Red Hat Satellite 6 Administration

Course code: RH403

As of January 2026, only in-person Red Hat training is available for purchase under the original terms. Virtual training (VT) courses are offered exclusively as part of the annual RHLS Course subscription can be found here.How to schedule a virtual course in the Red Hat Learning Subscription can be found here.Learn how to configure Red Hat Satellite 6 to deploy and manage Red Hat Enterprise Linux systems and softwareRed Hat Satellite 6 Administration (RH403) is a lab-based course that explores the concepts and methods necessary for successful large-scale management of Red Hat® Enterprise Linux® systems. You will learn how to configure Red Hat Satellite 6 on a server and populate it with software packages. You will use Red Hat Satellite to manage the software development life cycle of a subscribed host and its configuration, and learn how to provision hosts integrated with software and Ansible® configuration management upon deployment.This course is based on Red Hat Enterprise Linux 8 and Red Hat Satellite 6.11.

Who is the course for

Senior Red Hat Enterprise Linux system administrators responsible for the management of multiple servers and hybrid cloud enterprises up to a very large scale

What we teach you

- Verify a Red Hat Satellite 6.11 installation.
- Regulate Red Hat Satellite with organizations, locations, users, and roles.
- Manage software with Red Hat Satellite environments and content views.
- Use Red Hat Satellite to configure hosts with Ansible playbooks and roles.
- Provision hosts with integrated software and configuration management.
- Implement Metal-as-a-Service (MaaS) with Satellite discovery and provisioning of unprovisioned hosts.

Prerequisites for this course

- Achieve Red Hat Certified Engineer (RHCE) certification, or equivalent experience.
- Candidates are recommended but not required to have familiarity with Red Hat Satellite 6.

Course outline

Plan and deploy Red Hat Satellite

Plan a Red Hat Satellite deployment, then perform installation and initial configuration of Red Hat Satellite servers.

Manage software life cycles

Create and manage Red Hat software deployment life cycle environments.

Register hosts

Register and configure your Red Hat Enterprise Linux systems to use Red Hat Satellite, then organize those systems into groups for easier management.

Deploy software to hosts

Manage software deployment to registered hosts of your Red Hat Satellite infrastructure and practice managing environment paths, life cycle environments, and content views.

Deploy custom software

Create, manage, and deploy custom software products and repositories.

Deploy Satellite capsule servers

Perform installation and initial configuration of Red Hat Satellite capsule servers as components of a deployment plan.

Run remote execution commands

Configure the ability to run ad hoc and scheduled tasks on managed hosts using a variety of configuration management tools.

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Prepare network resources for host provisioning

Configure Satellite Server for host provisioning.

Provision hosts

Configure Satellite server for host deployment and perform host provisioning.

Manage Red Hat Satellite using the API

Integrate Red Hat Satellite functionality with custom scripts or external applications that access the API over HTTP.

Deploy Red Hat Satellite on a cloud platform

Plan a Red Hat Satellite deployment on a cloud platform, including managed content hosts.

Perform Red Hat Satellite server maintenance

Manage Red Hat Satellite for security, recoverability, and growth.

Comprehensive review

Verify and configure a Red Hat Satellite Server installation and provision content hosts.

What you need to know

Impact on the organization

As modern organizations migrate to large scale virtualized and container-native hybrid cloud environments, the number of virtual machines and application hosts has greatly increased and become more complex to manage and secure. This course prepares senior system administrators to automate deployment, configuration, monitoring, building, and testing of managed hosts and the application workloads that run on those hosts. Automating operations and management tasks with Red Hat Satellite Server greatly reduces downtime, provides more consistent deployments, reduces configuration errors, and eliminates security gaps by providing faster installation of errata and product fixes.
Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

As a result of attending this course, you will learn the skills required to manage and hybrid cloud hosts and applications in medium to large scale environments. You will be able to plan and implement hybrid cloud network environments, provision managed hosts and software, and manage custom application life cycles across local and distributed enterprises.

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