Red Hat Satellite 6.13

Release Notes

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

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Legal Notice

Abstract

This document contains product notes, brief descriptions of new features, and known issues for Red Hat Satellite.

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PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

We appreciate your feedback on our documentation. Let us know how we can improve it.

Use the **Create Issue** form in Red Hat Jira to provide your feedback. The Jira issue is created in the Red Hat Satellite Jira project, where you can track its progress.

Prerequisites

- Ensure you have registered a Red Hat account.

Procedure

1. Click the following link: Create Issue. If Jira displays a login error, log in and proceed after you are redirected to the form.

2. Complete the **Summary** and **Description** fields. In the **Description** field, include the documentation URL, chapter or section number, and a detailed description of the issue. Do not modify any other fields in the form.

3. Click **Create**.

CHAPTER 1. INTRODUCING RED HAT SATELLITE 6.13

These release notes highlight major changes, enhancements, technology preview items, known issues, deprecated functionality, and removed functionality you must take 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.

1.1. MAJOR CHANGES

The 6.13 release of Red Hat Satellite features the following major changes:

Persistent customization of Ansible configuration

Previously, Satellite stored essential Ansible configuration in **/etc/foreman-proxy/ansible.cfg**, which was symlinked to the home directory of the **foreman-proxy** user as **/usr/share/foreman-proxy/.ansible.cfg**. This file was overwritten on each run of Satellite installer. Therefore, and because Ansible ignored other configuration files, you could not customize Ansible configuration persistently.
With this release, Satellite stores essential Ansible configuration as environment variables in **/etc/foreman-proxy/ansible.env** instead. This means that Ansible now reads configuration from **/etc/ansible/ansible.cfg** and the environment provided by Capsule. You can use **/etc/ansible/ansible.cfg** to customize Ansible configuration persistently, because Satellite installer does not affect this file.

Note that environment variables take precedence over values in **/etc/ansible/ansible.cfg**, which ensures that the essential configuration required by Satellite is retained.

Host registration through a Capsule load balancer

In a deployment with load balancing, you can configure Capsules to provide a load balancer as an option for the global registration feature. You can pass the URL of the load balancer as the **--foreman-proxy-registration-url** argument to Satellite installer when you configure Capsule for load balancing. Then you can register hosts in Satellite to the load balancer directly, which eliminates the need to manually reconfigure subscription manager on the hosts after registration.

1.2. ENHANCEMENTS

The 6.13 release of Red Hat Satellite features the following enhancements:

HTTP/2 enabled by default in Apache

With this release, Apache web server is configured to provide HTTP/2. Web clients can use capabilities of the newer HTTP such as to retrieve resources in parallel, which means that the resources load faster. Apache still provides HTTP/1.1 as well, therefore, web clients are not required to support HTTP/2.

Enable Simple Content Access with new task

A new enhancement has been added for users of custom products who are switching on Simple Content Access (SCA). When SCA is turned on, the system will now create content overrides to disable any repositories for which you had not attached a subscription. This way, hosts and activation keys will have access to the same content as before. If, for some reason, you need to turn on SCA without automatically creating these overrides, you can do this through Hammer with **hammer simple-content-access enable --organization-id xxx --auto-create-overrides=false**. This enhancement is available starting with 6.13.2.

New report template **Host - Enabled Repositories**

You can now generate reports using the new template that iterates over all of your hosts and looks at

the repositories your host can consume from known as bound repositories. The report shows information about the host, repository, iteration, and package count. The package count is limited by Content View filters due to the bound repositories, so the report will not just display what is available in the Library environment but the exact package count after filtering.

Host details page Module streams updates

Filters have been added to the **Modules streams** listing on the **Host details** page. You can use filter options such as **Enabled**, **Installed**, **Disabled**, **Unknown**, **Upgradable**, and **Installation status**. You can filter module streams by **Installation status**. Additionally, you can perform actions for the module streams. These actions include selecting **Enable**, **Disable**, **Install**, **Upgrade**, **Reset**, and **Remove** module streams.

Syncing Capsule from Red Hat CDN

You can now sync Capsules directly from Red Hat CDN. Create a simplified alternate content source and add Red Hat products to it. Make sure that you add the Capsules that you want to sync from the Red Hat CDN to this simplified alternate content source.

Foreman Discovery Image is now based on RHEL 8

Previously, the Foreman Discovery Image (FDI) was based on Red Hat Enterprise Linux 7. With this release, Satellite provides an FDI that is based on Red Hat Enterprise Linux 8 kernel and includes updated network card drivers.

Updated data model and form to add Google compute resources

Previously, when you were adding a Google Cloud Engine (GCE) compute resource, you had to provide a **Google Project ID**, **Client Email**, and **Certificate** in a JSON key separately, all of which came from your service account in Google Cloud. With this release, you provide just the **JSON key**, which already contains all these data. Satellite now stores these data together. Existing GCE compute resources are migrated to the new data model automatically during an upgrade.

Users can now authenticate to Satellite using their IdM credentials

Users can now use their Red Hat Identity Management (IdM) login and password to log in to their Satellite Hammer CLI, API and Web UI. Administrators can choose between enabling one of the following access modes:

- Access only to the Satellite web UI.

- Access to the Satellite web UI, the Satellite API, and the Hammer CLI.

WARNING

Enabling access to all interfaces can lead to security problems. After an IdM user receives a Kerberos ticket-granting ticket (TGT) by entering **kinit user_name**, an attacker can obtain an API session even though no credentials were entered, for example, in the browser.

Non-root sudoers requiring a password can now perform sudo operations on RHEL web console

Users requiring a password to perform sudo operations can now log in to RHEL web console in a privileged session. If the users have the sudo password set in Satellite, they do not have to enter the password when logging in.

Create host from host group

You can now create a host directly from the host group by going to **Configure** > **Host Groups**. For the hostgroup, click the drop-down menu in the **Actions** column, select **Create Host**. This opens the host creation wizard with the host group field automatically populated. The wizard will look for other parameters in the host group and populate them automatically.

Ability to search by Insights status

When searching for hosts, you can now filter search results by Insights status of the hosts: not registered, registered but not reporting, and registered and reporting.

Ability to search by Ansible role

When searching for host groups, you can now filter search results by Ansible role.

Labels on the host page are now clickable

Clicking on labels next to the host name on the host page now leads to search of all hosts with the same characteristics.

Host-group counts on the Ansible Roles page are now clickable

Clicking on a host-group count now leads to a list of host-groups which have the Ansible role assigned.

Selectable columns in the host table

You can now choose what columns are displayed in the host table on the **Hosts** > **All Hosts** page. For more information, see Selecting Host Columns in *Managing Hosts*.

Packages tab now has a dropdown menu to select the upgrade version

A dropdown menu was added to the **Packages** tab under the **Content** tab in **Content Hosts** to select the upgrade version you want to filter. Under the **Status** dropdown menu, you can select **Upgradable** or **Up-to date** to filter the packages. If there are multiple upgrade versions available and none are selected, the most recent one is used for the upgrade.

New Report Template to list installed packages

In this release, you can get a list of all installed packages for the complete list of content hosts in your environment with the new Report Template namely **Host - All Installed Packages**.

Filter installed packages by vendor

Users can now filter installed packages by the vendor after an update to the Content tab of the host details page. In the **Content** tab, click **Packages** sub-tab, and type *vendor* into the search box for autocomplete or regular search.

REX pull transport improvements

- You can limit the maximum number of active jobs on Capsule. For more information, see Setting the Job Rate Limit on Capsule in *Managing Hosts*

- New global setting **Time to pickup** specifies time after which the job is canceled if not picked up by the host. The setting can be overridden on a job level. For more information, see Remote Execution Settings in *Administering Red Hat Satellite*.

- You can now specify an effective user when scheduling a remote job. For more information, see Advanced Settings in the Job Wizard in *Managing Hosts*.

- You can now schedule jobs even if the host is offline. The host picks up the job once online, unless **time to pickup** expires first.

New job wizard form

With this release, the wizard for scheduling a remote job has been redesigned. You can still use the old form of the job wizard. For more information, see Executing a Remote Job in *Managing Hosts*.

You can generate a report with details about invoked remote execution jobs

To generate a report about invoked remote execution jobs, click **Generate report** on the **Monitor** > **Jobs** page.

Failed remote execution jobs now provide more specific error messages

With this release, pre-flight checks were added to remote execution jobs. Pre-flight checks detect whether the script can be executed in the target directory and whether it is possible to change to the effective user required for the job. If either condition is not met, an error message is displayed. If you want to see concrete commands that were run within the job, ensure that the log level is set to debug

on the Satellite Server or Capsule through which the job was executed. You can then find the commands in **/var/log/foreman-proxy/proxy.log**. In addition, remote execution now detects a failure in authentication and reports tried authentication methods.

Content View versions can now be compared

Users can now compare Content View versions. For more information, see Comparing Content View Versions in *Managing Content*.

Alternate Content Sources

You can populate a repository with content that is locally stored or geographically closer to you, using the alternate content sources feature. This can be used to accelerate repository synchronization, as only the metadata is pulled in from the repository server, while the content itself is synchronized from the alternate content source.
The alternate content source can be set up for a Satellite server, as well as for Capsule servers.

To create alternate content sources, navigate to **Content** > **Alternate Content Sources** > **Add Source**.

This release introduces three types of alternate content sources:

- **Custom Alternate Content Source**

  - You can use custom alternate content source to define repositories structured under a common network or filesystem path. For more information, see Configuring Custom Alternate Content Sources in *Managing Content*.

- **Simplified Alternate Content Source**

  - You can use simplified alternate content source to sync Capsule content directly from the upstream repositories by selecting the desired products. For more information, see Configuring Simplified Alternate Content Sources in *Managing Content*.

- **RHUI Alternate Content Source**

  - RHUI alternate content source define RHUI repository paths with guided steps. For more information, see Synchronizing Capsule Directly From Red Hat CDN in *Managing Content*.

Simple Content Access Improvements

- Importing a manifest no longer changes the content access mode (SCA/entitlement). This is because the content access mode is now set on the organization, not the manifest. Instead of toggling SCA in **Subscriptions** > **Manage Manifest**, you can toggle it with a checkbox located on the **Organization Edit** page.

- Toggling SCA on the **Organization Edit** page no longer causes a manifest refresh.

- SCA is enabled by default when you create a new organization. If you want to disable SCA, uncheck **Simple Content Access** on the **Primary** tab when creating the organization.

For more information on SCA, see Simple Content Access .

Improved visibility for Any Organization and Any Location

With this release, the web UI displays special icons for **Any Organization** and **Any Location** to show that these are special names. The WebUI shows an error if users try to create an organization with the name **Any Organization** or a location with the name **Any Location** as these are special names.

1.3. BUG FIXES

The 6.13 release of Red Hat Satellite features the following bug fixes:

Upgrading the Satellite Server no longer fails with a satellite-maintain error

Prior to this fix, the upgrade process of Satellite Server required you to enable the next version of the Satellite repository in addition to the Satellite Maintenance repository. With this release, you must only enable the Satellite Maintenance repository. As a prerequisite, enable the new **satellite-maintenance:el8** dnf module to access the packages inside the Satellite Maintenance repository.

Last sync dates no longer disappear from the capsule page after a task cleanup

Previously, the last sync date on the capsule page relied only on tasks. As a result, task cleanup caused the last sync date to show **never synced**. With this release, capsules can get their last sync date from audit records if there are no tasks found.

Provisioning a RHEL 9 host does not result in booting into the emergency mode

Previously, when you provisioned the RHEL 9 host, the operating system could go into the emergency mode when attempting to boot the new kernel. This is resolved with an update in the RHEL 9 Kickstart repository. Synchronize your repository with the updated Kickstart repository.

Job is not dropped in pull mode when MQTT client is not running at invocation time

Previously, the 'yggdrasild' service dropped the remote execution job after restart if it was not runnning at the time you invoked the job on a host in pull mode. With this release, the job is not dropped after **yggrasild** restarts and is executed normally.

You can enable Ansible callback per job template

Ansible callback allows hosts to send facts, which are used to create configuration reports, back to Satellite after a job finishes. You can now enable the callback for Ansible job templates per template. By default, the callback is enabled only for the original **Ansible Roles - Ansible Default** template and disabled for all the other original Ansible job templates. To enable the callback, create, clone, or edit an unlocked Ansible job template, navigate to the **Ansible** tab and select the **Enable Ansible Callback** checkbox.
This is fixed in 6.13.4.

The Insights tab shows the correct recommendations after switching to another host

Previously, when you switched to the next host using the breadcrumbs switch, the **Insights** tab kept displaying the data from the previous host. With this release, the **Insights** tab displays the data of the host you switched to.

The Insights tab shows the correct recommendations after switching to a new host

Previously, when you switch to a new host using the breadcrumb switcher, the **Insights** tab continued to show data from the previous host. With this release, the **Insights** tab displays data from the new host when you switch to it.

New host page bug fixes

- Previously, the new host page did not display global host parameters. With this release, you can now view global host parameters under the **Parameters** tab on the new host page.

- Previously, you could not review host templates on the new host page. With this release, you can find the host template details on the **Templates** card under the **Details** tab.

1.4. TECHNOLOGY PREVIEWS

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 6.13:

OVAL / CVE Reporting Support

Satellite now includes the ability to scan systems for vulnerabilities using the OVAL standard data feed provided by Red Hat.
foreman_openscap contains the API to upload the OVAL content used to trigger the OVAL oscap scans. The results are parsed for CVEs and sent to Satellite which then generates reports of managed hosts and the CVEs that effect them.

OpenShift Virtualization plugin

You can provision virtual machines using the OpenShift Virtualization compute resource as a Technology Preview.

Kernel execution (kexec) template

Kernel execution template for PXE-less boot methods.

1.5. KNOWN ISSUES

The following known issues exist in Red Hat Satellite 6.13 at this time:

Disabled Puppet with all data removed cannot be re-enabled

If the Puppet plug-in was disabled with the **-f, --remove-all-data** argument and you attempt to enable it again, Satellite maintain fails.
BZ#(2087067)

Alternate Content Sources that use HTTP proxies cannot have the HTTP proxy removed

If the **Use HTTP Proxy** flag is unset on the Alternate Content Source, traffic continues to go through the HTTP proxy. The workaround is to destroy the Alternate Content Source and recreate it.
BZ#(2162458)

Logging error during the host registration with Red Hat Insights

During host provisioning, the host is registered with Red Hat Insights by running the command **insights-client --register --verbose**. It ended up with a logging error after package installation. However, it requires no workaround as this error occurs only once and it does not repeat after the initial output. More details for the same can be found in the provisioning log.

BZ#(2129254)

Job invocation details show incorrect results of execution on multiple hosts

When you run an Ansible job against multiple hosts and the execution fails on some hosts, the results of the execution on all hosts are marked as failed in the job invocation details. As a result, partial failure of jobs is not respected and you can see the failed result status even for hosts on which execution succeeded.

BZ#(2167396)

This is fixed in the 6.13.1 update.

Information from host group is not completely inherited when provisioning a discovered host in the Satellite web UI

When you provision a discovered host, after selecting a host group and trying to customize the host entry, many critical pieces of information are missing. This results in a failed deployment attempt. As a workaround, perform one of the following actions:

- Provision the host using hammer:

  ```
  # hammer discovery provision --name discovered_host_name \
  --hostgroup-id your_hostgroup_id \
  --organization-id your_organization_id \
  --location-id your_location_id \
  --new-name new_host_name\
  --build true
  ```

  For more information, see hammer discovery provision in *Hammer CLI Guide*.

- Configure discovery rules and enable auto-provisioning so that no manual intervention is required to provision a discovered host. For more information, see Creating Discovery Rules in *Provisioning Hosts*.

BZ#(2069324)

1.6. DEPRECATED FUNCTIONALITY

This part provides an overview of functionalities that have been deprecated in Red Hat Satellite 6.13.

Deprecated functionality will likely not be supported in a future release of this product and is not recommended for new deployments.

Package group actions

Package group actions in the Satellite web UI is deprecated and will be removed in a future release.

Asynchronous SSH remote execution mode

The **async-ssh** remote execution mode is deprecated and will be removed in a future release. When you have unstable connectivity between Capsules and managed hosts, Red Hat advises you to use the **pull** mode instead. For more information about pull mode, see Transport Modes for Remote Execution in *Managing Hosts*.

Concurrency control and Time span

Concurrency control and **Time span** settings in remote job scheduling are deprecated and will be removed in a future release.

Append domain names to the host

The **Append domain names to the host** setting is deprecated and will be removed in a future release. Use FQDN (Fully Qualified Domain Name) to identify the hosts.

Foreman Hooks

Foreman Hooks functionality has been deprecated and will be removed in a future release. The functionality will be replaced by the new Foreman Webhooks feature that will be documented with its release.

Provisioning on Red Hat Virtualization

The integration of Red Hat Virtualization (RHV) with Satellite is deprecated and will be removed in a future release. All the existing compute resources of RHV type will be removed and the hosts associated with RHV will be disconnected.

Bootstrap.py

The **bootstrap.py** script used to register a host to Satellite or Capsule Server has been replaced with the **curl** command created with the global registration template.

Entitlements

Entitlement-based Subscription Management is deprecated and will be removed in a future release. It is recommended to use Simple Content Access , which simplifies the entitlement experience for administrators in regards to subscriptions as a substitute.

Katello Agent

Katello Agent is deprecated and will be removed in a future release. Transition your workloads to use the **Remote Execution** feature.

Katello-ca-consumer package

The **katello-ca-consumer** package is deprecated and will be removed in a future release. Use the global registration template for registering a host to Red Hat Satellite.

1.7. REMOVED FUNCTIONALITY

This part provides an overview of functionalities that have been removed in Red Hat Satellite 6.13.

The Satellite-installer option --disable-system-checks is removed

The **--disable-system-checks** option has been removed from the satellite-installer. A Satellite installation now requires the minimum recommended system resources to be allocated. For non-production deployments, and only if absolutely necessary, you can use **--tuning development** as an alternative option.

CHAPTER 2. KEY REFERENCES

2.1. WHAT IS RED HAT SATELLITE

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 content from the 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 share the content across various geographical locations. Host systems can pull content and configuration from the Capsule Server in their location instead of from the central Satellite Server. The Capsule Server also provides localized services such as Puppet server, DHCP, DNS, or TFTP. Capsule Servers assist you in scaling Red Hat Satellite as the number of managed systems increases in your environment.

2.2. SUPPORTED ARCHITECTURES

For an overview of supported architectures in Satellite, see Supported Client Architectures.

2.3. CONTENT DELIVERY NETWORK REPOSITORIES AND TOOLS

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

You can install Red Hat Satellite 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 table lists the repositories for Satellite Server, Capsule Server, and Satellite Maintenance.

Table 2.1. Red Hat Satellite Base, Capsule, Maintenance, and Utils for RHEL 8

Repository Name	Repository Label
Red Hat Satellite 6.13 for RHEL 8 x86_64 (ISOs, RPMS, Debug RPMS, Source RPMS)	satellite-6.13-for-rhel-8-x86_64-{isos, rpms, debug-rpms, source-rpms}
Red Hat Satellite Capsule 6.13 for RHEL 8 x86_64 (RPMS, Debug RPMS, Source RPMS)	satellite-capsule-6.13-for-rhel-8-x86_64-{rpms, debug-rpms, source-rpms}

Repository Name	Repository Label
Red Hat Satellite Maintenance 6.13 for RHEL 8 x86_64 (RPMS, Debug RPMS, Source RPMS)	satellite-maintenance-6.13-for-rhel-8-x86_64-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Utils 6.13 for RHEL 8 x86_64 (RPMS, Debug RPMS, Source RPMS)	satellite-utils-6.13-for-rhel-8-x86_64-{rpms, debug-rpms, source-rpms}

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

Table 2.2. Red Hat Satellite Client for Red Hat Enterprise Linux 6

Repository Name	Repository Label
Red Hat Satellite Client 6 (for RHEL 6 Server - ELS) (RPMS, Debug RPMS, Source RPMS)	rhel-6-server-els-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 6 for System Z - ELS) (RPMS, Debug RPMS, Source RPMS)	rhel-6-for-system-z-els-satellite-client-6-{rpms, debug-rpms, source-rpms}

Table 2.3. Red Hat Satellite Client for Red Hat Enterprise Linux 7

Repository Name	Repository Label
Red Hat Satellite Client 6 (for RHEL 7 Desktop) (RPMS, Debug RPMS, Source RPMS)	rhel-7-desktop-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 Server) (RPMS, Debug RPMS, Source RPMS)	rhel-7-server-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 Workstation) (RPMS, Debug RPMS, Source RPMS)	rhel-7-workstation-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 for Scientific Computing) (RPMS, Debug RPMS, Source RPMS)	rhel-7-for-hpc-node-satellite-tools-7-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 for IBM Power) (RPMS, Debug RPMS, Source RPMS)	rhel-7-for-power-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 for IBM Power LE) (RPMS, Debug RPMS, Source RPMS)	rhel-7-for-power-le-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 for System Z) (RPMS, Debug RPMS, Source RPMS)	rhel-7-for-system-z-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 Server - Update Services SAP Solutions) (RPMS, Debug RPMS, Source RPMS)	rhel-7-server-e4s-satellite-client-6-{rpms, debug-rpms, source-rpms}

Repository Name	Repository Label
Red Hat Satellite Client 6 (for RHEL 7 for IBM Power LE - Update Services SAP Solutions) (RPMS, Debug RPMS, Source RPMS)	rhel-7-for-power-le-e4s-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 Server - TUS) (RPMS, Debug RPMS, Source RPMS)	rhel-7-server-tus-satellite-client-6-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 (for RHEL 7 Server - AUS) (RPMS, Debug RPMS, Source RPMS)	rhel-7-server-aus-satellite-client-6-{rpms, debug-rpms, source-rpms}

Table 2.4. Red Hat Satellite Client for Red Hat Enterprise Linux 8

Repository Name	Repository Label
Red Hat Satellite Client 6 for RHEL 8 <arch> (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-<arch>-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 x86_64 - Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-x86_64-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 IBM z Systems - Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-s390x-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 Power, little endian - Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-ppc64le-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 ARM 64 - Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-aarch64-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 x86_64 - Update Services SAP Solutions (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-x86_64-e4s-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 Power, little endian - Update Services SAP Solutions (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-ppc64le-e4s-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 8 x86_64 - Telecommunications Update Service (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-x86_64-tus-{rpms, debug-rpms, source-rpms}

Repository Name	Repository Label
Red Hat Satellite Client 6 for RHEL 8 x86_64 – Advanced Mission Critical Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-8-x86_64-aus-{rpms, debug-rpms, source-rpms}

Table 2.5. Red Hat Satellite Client for Red Hat Enterprise Linux 9

Repository Name	Repository Label
Red Hat Satellite Client 6 for RHEL 9 <arch> (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-<arch>-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 9 x86_64 – Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-x86_64-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 9 IBM z Systems – Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-s390x-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 9 Power, little endian – Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-ppc64le-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 9 ARM 64 – Extended Update Support (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-aarch64-eus-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 9 x86_64 – Update Services SAP Solutions (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-x86_64-e4s-{rpms, debug-rpms, source-rpms}
Red Hat Satellite Client 6 for RHEL 9 Power, little endian – Update Services SAP Solutions (RPMS, Debug RPMS, Source RPMS)	satellite-client-6-for-rhel-9-ppc64le-e4s-{rpms, debug-rpms, source-rpms}

2.4. DEPLOYMENT WORKFLOW AND REFERENTIAL PRODUCT DOCUMENTATION

For documentation regarding Satellite deployment and the necessary deployment workflow, see Satellite Overview, Concepts, and Deployment Considerations .

2.5. PRODUCT 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 Product Life Cycle .

2.6. COMPONENT VERSIONS

Red Hat Satellite is a combination of several upstream projects. For 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 .