

Red Hat Satellite 6 Administration

Course Duration: 40 Hours

Course Code : RH403

1. Course Overview

The **Red Hat Satellite 6 Administration (RH403)** course teaches system administrators how to **provision, configure, and manage Red Hat Enterprise Linux (RHEL) systems at scale using Red Hat Satellite 6**. Satellite 6 provides a centralized platform for **system lifecycle management, including configuration, patching, subscription management, and content delivery**.

Participants will gain hands-on experience in deploying, maintaining, and automating RHEL systems across large infrastructures, ensuring **compliance, security, and efficiency** in enterprise environments.

2. What You'll Learn

- Deploy and configure **Red Hat Satellite 6 server and capsule servers**.
- Manage **hosts, content views, and system subscriptions**.
- Automate **system provisioning, configuration, and updates**.
- Use **Ansible integrated with Satellite** to streamline operations.
- Monitor systems for **compliance, patching, and configuration drift**.
- Troubleshoot common issues in **Satellite deployments**.
- Apply best practices for **enterprise system management and security**.

3. Target Audience

This course is designed for:

- Linux system administrators managing **RHEL at scale**.
- IT operations and DevOps professionals responsible for **system provisioning and lifecycle management**.
- Infrastructure engineers implementing **automation and compliance** solutions.
- Professionals planning to use **Red Hat Satellite 6 in enterprise environments**.

4. Pre-Requisites

Participants should have:

- Red Hat Certified System Administrator (**RHCSA**) or equivalent RHEL experience.
- Knowledge of Linux system administration, networking, and storage concepts.
- Familiarity with **basic system automation** and configuration management is helpful.

5. Course Content

Module 1: Introduction to Red Hat Satellite 6

- Overview, architecture, and components
- Server, capsule, and client roles

Module 2: Installing and Configuring Satellite

- Installing the Satellite server

- Configuring capsule servers for content distribution

Module 3: Managing Hosts and Systems

- Adding and registering hosts
- Organizing systems with **host groups**

Module 4: Content Management

- Creating and managing **content views**
- Lifecycle environments and versioning

Module 5: Subscription and Repository Management

- Managing RHEL subscriptions
- Syncing repositories and content management

Module 6: Configuration and Automation

- Integrating Ansible with Satellite
- Automating host configuration and patching

Module 7: Monitoring and Reporting

- Compliance checks and reporting
- Auditing and system monitoring

Module 8: Troubleshooting Satellite

- Diagnosing common issues
- Maintaining system performance and availability

Module 9: Hands-On Labs

- End-to-end Satellite deployment
- Host management, content updates, and automation