





Red Hat Enterprise Linux 8 - RHCE Syllabus

RH124 - Red Hat System Administration I

- Get started with Red Hat Enterprise Linux
- Describe and define open source, Linux distributions, and Red Hat Enterprise Linux.
- Access the command line
- Log into a Linux system and run simple commands using the shell.
- Manage files from the command line
- Copy, move, create, delete, and organize files while working from the bash shell.
- Get help in Red Hat Enterprise Linux
- Resolve problems by using local help systems.
- · Create, view, and edit text files
- Manage text files from command output or in a text editor.
- Manage local users and groups
- Create, manage, and delete local users and groups, as well as administer local password policies.
- Control access to files
- Set Linux file system permissions on files and interpret the security effects of different permission settings.







Monitor and manage Linux processes

 Evaluate and control processes running on a Red Hat Enterprise Linux system.

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 repositories.

Access Linux files 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.







RH134 - Red Hat System Administration II

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 command line.

• Manage logical volumes

 Create and manage logical volumes containing file systems and swap spaces from the command line.







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.







RH294 - Red Hat System Administration III

- 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.

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- Troubleshoot Ansible
- · Troubleshoot playbooks and managed hosts.
- Automate Linux administration tasks
- Automate common Linux system administration tasks with Ansible.