

MANAGEMENT AND AUTOMATION OF YOUR RED HAT ENTERPRISE LINUX ENVIRONMENT

BROCHURE

WHAT IS IT?

Red Hat Network Satellite Server is an easy-to-use, advanced systems management platform for your Linux infrastructure. It is built on open standards and uses a web-based graphical interface. Its services are provided through functional modules that allow you to enhance management capabilities for Red Hat Enterprise Linux on virtualized or bare metal deployments.

WHAT DOES IT DO?

Red Hat Network Satellite Server provides simple tools to efficiently manage the lifecycle of systems on your network. This includes:

- Provisioning new systems
- Managing their updates and configuration changes
- Monitoring system performance
- Re-deploying the systems for a new purpose

Administration and management of your systems can be distributed based upon your organizational requirements.

WHY SHOULD I CARE?

Your business can benefit from increased productivity, reduced system lifecycle costs, greater administration consistency, and enhanced security. Red Hat Network Satellite lowers deployment, configuration, and management costs. Your security posture is improved through a single centralized management tool, secure connection policies for remote administration, standardized machine configurations, and digitally signed content.

OVERVIEW

Red Hat Network Satellite is a systems management platform that makes Linux easier to deploy, scale, and manage. It provides lower total cost of ownership (TCO) through complete lifecycle management, and allows you to scale your IT environment as you grow. Red Hat Network Satellite – in conjunction with its management, provisioning, and monitoring modules – creates a more consistent Red Hat Enterprise Linux environment with standardized machine configurations. With Red Hat Network Satellite, you can instantly see the status of your systems and if any are missing important patches or configuration changes. Not only does this improve security, it also enables you to easily measure and report on the patch level of systems in your company.

Red Hat Network Satellite increases your ability to deploy machines, update content, and securely manage your environment. The offering's flexible and scalable architecture means that you can grow along with your organization.

Use Red Hat Network Satellite to:

- Group your systems – manage thousands as easily as one with its management capabilities
- Deploy systems in minutes to bare metal or as virtual guests using its provisioning capabilities
- Maintain optimal performance and tune machine performance through its monitoring capabilities
- Manage, provision, and monitor virtual instances from a central console
- Securely partition and distribute your administrative workload using multi-organization support

CAPABILITIES

MANAGEMENT MODULE

Easily and effectively manage your physical and virtual machines with a suite of tools provided by the management module, including:

- **Systems grouping:** Manage a group of systems as easily as you would manage a single system. Scale your deployment without increasing administrative overhead.
- **Systems permissions:** Group your systems according to your needs and then assign permissions to different administrators. Permissions can also be based on roles.
- **Multi-organization support:** Create and manage multiple organizations with one physical Satellite. Set fine-grained control and access to systems, channels, users, and more.
- **Virtual guests:** Start, stop, and pause virtual machines (VMs) remotely.
- **Scheduled actions:** Schedule an errata update for a system or group, taking advantage of scheduled down time for maintenance across your network.
- **System search:** Search by packages, errata, or systems specifications. Advanced search offers even more granularity.
- **Package profile comparison tools:** Compare two systems, or build a package profile of your own to compare against. Results let you see the differences on both machines.

Note: The management module is required for all installations, and is sold with the provisioning module.

PROVISIONING MODULE

Manage the complete lifecycle of your Red Hat Enterprise Linux infrastructure. Deploy, configure, manage, update, and then re-deploy your systems, all from a single, fully-featured, enterprise GUI console. Use Provisioning to create a responsive infrastructure, where you can quickly re-deploy resources as needed.

- **Bare metal provisioning:** Automatically provision a new system using Kickstart. Deploy the operating system, packages, and activation keys (groups, channels, policies, and permissions) of your choice, all without ever touching the machine.
- **Virtual guest provisioning:** Create and Kickstart para-virtualized guests.
- **Existing state provisioning:** Provision a system to take on the state of an existing system or a predefined installation with a simple point and click.

- Multi-state rollback (includes snapshot-based recovery): Record the state of all of your systems every time an action is applied to them, serving as a repository for state information. Multi-state rollback allows your system to return to a previous state or configuration instantly.
- Configuration management: Easily manage configuration files for groups of systems. Combine with Kickstart for complete provisioning.
- RPM-based application provisioning: More than just operating system provisioning, Red Hat Network Satellite allows application-based provisioning for all RPM-based applications—completely integrated with the rest of Red Hat Network Satellite.
- Kickstart configuration writer: Write Kickstart configuration scripts with our tool, or have Red Hat Network Satellite create a script based on an existing system. Enhanced features include bare metal PXE boot provisioning, integrated network install tree, and configuration management profiles.

Note: The provisioning module is sold with the management module.

MONITORING MODULE

Keep track of your systems and applications from the Red Hat Network Satellite console. View reports that let you take action before performance becomes an issue. The monitoring module includes:

- System probes: Run dozens of checks against each system. These checks can monitor memory, disk usage, and network services.
- Application probes: Set up checks to monitor the performance of your applications.
- Custom probes: Easily create custom checks that track valuable information about your applications.
- Virtual guests: Monitor memory, disk space, and CPU utilization in real-time.
- Probe suites: Create groups of probes for fast deployment and improved consistency.
- Notification: Send alerts resulting from systems entering warning and critical states to email or pager addresses. Each alert notification can be sent to a different address.
- Central status: View a summarized list of all probes in a single status page, with the systems affected broken down by state.
- Reporting: Generate graphs and event logs by selecting a probe and identifying the desired metric and a range of time.

Note: The monitoring module requires both the management and provisioning modules, and is sold separately from management and provisioning.

ARCHITECTURES

Red Hat Network: All Red Hat Enterprise Linux users receive access to Red Hat Network as a part of their core subscription. With this complimentary access, you can download certified content updates for one system. Red Hat Network Satellite takes Red Hat Enterprise Linux management to the next level by extending Red Hat Network to your premises. With Red Hat Network Satellite, you can:

- Choose the best deployment architecture for your organization
- Install Red Hat Network Satellite Server and add the Red Hat Network Satellite modules that you need
- Add Red Hat Network Proxy to increase content distribution capabilities
- Increase scalability, maximize control, and minimize network bandwidth usage

Red Hat Network Satellite Server: Get the full functionality of Red Hat Network on-premise.

All Red Hat Network functionality is stored locally on your network, with managed systems connecting to the Red Hat Network Satellite Server rather than downloading packages across the Internet. Only the Red Hat Network Satellite Server connects with Red Hat to download updates and synchronize content. This model even allows you to take your systems management solution entirely off the Internet if desired. Red Hat Network Satellite includes:

- Local database repository: All information about your systems, policies, and profiles is stored locally on your infrastructure.
- Complete off-network or disconnected capability: Red Hat can provide packages over the Internet or via physical media for complete network security.
- Custom channels: Create custom channels for distribution of either the operating system or third-party RPM-based applications and content.
- Advanced API access layer: Create scripts to automate tasks or integrate Red Hat Network Satellite with other IT applications or systems management tools.
- Channel and errata cloning and management tools: Easily create, clone, or customize channels and errata. Useful for staged environments.
- Push to client: Administrators can send packages and updates to their systems immediately, rather than wait for the system to check in.
- Bare metal PXE boot provisioning: Kickstart systems in tandem with PXE boot images.*
- Integrated network install tree: Store all default boot images, network install trees, and packages for Red Hat Enterprise Linux.*
- Configuration management profiles: Store configuration management profiles in an integrated directory for easier deployment.*

**Requires management and provisioning module entitlements*

Installation time: One day. Installation through Red Hat Global Professional Services is also available for Red Hat Network Satellite Server.

Red Hat Network Proxy: Cache content locally to reduce download times, lower bandwidth use, and scale globally.

Proxy servers can be added to your hosted or satellite environment to scale content distribution across many servers and multiple locations. Individual systems connect through a local Red Hat Network Proxy to communicate with your Red Hat Network Satellite or the central Red Hat Network Server (in the hosted model).

The Proxy aggregates all necessary data and performs selected tasks locally. Content is cached locally with Proxy proxy for faster downloads, easier distribution, and lower bandwidth requirements.

Installation time: Half day

Red Hat Network Hosted model: Perform basic content updates with your standard Red Hat Enterprise Linux subscription using Red Hat Network. Each of your individual systems connects to Red Hat Network via the Internet and exchanges packages and information with the central Red Hat Network servers. Red Hat Network Hosted includes the following features:

- Simple user interface: Intuitive web interface consolidates your systems management activities.
- Hosted database repository: Information about your systems, policies, and profiles is stored and hosted by the Red Hat Network database.

Installation time: Minutes (occurs during operating system installation)

SUPPORTED PLATFORMS AND SYSTEM REQUIREMENTS

Supported Hardware: Intel / AMD; Red Hat Enterprise Linux 5 and 6 supported hardware

Supported Architectures: x86_64; s/390

Supported Operating Systems: Red Hat Enterprise Linux 5 and 6

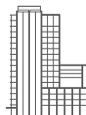
Stand-Alone Database Satellite Hardware Requirements

Minimum:

- Intel Core processor, 2.4 Ghz, 512K cache or equivalent
- Memory: 2 GB
- Disk space and storage: 5 GB storage for base install of Red Hat Enterprise Linux

Recommended:

- Intel multi-core processor, 2.4 Ghz dual processor, 512K cache or equivalent
- Memory: 8 GB
- Disk space and storage:
 - At least 30 GB storage per software channel (including base and child channels), in /var/satellite/, configurable at install
- An external SAN for more reliable backups



ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.

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Embedded Database Satellite Hardware Requirements

Minimum:

- Intel Core processor, 2.4 Ghz, 512K cache or equivalent
- Memory: 2 GB
- Disk space and storage: 5 GB storage for base install of Red Hat Enterprise Linux

Recommended:

- Intel multi-core processor, 2.4 Ghz dual processor, 512K cache or equivalent
- Memory: 8 GB
- Disk space and storage:
 - At least 30 GB storage per software channel (including base and child channels), in `/var/satellite/`, configurable at install
 - An external SAN for more reliable backups
 - 12 GB storage for the database repository, in the `/rhnsat` partition (local storage only)
 - a SCSI drive connected to a level 5 RAID (strongly recommended)
 - Separate partition (or better, a separate set of physical disks) for storing backups, which can be any directory specifiable at backup time