

Red Hat Smart Management

What's new in Red Hat Satellite 6.7

Brian Dumont

Sr. Solution Architect





Who Am I

- Red Hat Sr. Solution Architect for over 2 years
- Cover the Michigan market from Lansing, MI
- Co-chair the Michigan RHUG's
- Spent nearly 25 years in the IT Channel architecting and selling IT solutions throughout Michigan, Indiana, Ohio and Chicagoland
- Red Hat Certified Engineer
- Ansible Certified Specialist
- Satellite Certified Specialist



Red Hat Smart Management



Smart Management enables you to improve the reliability, availability, security and compliance of your RHEL systems, running on any platform, while reducing TCO and repetitive tasks

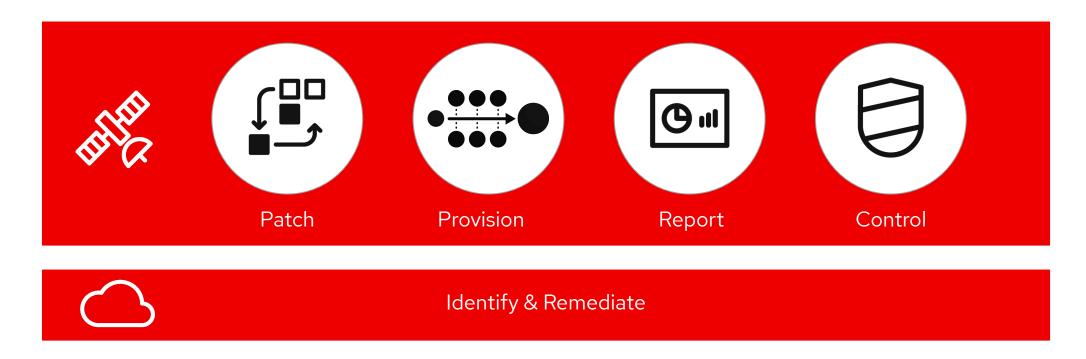


Smart Management for Red Hat Enterprise Linux

Combine the powerful infrastructure capabilities of Red Hat Satellite with the simplicity of cloud management

Improve operational efficiency by 28%*

Overcome scale, skill, and security gaps





What do I get for Satellite with Smart Management?

SKU MCT3718 - Satellite Infrastructure Subscription Includes 50 of any combination of Satellite or Capsule Servers.

This enables you to scale out your Satellite deployment to best suit your needs.

- Need a Satellite for Test/Dev?
- Need a Capsule in the cloud?
- Need load-balanced Capsules?
- Need an air-gapped synchronization host?

No Problem.

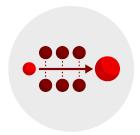
Note: You must purchase one Smart Management subscription for every system managed with Satellite* Have 1,000 systems 2-socket systems? Purchase 1,000 Smart Management subscriptions.



Why Red Hat Satellite?







Streamlined content management



Developed to scale



Simplified system integration



Enhanced drift and configuration management



Red Hat Satellite integration with Red Hat Insights



Red Hat Insights

Now included with all Red Hat Enterprise Linux subscriptions

Buy

Red Hat
Enterprise Linux

Red Hat
Insights





PREDICT RISK. GET GUIDANCE. STAY SECURE.

PREDICTIVE I.T. ANALYTICS

AUTOMATED EXPERT ASSESSMENT

SIMPLE REMEDIATION



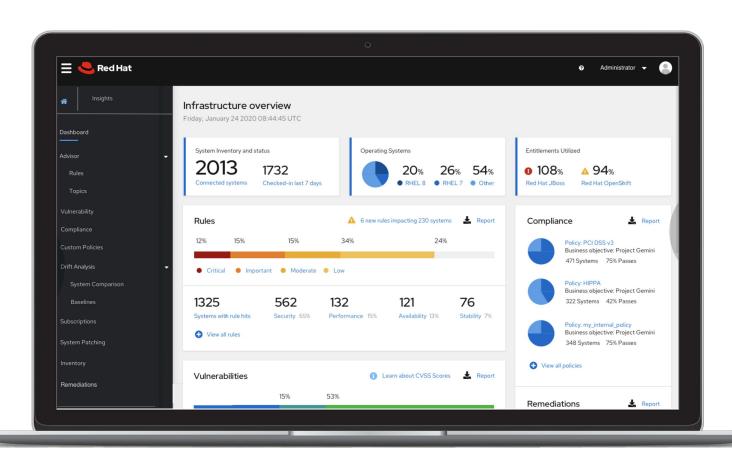
New and improved Red Hat Insights

Still included with Red Hat Enterprise Linux subscription, now with more value.

New and expanded services provide additional security and operational efficiency

To better manage infrastructure sprawl, reduce risk, and support stretched IT personnel

*Active subscriptions versions 6.4 & higher





Overview of expanded Red Hat Insights services



Advisor

Availability, performance, stability, and security risk analysis



Drift

Create baselines and compare system profiles



Vulnerability

Remediate Common Vulnerabilities and Exposures (CVEs) with advisories



Policies

Define and monitor against your own policies to identify misalignment



Compliance

Assess and monitor compliance, built on OpenSCAP



Patch

Analyze for Red Hat product advisory applicability to stay up to date

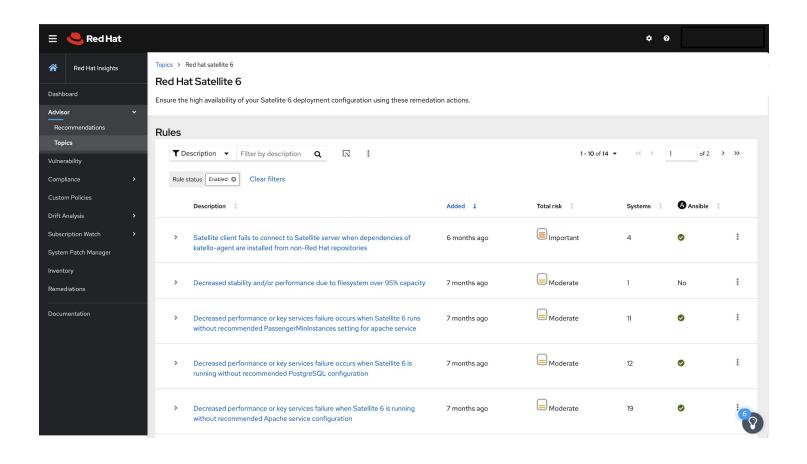


Subscriptions

Track progress of your Red Hat subscription usage efficiently and confidently



Insights Topic for Satellite





Why use Satellite and Insights together?

- Insights uses Satellite as a proxy automatically
- Satellite has Advisor service integrated in the Satellite UI
- Insights has rules specific to Satellite to keep Satellite running its best

Insights is visibility into your environment

Smart Management helps you turn Insights into action.



Satellite 6.7 New Features



Satellite 6.7 theme

New and improved integrations as well as security and content management enhancements



Red Hat Satellite and Satellite Capsule Servers must be installed on a Red Hat Enterprise Linux® 7 Host



Integrations

Integrations with cloud.redhat.com, RHEL, and Ansible.



Insights Integration

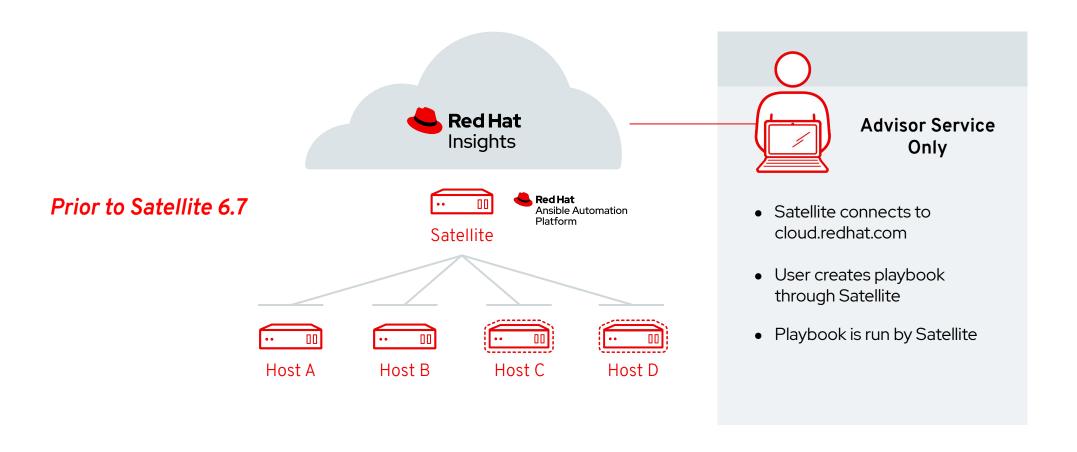


Cloud Connector

Ability to create a remediation in Insights and run it using Satellite.



Build and run playbooks in Red Hat Satellite





What is Cloud Connector?

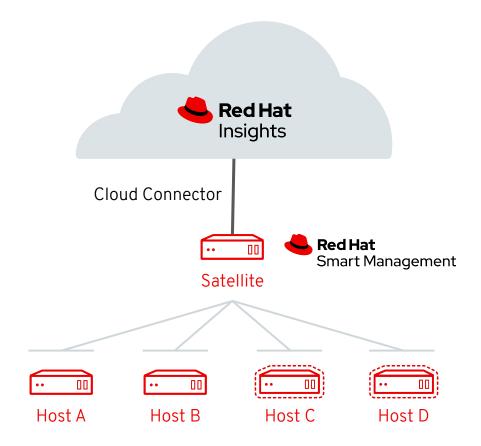
Using Red Hat Insights and Smart Management you can easily identify risks, Vulnerability, and Compliance issues in your environment and fix them via your trusted Satellite infrastructure with the click of a button.

- Connects your Satellite infrastructure to cloud.redhat.com
- Create playbooks via Insights and run them using existing Satellite and Capsules
- Included with your Smart Management subscription

New Feature in Satellite 6.7

Includes the ability to run playbooks created by:

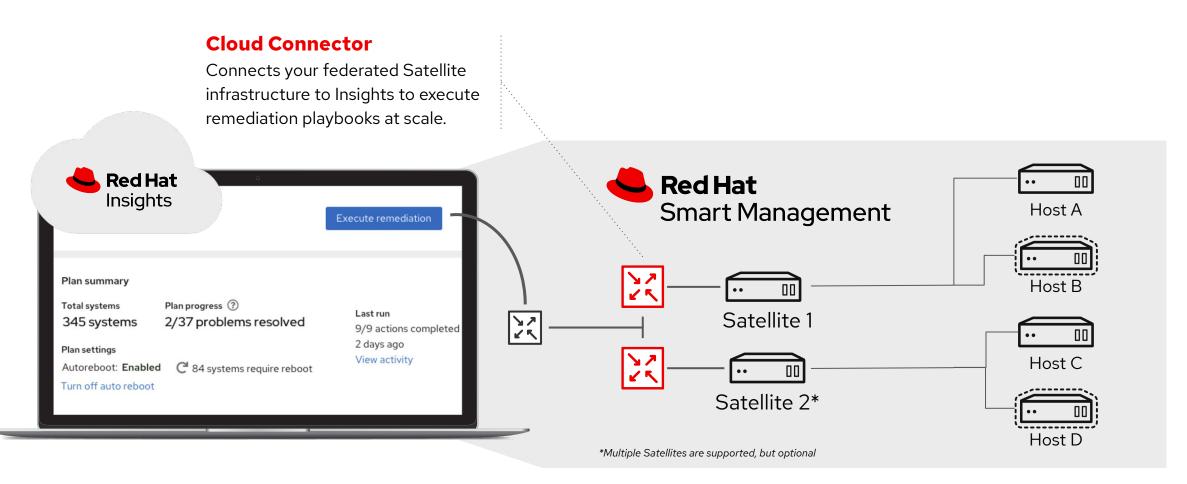
- Advisor
- Vulnerability
- Compliance
- Patch





Introducing Cloud Connector

Smart Management subscription enables push-button remediation of issues identified by Insights



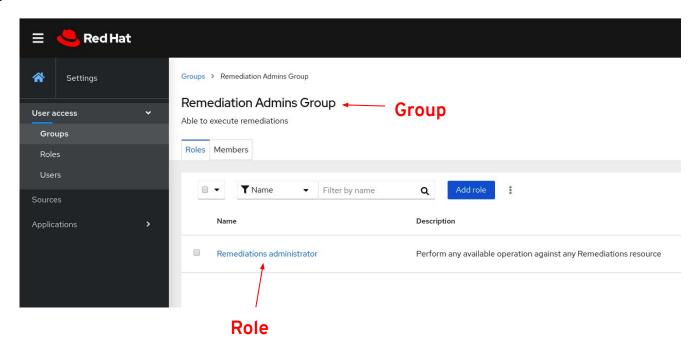


Cloud Connector Configuration



Prepare cloud.redhat.com

- You must have permissions to create and execute playbooks from the Red Hat Insights Remediations service.
 - a. Create a Group in cloud.redhat.com for users authorized to execute remediations
 - b. Give that Group the "Remediation Administrator" Role
 - c. Add Users to that group





Prepare Hosts and Satellite

Standard Steps for Insights

- Only hosts in organizations with a valid Red Hat certificate can be connected to cloud.redhat.com
- Register your hosts to Satellite using an activation key to attach Red Hat subscriptions
- Enable remote execution on your hosts so that Satellite can run remediation playbooks on them
- Install and Register your hosts with Insights
 - yum install insights-client (RHEL 7 and below)
 - insights-client --register

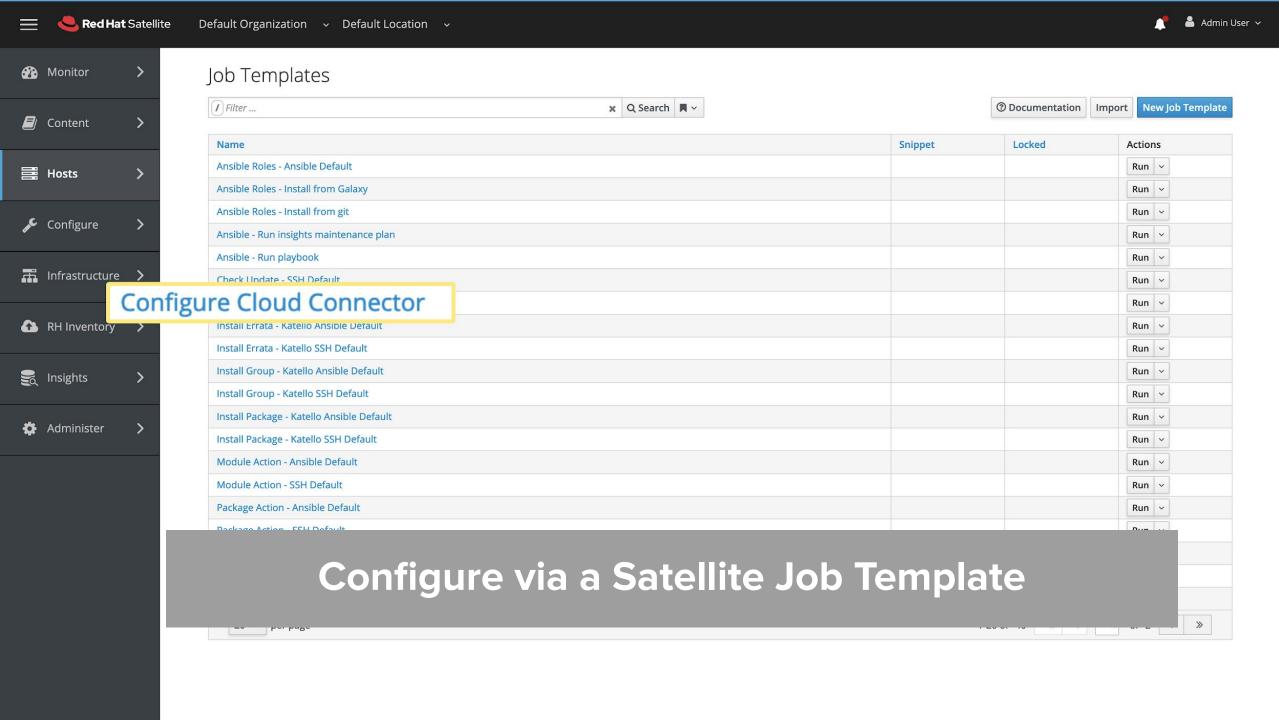
New steps for connecting to cloud.redhat.com

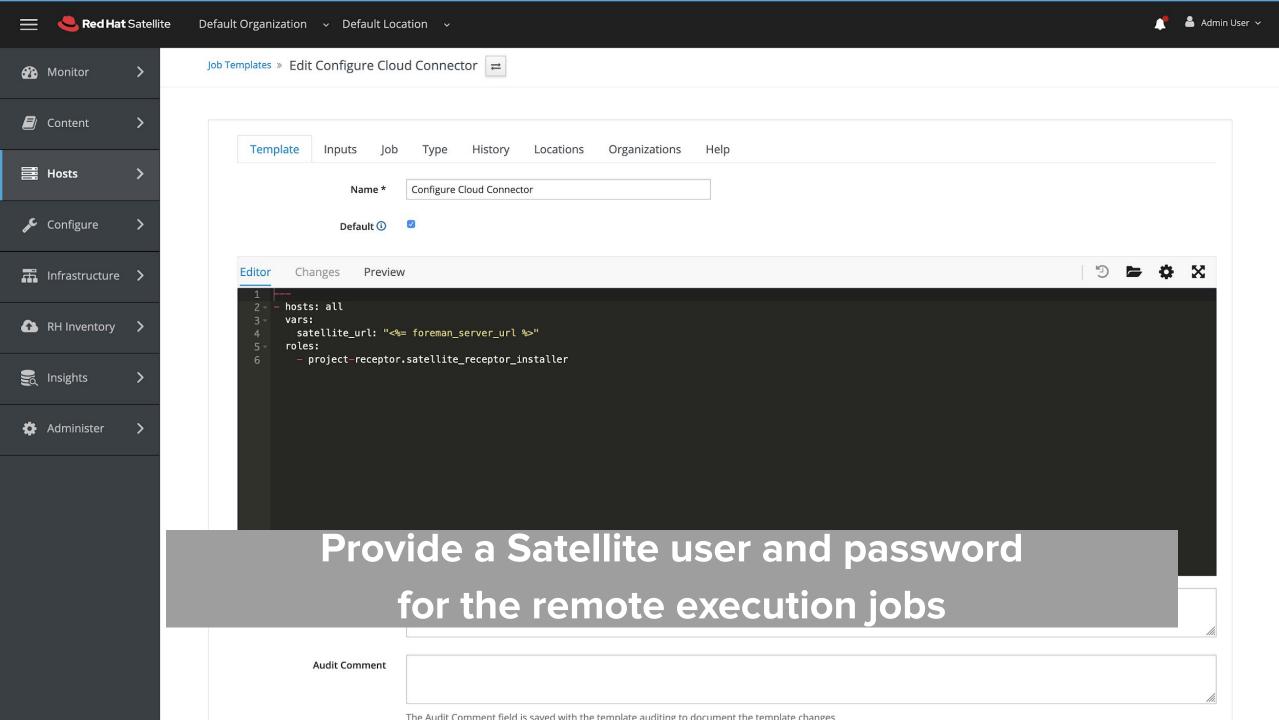
- Satellite must be version 6.7 or later.
- Upload the Inventory using the Inventory Plugin

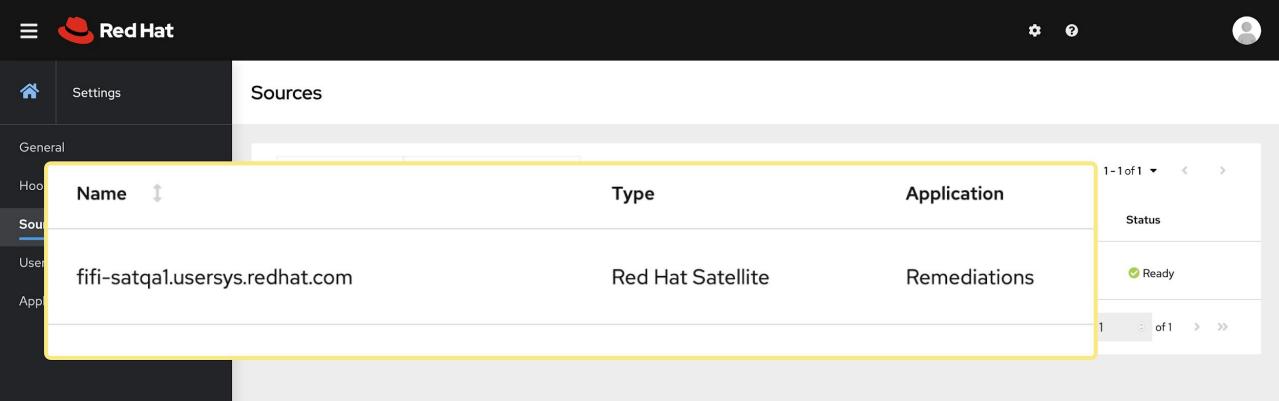
```
# satellite-installer \
--enable-foreman-plugin-inventory-upload \
--foreman-proxy-plugin-remote-execution-ssh-install-key true
```



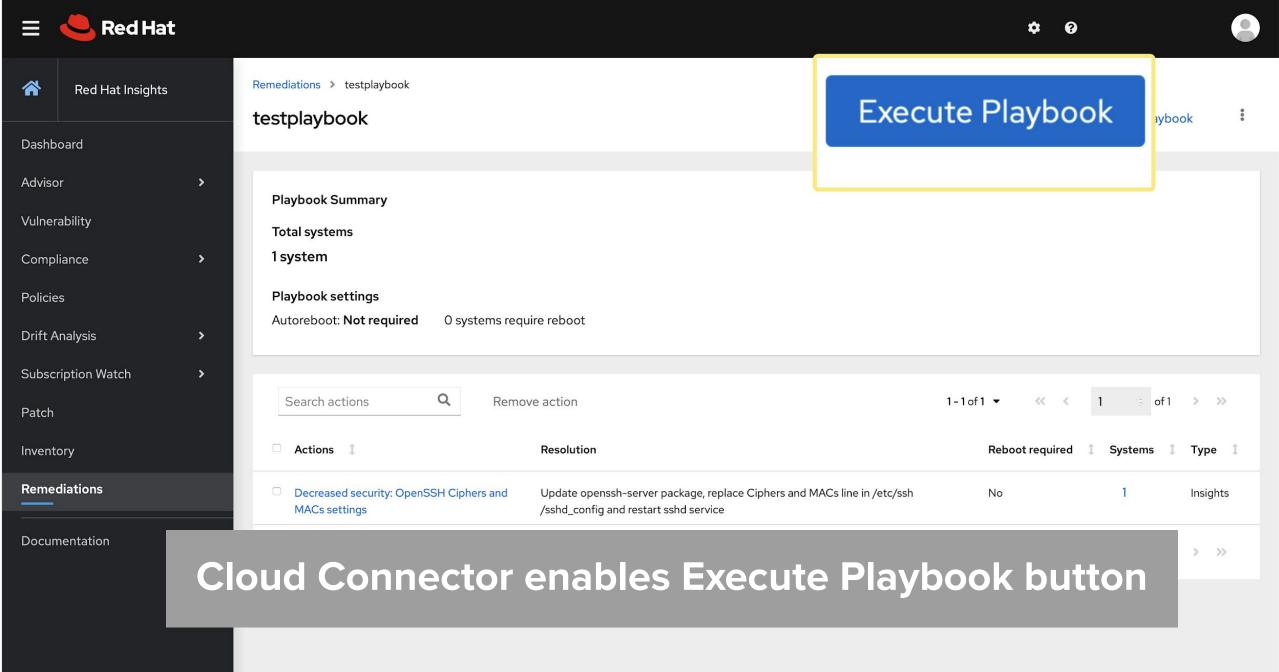


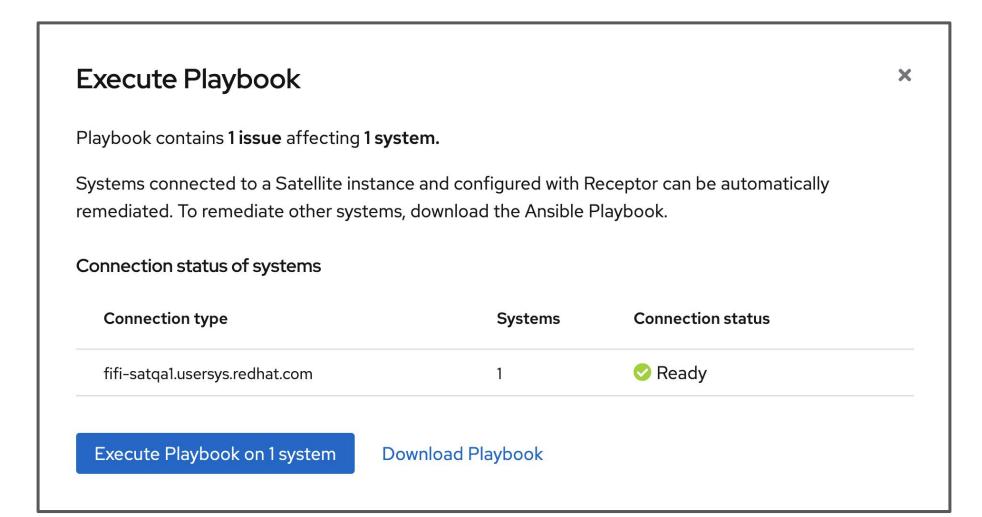






Job template creates an Insights Source entry





Prior to executing the playbook a check will be performed to make sure the connection is ready



Execute Playbook

×

Playbook contains 1 issue affecting 1 system.

Systems connected to a Satellite instance and configured with Receptor can be automatically remediated. To remediate other systems, download the Ansible Playbook.

Connection status of systems

| Systems | Connection status | |
|---------|-------------------------|---|
| 1 | Connection issue | |
| | Receptor not responding | |
| | Troubleshoot | |
| | Systems 1 | 1 Connection issue Receptor not responding |

Execute Playbook on 0 system

Download Playbook

If there are issues, a message will be displayed



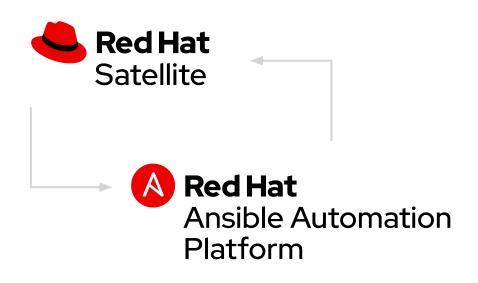
Other Integration Enhancements



Satellite /Ansible Integration



Basic Ansible capabilities are now part of Satellite



Satellite has integration with Ansible for the purposes of remote execution and desired state management

Remote Execution

Run Ansible Playbooks inside of Satellite

Deploy Insights using Ansible

Install Insights on all your hosts

RHEL System Roles

Deploy RHEL System Roles to hosts managed by Satellite



Automation enhancements

Continuing improvements with Red Hat Ansible® Automation Platform



Improved Performance for Dynamic Inventory

Better performance of inventory update in Ansible Tower

Ansible Enhancements

Under the covers enhancements for better Ansible integration



Security

Enhancements to security



Security enhancements



User impersonation

See what another users sees

HTTP proxy update

Simplified HTTP Proxy Ability to enable the proxy on a per repo basis

Common Access Card support via Red Hat Single Sign On **TECH PREVIEW**

Support for Common Access Card (CAC) with Red Hat Single Sign On

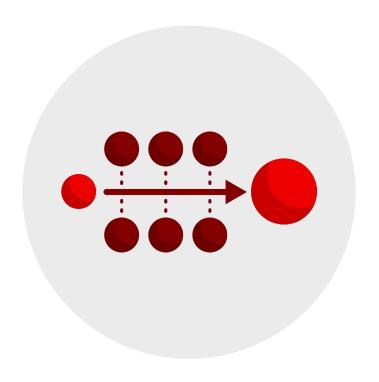


Content Management

Enhancements to content management



Content Management enhancements



Entitlement Reporting

New report template for entitlement reporting

Ability to import and export templates

New UI to initiate import or export of templates from git or local disk.

Support for uploading source RPMs

Adding support for source RPMs via API and CLI

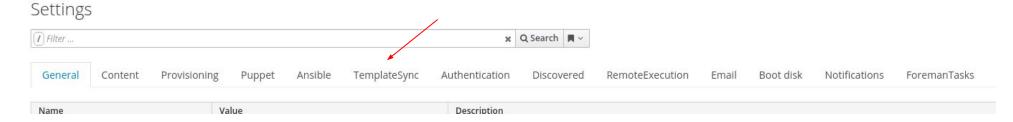


Configuring Template Sync

Enable Template Sync



Administer → Settings



Other Steps - Follow the steps in Synchronizing Templates Using the Satellite API - Specifically:

- The template sync api call uses the foreman user ssh key in /usr/share/foreman/.ssh/
 - Ensure you Configure your SCM with the ssh key from /usr/share/foreman/.ssh/
 - o I used the "Deploy Keys" feature in Github
- Accept the host key from your SCM as the foreman user before running any imports or exports

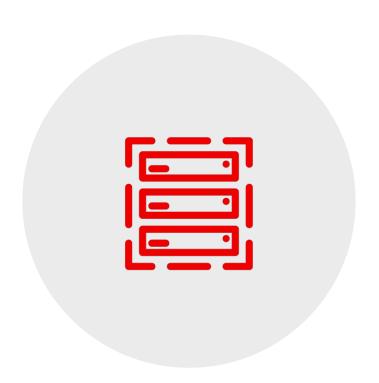


Provisioning

Enhancements to provisioning



Provisioning enhancements



Azure Support

Support for provisioning hosts in Microsoft Azure

Google Compute Engine enhancements

Added CLI and API endpoints for Google Compute Engine



Performance and Scale

Enhancements to performance and scale



Performance and Scale enhancements



Improved tuning assistant

Making it easier to tune Satellite to meet your needs.

Task performance improvements

Continuing performance improvements, with a focus on tasks in Satellite.



Little Bites

Small things that make a big difference.



Additional Red Hat Enterprise Linux Integrations



Web Console Integration

Ability to open the Web Console for a specific host inside Satellite

System Purpose Enhancements

Ability to use Activation Keys with system purpose

Module Stream Enhancements

Ability to filter on modules in Content Views Ability to incrementally update a Content View



Little Bites



Run Remote Execution jobs in a randomized order

Option to run remote execution jobs in a randomized order to help better spread the load when running multiple jobs against a large number of hosts

Usability improvements

Updated login page Better alignment with Patternfly



Red Hat Satellite Upgrade



Continuous Upgrade Improvements

- Standardized on Satellite-maintain for upgrade
- Includes pre and post upgrade checks
- Implemented version locking to avoid unexpected package updates
- Lots of focus over the last several releases on upgrade performance
- Satellite team has invested in automated QE testing of upgrades

If concerned about upgrades, open a <u>proactive support ticket</u> prior to your upgrade

More details are on the <u>Satellite blog</u>.



Red Hat Satellite Upgrade Information

Satellite 6.x to 6.7

 Follow the Upgrading and Updating Red Hat Satellite Guide

Satellite 5.x to 6.7

- Read the Transitioning Guide and FAQ to help plan the migration from Satellite 5 to Satellite 6
- Reach out to your account manager to discuss consulting options

Note: Satellite 5.8 will be end of life as of May 31, 2020

Product docs page: https://access.redhat.com/documentation/en-us/red hat satellite/



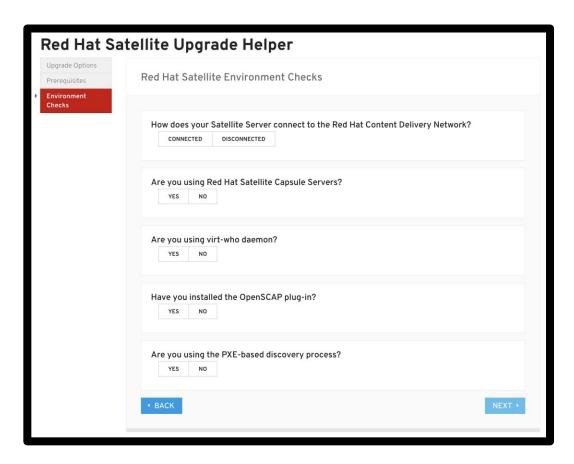
Red Hat Satellite Upgrade Helper

https://access.redhat.com/labsinfo/satelliteupgradehelper

Tool designed to help you upgrade from:

- 6.3 to 6.4
- 6.4 to 6.5
- 6.5 to 6.6
- 6.6 to 6.7

Upgrade helper presents upgrade steps and includes extra steps to help prevent any known issues.





Next Steps & Resources

Where to go to learn more



Enable Insights!

Included with your Red Hat Enterprise Linux subscriptions

GET STARTED WITH RED HAT INSIGHTS



Register

Register your systems with the Red Hat Insights client



Review

Identify the connected RHEL hosts you are interested in analyzing.



Remediate

View your results at cloud.redhat.com or via Satellite integration.



Next steps

Using Satellite 5.8 or earlier?



Satellite 5.8 goes end-of-life (EOL) May 31, 2020. Older versions are already EOL.



Move to the latest version of Satellite 6.

Using Satellite 6.4 or earlier?



Satellite 6.4 and older versions are EOL.



Move to the latest version of Satellite 6.

Use the Upgrade Helper to plan your upgrade:

https://access.redhat.com/labs/satelliteupgradehelper/





Satellite resources

- > Red Hat Satellite blog
- > Red Hat Satellite product page
- > Red Hat Satellite customer portal
- > Red Hat Satellite documentation
- > Red Hat Consulting offering: Transition to Red Hat Satellite 6

Satellite training and videos

NEW COURSE

- > RH053: Satellite Technical Overview (also available on Udemy)
- > RH403: Red Hat Satellite 6 Administration
- > Satellite 6.5 Reporting Engine Video



Thank you

Red Hat is the world's leading provider of enterprise open source software solutions.

Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

- in linkedin.com/company/red-hat
- youtube.com/user/RedHatVid eos
- f facebook.com/redhatinc
- twitter.com/RedHat

