Hewlett Packard Enterprise

HPE Cray EX Series System Administration with HPE Performance Cluster Manager

Lab exercise updates

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Review release notes and procedures

Review the latest HPE Performance Cluster Manager release notes.

Review the HPE Performance Cluster Manager Installation Guide for Clusters With Scalable Unit (SU) Leader Nodes sections:

Upgrading the operating system and reinstalling the cluster manager

Backing up the configuration

Reinstalling the cluster manager

Review the HPE Performance Cluster Manager Administration Guide sections:

Updating admin nodes and scalable unit (SU) leader nodes

Updating scalable unit (SU) leader nodes

Updating the CTDB on scalable unit (SU) leader nodes

Gather System Information

Refer to previous lab exercises and the HPE Performance Cluster Manager Administration Guide procedures.

1. Log in to the admin node.
2. Change directory (replace <my-initials> with the name of the directory that you created earlier):

   ```
   cd /class/<my-initials>
   ```

3. Create a cluster configuration file.
4. Gather cluster information.
5. Group activity: one student share desktop and create a cluster database backup (replace <filename> with a unique file name).

   ```
   systemctl stop config_manager
   systemctl stop clmgr-power
   systemctl stop cmdb        (in release 1.5, replace cmdb with cmu)
   sqlite3 /opt/clmgr/database/db/cmu.sqlite3 ".backup <filename>"
   systemctl start cmdb       (in release 1.5, replace cmdb with cmu)
   systemctl start clmgr-power
   systemctl start config_manager
   file <filename>
   ls -l <filename>
   ```

   This completes the group activity.

6. List the current operating system slots.

   ```
   cadmin --show-root-labels
   ```

7. Check the disk partititons on the admin node:

   lsblk

8. Check file system disk usage on the admin node:

   df -hT

9. Check the disk partitions and file system disk usage on a leader node, a compute node, and an fmn (the fmns in this cluster use a different build process).

10. Save the running-config (volatile memory) to startup-config (NVRAM or permanent memory) on all management switches:

    switchconfig config -s all --save

11. Save all management switch config files to the local TFTP server:

    switchconfig config --pull -s all

Check firmware

View and compare BIOS settings and BIOS firmware versions across a set of chosen nodes. Confirm that your cluster is configured consistently. The following commands support compute nodes with iLO devices.

cm node firmware -h

cm node firmware show -h

cm node firmware status -h

cm node firmware show -b -t system compute

cm node firmware show -s -t system compute

cm node firmware show -b -n <node>

This ends lab exercise updates.