



HyperFlex Upgrade Troubleshooting

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VMs Do Not Migrate During Upgrade

Description

Upgrading ESXi cluster fails with error "Node maintenance mode failed". This occurs in an online and healthy ESXi cluster where DRS and HA is enabled.

Action

Try the following workarounds in the following order:

1. If HA admission control policy is enabled and set to slot policy, change it to cluster resource percentage to tolerate one host failure and then retry upgrade.
2. Disable HA admission control policy or disable HA and then retry upgrade.
3. Try powering off a few VMs to make sure there is enough failover capacity in the cluster to tolerate at least one node failure and then retry upgrade.

ESXi Host or HyperFlex Controllers In Lockdown Mode

Description

If the ESXi host is in lockdown mode, pre-upgrade validation will fail with the error message *auth cancel*.

Action

Enable/Disable Lockdown Mode mode on the ESXi host and enable it after the upgrade is successful.

Using HyperFlex Controller VMs

1. Log into HX Connect.
2. On the Navigation pane, select **System Overview**.
3. On the **System Overview** tab, from the **Actions** drop-down list, you can enable or disable access to the controller VM using SSH as an administrator.

Using ESXi Hosts

1. Log into vSphere Web Client.
2. Browse to the host in the vSphere Web Client inventory.
3. Click the **Manage** tab and click Settings.
4. Under System, select **Security Profile**.
5. In the Lockdown Mode panel, click **Edit**.
6. Click **Lockdown Mode** and set the mode to Disabled.

Connection to HX Connect Lost During Upgrade

Description

Connection to HX Connect lost after pre-upgrade step from HX 3.5(2g) to HX 4.0(2a). During the upgrade, if there is an expired certificate in the upgrade source version, the browser will log user out after pre-upgrade step. This is accepted secure behavior since the certificate of the server has changed after pre-upgrade.

Action

Refresh the browser and login again.

Failed to Upgrade HyperFlex VIBs

Description

HXDP Upgrade to HX 4.5(1a) or above fails with error - "*Failed to upgrade HyperFlex VIBs . Reason: Some(System error)*".

The following error logs appear in the ESXi `esxupdate.log` file:

```
2020-12-01T11:59:22Z esxupdate: 333049: root: ERROR:
vmware.esximage.Errors.LiveInstallationError: ([], '([', "Error in running rm
/tardisks/scvmclie.v00:\nReturn code: 1\nOutput: rm: can\'t remove
\'/tardisks/scvmclie.v00\': Device or resource busy\n\nIt is not safe to continue. Please
reboot the host immediately to discard the unfinished update."
```

Action

Follow these steps to kill the process corresponding to `getstctlvmlogs` and retry the upgrade.

1. SSH to ESXi with root login.
2. Run the command `ps -c | grep -e cisco -e springpath` and note the process ID (PID). For example:

```
ps -c | grep -e cisco -e springpath
112056 112056 sh /bin/sh /opt/springpath/support/getstctlvmlogs
```
3. Kill the process using the command `kill -9 <PID from previous command>`. For example:

```
kill -9 112056
```
4. Go back to HX Connect or Intersight and retry the upgrade. If the issue still persists, please contact Cisco TAC for assistance.

Upgrade to HyperFlex version 4.5 Failed with Could not open /vmfs/volumes/hxmigrate Error

Description

HyperFlex Data Platform upgrade from pre-4.5 to 4.5 or later version Failed.

```
Error: stdout:, stderr: Could not open /vmfs/volumes/hxmigrate Error: No such file or
directory.
```

Conditions

The ESXi node was rebooted manually during the automatic Datastore migration as part of HX Data Platform upgrade. This could affect the cluster which has one or more M4 converged nodes or any generation compute only node booting from SD card.

Action

Retry the Upgrade.

HX Connect UCS Server Firmware Selection Dropdown Doesn't List the Firmware Version 4.1 or Above

Description

When you try to perform a combined upgrade from the HX Connect UI, the dropdown to select UCS server firmware doesn't show version 4.1 or later.

Action

Log into UCS Manager and confirm you have uploaded the UCS B and C firmware bundles to the Fabric Interconnect. If not, upload them and re-try the upgrade. If the UCS B and C firmware bundles are already uploaded to the Fabric Interconnect, apply below workaround to continue with upgrade.

1. From the HX Connect upgrade page, select **HX Data Platform** only.
2. Browse and select the appropriate HXDP upgrade package for your upgrade.¹
3. Enter your vCenter credentials.
4. Click **Upgrade**. This will bootstrap the management components. Refresh the UI screen.
5. Once the UI is refreshed, try the combined upgrade procedure. You should now be able to see the UCS server firmware version 4.1 or above listed in the dropdown menu.

Upgrade Fails in the Step - Entering Cluster Node into Maintenance Mode

Description

Failure at the **Entering Cluster Node into Maintenance Mode** step is caused because of a MTU mismatch in the vSwitch and port-groups. If the cluster has a node that was added at a later point using the node expansion method, the newly added node may have the MTU set to 9000 while other nodes are set to MTU 1500.



Note Below remediation is applicable only if your cluster has one or more nodes that were added as part of a cluster expansion, and they have the MTU set to 9000 while your original cluster nodes are set at a MTU of 1500. If this is not the scenario, please contact TAC for further assistance.

¹ The version must be HXDP 4.5 or later.

Action

- Log into vCenter.
- Check and confirm the MTU value set on all nodes.
- If the nodes that were part of the originally built cluster are set at a MTU of 1500 and some of the other nodes (nodes added later as part of cluster expansion) have the MTU set to 9000, change the MTU on all such nodes to 1500.
- Retry the upgrade.

Maintenance Mode Not Automatic for Cluster Containing VMs with vGPUs Configured

Description

For clusters that contain VMs with vGPUs configured, entering maintenance mode does not occur automatically even with DRS fully enabled. During rolling upgrades, it is necessary to manually handle these VMs to ensure that each ESXi host can enter maintenance mode and continue with the upgrade at the appropriate time.

Action

You can use one of these methods to proceed forward:

1. Manually vMotion the vGPU configured VMs to another ESXi host in the cluster.
2. Temporarily power off the vGPU configured VMs. They can be powered on again after the ESXi host reboots and rejoins the cluster

**Note**

This is a limitation of DRS host evacuation and is documented, see "DRS fails to migrate vGPU enabled VM's automatically (66813) topic" on the VMware documentation site.
