Red Hat Satellite 6.7-beta

Release Notes

Product notes, new features, and known bugs for Red Hat Satellite.
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Abstract

This document contains product notes, brief descriptions of new features, and known bugs for Red Hat Satellite.
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CHAPTER 1. INTRODUCTION

Red Hat Satellite is a system management solution that enables you to deploy, configure, and maintain your systems across physical, virtual, and cloud environments. Satellite provides provisioning, remote management and monitoring of multiple Red Hat Enterprise Linux deployments with a single, centralized tool.

Red Hat Satellite Server synchronizes the content from Red Hat Customer Portal and other sources, and provides functionality including fine-grained life cycle management, user and group role-based access control, integrated subscription management, as well as advanced GUI, CLI, or API access.

Red Hat Satellite Capsule Server mirrors content from Red Hat Satellite Server to facilitate content federation across various geographical locations. Host systems can pull content and configuration from the Capsule Server in their location and not from the central Satellite Server. The Capsule Server also provides localized services such as Puppet Master, DHCP, DNS, or TFTP. Capsule Servers assist you in scaling Red Hat Satellite as the number of managed systems increases in your environment.

1.1. SATELLITE 6 COMPONENT VERSIONS

Red Hat Satellite is a combination of a number of upstream projects. For the full details of the major projects included, and the version of those projects included in each major and minor release of Red Hat Satellite, see Satellite 6 Component Versions.

1.2. RED HAT SATELLITE AND PROXY SERVER LIFE CYCLE

For an overview of the life cycle phases for Red Hat Network Satellite and Red Hat Satellite and the status of support for these products, see Red Hat Satellite and Proxy Server Life Cycle.

1.3. RED HAT SATELLITE FAQ

For a list of frequently asked questions about Red Hat Satellite 6, see Red Hat Satellite 6 FAQ.
CHAPTER 2. CONTENT DELIVERY NETWORK REPOSITORIES

This section describes the repositories required to install Red Hat Satellite 6.7-beta.

You can install Red Hat Satellite 6.7-beta through the Content Delivery Network (CDN). To do so, configure `subscription-manager` to use the correct repository for your operating system version and variant.

Run the following command to enable a CDN repository:

```
# subscription-manager repos --enable=reponame
```

Run the following command to disable a CDN repository:

```
# subscription-manager repos --disable=reponame
```

The following sections outline the repositories required by Red Hat Satellite 6.7-beta. When one of these repositories is required to install a package, the steps to enable the required repositories are included in the documentation.

2.1. RED HAT SATELLITE

The following table lists the repositories for Red Hat Satellite Server.

<table>
<thead>
<tr>
<th>Repository Name</th>
<th>Repository Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Satellite 6 Beta (for RHEL 7 Server) (RPMs)</td>
<td><code>rhel-server-7-satellite-6-beta-rpms</code></td>
</tr>
<tr>
<td>Red Hat Satellite 6 Beta (for RHEL 7 Server) (ISOs)</td>
<td><code>rhel-server-7-satellite-6-beta-isos</code></td>
</tr>
</tbody>
</table>

2.2. RED HAT SATELLITE CAPSULE

The following table lists the repositories for Red Hat Satellite Capsule Server.

<table>
<thead>
<tr>
<th>Repository Name</th>
<th>Repository Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Satellite Capsule 6 Beta (for RHEL 7 Server)</td>
<td><code>rhel-server-7-satellite-capsule-6-beta-rpms</code></td>
</tr>
</tbody>
</table>

2.3. RED HAT SATELLITE MAINTENANCE

The following table lists the repositories for Red Hat Satellite Maintenance.

<table>
<thead>
<tr>
<th>Repository Name</th>
<th>Repository Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 2.4. RED HAT SATELLITE TOOLS

The following tables list the repositories for Red Hat Satellite Tools.

#### Table 2.4. Red Hat Satellite Tools for Red Hat Enterprise Linux 6

<table>
<thead>
<tr>
<th>Repository Name</th>
<th>Repository Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 6 Desktop) (RPMs)</td>
<td>rhel-6-desktop-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 6 Server) (RPMs)</td>
<td>rhel-6-server-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 6 Workstation) (RPMs)</td>
<td>rhel-6-workstation-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 6 for System Z) (RPMs)</td>
<td>rhel-6-for-system-z-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 6 for IBM Power) (RPMs)</td>
<td>rhel-6-for-power-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 6 for Scientific Computing) (RPMs)</td>
<td>rhel-6-for-hpc-node-satellite-tools-6-beta-rpms</td>
</tr>
</tbody>
</table>

#### Table 2.5. Red Hat Satellite Tools for Red Hat Enterprise Linux 7

<table>
<thead>
<tr>
<th>Repository Name</th>
<th>Repository Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 7 Desktop) (RPMs)</td>
<td>rhel-7-desktop-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 7 Server) (RPMs)</td>
<td>rhel-7-server-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 7 Workstation) (RPMs)</td>
<td>rhel-7-workstation-satellite-tools-6-beta-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta (for RHEL 7 for System Z) (RPMs)</td>
<td>rhel-7-for-system-z-satellite-tools-6-beta-rpms</td>
</tr>
</tbody>
</table>
### Table 2.6. Red Hat Satellite Tools for Red Hat Enterprise Linux 8

<table>
<thead>
<tr>
<th>Repository Name</th>
<th>Repository Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Satellite Tools 6 Beta for RHEL 8 x86_64 (RPMs)</td>
<td>satellite-tools-6-beta-for-rhel-8-x86_64-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta for RHEL 8 s390x (RPMs)</td>
<td>satellite-tools-6-beta-for-rhel-8-s390x-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta for RHEL 8 ppc64le (RPMs)</td>
<td>satellite-tools-6-beta-for-rhel-8-ppc64le-rpms</td>
</tr>
<tr>
<td>Red Hat Satellite Tools 6 Beta for RHEL 8 aarch64 (RPMs)</td>
<td>satellite-tools-6-beta-for-rhel-8-aarch64-rpms</td>
</tr>
</tbody>
</table>
CHAPTER 3. KEY CHANGES TO THE DOCUMENTATION SET

The following notable changes were made to the Red Hat Satellite documentation set for this release:

**Configuring Virtual Machine Subscriptions in Red Hat Satellite**

*Configuring Virtual Machine Subscriptions in Red Hat Satellite* has replaced the *Virtual Instances Guide*. The content has been reworked to improve readability and ease-of-use when using virt-who to manage host-based subscriptions.

**Content Management Guide**

A new section on specifying HTTP proxies for individual repositories has been added:

*Changing the HTTP Proxy Policy for a Repository*

**Managing Hosts**

A new chapter on using report templates to monitor hosts has been added:

*Using Report Templates to Monitor Hosts*
CHAPTER 4. TECHNOLOGY PREVIEW FEATURES

IMPORTANT

Technology Preview features are not supported with Red Hat production service-level agreements (SLAs) and might not be functionally complete. Red Hat does not recommend using them for production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process. For more information, see Red Hat Technology Preview Features Support Scope.

The following features are available as Technology Previews in Red Hat Satellite:

**Container-native Virtualization plug-in**
Provisioning virtual machines with Container-native Virtualization.

**Kernel execution (kexec) template**
Kernel execution template for PXE-less boot methods.

**Tracer**
Integration with the Tracer tool, which monitors running processes and identifies if they need to be restarted due to package updates or similar activities.

**Common Access Card (CAC) authentication**
CAC authentication in Satellite through Red Hat Single Sign-On.
CHAPTER 5. RELEASE INFORMATION

These release notes highlight technology preview items, recommended practices, known issues, and deprecated functionality to be taken into consideration when deploying this release of Red Hat Satellite 6. Notes for updates released during the support lifecycle of this Red Hat Satellite 6 release will appear in the advisory text associated with each update.

5.1. ENHANCEMENTS

This release of Red Hat Satellite 6 features the following enhancements:

BZ#1201146
With the introduction of Azure provisioning support, you can create a compute resource for Azure and provision new hosts on Azure from the Satellite web UI, API, or Hammer CLI.

BZ#1215390
The improved tuning assistant has new medium and large tuning profiles, as well as enhancements for existing profiles. As your Satellite environment scales, you can change your tuning profiles to improve performance.

BZ#1378442
Support has been added for uploading the SRPM file type content using the Satellite API or Hammer CLI.

BZ#1474311
For improved task management and monitoring, a number of web UI enhancements have been added to the Monitor > Tasks window in the Satellite web UI. To help identify and track potential issues with long-running tasks, a Duration column has been added (BZ#1474311). Buttons have been added to allow for bulk cancelling or resuming of tasks (BZ#1269673, BZ#1777908).

BZ#1568046
You can now select an HTTP proxy policy for individual repositories. The proxy policy specifies whether to use no proxy, the globally configured proxy, or a specific proxy.

BZ#1597246
You can now choose to randomize the order in which remote execution jobs are executed on hosts, helping to reduce the load when running a large number of remote execution jobs on a large number of hosts.

BZ#1607550
This release includes a new reports API to improve the performance of Ansible Tower inventory integration.

BZ#1662492
You can use the new Entitlements report template to monitor which entitlements are consumed by hosts that you manage with Satellite.

BZ#1694093
To improve performance, if Event and Monitor tasks stop for any reason, they are restarted automatically. If the automatic restart fails, an alert is triggered. Furthermore, if multiple instances of the Event and Monitor tasks are running, they now stop automatically and only one instance of each task runs.

BZ#1698154
You can now import and export templates in the Satellite web UI at Hosts > Sync Templates. After you click Submit, the web UI displays a new page with the status of the import or export.

BZ#1698158
You can now set System Purpose attributes in an activation key, so that hosts registered using that activation key have their System Purpose set automatically.

**BZ#1698181**

You can now access a Red Hat Enterprise Linux host’s Web Console directly from the Satellite web UI. Navigate to Hosts > All Hosts, click the name of the host, then click Web Console. The host’s Web Console opens and automatically authenticates using SSH. Note that you must first enable Web Console access using satelliter-installer.

**BZ#1718077**

The template editor UI has been updated with usability improvements.

**BZ#1718988**

You can now create content view filters based on AppStreams, and incrementally update a content view with AppStreams and its dependencies.

**BZ#1721848**

Support has been added to the Google Compute Engine (GCE) compute resource for Hammer CLI and API endpoints.

**BZ#1732056**

Satellite 6.7 uses separate settings to configure default download policies for Red Hat and custom repositories: Default Red Hat Repository download policy and Default Custom Repository download policy. The default value for the Default Red Hat Repository download policy setting is on_demand. The default value for the Default Custom Repository download policy setting is immediate. These settings affect newly synchronized repositories. To review the default settings after an upgrade, in the Satellite web UI, navigate to Administer > Settings and click the Content tab.

**BZ#1734808**

For improved Ansible performance and stability, ansible-runner is now the only available Ansible implementation. The ansible-playbook implementation is no longer available.

**BZ#1814595**

Previously, password hashing in Satellite used SHA1. As part of this release, new installations of Satellite 6.7 use bcrypt for password hashing.

Users who upgrade from Satellite 6.6 to 6.7 continue to have SHA1 for password hashing until users change their passwords. As part of your upgrade to Satellite, consider enforcing password updates for all users.

To change the bcrypt cost value that you want to use for password hashing, in the Satellite web UI, navigate to Administer > Settings, click the Authentication tab, and edit the BCrypt password cost setting.

Changes to the bcrypt cost value are implemented after the next password change. Note that while higher values are safer, higher bcrypt cost values have a performance impact on API and UI logins.

### 5.2. TECHNOLOGY PREVIEW

The items listed in this section are provided as Technology Previews. For further information on the scope of Technology Preview status, and the associated support implications, refer to https://access.redhat.com/support/offerings/techpreview/.

**BZ#1571210**

Technology Preview support has been added for Common Access Cards (CAC) authentication in Satellite through Red Hat Single Sign On.
5.3. KNOWN ISSUES

These known issues exist in Red Hat Satellite 6 at this time:

**BZ#1541481**
If you have SELinux enabled, using Kerberos (KRB) keys instead of RSA keys can cause remote execution jobs to fail.

**BZ#1578911**
When you provision a host using the VMware compute resource, you can only select the default resource pool. If you try to select a different resource pool, provisioning fails. As a workaround, disable the cache on the compute resource.

**BZ#1619274**
UEFI HTTP boot is currently not supported in Satellite. The work is incubating in the upstream, so users may see the templates for this feature. These should not be used until the feature is supported.

**BZ#1649927**
Using the Hammer CLI, there are problems provisioning from an image using the VMware compute resource. As a workaround, specify the image_id in the `--compute-attributes` option in the Hammer CLI, for example, `--compute-attributes="image_id='500d7545-8e17-ce0f-4011-79c5c2c88e49'`.

**BZ#1678179**
In the Satellite web UI, the bulk action feature for the set repositories of content hosts does not list the custom product repositories. An empty list is displayed rather than a list of the custom repositories.

**BZ#1692753**
The description of the location_id and organization_id parameters are unclear in the ApiDoc and the error message for these parameters is incorrect. You must use these parameters to set the context scope for an API query, but not to update a location or organization of a compute resource. If you use this command to update a compute resource, an API request returns the wrong error message "Compute resource doesn't exist".

**BZ#1713401**
When you apply the OSPP security policy to a Red Hat Enterprise Linux 8 system during provisioning, the katello-ca-consumer package cannot be installed from Satellite Server. Therefore, the system cannot be registered as a content host. As a workaround, after the system is provisioned, install the katello-ca-consumer with the following command and then register the system manually:

```
# rpm -Uvh --nodigest --nofiledigest http://satellite.example.com/pub/katello-ca-consumer-latest.noarch.rpm
```

**BZ#1719175**
If an HTTP proxy password contains special characters, such as "?", Insights uploads fail with the "407 Proxy Authentication Required" error. Do not use special characters in an HTTP proxy password.

**BZ#1719636**
If you edit the subscription information for hosts in Satellite, the hosts do not display in the audit records of the Satellite web UI. Instead of a list of hosts, the following error is displayed: "Missing(ID: 2)" in "Host ids" line.

**BZ#1720369**
Entering the following command can lead to broken symlinks for repository metadata. Do not enter this command until BZ#1720369 is resolved.
# foreman-rake katello:delete_orphaned_content RAILS_ENV=production

If you have broken symlinks, regenerate the yum repository metadata.

BZ#1745724
The hammer organization command shows a warning for deprecated options even when those options are not used. The command still works without issue; if you are not using the deprecated options you can ignore the warnings.

BZ#1745835
Full Capsule synchronization fails and does not fully publish new metadata.

BZ#1750248
Rotated log files are not reopened even when a HUP signal is sent to the foreman-proxy daemon. As a result, deleted files are reported as still open, logging does not work correctly, and log records can be lost. You can check for deleted files by running the following command:

```
lsolgrep deleted | grep "\/var\/log"
```

To work around this issue, restart the foreman-proxy service after logs are rotated.

BZ#1754314
Satellite hosts that use katello-agent might experience a memory leak caused by the qpid-proton package.

BZ#1754881
Foreman-maintain fails to restore data from some backups due to issues reading tar files. In a future release, foreman-maintain will be updated to use GNU tar to support all tar archive edge cases.

BZ#1758645
You cannot provision a VMWare virtual machine with the ESXi 6.7 U2 hardware version from Satellite.

BZ#1759588
The foreman-maintain packages update all command does not work. To update all packages on the Satellite base operating system, enter the foreman-maintain packages update \* command.

BZ#1763893
During an impersonation session, a user with administrator privileges for Satellite can impersonate another user with administrator privileges and can perform all actions that an administrator performs including creating and deleting other users with administrative privileges.

BZ#1814361
If you have changed a Satellite hostname by running the satellite-change-hostname command with the --skip-dns option and then try to change the hostname again, the operation fails. This happens because the satellite-change-hostname command expects that the dynamic DNS files contain the current hostname, however running the satellite-change-hostname command with the --skip-dns option does not change the dynamic DNS files.

To fix this issue, after changing the hostname once with the --skip-dns option, change the hostname again to the initial hostname that matches the DNS record without the --skip-dns option. Then, change the hostname with the --skip-dns option again.

5.4. DEPRECATED FUNCTIONALITY

The items in this section are either no longer supported, or will no longer be supported in a future release.
The background download policy is deprecated and will be removed in a future release. At removal time, repositories that are set to the background download policy will be converted to the immediate download policy.

The following management operations of OSTree and Puppet content types are deprecated and will be removed in a future release:

- Creating OSTree and Puppet repositories
- Synchronizing OSTree and Puppet repositories
- Adding repositories of OSTree and Puppet content types to Content View.
- Publishing and promoting the Content Views containing repositories of OSTree and Puppet content types across life cycle environments.

Smart Variables are deprecated and will be removed in a future release. Smart Variables were introduced as a workaround before parameterized Puppet classes existed. You must use Smart Class Parameters with parameterized Puppet classes to pass values from Satellite to Puppet.

The /api/config_templates/ API endpoint is deprecated in Satellite 6.7 and will be removed in Satellite 6.8. Use the /api/provisioning_templates/ API endpoint instead.

The /api/hosts/:id/status API endpoint is deprecated in Satellite 6.7 and will be removed in Satellite 6.8. To get the configuration status for hosts, use the more specific /api/hosts/:id/status/configuration API endpoint instead.

The /api/reports/ API endpoint is deprecated in Satellite 6.7 and will be removed in Satellite 6.8. Use the /api/config_reports/ API endpoint instead.

The API parameter use_puppet_default that is used with smart class parameters and overrides is deprecated in Satellite 6.7 and will be removed in Satellite 6.8. Use the omit API parameter instead.

The API parameters name and resource_type that is used with the /api/permissions/ API endpoint are deprecated in Satellite 6.7 and will be removed in Satellite 6.8. Use the the search parameter with name = my_permission_name or resource_type = my_resource_type values instead.

The uuid API parameter that is used with the /api/compute_resources/ API endpoint is deprecated in Satellite 6.7 and will be removed in Satellite 6.8. Use the datacenter API parameter instead.

The --environment and --environment-id options of the hammer command are deprecated because of confusion between lifecycle and Puppet environments. Use the --lifecycle-environment or --puppet-environment options instead.

The Katello agent is deprecated and will be removed in a future release. Transition your workloads to using the remote execution feature.
5.5. REMOVED FUNCTIONALITY

**BZ#1591908**

To improve performance and prevent the storage of unnecessary data, which led to reported problems with disk overflow, the *cp_events* table has been removed from the Candlepin database. The corresponding *Events* tab that was located in the Satellite web UI at *Hosts > Content Hosts > hostname > Subscriptions* has been removed.

**BZ#1806548**

The *katello-remove* command that uninstalled Satellite and Capsule Servers has been removed.