



## HPE Helion OpenStack - HPE Helion OpenStack 5.0.3 Release Notes

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### Environment

- HPE Helion OpenStack 5.0.0
  - HPE Helion OpenStack 5.0.1
  - HPE Helion OpenStack 5.0.3
  - HPE Helion OpenStack 5.x
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### Issue

NA

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### Cause

Updated release notes for new HPE Helion OpenStack 5.0.3 release.

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### Resolution

HPE Helion OpenStack 5.0.3: Release Notes:

An overview of the features contained within HPE Helion OpenStack 5.0.3, including known issues and workarounds for this release.


New in this release:

#### HPE Helion OpenStack 5.0.3 supports RHEL 7.3 for Compute Nodes

RHEL 7.2 is supported for compute nodes in HPE Helion Openstack 5.0.1. HPE Helion OpenStack 5.0.3 includes support for the more recently released RHEL 7.3.

#### HPE Helion OpenStack 5.0.1 supports HEAT auditing

The Keystone middleware defect in HOS 5.0 has been resolved in this release. HEAT auditing can be enabled if the user wishes.

 **Important:** HPE Helion OpenStack 5.0.3 does not support RHEL 7.2 compute nodes. If user intend to upgrade to HPE Helion OpenStack 5.0.3 user will be required to upgrade users compute nodes to 7.3 before upgrading to HOS 5.0.3. See steps below for upgrading RHEL compute nodes from 7.2 to 7.3.

Upgrading HPE Helion OpenStack 4.0.6 with RHEL Compute from 7.2 to 7.3:

Upgrade the Compute OS from RHEL 7.2 to RHEL 7.3 by following these steps.

On the Lifecycle Manager:

1. If /home/stack/rhel7.iso exists, remove it.
2. Download the RHEL 7.3 ISO and rename it rhel7.iso under /home/stack

3. Create a directory and mount ISO image to the newly created directory

```
sudo mkdir /opt/hlm_packager/hlm/rhel7/yum/rhel73
sudo mount ~/rhel7.iso /opt/hlm_packager/rhel7/yum/rhel73
```

On the RHEL 7.2 Compute Node:

```
sudo rm /etc/yum.repos.d/cobbler-config repo
sudo vi /etc/yum.repos.d/rhel73.repo
```


```
[rhel73 repo]
name=RHEL73 Repository
baseurl=http://<deployer_management_IP>:79/hlm/rhel7/yum/rhel73
enabled=1
gpgcheck=0
```

```
yum clean
(optional) sudo yum repolist
sudo yum update
sudo reboot
```

Return to the Lifecycle Manager and follow these steps:

1. Mount the 5.0.3 ISO image
2. Unpack the tarball
3. Run the included initialization script
4. Run the configuration processor
5. Update the deployment directory
6. Run site.yml
7. If Ceph is configured run hlm-cloud-configure.yml

```
sudo mount -o loop HelionOpenStack-5.0.iso /media/cdrom
tar -xvf /media/cdrom/hos/hos-5.0.0=20161014T020249Z.tar
~/hos-5.0.3/hos-init.bash
```


 **Important:** If user encounter a code merge error, please see Resolving Git Merge Conflicts During Upgrade. After git merge conflicts have been resolved please re-run hos-init.bash before going to the next step.

```
cd ~/helion/hos/ansible ansible-playbook -i hosts/localhost config-processor-run.yml
cd ~/helion/hos/ansible ansible-playbook -i hosts/localhost ready-deployment.yml
cd ~/scratch/ansible/next/hos/ansible ansible-playbook -i hosts/verb_hosts site.yml
cd ~/scratch/ansible/next/host/ansible ansible-playbook -i hosts/verb_hosts hlm-cloud-configure.yml
```

Upgrading HPE Helion OpenStack 5.0.1 with RHEL Compute from 7.2 to 7.3

All existing RHEL 7.2 compute nodes must upgrade to OS to RHEL 7.3 before upgrading to Helion OpenStack 5.0.3.

To upgrade the RHEL compute nodes to 7.3 before upgrading Helion OpenStack, user must first stop the ip6table service.

 **Important:** Stopping the ip6table service is only necessary when upgrading from HPE Helion Openstack 5.0 or 5.0.1. Skip this step if users current HOS version is NOT 5.0.0 or 5.0.1

1. Stop the ip6table service
  2. Manually remove orphaned file if it still exists
  3. Reboot RHEL compute nodes
  4. Continue with upgrade steps in 4.0.6 section above
- ```
sudo systemctl status ip6tables.service
sudo systemctl stop ip6tables.service
sudo rm /var/lock/subsystem/ip6tables
```

Fixed in this Release:

An overview of the features contained within 5.0.3, including known issues and workarounds for this release.

HPE Linux Changes:

HPE Helion OpenStack 5.0.3 includes a new version of the hLinux operating system, version 4.4.111 for critical Spectre/Meltdown security fixes:"

CVE-2017-5715 Speculative execution branch target injection (Spectre)

CVE-2017-5753 Speculative execution bounds-check bypass (Spectre)

CVE-2016-5754 Speculative execution permission faults handling (Meltdown)

For more information on security vulnerabilities, please see the National Vulnerability Database: <https://nvd.nist.gov/>

Known Issues in this Release:

New Installation Only Support UEFI

New installations of HPE Helion OpenStack 5.0.3 on the latest hardware and firmware will only be supported using UEFI mode.

 Warning: If your system is currently on version HPE Helion OpenStack 4.0.6 the correct upgrade path is to HPE Helion OpenStack 5.0.3

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