





Red Hat Satellite 6.17





Support for Red Hat Enterprise Linux 10

Inventory and manage systems running Red Hat Enterprise Linux 10



Image mode support

New support for provisioning, client management, and registry distribution for systems created with image mode for Red Hat Enterprise Linux



Support for Flatpak content

Simplify importing, managing, and deploying updates via containers with support for Flatpak content, including both custom packages and Red Hat-provided applications



Secure boot support

Enhance security during provisioning workflows on bare-metal, VMware vSphere, and Libvirt platforms



IPv6 support

Deploy Satellite in an IPv6 environment to help address the limitations of IPv4, including improved network efficiency and security



Red Hat Insights advisor

Get proactive risk detection and configuration recommendations without connecting directly to the internet via an on-premise extension (now available in tech preview)



Advisor

Red Hat Recommendations based on 20+ years of supporting RHEL in areas of availability, performance, stability, and security risks.

With Advisor:



Assess impact of Red Hat Recommendations on your systems



Remediate findings with prescriptive remediation steps or an Ansible playbook



Report via JavaScript Object
Notation (JSON) and
Comma-Separated Values (CSV)
view-based reports to keep
relevant stakeholders informed



Red Hat Offline Knowledge Portal

Now available with a Satellite subscription. A secure, offline version of our expert knowledge and product contents. Wherever you go, you can take the content you need to set up, run, and diagnose our products. And it's light enough to run at the edge! Meet the devs and get hands on demos at the Experience Zone.









Contains the content you need to set up, run, and diagnose our products:

- Product documentation
- Knowledgebase
- CVEs (content)
- Errata (content)
- Product Lifecycles
- Security Data API
- Pages from the Customer Portal
- Search Interface for All Content

Built for intentional disconnection or intervals of low or no bandwidth:

- Desktop at a work site that is air-gapped for security
- Closed circuit network on a ship at sea
- Phone at a remote cell tower
- Consulting firm laptop for client site visits without WiFi
- A Red Hat certification exam room

RHOKP is a single image appliance that is:

- Total is 7GB in size
- Runnable with Podman
- OpenShift ready

Image mode for RHEL



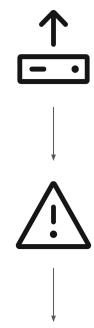
Image mode support

Simplify RHEL management workflows for both containers and traditional OS with a single, consistent set of tools. Image mode also helps streamline transitions to containerized environments.

- Overview of booted container images via:
 - API
 - Hammer
 - UI
- **Distinguish** image mode from package mode hosts
- **Searchable** bootc details on hosts
- bootc remote execution category



General image mode flow in Satellite 6.17



- 1. **Register** image mode hosts
- 2. **View** their images via the Booted Container Images page
- 3. **Navigate** to hosts that need updates via the Hosts page
- 4. **Inspect** hosts' specific bootc status via the Host details page
- 5. **Manage** hosts via new bootc remote execution jobs



General image mode flow in Satellite 6.17









Register image mode hosts

View their images via the Booted Container Images page **Navigate** to hosts that need updates via the Hosts page **Manage** hosts via new bootc remote execution jobs



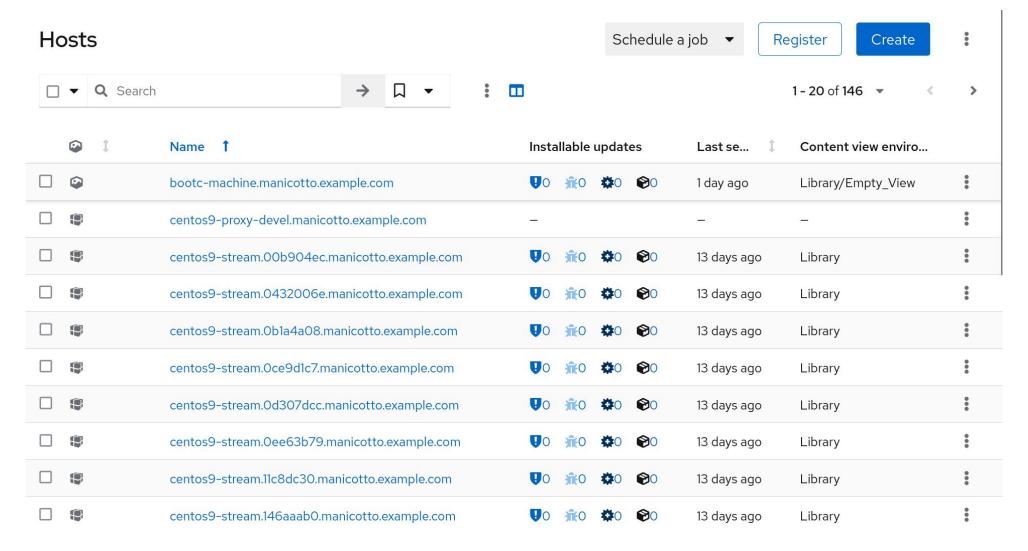




Image mode details 📦 Modify via remote execution quay.io/centos-bootc/centos-bootc:stream10 Running image sha256:54256a998f0c62e16f3927c82b570f9 Running image digest Obd8449a52eO3daabd5fd16d6419fd572 Staged image Staged image digest Available image Available image digest quay.io/centos-bootc/centos-bootc:stream10 Rollback image sha256:9ed49e9b189f5dae5a01ea9abdcef08 Rollback image digest 84616300b565d32061aea619f2e916be3



Red Hat Satellite 6.18 highlights:

Red Hat Lightspeed

- Technology preview of Vulnerability service.
- Advisor service is now generally available.

Content Management

- Rolling content views
- Flatpak WebUI support
- Integrated access to Satellite container registry

Al assistance

- Model Context Protocol (MCP) server integration
- Offline Command Line Assistant



Red Hat Lightspeed

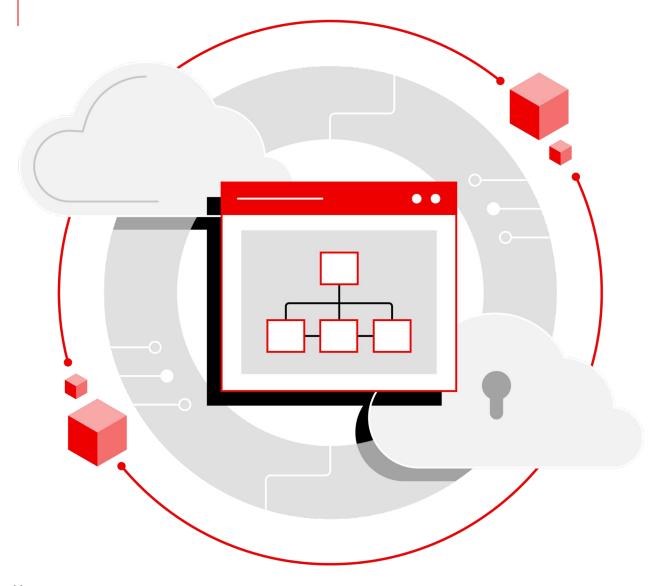




Vulnerability service powered by Red Hat Lightspeed

- Vulnerability Service powered by Red Hat Lightspeed is the primary method for tracking security issues involving viewing and triaging CVEs (Common Vulnerabilities and Exposures).
- The system displays detailed information about CVEs, including the CVE ID, description, publish date, severity, and CVSS score.
- We want to provide a security-first experience for CVEs in Satellite, to complement the current errata-first view of CVEs.





Advisor service powered by Red Hat Lightspeed

- Advisor service powered by Red Hat Lightspeed is now generally available.
- ► The Advisor service provides a broad assessment of RHEL infrastructure health, addressing four major areas of potential exposure:
 - · availability
 - stability
 - performance
 - security.
- The Advisor service provides a list of current or potential issues affecting RHEL systems with enough information and context to know where to focus first to help plan recommended changes in upcoming maintenance windows.



Red Hat Lightspeed Business Value

- Proactively identifies and remediates threats, preventing outages, downtime, and security/compliance risks.
- ► Simplifies Red Hat Enterprise Linux operations with predictive analytics and domain expertise to assess IT environments, prioritizing operational and security risks.
- ▶ Identifies systems at risk for vulnerabilities and exploits using Red Hat's security knowledge, going beyond typical vulnerability scanners.



Content Management



Red Hat Satellite 6.18 Highlights

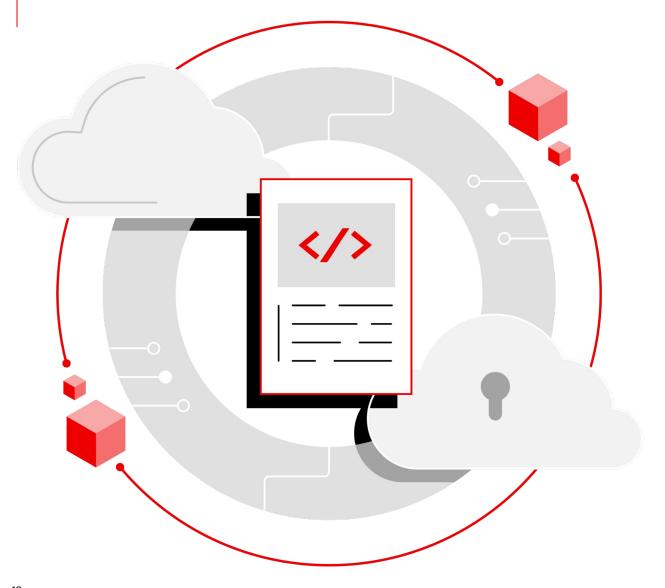


Flatpak support

- ► Flatpak support was added in 6.17. WebUl support was added in 6.18. Flatpak.
- ► Flatpak can be used for all kinds of desktop applications and aims to be as agnostic as possible in terms of how applications are built.



Red Hat Satellite 6.18 Highlights



Container repository certificate support

- Certificate support allows RHEL systems registered to Satellite to automatically access Satellite container registries without additional configuration.
- Any registered host can access the Satellite container registry without additional authentication





Rolling content views

- ▶ Rolling content views provide a method of creating content views with the latest synchronized content.
 - Do not require publishing like a conventional content view.
 - Do not provide granular content management like a conventional content view.
 - Convenient method for providing the latest content to registered systems without providing access to the entire Library view (useful for capsule sync).
 - Works with multiple content view environments.



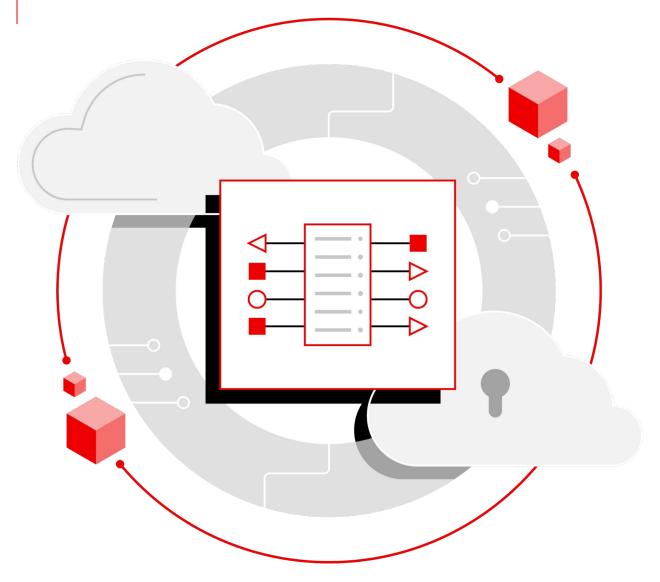
Content Management Improvements: Business Value

- Red Hat Satellite content management simplifies RHEL infrastructure management and software deployment.
- ▶ The solution is consistent across on-premise, hybrid, and public cloud.
- ▶ Satellite facilitates easy software provisioning to RHEL systems isolated from the internet.



Artificial Intelligence Assistance





Model Context Protocol (MCP) server

- This feature aims to enable customers to get information out of Satellite using natural language queries via an LLM, addressing the current need for specific query knowledge or UI navigation.
- For example, a sysadmin will be able to ask an LLM to provide reports on patching needs, narrow lists by environment, and categorize patches, which currently requires more manual effort.





Offline command line assistant

- ► The command line assistant (CLA), released earlier this year, offers information from the command line through natural language prompts.
- ► The original CLA version requires a connection to Red Hat's LLM service.
- ► The offline CLA requires a Satellite license but not Satellite itself.
- ▶ The offline CLA runs as a container service.



Artificial Intelligence Assistance: Business Value

- Satellite's Al powered assistance features simplify Linux administration tasks and boost efficiency for both new and experienced IT professionals, helping to address the Linux skills gap.
- ▶ The Al powered features simplify complex tasks and accelerate workflows.
- ► The AI powered features are designed to operate without direct connections to the internet.



Try it yourself!

Basic Lab https://red.ht/satellite-basics-617

Advanced Lab https://red.ht/satellite-advanced-617





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/RedHatVideos
- facebook.com/redhatinc
- X x.com/RedHat

