



# Red Hat Satellite

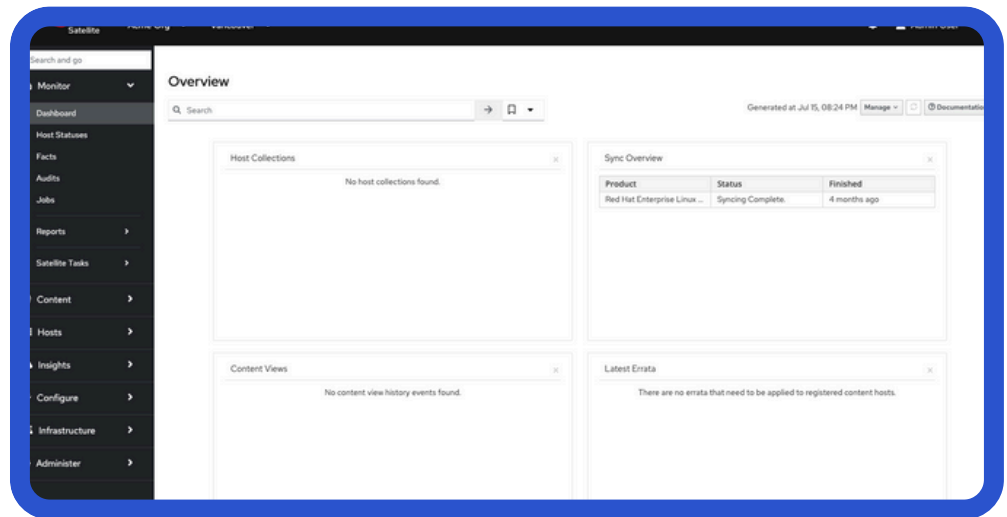
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**Reduced Operational Overhead:** Automate the entire lifecycle of your RHEL systems, from provisioning to patching and compliance, significantly lowering manual effort and operational costs.

**Enhanced Security Posture:** Ensure systems are consistently patched, configured securely, and compliant with regulatory standards, minimizing vulnerability exposure.

**Consistency Across Environments:** Maintain uniform configurations and content delivery across diverse footprints, including on-premises, cloud, and air-gapped locations.

**Accelerated Deployment & Scalability:** Rapidly provision and update thousands of systems, adapting quickly to evolving business demands without compromising control.

**Mitigated Risk:** Proactively identify and remediate potential issues with integrated Red Hat Insights capabilities, improving system availability and stability.

## Red Hat Satellite 6.17

### Product Card



Turtini is focused on making  
Red Hat implementations  
successful for operators  
and decision makers

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# Components

Red Hat Satellite 6.17



Red Hat Satellite 6.17 is an integrated solution for managing the entire lifecycle of your Red Hat infrastructure. It allows you to synchronize content from Red Hat's Content Delivery Network (CDN) and your custom sources, organize it, and distribute it to your managed systems, even in disconnected or widely dispersed environments using Satellite Capsule Servers.

- **Content Management:** Centralized repository for Red Hat content (RPMs, ISOs) and custom content. Organize content into Content Views and promote them through Lifecycle Environments (e.g., Development, QA, Production).
- **Patch Management:** Automate the identification and deployment of security errata, bug fixes, and enhancements across your RHEL fleet.
- **Provisioning:** Automate bare-metal, virtual, and cloud-based RHEL system provisioning using integrated services like PXE, Kickstart, DNS, and DHCP.
- **Configuration Management:** Use Puppet and Ansible integrations to ensure systems adhere to desired configurations and policies. Includes enhanced auditing for Ansible role changes.
- **Remote Execution:** Securely execute commands and Ansible Playbooks on managed hosts directly from the Satellite web UI.
- **Subscription Management:** Track and manage Red Hat subscriptions across your environment, ensuring compliance and optimized usage.
- **Satellite Capsule Servers:** Extend Satellite's capabilities to remote locations, providing localized content caching, provisioning services, and reducing network bandwidth consumption.

## Benefits for System Administrators & Operations Teams

**Automated Workflows:** Automate repetitive tasks from OS deployment to patching.

**Offline Access to Knowledge:** Access the Red Hat Offline Knowledge Portal, providing support documentation in disconnected environments.

**Consistent Deployments:** Ensure all systems are provisioned and configured consistently according to defined standards.

**Simplified Auditing:** Comprehensive audit logs, including for Ansible role changes, provide clear traceability for compliance.

**Secure Content Delivery:** Securely deliver content and updates to systems, even in air-gapped networks, without direct internet exposure.



## Patch & Vulnerability Management:

- **Use:** Automatically identify missing security patches and bug fixes across your entire RHEL fleet and deploy them in a controlled, staged manner using Lifecycle Environments.
- **Benefit:** Reduce your attack surface, ensure systems are always up-to-date, and simplify compliance audits.

## Automated Server Provisioning:

- **Use:** Rapidly provision new RHEL servers (physical, virtual, cloud instances) to a desired state, including OS installation, initial configuration, and application deployment. Supports Secure Boot provisioning via PXE/UEFI HTTP.
- **Benefit:** Accelerate infrastructure deployment, ensure consistency, and reduce manual errors.

## Disconnected / Air-Gapped Environment Management:

- **Use:** Manage RHEL systems in highly secure or air-gapped networks by synchronizing content and updates to a local Satellite Server via a disconnected manifest. Now with Red Hat Insights Advisor in Satellite for disconnected environments.
- **Benefit:** Maintain security and compliance without internet exposure, ensuring critical systems receive updates.

## Hybrid Cloud Infrastructure Management:

- **Use:** Extend unified management to RHEL instances running in public clouds (AWS, Azure, GCP) or private clouds, ensuring consistent content and configuration.
- **Benefit:** Simplify management across heterogeneous environments, reduce complexity, and leverage existing Red Hat investments.

## Edge Computing Management:

- **Use:** Manage and update RHEL systems at the edge, leveraging Capsule Servers for localized content and robust remote execution capabilities. Includes support for Image mode host registration and management (RHEL 10 and 9.6).
- **Benefit:** Consistent management for distributed edge deployments, reduced bandwidth for updates, and enhanced security for remote devices.

## Security Compliance & Auditing:

- **Use:** Deploy and monitor SCAP compliance policies across your RHEL systems, generating reports and identifying non-compliant hosts for remediation.
- **Benefit:** Ensure continuous adherence to industry and regulatory standards, simplify auditing, and maintain a hardened infrastructure.



### Image Mode Host Registration and Management:

- **What:** Full support for registering and managing RHEL hosts running in "Image mode" (bootc), allowing you to view their status and execute commands directly from Satellite. This extends Satellite's reach to modern, immutable OS deployments (especially RHEL 10 and 9.6).
- **Why:** Streamlined management for next-generation RHEL deployments, ensuring consistency for immutable OS.

### Red Hat Insights Advisor in Satellite (for Disconnected Environments):

- **What:** Provides proactive risk detection, configuration analysis, and remediation recommendations from Red Hat Insights directly within your disconnected Satellite environment, packaged as a local container.
- **Why:** Proactive identification and remediation of system issues, improved security posture, and enhanced operational intelligence without requiring internet access.

### Secure Boot Provisioning Support:

- **What:** You can now provision Secure Boot enabled hosts using PXE and UEFI HTTP booting on bare metal, VMware, and KVM (Libvirt).
- **Why:** Enhances the integrity of your system's boot process, strengthening the security supply chain from the ground up during provisioning.

### Red Hat Offline Knowledge Portal:

- **What:** A lightweight, secure, offline version of the Red Hat Customer Portal and Knowledgebase is now available within Satellite, providing access to essential documentation and troubleshooting guides in air-gapped setups.
- **Why:** Improves self-sufficiency and reduces reliance on external connectivity for support in disconnected environments.

### Invalidation of Registration Tokens (JWTs):

- **What:** Introduces the ability to invalidate JSON Web Tokens (JWTs) used for host registration, providing more granular control over authentication and enhancing security.
- **Why:** Improved security and control over host registration processes.

### Support for Flatpak Content:

- **What:** Simplifies the import, management, and deployment of Flatpak packages, enabling easier application distribution.
- **Why:** Streamlined application management for environments utilizing Flatpak for software distribution.



# Advantages & Resources

Red Hat Satellite 6.17



**Unified Control Plane:** Centralize content, patch, provisioning, and configuration management for thousands of RHEL systems.

**Robust Disconnected Capabilities:** Securely manage and update systems in air-gapped environments, including access to Red Hat Insights and knowledgebase offline.

**Hybrid Cloud Readiness:** Extend consistent management policies and content delivery to RHEL instances across public and private clouds.

**Enhanced Security & Compliance:** Proactively enforce security baselines, deploy patches, and ensure regulatory adherence across your infrastructure.

**Scalability & Resilience:** Designed to manage large, complex environments with distributed Capsule Servers for optimized performance and availability.

- **For Decision-Makers:** Achieve operational excellence, strengthen your security posture, and accelerate IT service delivery across your entire Red Hat footprint, driving measurable ROI.
- **For Procurement:** Invest in a comprehensive, fully supported management solution that reduces complexity, ensures compliance, and provides long-term value for your Red Hat infrastructure.
- **For End-Users/Operators:** Simplify your daily tasks with powerful automation, centralized visibility, and proactive insights, allowing you to manage systems more efficiently and securely.



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