

RH 354 – Red Hat Enterprise Linux 8 New Features for Experience Administrators



Days: 3

Description: Red Hat Enterprise Linux 8 New Features for Experienced Linux Administrators (RH354) introduces you to updates in the upcoming Red Hat® Enterprise Linux® release. Intended for experienced Linux system administrators, this course offers a rapid orientation to Red Hat Enterprise Linux 8 based on the pre-release beta. The offering prepares operators, managers, principal system administrators, and other IT professionals with experience in Red Hat Enterprise Linux 7 for deployments and migrations to the new release.

This course is based on Red Hat Enterprise Linux 8.

Course content summary:

- Install Red Hat Enterprise Linux 8 using the new packaging, modularity, and appstream features.
- Upgrade from Red Hat Enterprise Linux 7 to Red Hat Enterprise Linux 8 using new tools.
- Perform integrated file system and volume management using Stratis.
- Use Cockpit for system management.
- Create system images with Composer.
- Configure Identity Management using authselect.
- Understand the Wayland graphical display server.
- Deploy containers using the new integrated OCI runtime and tools.
- Configure firewall rules that use the new NFT back end.

Prerequisites: Be certified as a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent knowledge of and experience with Red Hat Enterprise Linux

Audience: This course is designed for experienced IT professionals who want a preview of Red Hat Enterprise Linux 8, including:

- Linux system administrators
- DevOps engineers
- Cloud administrators

Course Objectives: As a result of attending this course, you will be prepared to work with Red Hat Enterprise Linux 8 and take advantage of key new features of the operating system. You should be able to demonstrate these skills:

- Describe key features of Red Hat Enterprise Linux 8.
- Install or upgrade an existing Red Hat Enterprise Linux 7 server to Red Hat Enterprise Linux 8.
- Manage software with the upgraded Yum package manager and select specific software versions through module streams.
- Use new storage tools to compress and deduplicate data and efficiently manage the storage stack from hardware to file system.
- Adjust to changes to core components of the operating system, including Python 3, Wayland, and Chrony-based NTP service.
- Work with the new nftables-backed firewall system.

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New Features for Experience Administrators

- Develop and test portable, standards-based containers with the new runtime and toolchain.
- Configure servers efficiently with the updated web-based remote interface and with Red Hat Enterprise Linux System Roles.

OUTLINE:

PREVIEW RED HAT ENTERPRISE LINUX 8

- Describe the major improvements and feature enhancements in the upcoming Red Hat Enterprise Linux 8 release.

INSTALL AND UPGRADE TO RED HAT ENTERPRISE LINUX 8

- Install Red Hat Enterprise Linux 8 or upgrade an existing system from Red Hat Enterprise Linux 7 to Red Hat Enterprise Linux 8.

PROVISION AND MANAGE SERVERS

- Prepare standardized systems by generating system images for deployment, managing them with remote web-based administration, and automating provisioning with Red Hat Enterprise Linux System Roles for Red Hat® Ansible Engine.

ADAPT TO CORE SYSTEM CHANGES

- Manage core system components that have had significant changes in Red Hat Enterprise Linux 8.

IMPLEMENT STORAGE USING NEW FEATURES

- Explore the major enhancements in local and remote file system and volume management components.

MANAGE CONTAINERS WITH THE NEW RUNTIME

- Explain the new container runtime engine and tools that replace the Docker container engine.

IMPLEMENT ENHANCED NETWORKING FEATURES

- Describe the major enhancements in network packet processing and network device management.

ADAPT TO VIRTUALIZATION IMPROVEMENTS

- Learn to implement the new features and management tools for virtualization management.