Quantum

H2000 with 1.4.2 Software Release Notes

Content

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About H2000 1.4.2

1.4.2 is the initial software release of the Quantum H2000.

Enhancements and Fixed Issues for H2000 1.4.2

Issue	Support #	Description
BLK-5105	n/a	DLM (distributed lock manager) default lockspace no longer causes a QCSP (block storage) VM (Quantum Cloud Storage Platform virtual machine) reboot hang, and also no longer fences one of the controllers.

Known Issues

Issue	Support #	Description/Applicable Workarounds
	n/a	For systems with SED-enabled data drives, an upgrade to 1.4.2 will fence one of the controllers. **Workaround:** To fix this issue, you need to un-fence the controller. See How to un-fence a controller and restart the H2000 cluster on page 5.

Issue	Support #	Description/Applicable Workarounds
BLK-5314	n/a	If you attempt to upgrade the system using the GUI upgrade page, and see a message that the upgrade has failed, try the upgrade process again using the command-line. **Workaround**: To upgrade the system manually on the command-line using the -force option: 1. Open an SSH session to the management IP address of the controller you want to access using a PuTTY/Terminal client, and log in using the **admin** user name and the current password for the **admin** account. 2. Enter: `sudo /opt/quantum/ansible/scripts/cluster_manager.py setmaintenancemode false` 3. Enter: `sudo /opt/quantum/scripts/bootstrap_node_upgrade --force` **Note:** This method upgrades the system from the production YUM repository.

Issue	Support #	Description/Applicable Workarounds
BLK-5286		Bcache WBC Performance Degrades over Time **Workaround:** If write performance on the controllers ("AMI Express") is perceived to be low (sequential and random), perform a failover/failback of the block storage services to regain full system performance: **Note:** Do this during a time of low system I/O or a maintenance window to lessen impact of the workaround. 1. Open an SSH session to the management IP address of the controller you want to access using a PuTTY/Terminal client, and log in using the **admin** user name and the current password for the **admin** account. 2. SSH from the controller CLI to the QCSP (block storage) VM: `ssh root@10.17.22.11` 3. Stop cluster services on that VM, which will cause services to migrate to the other, operational QCSP (block storage) VM. Enter: `cluster_stop.sh` 4. Fail-back the block storage services to the other QCSP (block storage) VM. Enter: `cluster_start.sh` 5. Close the SSH session for **10.17.22.11**. Enter: `exit` 6. SSH into the other QCSP (block storage) VM:

Issue	Support #	Description/Applicable Workarounds
		``ssh root@10.17.22.12``` 7. Stop cluster services on that VM, which will cause services to migrate to the other, operational QCSP (block storage) VM. Enter: ```cluster_stop.sh``` 8. Fail-back the block storage services to the other QCSP (block storage) VM. Enter: ```cluster_start.sh``` 9. Close the SSH session for **10.17.22.11**. Enter: ```exit``` 10. Exit the SSH session for the controller: ```exit``` The workaround is complete.
BLK-4627	n/a	When both controllers are powered off, they must both be booted within 30 secs of each other for their NVDs to be properly recognized by the system. Quantum recommends you push the power button on one controller, and then immediately push the power button on the other controller to power on both controllers. **Note:** Power must be currently applied to the system before powering on.

How to un-fence a controller and restart the H2000 cluster

1. Open an SSH session to the management IP address of the controller you want to access using a PuTTY/Terminal client, and log in using the **admin** user name and the current password for the **admin**

account.

2. SSH to the QCSP (block storage) VM. Enter:

```
[admin@h2000-2 ~]$ ssh 10.17.21.10 -l root
```

3. Enter:

```
[root@h2000-23bf46-2 ~]# sbd_unfence.sh
```

4. Enter:

```
[root@h2000-23bf46-2 ~]$ cluster_start.sh
```

5. Exit the ssh session for the QCSP (block storage) VM. Enter:

```
[root@h2000-23bf46-2 ~]# exit
```

6. Exit the PuTTY/Terminal session:

```
[admin@h2000-2 ~]$ exit
```

Contacting Quantum

Contacts

For information about contacting Quantum, including Quantum office locations, go to:

https://www.quantum.com/aboutus/contactus/index.aspx

For further assistance, or for training opportunities, contact the Quantum Customer Support Center:

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