubernetes Calico and Flannel)

2.8 Monitoring

2.8.1 New Features
> Added Prometheus /rules and /alert and /alertmanagers end points
> Added operstate metrics (operational state i.e., UP / DOWN ) via cm-lite-daemon for Cumulus switches

2.8.2 Improvements
> Display K/M/G in cmsh for consolidated averages when no unit is set for a metric

2.8.3 Fixed Issues
> Added support to run healthcheck with storcli software next to megacli software

2.9 Cluster on Demand

2.9.1 Improvements
> Improved the display of the EULA when running from docker image
> Allow CMDaemon to work with cluster-on-demand cluster spanning multiple regions (requires manual setup)

2.10 Base View

2.10.1 Improvements
> Provide notifications in Base View if BCM package updates are available
> Visualize licensed GPU used and available in Base View
2.11 CMDaemon

2.11.1 Improvements

> Patched cm-curl package to address CVE-2023-38545
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