

H2000 with 1.4.2 Software Release Notes

Content

About H2000 1.4.2	2
Contacting Quantum	6

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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	<p>For systems with SED-enabled data drives, an upgrade to 1.4.2 will fence one of the controllers.</p> <p>Workaround:</p> <p>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.</p>

Issue	Support #	Description/Applicable Workarounds
BLK-5314	n/a	<p>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.</p> <p>Workaround:</p> <p>To upgrade the system manually on the command-line using the -force option:</p> <ol style="list-style-type: none">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: <pre>sudo /opt/quantum/ansible/scripts/cluster_manager.py setmaintenancemode false</pre>3. Enter: <pre>sudo /opt/quantum/scripts/bootstrap_node_upgrade --force</pre> <hr/> <p> Note: This method upgrades the system from the production YUM repository.</p>

Issue	Support #	Description/Applicable Workarounds
BLK-5286		<p data-bbox="678 264 1230 296">Bcache WBC Performance Degrades over Time</p> <p data-bbox="678 317 846 348">Workaround:</p> <p data-bbox="678 369 1446 468">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:</p> <hr data-bbox="678 491 1446 495"/> <p data-bbox="691 499 1398 569">i Note: Do this during a time of low system I/O or a maintenance window to lessen impact of the workaround.</p> <ol data-bbox="691 594 1430 779" style="list-style-type: none"><li data-bbox="691 594 1430 726">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.<li data-bbox="691 747 1430 779">2. SSH from the controller CLI to the QCSP (block storage) VM: <pre data-bbox="740 821 1456 890">ssh root@10.17.22.11</pre><li data-bbox="691 936 1446 1035">3. Stop cluster services on that VM, which will cause services to migrate to the other, operational QCSP (block storage) VM. Enter: <pre data-bbox="740 1077 1456 1146">cluster_stop.sh</pre><li data-bbox="691 1199 1446 1268">4. Fail-back the block storage services to the other QCSP (block storage) VM. Enter: <pre data-bbox="740 1310 1456 1379">cluster_start.sh</pre><li data-bbox="691 1425 1308 1457">5. Close the SSH session for 10.17.22.11. Enter: <pre data-bbox="740 1499 1456 1568">exit</pre><li data-bbox="691 1619 1260 1650">6. SSH into the other QCSP (block storage) VM:

Issue	Support #	Description/Applicable Workarounds
		<pre data-bbox="738 262 1458 331">ssh root@10.17.22.12</pre> <p data-bbox="695 384 1446 478">7. Stop cluster services on that VM, which will cause services to migrate to the other, operational QCSP (block storage) VM. Enter:</p> <pre data-bbox="738 527 1458 596">cluster_stop.sh</pre> <p data-bbox="695 642 1446 709">8. Fail-back the block storage services to the other QCSP (block storage) VM. Enter:</p> <pre data-bbox="738 751 1458 821">cluster_start.sh</pre> <p data-bbox="695 867 1305 898">9. Close the SSH session for 10.17.22.11. Enter:</p> <pre data-bbox="738 947 1458 1016">exit</pre> <p data-bbox="683 1062 1180 1094">10. Exit the SSH session for the controller:</p> <pre data-bbox="738 1142 1458 1211">exit</pre> <p data-bbox="738 1257 1065 1289">The workaround is complete.</p>
BLK-4627	n/a	<p data-bbox="678 1318 1458 1482">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.</p> <p data-bbox="686 1493 1419 1560">i Note: Power must be currently applied to the system before powering on.</p>

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:

Region	Support Contact
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