



RED HAT SATELLITE ARCHITECTURAL OVERVIEW

RED HAT NETWORK MODULE COMPARISON

FEATURE	FUNCTION	BENEFIT	UPDATE	MANAGEMENT	PROVISIONING	MONITORING
Simple web UI	Intuitive web interface makes your systems management simple.	Use one central console to manage, update, and control virtualized instances of Enterprise Linux in your environment.	•	•	•	•
Management of virtual guests: fully virtualized and para-virtualized	Creation and kick-start of virtualized Enterprise Linux guests. Update software and manage virtual instances. Start, stop and re-start virtual instances.	User does not have to rely on command line knowledge and can string together multiple requests through a single action on the web UI.	•	•	•	•
Priority email notification	RHN users get the first notifications and first availability to new errata and updates, guaranteeing their systems are up to date.	Users don't miss important notifications about errata or learn about them too late.	•	•	•	
Errata information	Features a full list of all errata for user's systems, complete with versions, packages, and other important information.	Features a full list of all errata for user's systems, complete with versions, packages, and other important information.	•	•	•	
RPM dependency checking	With our database of over 1 million dependencies, users can be sure software downloads have the necessary packages to be stable for their configurations.	Users can make updates without having to solve dependencies on their own, search for necessary packages, and install these packages independently.	•	•	•	
Auto update	A server does not have to be updated each time a new errata is administered – it will simply download and install content on its own.	End the work of manually updating systems. Auto update does it automatically.	•	•	•	
Systems grouping	Allows maintenance of groups rather than individual systems.	Manage a group of systems as easily as you would manage a single system.		•	•	•
Systems permissions	Group your systems according to your needs and then assign permissions to different administrators.	Allows users to distribute the maintenance of systems to different groups, while keeping security guidelines in place.		•	•	
Scheduled actions	Schedule a certain errata update for a system or group.	Allows users to take advantage of scheduled downtime or maintenance windows for errata updates.		•	•	
Bare metal provisioning	Automatically provision a system using kickstart to deploy OS, packages, and activation keys (groups, channels, policies and permissions) of your choice.	Quickly and easily see the differences between two machines, and then take the appropriate actions to correct it if necessary.			•	
Multi-state rollback (includes snapshot based recovery)	RHN records 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.	No more manual removing of packages, trying to remember preexisting configurations, or using rollback through multiple iterations. Red Hat Network records these states for you and makes the process quick and easy.			•	
Notifications and reporting	Receive email and pager notices on pre-defined warnings. Report on probe performance over time.	React and report on the performance of your systems, real-time and historically.			•	

Note: All Update functionality shown here available with basic RHEL subscription in the hosted model.



RED HAT NETWORK ARCHITECTURE COMPARISON

FEATURE	FUNCTION	BENEFIT	HOSTED	PROXY	SATELLITE
Simple web UI	Intuitive web interface makes your systems management simple.	User does not have to rely on command line knowledge and can also string together multiple requests through a single action on the web UI.	•	•	•
Introductory API access layer	Write command line scripts or use scripted information from other applications to easily integrate RHN into your existing infrastructure.	Easily integrate RHN into an existing infrastructure or into future tools.	•	•	•
Hosted database repository	Information about your systems, policies, and profiles is stored and hosted by the RHN database	Get started quickly and with minimal investment in infrastructure to run RHN.	•	•	*
Custom channels	Create custom channels (either OS or third-party RPM-based applications) for distribution through RHN.	Users can set up staged environments as well as distribute third-party software applications through a single delivery mechanism.		•	•
Local package caching	Content is cached locally on your network for faster downloads and easier distribution.	Reduces bandwidth usage because servers pull locally rather than having to download the entire ISO or errata to each machine over the public Internet, and also enhances speed.		•	•
Single port access	Manage all your outbound and inbound connections between RHN and your systems through a single system port.	Enhances security of your infrastructure and makes network traffic easier to manage.		•	•
Local database repository	All information about your systems, policies, and profiles is stored locally on your infrastructure.	None of your data now passes over the public Internet, guaranteeing you the highest level of safety and protection.			•
Channel cloning and management tools	Easily create, clone, or customize your own channels with our channel management tools.	Customers can set up staged environments (dev, test, stage, prod) or easily create new custom channels from a cloned base.			•
Bare metal PXE boot provisioning**	Kickstart systems in tandem with PXE boot images.	Instant and easy network deployment of Red Hat Enterprise Linux onto new and existing hardware in your infrastructure.			•
Configuration management profiles**	Store configuration management profiles in an integrated directory for easier deployment.	Allows for simple deployment, verification, and restoration of configuration files for your production systems.			•
Integrated network install tree **	Store all default boot images, network install trees, and packages for Red Hat Enterprise Linux – all integrated with your complete RHN solution.	Easily deploy your own customized Red Hat Enterprise Linux based distribution.			•

* Please note that Proxy and Satellite require Management module functionality

** Requires Provisioning module entitlements

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