



# **Red Hat Satellite 6.0**

## **Release Notes**

Product features and known bugs for Red Hat Satellite 6.0



# Red Hat Satellite 6.0 Release Notes

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Product features and known bugs for Red Hat Satellite 6.0

Red Hat Satellite Documentation Team

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## Abstract

This document contains a set of new features, and known bugs for Red Hat Satellite 6.0

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# CHAPTER 1. RELEASE NOTES

Red Hat Satellite 6 Release Notes provides information on what major features are provided in this release, as well as the known issues that this version contains.

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## 1.1. MAJOR FEATURES

Red Hat Satellite 6 major features are as follows:

### **Bare-metal, Private and Public Cloud Provisioning**

Provisioning bare metal systems, private cloud and public clouds including cloud providers such as Red Hat Enterprise Virtualization, OpenStack, VMWare and EC2.

### **Puppet Forge and Git Integration**

Features for synchronizing Puppet modules from Puppet Forge and Git repositories in Red Hat Satellite 6 provide the ability to manage, promote, and distribute configuration easily across multiple environments.

### **Federated Cycle Management**

Red Hat Satellite 6 enables distribution and federation of provisioning, configuration and content delivery through Red Hat Satellite Capsule Servers.

### **Drift Remediation**

Red Hat Satellite 6 can define system states and automatically correct system drift state with a complete history, reporting, and auditing of changes.

### **Content Views for Life Cycle Management**

End-to-end system life cycle management through collections of refined RPMs and puppet modules that are published and promoted through different life cycle environments.

### **System Discovery**

Discover and search across non-provisioned hosts for quick deployment.

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## 1.2. KNOWN ISSUES

Known Issues and workarounds with Red Hat Satellite 6.0.

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### 1.2.1. Installer

#### **BZ#1139806 Satellite Server Host System Requires Update Before Satellite Installation**

Make sure that the host system is fully updated before installing Red Hat Satellite. Attempts to install on host systems running Red Hat Enterprise Linux that are not fully updated may lead to difficulty in troubleshooting, as well as unpredictable results.

**BZ#1125241 Initial Organizations or Locations Cannot Be Specified**

Changes in the **katello-installer** resulted in a broken initial user seed data which prevents organization and location creation through the **katello-installer** command during installation. The initial organization and location are currently automatically generated as "Default Organization" and "Default Location" respectively. To create your own organization and location, log in to Satellite Server user interface and click on **Administer** → **Users** and **Administer** → **Organizations**.

**BZ#1119910 Services fail to start during installation**

Services failing to start and permissions being denied while installing Red Hat Satellite Server maybe attributed to restrictive umask permissions. Make sure that the root user's umask is set to 0022 before running **katello-installer**:

```
# umask 0022
```

**BZ#1124553 Specifying an Alternate Installation Directory Fails**

Specifying alternate deployment directories with **katello-installer** at installation time is currently unsupported. Do not use the following options:

```
--certs-log-dir           When the log files should go (default:
"/var/log/certs")
--certs-password-file-dir The location to store password files
(default: "certs::params::password_file_dir")
--certs-pki-dir           The PKI directory under which to place
certs (default: "/etc/pki/katello")
--certs-ssl-build-dir     The directory where SSL keys, certs and
RPMs will be generated (default: "/root/ssl-build")
--foreman-app-root        Name of foreman root directory
(default: "/usr/share/foreman")
--foreman-puppet-home     Puppet home directory (default:
"/var/lib/puppet")
--katello-config-dir      Location for Katello config files
(default: "/etc/foreman/plugins")
--katello-log-dir         Location for Katello log files to be
placed (default: "/var/log/foreman/plugins")
```

**BZ#1127307 Installer Fails When The Satellite Server Hostname Has A Hyphen**

When the Satellite Server's hostname contains hyphens, the installation fails with errors. This issue occurs when the domain has no Top Level Domain (TLD). System administrators should make sure that the Satellite Server's hostname includes the TLD. For example:

```
Hostname without TLD: hostname.domain-example
Hostname with TLD: hostname.domain-example.com
```

**NOTE**

Specifying a valid email address with a top level domain while configuring the Satellite Server will also work. For example:

```
# katello-installer --foreman-admin-
email=root@localhost.example.com
```



**BZ#1122623 Installation Fails When Webserver Fails To Start**

The installation fails with the error:

```
Could not start Service[httpd]: Execution of '/usr/share/katello-
installer/modules/service_wait/bin/service-wait httpd start' returned 1:
Starting httpd: [Tue Jul 22 12:49:31 2014] [warn] module passenger_module
is already loaded, skipping
/Stage[main]/Foreman::Database/Foreman::Rake[db:seed]/Exec[foreman-rake-
db:seed]: Failed to call refresh: /usr/sbin/foreman-rake db:seed returned 1
instead of one of [0]
```

This error occurs when puppet has been run on the host prior to the installation. This can occur in environments where the normal bootstrap process on the system involves running puppet. Because puppet has already generated the host pem files, puppet will not generate the ca cert when the installer runs. To work around this issue:

1. Delete or move all of the contents of `/var/lib/puppet/ssl`.
2. Generate a puppet certificate for the host system:

```
# puppet cert generate $(hostname -f)
```

3. Clear all subsequent backend data stores:

```
# katello-installer --reset
```

**WARNING**

This reset option will drop the database, all previous data will be lost. This should only be done prior to initial installation when there is no previous data accumulated. If there is any data you wish to be preserved, do not run the `--reset` option.

**BZ#1121974 katello-installer Does Not Update Network Service Configuration Information for Capsule Servers**

Running **katello-installer** after the initial configuration to enable the Capsule Server's TFTP, DNS and DHCP with the DNS and DHCP arguments, does not update the network service configuration. There is currently an issue with repeatedly running **katello-installer** that removes the dhcp/tftp settings. There are two options to update these settings after the initial configuration:

- Run **katello-installer** with no arguments.
- Edit the answer file `/etc/katello-installer/answers.katello-installer.yaml` with the new configuration options required.

**BZ#1125414 Red Hat Satellite Server Default Admin Password Overwrites Any Password Changes Upon Subsequent Reruns of katello-installer**

Subsequent reruns of the **katello-installer** command will change the admin password back to the

default admin password regardless of any changes made through the web user interface. If you need to run **katello-installer** after changing your administrative password, login to the web user interface after running the **katello-installer** command with the default admin password to change it back to your preferred password.

Information about default passwords and how to reset your password back to the default one can be found in the [Red Hat Satellite User Guide](#).

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## 1.2.2. Capsule

### BZ#1114083 Configuring Proxy Settings Manually for the Capsule Server

While it is possible to set proxy settings in the Satellite Server, it is only possible to configure the Capsule Server's proxy settings manually. To manually configure the proxy settings:

1. Add the extra settings below to the following files in the Capsule Server:

- `/etc/pulp/server/plugins.conf.d/iso_importer.json`
- `/etc/pulp/server/plugins.conf.d/puppet_importer.json`
- `/etc/pulp/server/plugins.conf.d/yum_importer.json`

Add these settings to the files above:

```
{
  "proxy_host" : "proxy_url",
  "proxy_port" : proxy_port,
  "proxy_username" : "username",
  "proxy_password" : "password"
}
```

#### NOTE

Be careful when editing JSON files. The files must contain all the settings listed above even if the proxy does not require a username or password. Use the following if no username or password is required:

```
"proxy_username" : "",
"proxy_password" : ""
```

2. Restart all the Capsule related services.

### BZ#1117984 capsule-installer Results in Errors When Using --certs-tar

When using the `--certs-tar` argument with `capsule-installer`, make sure that the path to the tar archive is correct. If the filename is incorrect, the error condition that results is difficult to diagnose. Future validation checks will be put in place to ensure that error messages will correctly point out the issue.

### BZ#1122139 Proxy Realm Features on a Red Hat Enterprise Linux 7 IPA Server Results in Traceback Errors

Proxy Realm related features can only be deployed on Red Hat Enterprise Linux 6 systems. Future

versions of Red Hat Satellite Capsule Server will be able to run Proxy Realm features on a Red Hat Enterprise Linux 7 system. This operating system requirement is only relevant on the Satellite Capsule Server, host systems can run Red Hat Enterprise Linux 7.

### **BZ#1129256 Registering organizations with subscription-manager**

**capsule-certs-generate** recommends registering organizations with the organization name "ACME Corporation". Users are advised to register their organizations based on a real and valid organization name instead of "ACME Corporation".

[Report a bug](#)

## **1.2.3. Subscription Management**

### **BZ#1118064 Using virt-who --satellite on Red Hat Satellite 6**

Currently **--satellite** is only relevant to Red Hat Satellite version 5 and not 6. Users utilizing virtualization and any associated subscriptions that require **virt-who** should use the **--sam** option rather than the **--satellite** option.

[Report a bug](#)

## **1.2.4. Provisioning**

### **BZ#1112169 Kickstart Provisioning Loops When Using Compute Profiles**

Using compute profiles when guest provisioning an ovirt or RHEV Compute Resource causes the installation process to exit without confirming the end of the installation. This causes the kickstart installation to repeat continuously upon reboot. As a workaround:

1. Edit

```
/usr/share/foreman/app/models/compute_resources/foreman/model/ovirt.rb
```

and change:

```
def supports_update?
  true
end
```

to

```
def supports_update?
  false
end
```

2. Restart httpd:

```
# service httpd restart
```

3. Redo the kickstart installation.

[Report a bug](#)

## **1.2.5. Packaging**

**BZ#1105673** **pulp-puppet-module-builder Fails To Create Puppet Repositories On A Non-Red Hat Satellite 6 System**

Creating puppet git repositories fails because of dependency issues and import errors. In order to utilize the **pulp-puppet-module-builder** command on a separate system from the Satellite Server, subscribe the system to a Red Hat Satellite 6 subscription. This will provide access to the extra packages required to successfully run **pulp-puppet-module-builder**: `pulp-puppet-module-builder`, `python-setuptools` and `python-pulp-puppet-common`. Enable the Red Hat Satellite 6 repositories and install the packages through **yum**:

```
# yum -y install pulp-puppet-module-builder python-setuptools python-pulp-puppet-common
```

**BZ#1131575** **SELinux Relabel on Yum Update of Red Hat Satellite Server Causes Update to Slow Down**

When updating the Satellite Server, `pulp` or other packages, an SELinux relabel process is involved and may take a long time to complete. If there are a number of packages and channels being synchronized, `yum` will appear frozen. Continue to wait, `yum` is not frozen, the relabel process just takes a long time. Estimated time frames maybe more than an hour.

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## 1.2.6. Web User Interface

**BZ#1115315** **Content Search Product Filters have issues with Spaces in the Search String**

On the Satellite Server's **Content Search** user interface, search strings with spaces will not return any result. In order to search product names, use double quotes on the product name or provide escape spaces. For example:

```
"Red Hat Enterprise Server"
```

or

```
Red\ Hat\ Enterprise\ Linux\
```

**BZ#1118444** **Expired Satellite Server User Interface Session Redirects To Incorrect Page After Re-log In**

When a user re-logs in to the Satellite Server User Interface after an expired session, Satellite Server does not redirect to the previously visited page, instead it redirects to an ajax request page. Future versions will attempt to correct this behavior. In the meantime, upon re-login, enter the top-level address. For example, `https://satellite.example.com`.

**BZ#1121753** **Content View Description Is Not Recorded When Saved**

When creating a new content view or changing a content view, the description information is not saved. This ongoing issue will be fixed in future releases. Currently, users are advised to disregard the description field on the Content View publishing page.

**BZ#1131659** **Cannot Create Hosts with a Leading "." In The Domain Name**

Satellite Server will not accept a host name with a domain name that leads with a ".". Satellite Server will declare the system name as invalid. Avoid using domain names with a leading ".". For example, `".mydomain.com"`.

**BZ#1131661 Sync Plan Start Time Is Being Incorrectly Identified as GMT**

The Web UI displays a misleading timezone. The timezone appears as GMT, however, it is actually using the timezone that the Satellite Server's system settings are set to. Future updates to the Red Hat Satellite Server will correctly reflect the timezone.

**BZ#1123483 Enabling Repositories May Cause Errors in Content Delivery**

When enabling repositories, issues with pushing content may occur, especially if the Content Delivery Network (CDN) becomes unavailable or if the repositories do not exist on the CDN. The Satellite Server may produce errors that are not immediately obvious. Any failure to enable repositories maybe caused by an error. The Web UI will not report on these errors, however, the errors may appear in the **production.log** file.

[Report a bug](#)

**1.2.7. Content Management****BZ#1111574 Content Host API Calls Time Out**

Red Hat Satellite 6 APIs that call on method "**GET /katello/api/systems (DEPRECATED) List content hosts**" may experience performance issues when there are over 300 hosts registered on the Satellite Server. A future release will address this issue.

**BZ#1134594 Adding a Repository When a Satellite Capsule Server Is Missing Renders UI Non-Responsive Indefinitely**

If a Satellite Capsule Server is physically removed or unresponsive, creating new repositories may hang indefinitely. Note that in cases where the Satellite Server and the Satellite Capsule Server are geographically far apart with slow or low bandwidth between the systems, it is possible that custom repository creation can take a significant amount of time.

There are two options to prevent this scenario from happening:

- Restart the Satellite Capsule Server so that the Satellite Server can reconnect to it.
- Remove the faulty Satellite Capsule Server from the Capsule Server list:
  1. Log in to the Red Hat Satellite Server.
  2. Click **Infrastructure** → **Capsule** and search for the faulty Satellite Capsule Server on the list.
  3. On the right-most column of the faulty Satellite Capsule Server, click on the drop-down menu and choose **Delete**. Click **Ok** to confirm deletion.

**BZ#1122055 qpid Service Fails to Start After Promoting a Large Number of Content Views**

When promoting a large number of content views and the qpid service fails with this operation error:

```
Starting Qpid AMQP daemon: Daemon startup failed: Queue
pulp.agent.5752dc04-7536-4e5c-b406-a0cd5d9c9119: recoverMessages() failed:
jexception 0x0104 RecoveryManager::getFile() threw JERR__FILEIO: File read
or write failure. (/var/lib/qpid/qlds/jrnl/pulp.agent.5752dc04-7536-4e5c-
b406-a0cd5d9c9119/818fa4b0-3319-4478-b2b0-d2195f90f695.jrnl)
(/builddir/build/BUILD/qpid-
0.22/cpp/src/qpid/linearstore/MessageStoreImpl.cpp:1004)
```

This is caused by the Operating System limiting the number of file descriptors that qpid can use to read journal files when it starts. To prevent this issue, increase the ulimit on your Satellite Server host system.

### **BZ#1136213 Publishing Content Views Fail When Included Repositories Are Not Synchronized**

When attempting to publish a Content View with unsynchronized repositories, the process fails with error "Could not find a published directory".

Ensure that all repositories have been enabled and synchronized prior to adding them to a Content View. A Content View cannot be published if the repositories have not been synchronized.

[Report a bug](#)

## **1.2.8. Configuration Management**

### **BZ#1136542 Red Hat Enterprise Linux 7 Satellite Capsule Server Unable to Sign Certificates for Red Hat Enterprise Linux 5 Clients**

A critical flaw has been discovered with Satellite Server 6 on a Red Hat Enterprise Linux 7 host system. When provisioning and configuring Red Hat Enterprise Linux 5 client systems, kickstart %post phase errors prevent Puppet from functioning properly.

Red Hat is actively working on this issue and will be releasing an Errata for Red Hat Enterprise Linux 5 client systems in the near future to resolve this bug.



#### **IMPORTANT**

Customers planning to deploy Satellite 6 on a Red Hat Enterprise Linux 7 system are advised to wait until the bug fix is released before attempting to provision and configure Red Hat Enterprise Linux 5 systems registered to the Satellite Server.

[Report a bug](#)

## **1.2.9. Disconnected**

### **BZ#1136601 Configuring the Synchronization Server For HTTP Proxy Access**

While it is possible to set the proxy settings in the Satellite Server, the synchronization server's proxy settings need to be manually configured. To manually configure the synchronization server's settings:

1. Log in as root on the synchronization server.
2. Add the extra settings below to the following files:
  - `/etc/pulp/server/plugins.conf.d/iso_importer.json`
  - `/etc/pulp/server/plugins.conf.d/puppet_importer.json`
  - `/etc/pulp/server/plugins.conf.d/yum_importer.json`

Add these settings to the files above:

```
{  
    "proxy_host" : "proxy_url",  
    "proxy_port" : proxy_port,
```

```

    "proxy_username" : "username",
    "proxy_password" : "password"
  }

```

## NOTE

Be careful when editing JSON files. The files must contain all the settings listed above even if the proxy does not require a username or password. Use the following if no username or password is required:

```

    "proxy_username" : "",
    "proxy_password" : ""

```

3. Restart all synchronization server related services.

## IMPORTANT

Each time you run the **import** option, always use the proxy configuration options. The proxy configuration options are as follows:

```

# katello-disconnected import --help
Usage: import [--manifest MANIFEST]
      -m, --manifest MANIFEST      Manifest to import -
required
      --proxy-host PROXY_HOST      HTTP Proxy host FQDN
      --proxy-port PROXY_PORT      HTTP Proxy port
      --proxy-user PROXY_USER      HTTP Proxy user (proxy
username, if auth is required)
      --proxy-password PROXY_PASSWORD
                                  HTTP Proxy pass (proxy
password, if auth is required)

```

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## 1.2.10. Documentation

### Transition Guide Known Issues

The Satellite Transition process relies on new commands to complete the final stage of the transitioning process to transition host systems from Satellite 5 to Satellite 6. This is described in section 3.7.10 of the [Red Hat Satellite Transition Guide](#). These commands, however, are not available in the initial GA release, but will be available in a future release."

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## APPENDIX A. REVISION HISTORY

<b>Revision 1-1</b>	<b>Wed Sep 10 2014</b>	<b>Athene Chan</b>
Added section "Documentation" to accommodate known issues in the documentation.		
Added a known issue about updating host systems prior to installation.		
<b>Revision 1-0</b>	<b>Tue Sep 9 2014</b>	<b>Athene Chan</b>
Red Hat Satellite 6.0 GA Release		
<b>Revision 0-02</b>	<b>Tue Sep 9 2014</b>	<b>Athene Chan</b>
Added content and edited certain sections for the Red Hat Satellite product release.		
<b>Revision 0-01</b>	<b>Fri Aug 22 2014</b>	<b>Athene Chan</b>
Initial creation of the release notes.		