

# Chapter 7. Upgrading Red Hat Satellite Server and Capsule Server

~~This chapter describes how to upgrade Red Hat Satellite and the Capsule Server to the latest version. If you are running a Satellite Server with no Capsule Servers, you need only upgrade the Red Hat Satellite Server.~~

## 7.1. Upgrading Red Hat Satellite

~~To upgrade Red Hat Satellite Server, follow these steps.~~

### ~~Procedure 7.1. Upgrading Red Hat Satellite~~

1. Backup. If ~~Katello~~ is running on a Virtual Machine, take a snapshot prior to upgrading. Otherwise, take a backup of the relevant databases by following the instructions in the ~~User Guide~~.

2. Make sure that the operating system is up to date by entering the following command:

```
# yum update
```

3. Enable the latest repositories. Ensure your system is pointed to the latest Satellite repositories by disabling the current repositories and enabling the new repositories. To disable the current repositories, enter the following command using the current repositories release number:

```
# subscription-manager repos --disable rhel-6-server-satellite-current-repositories-release-number-rpms
```

4. To enable the new repositories, enter the following command using the new repositories release number:

```
# subscription-manager repos --enable rhel-6-server-satellite-new-repositories-release-number-rpms
```

The following example shows disabling the Satellite 6.0 repositories (the current repositories) and enabling the Satellite 6.1 repositories (the new repositories).

#### Example 7.1. Disabling current repositories and enabling new repositories

```
# subscription-manager repos --disable rhel-6-server-satellite-6.0-rpms
Repo 'rhel-6-server-satellite-6.0-rpms' is disabled for this system.
# subscription-manager repos --enable rhel-6-server-satellite-6.1-rpms
Repo 'rhel-6-server-satellite-6.1-rpms' is enabled for this system.
```

4. Update the packages. This step consists of updating the packages with the **yum** command. The step consists of cleaning the yum cache and updating the packages. To clean the yum cache enter the following command:

```
yum clean all
```

To update the packages, enter the following command:

```
yum update
```

5. Run the installer. For this step, run the ~~katello-installer~~ with the **-upgrade** flag as follows:

```
# katello-installer --upgrade
```

6. ~~Discovery template update.~~ *Update the disc. templates* In the Satellite 6 user interface, go to Provisioning Templates, edit the ~~PXELinux global default template~~ and modify the discovery menu entry as follows:

- At the **Hosts** tab, select **Provisioning templates**.
- ~~At the Provisioning Templates page, select PXELinux global default. Selecting PXELinux global default causes the Template editor dialog box to be displayed.~~
- At the **Template editor** dialog box, in the **Provisioning Template** tab, modify the **PXELinux global default** template discovery menu entry:

```
LABEL discovery
MENU LABEL Satellite 6 Discovery
MENU DEFAULT
KERNEL /var/lib/tftpboot/boot/fdi-image-rhel_7-vmlinuz
APPEND initrd=boot/fdi-image-rhel_7-img rootflags=loop
root=live:/fdi.iso rootfstype=auto ro rd.live.image
acpi=force rd.luks=0 rd.md=0 rd.dm=0 rd.lvm=0 rd.bootif=0
rd.neednet=0 nomodeset
proxy.url=https://SATELLITE_CAPSULE_URL:9090 proxy.type=proxy
IPAPPEND 2
```

The **proxy.type** option can be either **proxy** or **foreman**. *For proxy* In the first case all communication goes through Satellite Capsule, *for foreman* in the latter case the communication goes directly to Satellite Server (behavior of Satellite 6.0 release).

The **proxy.url** specifies URL of the Satellite Capsule or Server depending on the previous setting. Both ~~http~~ *http* and ~~https~~ *https* schemes are supported. *protocols*

## 7.2. Upgrading Red Hat Satellite Capsule

### ~~Prerequisites~~

~~Make sure that the life cycle environment has been prepared prior to following these steps. This requirement includes:~~

- ~~Enabling and synchronizing the latest 6.1 Capsule repositories.~~

2. Including the above repositories in the content view that the Capsule is included in and publishing the new content view.
3. Promoting the content view to the life cycle environment your Capsule is registered to.

*is this described anywhere? when do you do this?*

To upgrade Red Hat Satellite Capsule, follow these steps.

**Procedure 7.2. Upgrading Red Hat Satellite Capsule**

1. Ensure that the operating system up to date. Ensure your operating system is up to date by entering the following command:

```
# yum update
```

2. ~~Enable the latest repositories.~~ Ensure your system is pointed to the latest Capsule repositories by ~~disabling the current repositories and enabling the new repositories.~~ To ~~disable the current repositories~~ enter the following ~~command~~ using the ~~current repositories release number~~:

```
subscription-manager repos --disable rhel-6-server-satellite-capsule-current repositories release number-rpms
```

3. ~~To enable the new repositories,~~ *For example* enter the following command using the ~~new repositories release number~~:

```
subscription-manager repos --enable rhel-6-server-satellite-capsule-new repositories release number-rpms
```

The following example shows ~~disabling the Satellite 6.0 repositories (the current repositories) and enabling the Satellite 6.1 repositories (the new repositories).~~

**Example 7.2. Disabling current repositories and enabling new repositories**

```
# subscription-manager repos --disable rhel-6-server-satellite-capsule-6.0-rpms
Repo 'rhel-6-server-satellite-capsule-6.0-rpms' is disabled for this system.
# subscription-manager repos --enable rhel-6-server-satellite-capsule-6.1-rpms
Repo 'rhel-6-server-satellite-capsule-6.1-rpms' is enabled for this system.
```

3. Update the packages. This step consists of updating the packages with the **yum** command. ~~The step consists of cleaning the yum cache and updating the packages.~~ To ~~clean the yum cache~~ enter the following command:

```
yum clean all
```

~~To update the packages,~~ enter the following command:

```
yum update
```

*→ would you need to republish the content views now, since the new repos are enabled?*

4. Check for the `capsule-installer` package:

```
rpm -q capsule-installer
```

### Note

*In Sat. 6.0*  
Previously in Red Hat Satellite 6, the `katello-installer` script provided the Satellite Capsule Server installer. ~~In later versions of the Satellite Capsule Server, the `capsule-installer` script has its own package.~~

*In Sat 6.1,*  
~~If the `capsule-installer` package is not installed, use `yum` to install it:~~

```
# yum install capsule-installer
```

Installing `capsule-installer` will automatically remove the previous package `katello-installer`. It will also save the previous Capsule configuration and answers files.

5. Move the previous answers file to the new `capsule-installer` directory:

```
mv /etc/katello-installer/answers.capsule-installer.yaml  
/etc/capsule-installer/
```

6. ~~Discovery image and plugin. To leverage Capsule as a proxy for discovered hosts.~~ *Using the*  
~~(so no direct connection to Satellite Server is required), follow these steps:~~ *Capsule as a proxy means the hosts don't have to have a direct conn. to the Sat server.*

- a. Install the ~~following package (added in Satellite 6.1):~~ *Smart Proxy*

```
# yum install rubygem-smart_proxy_discovery.noarch
```

- b. Check if `foreman_url` setting is ~~present on the Capsule pointing to the Satellite Server correctly:~~ *points to the Sat server*

```
# grep foreman_url /etc/foreman-proxy/settings.yml  
:foreman_url: https://fqdn.of.satellite.server.host  
Satellite.Server.com
```

- c. Restart the foreman-proxy component on the Satellite Capsule server: *For example, in RHEL 7:*

- ▶ For Red Hat Enterprise Linux 6:

```
# service foreman-proxy restart
```

- ▶ For Red Hat Enterprise Linux 7:

```
# systemctl restart foreman-proxy
```

- d. Upgrade the `foreman-discovery-image` package on the Satellite Server and reboot all discovered nodes via ~~Satellite user interface or CLI.~~ *the*

~~You have successfully upgraded your Capsule. For information about what was added in the most current release, please refer to the release notes.~~