SUSE OpenStack Cloud : Upgrade 6-7

1 Preliminary Checks

Run the checks below to determine if your cloud is prepared for upgrade.

- ⊖ SLES 12 SP1 Maintenance Updates
- ⊖ Cloud Services Health Check
- ⊖ Pacemaker Health Check
- ⊖ Ceph Health Check
- ⊖ Compute Resources Available

Check

2 Upgrade Mode

After all checks are successful the upgrade mode of your cloud will be shown here…

3 Begin Upgrade

Click on "Begin Upgrade" below to start the upgrade process.

Begin Upgrade

SUSE OpenStack Cloud - Provided by SUSE

Kenneth

crowbar.vi5.cloud.suse.de

SUSE OpenStack Cloud : Upgrade 6-7

1 Preliminary Checks

Run the checks below to determine if your cloud is prepared for upgrade.

✓ SLES 12 SP1 Maintenance Updates
✗ Cloud Services Health Check
⊖ Pacemaker Health Check
⊖ Ceph Health Check
⊖ Compute Resources Available

Check

2 Upgrade Mode

After all checks are successful the upgrade mode of your cloud will be shown here…

3 Begin Upgrade

Click on "Begin Upgrade" below to start the upgrade process.

Begin Upgrade

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

1 Preliminary Checks

Run the checks below to determine if your cloud is prepared for upgrade.

- ✅ SLES 12 SP1 Maintenance Updates
- ✅ Cloud Services Health Check
- ✅ Pacemaker Health Check
- ✅ Ceph Health Check
- ✅ Compute Resources Available

Check

2 Upgrade Mode

Your cloud is now prepared to begin the upgrade process in normal mode.

Proceed in Normal Mode

In normal mode, each node will be rebooted during the upgrade process, including the workloads running in them.

In order to proceed in non-disruptive mode your cloud needs to have the pacemaker barclamp correctly configured and enough free compute resources available.

Be sure to re-run the checks if you make any changes to your cloud after the initial run.

3 Begin Upgrade

Click on "Begin Upgrade" below to start the upgrade process.

Begin Upgrade

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

1 Preliminary Checks

Run the checks below to determine if your cloud is prepared for upgrade.

✅ SLES 12 SP1 Maintenance Updates
✅ Cloud Services Health Check
✅ Pacemaker Health Check
✅ Ceph Health Check
✅ Compute Resources Available

Check

2 Upgrade Mode

Your cloud is now prepared to begin the upgrade process in non-disruptive mode.

In non-disruptive mode all workloads should continue running but we strongly recommend picking your nose and wiggeling your finger at it for a while first.

Be sure to re-run the checks if you make any changes to your cloud after the initial run.

3 Begin Upgrade

Click on "Begin Upgrade" below to start the upgrade process.

Begin Upgrade

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

1 Preliminary Checks

Run the checks below to determine if your cloud is prepared for upgrade.

- ✅ SLES 12 SP1 Maintenance Updates
- ✅ Cloud Services Health Check
- ✅ Pacemaker Health Check
- ✅ Ceph Health Check
- ✅ Compute Resources Available

Check

2 Upgrade Mode

Your cloud is now prepared to begin the upgrade process in normal mode.

Proceed in Normal Mode

In normal mode, each node will be rebooted during the upgrade process, including the workloads running in them.

In order to proceed in non-disruptive mode your cloud needs to have the pacemaker barclamp correctly configured and enough free compute resources available.

Be sure to re-run the checks if you make any changes to your cloud after the initial run.

3 Begin Upgrade

Click on "Begin Upgrade" below to start the upgrade process.

Begin Upgrade

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of Administration Server

Check Administration Server Repositories

Upgrade Administration Server

Connect or Create OpenStack Database

Check Add-On & Node Repositories

Backup OpenStack Database

Upgrade Nodes & Reapply Barclamps

Create a backup of the Administration Server configuration and download it in your browser.

Keep this backup somewhere safe in case of emergency. With this backup and a fresh deployment of SUSE OpenStack Cloud 6 the Administration Server can be returned to it's previous state.

Download Backup of Administration Server

Cancel Upgrade

Next

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

**Check Administration
Server Repositories**

Upgrade
Administration Server

Connect or Create
OpenStack Database

Check Add-On &
Node Repositories

Backup OpenStack
Database

Upgrade Nodes &
Reapply Barclamps

**Upgrading to SUSE OpenStack Cloud 7 requires software repositories
for the administration server**

Update the URLs of the following software repositories and click "Check"
to verify the repositories are available. When all repositories have been
verified click on "Next" to proceed.

✓ SUSE Linux Enterprise 12 SP2

✗ SUSE Linux Enterprise 12 SP2 Updates

⊖ SUSE Linux OpenStack Cloud 7

⊖ SUSE Linux OpenStack Cloud 7 Updates

Check

Cancel Upgrade

Next

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

Check Administration
Server Repositories

Upgrade
Administration Server

**Connect or Create
OpenStack Database**

Check Add-On &
Node Repositories

Backup OpenStack
Database

Upgrade Nodes &
Reapply Barclamps

Enter Credentials and/or Information to Create or Connect to a PostgreSQL Database for the OpenStack Database Migration.

| Create a Database | Connect to a Database |

Server

myservername234.network.local.mycompany.

Port

54321

Table_Prefix (*optional*)

Username

myNämeüß

Password

••••••••••••••••

**Connect to
Database**

Next

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

Check Administration
Server Repositories

Upgrade
Administration Server

Connect or Create
OpenStack Database

Check Add-On &
Node Repositories

Backup OpenStack
Database

Upgrade Nodes &
Reapply Barclamps

**Enter Credentials and/or Information to Create or Connect to a
PostgreSQL Database for the OpenStack Database Migration.**

| Create a Database | Connect to a Database |

Username

myNämeüß

Password

••••••••••••••••••

Create
Database

Next

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

Check Administration
Server Repositories

Upgrade
Administration Server

Connect or Create
OpenStack Database

**Check Add-On &
Node Repositories**

Backup OpenStack
Database

Upgrade Nodes &
Reapply Barclamps

Upgrading to SUSE OpenStack Cloud 7 requires software repositories for all nodes

Update the URLs of the following software repositories and click "Check" to verify the repositories are available. When all repositories have been verified click on "Next" to proceed.

✅ SUSE Linux Enterprise 12 SP2
❌ SUSE Linux Enterprise 12 SP2 Updates
⊖ SUSE Linux OpenStack Cloud 7
⊖ SUSE Linux OpenStack Cloud 7 Updates
⊖ SUSE Linux Enterprise 12 SP2 HA
⊖ SUSE Linux Enterprise 12 SP2 HA Updates

Check

Next

SUSE OpenStack Cloud - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

Check Administration
Server Repositories

Upgrade
Administration Server

Connect or Create
OpenStack Database

Check Add-On &
Node Repositories

Backup OpenStack
Database

Upgrade Nodes &
Reapply Barclamps

When ready, click on the button below to stop OpenStack services and create a backup of the OpenStack database.

It is imperative that during and after stopping OpenStack services no changes are made to your cloud.

Stop Services and Create Backup

✓ Services Stopped

Backup Created

Next

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

Check Administration
Server Repositories

Upgrade
Administration Server

Connect or Create
OpenStack Database

Check Add-On &
Node Repositories

Backup OpenStack
Database

Upgrade Nodes &
Reapply Barclamps

Begin upgrading and migrating nodes by clicking on the button below.

Depending upon the size of your cloud and workloads this process might take quite some time.

Upgrade Nodes

60 of 155 Nodes Upgraded

Current Node: xxx.xxx.xxx.xxx

Node Role: Compute (17 VMs)

Status: Migrating VM's

Next

SUSE OpenStack Cloud - Provided by SUSE