OSELabs
Training • Research • Development

Red Hat
Advanced
Business Partner
Training

Red Hat Enterprise Linux 8

RH294: Red Hat System Administration III

Course Overview

Course Duration

32 Hours (16 days, 2 hours each day)

Trainer Experience

25 Years in Corporate Training

Topics Covered

- **Introduce Ansible**
  Describe Ansible concepts and install Red Hat Ansible Engine.
- **Deploy Ansible**
  Configure Ansible to manage hosts and run ad hoc Ansible commands.
- **Implement playbooks**
  Write a simple Ansible Playbook and run it to automate tasks on multiple managed hosts.
- **Manage variables and facts**
  Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.
- **Implement task control**
  Manage task control, handlers, and task errors in Ansible Playbooks.
- **Deploy files to managed hosts**
  Deploy, manage, and adjust files on hosts managed by Ansible.
- **Manage large projects**
  Write playbooks that are optimized for larger, more complex projects.
- **Simplify playbooks with roles**
  Use Ansible roles to develop playbooks more quickly and to reuse Ansible code.
- **Troubleshoot Ansible**
  Troubleshoot playbooks and managed hosts.
- **Automate Linux administration tasks**
  Automate common Linux system administration tasks with Ansible.

- **Control services and daemons**
  Control and monitor network services and system daemons using systemd.

- **Configure and secure SSH**
  Configure secure command line service on remote systems, using OpenSSH.

- **Analyze and store logs**
  Locate and accurately interpret logs of system events for troubleshooting purposes.

- **Manage networking**
  Configure network interfaces and settings on Red Hat Enterprise Linux servers.

- **Archive and transfer files**
  Archive and copy files from one system to another.

- **Install and update software**
  Download, install, update, and manage software packages from Red Hat and yum package

- **Access Linux file systems**
  Access, inspect, and use existing file systems on storage attached to a Linux server.

- **Analyze servers and get support**
  Investigate and resolve issues in the web-based management interface, getting support from Red Hat to help solve problems.

- **Comprehensive review**
  Review the content covered in this course by completing hands-on exercises.

RedHat Certified System Administrator II - RH134

Course Overview

Topics Covered

- **Improve command line productivity**
  Run commands more efficiently by using advanced features of the Bash shell, shell scripts, and various utilities provided by Red Hat Enterprise Linux.
- **Schedule future tasks**
  Schedule commands to run in the future, either one time or on a repeating schedule.
- **Tune system performance**
  Improve system performance by setting tuning parameters and adjusting scheduling priority of processes.
- **Control access to files with ACLs**
  Interpret and set access control lists (ACLs) on files to handle situations requiring complex user and group access permissions.
- **Manage SELinux security**
  Protect and manage the security of a server by using SELinux.
- **Maintain basic storage**
  Create and manage storage devices, partitions, file systems, and swap spaces from the
- **Manage logical volumes**
  Create and manage logical volumes containing file systems and swap spaces from the
- **Implement advanced storage features**
  Manage storage using the Stratis local storage management system and use VDO volumes to optimize storage space in use.
- **Access network-attached storage**
  Use the NFS protocol to administer network-attached storage.
- **Control the boot process**
  Manage the boot process to control services offered and to troubleshoot and repair problems.
- **Manage network security**
  Control network connections to services using the system firewall and SELinux rules.
- **Install Red Hat Enterprise Linux**
  Install Red Hat Enterprise Linux on servers and virtual machines.