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

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2 Upgrade Mode

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

Proceed in Normal Mode

IMPORTANT!
In normal mode, each node will be rebooted during the upgrade process. The workloads running in each node will be live-migrated to another node. Note that you will lose connection to the VM during this process.

In order to proceed in non-disruptive mode your cloud needs to be Highly Available and have neough free compute resources. See the deployment guide for details.

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

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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 and remain connected.

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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.**

This backup contains information about the cloud deployment and
configuration. Keep this backup somewhere safe in case of emergency.

Download Backup of Administration Server

Cancel Upgrade

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 updated software repositories for the Administration Server

Prepare the software repositories locally or via SMT and update the URLs in the Administration Server configuration correspondingly. Click "Check" to verify all 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

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Upgrade the Administration Server to SUSE OpenStack Cloud 7

Please wait until the Administration Server has been upgraded and
rebooted.

IMPORTANT!
This process might take quite some time.
Please do not close the browser window or refresh the page.

Upgrade Administration Server

Cancel Upgrade

Next

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of Administration Server

Check Administration Server Repositories

Upgrade Administration Server

Connect or Create Crowbar 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 Crowbar 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 - Provided by SUSE

SUSE OpenStack Cloud : Upgrade 6-7

Download Backup of
Administration Server

Check Administration
Server Repositories

Upgrade
Administration Server

Connect or Create
Crowbar 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 Crowbar 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 updated software repositories for all nodes

Prepare the software repositories locally or via SMT and update the URLs in the Administration Server configuration correspondingly. Click "Check" to verify all 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

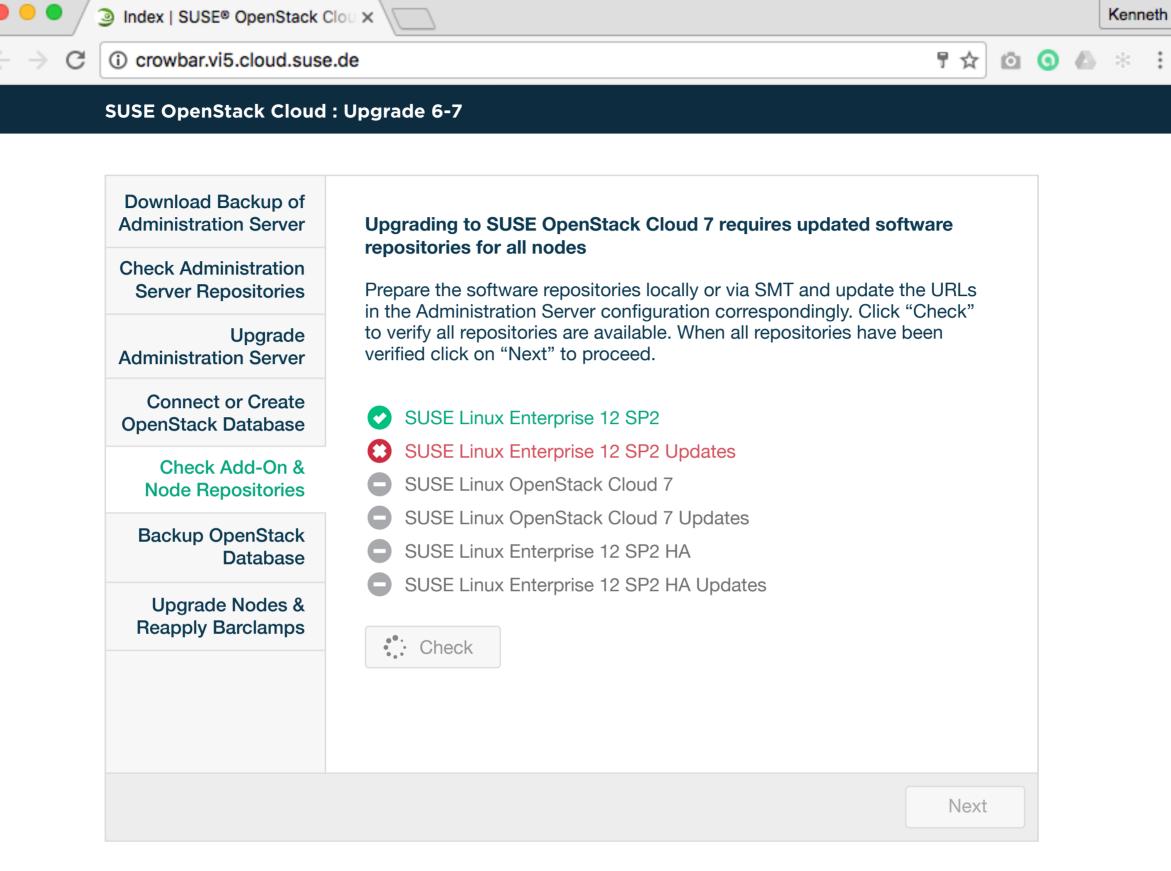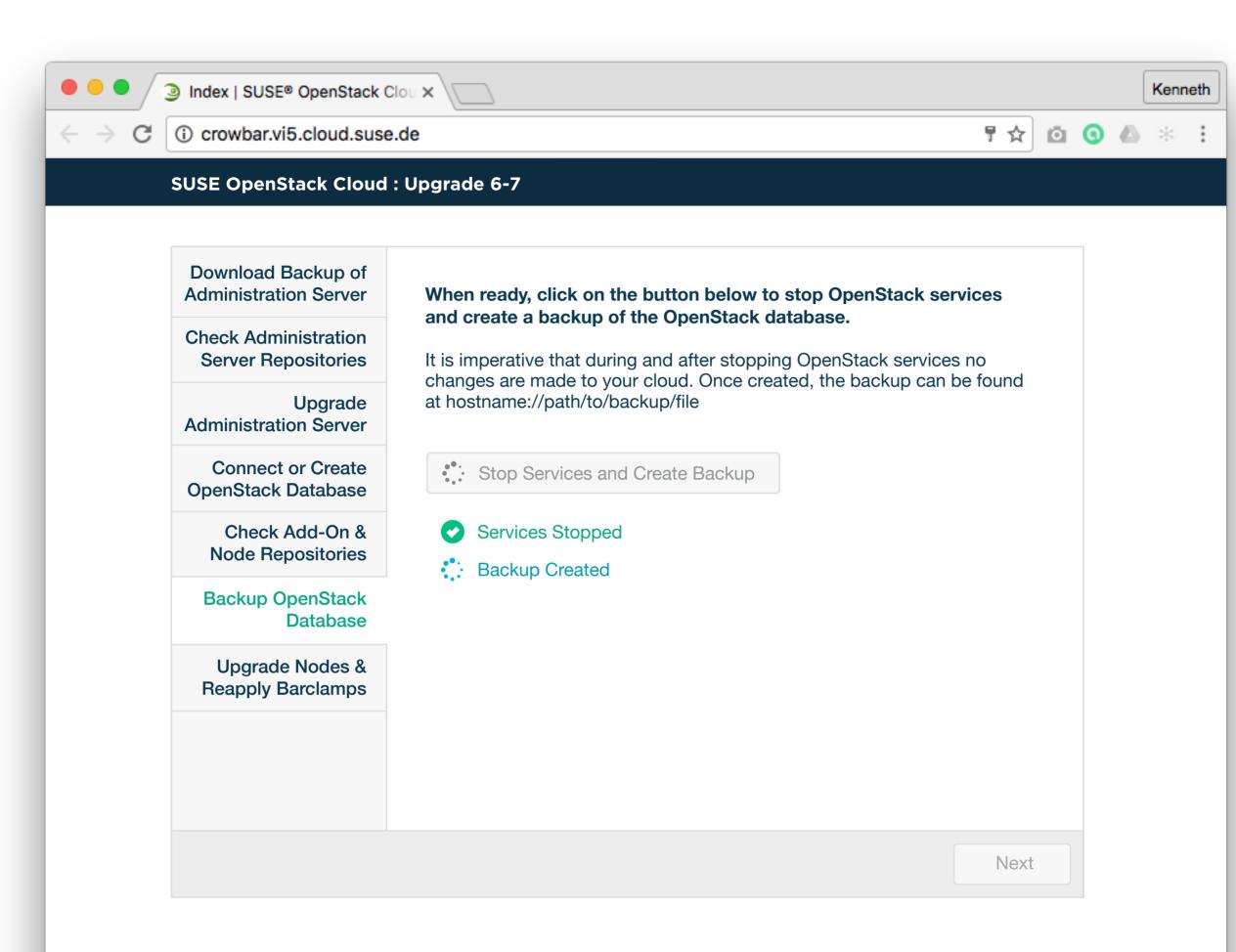⊖ SUSE Linux Enterprise 12 SP2 HA

⊖ SUSE Linux Enterprise 12 SP2 HA Updates

Check

Next

SUSE OpenStack Cloud - Provided by SUSE

Kenneth

ⓘ crowbar.vi5.cloud.suse.de

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 &
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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. Once created, the backup can be found
at hostname://path/to/backup/file

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