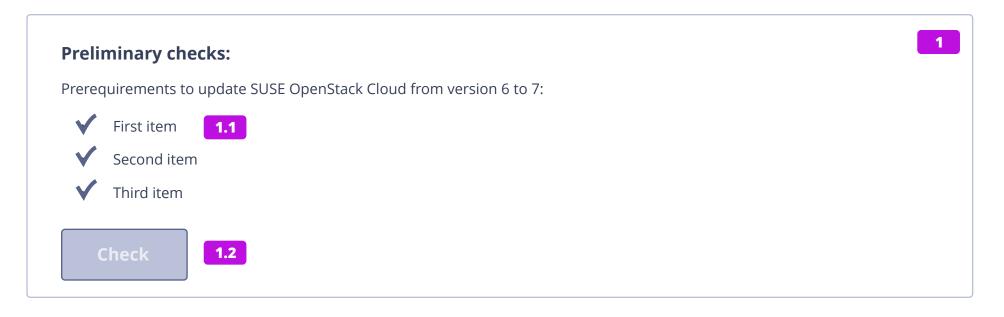# SUSE OpenStack Cloud Non-Disruptive Upgrade

0

In order to begin upgrading SUSE OpenStack Cloud from version 6 to 7, the following requirements must be met:

- The Administration Server needs to have the latest SUSE OpenStack Cloud 6 updates installed. One of these updates will add the new upgrade routine to the Crowbar Web interface.
- All other nodes need to have the latest SUSE OpenStack Cloud 6 updates and the latest SLES updates.
- All allocated nodes need to be available. In addition, a free node with at least an equal amount of disk and memory space as the largest running node must be free of any workload and available.

1

Preliminary checks:

Prerequirements to update SUSE OpenStack Cloud from version 6 to 7:

✔ First item **1.1**

✔ Second item

✔ Third item

[Check] **1.2**

Note: Manual changes to the cloud during the upgrade process could lead to irrepairable damage to the cloud, the workloads running in it and the data they produce or consume.

[**Begin Upgrade**] **2**

1

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks

Stop Services

Upgrade Nodes

3

Create & Download Admin Server Configuration Backup

4

Are you sure you want cancel the upgrade?

Please confirm that you want to cancel the upgrade process and return your cloud to SUSE OpenStack Cloud 6.

Canceling upgrade will return you to the crowbar dashboard.

4.1

No, return to Upgrade

4.2

Yes, cancel Upgrade

Cancel Upgrade

2

Next

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks `3.1`

Stop Services

Upgrade Nodes

`3`

`1`

Administration Server Repository checks

With the upgrade to SUSE OpenStack Cloud 7 the administration server will be upgraded to SUSE Linux Enterprise 11 SP2.

Please update the urls of the following software repositories:

- ✔ SUSE Repository One URL `1.1`
- ✔ SUSE Repository Two URL
- • SUSE Repository Three URL
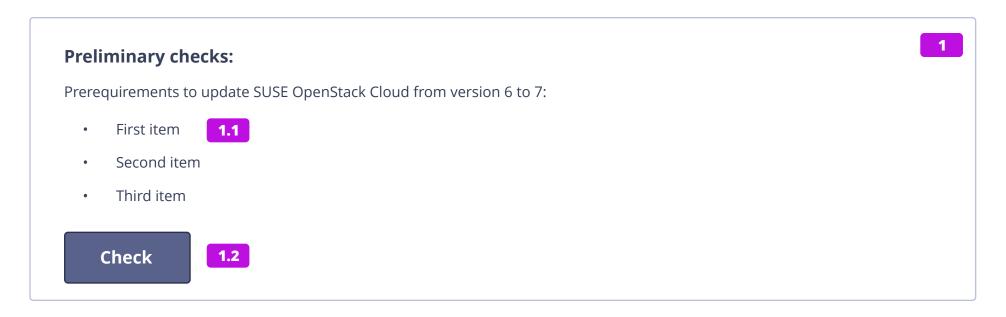
⟳ **Check** `1.2`

Cancel Upgrade `2.1` `2` `2.2` **Next**

SUSE OpenStack Cloud Non-Disruptive Upgrade

0

In order to begin upgrading SUSE OpenStack Cloud from version 6 to 7, the following requirements must be met:

- The Administration Server needs to have the latest SUSE OpenStack Cloud 6 updates installed. One of these updates will add the new upgrade routine to the Crowbar Web interface.
- All other nodes need to have the latest SUSE OpenStack Cloud 6 updates and the latest SLES updates.
- All allocated nodes need to be aviailable. In addition, a free node with at least an equal amount of disk and memory space as the largest running node must be free of any workload and available.

Preliminary checks:

1

Prerequirements to update SUSE OpenStack Cloud from version 6 to 7:

- First item   1.1

- Second item

- Third item

Check   1.2

Note: Manual changes to the cloud during the upgrade process could lead to irrepairable damage to the cloud, the workloads running in it and the data they produce or consume.

Begin Upgrade   2

Backup `1`

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks `3.1`

Stop Services

Upgrade Nodes

`3`

Create & Download Admin Server Configuration Backup

Create a backup of the Administration Server configuration and download it in your browser. This helps with support questions or in the unlikely case of trouble.

Create & Download Backup `1.1`

Cancel Upgrade `2.1`

`2`

`2.2` Next

1

Administration Server Repository checks

With the upgrade to SUSE OpenStack Cloud 7 the administration server will be upgraded to SUSE Linux Enterprise 11 SP2.
Please update the urls of the following software repositories:

- SUSE Repository One URL **1.1**
- SUSE Repository Two URL
- SUSE Repository Three URL

Check **1.2**

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks **3.1**

Stop Services

Upgrade Nodes

3

Cancel Upgrade **2.1**   **2**   **2.2** **Next**

1

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks **3.1**

Stop Services

Upgrade Nodes

3

Upgrade the Administration Server

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Upgrade Admin Server **1.1**

Cancel Upgrade **2.1** **2** **2.2** Next

1

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks **3.1**

Stop Services

Upgrade Nodes

3

Database Configuration

1.1 | Create a new PostgreSQL DB | Connect to an existing PostgreSQL DB |

Create a new PostgreSQL database by supplying the username and password and clicking on "Next". The username must XX characters long may contain the following characters. Only those and only those will be allowed, though shall not pass!

Username

1.2 myusername

Password

mypassword

1.4

Create Database

2 **2.1** Next

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks `3.1`

Stop Services

Upgrade Nodes

`3`

`1`

Add-On Product Repository checks

With the upgrade to SUSE OpenStack Cloud 7 every node will be upgraded to

SUSE Linux Enterprise 12 SP2.

Please update the repository urls of the following add-on products:

- SUSE Add-On Product One URL   `1.1`
- SUSE Add-On Product Two URL
- SUSE Add-On Product Three URL

⟳ **Check** `1.2`

`2`   `2.1`   Next

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks `3.1`

Stop Services

Upgrade Nodes

`3`

`1`

Stop OpenStack Services and Create Backup

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

Stopping OpenStack Servers `1.1`

✔ Services Stopped `1.2`

- Stopping Service: Heat

• Backup created

`2`   `2.1` Next

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks `3.1`

Stop Services

Upgrade Nodes

`3`

`1`

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor

Non-Disruptive Upgrade `1.1`

- Upgrade Control Nodes (5 of 5) `1.2`
- Upgrade Compute Nodes (3 of 15)

  Current node: 198.204.16.123 (4 VM instances) `1.2.1`
- Re-apply barclamps

`2`

`2.1` Finish

Backup

Repo Checks

Upgrade Admin

PostGres DB

Repo Checks `3.1`

Stop Services

Upgrade Nodes

`3`

`1`

Database Configuration

`1.1` **Create a new PostgreSQL DB** | **Connect to an existing PostgreSQL DB**

Enter the IP Address, table prefix, username, and password of the PostgreSQL DB. Test the connection with the "Test Connection" button.

Server

`1.2` IPv4 or Hostname

Port

5432

Table Prefix

Username

`1.3`

Password

Connect to Database

`2`

`2.1` Next

1

Backup

Repo Checks

Upgrade Admin

PostgreSQL DB

Repo Checks **3.1**

Stop Services

Upgrade Nodes

3

Add-On Product Repository checks

With the upgrade to SUSE OpenStack Cloud 7 every node will be upgraded to

SUSE Linux Enterprise 12 SP2.

Please update the repository urls of the following add-on products:

✔ SUSE Add-On Product One URL **1.1**

✔ SUSE Add-On Product Two URL

✔ SUSE Add-On Product Three URL

Check **1.2**

2   **2.1**   **Next**

Database Configuration

Backup

Repo Checks

Upgrade Admin

PostGres DB

Repo Checks 3.1

Stop Services

Upgrade Nodes

3

1

1.1 **Create a new PostgreSQL DB**   **Connect to an existing PostgreSQL DB**

Enter the IP Address, table prefix, username, and password of the PostgreSQL DB. Test the connection with the "Test Connection" button before proceeding.

Server   Cannot connect to Server   Port

1.2 168.34.128.32   5432

Table Prefix

table_prefix

Username

myusername

1.3

Password

mypassword

Connect to Database

2   2.1 **Next**