

## Red Hat Enterprise Linux 8 – RHCSA Syllabus

### RH124 - Red Hat System Administration I

#### Get started with Red Hat Enterprise Linux

- Describe and define open source,
- Red Hat Enterprise Linux.
- Linux distributions,

#### Access the command line

- Log into a Linux system
- 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
- 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
- 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 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.

#### Linux Containers and Docker

- Details about Linux Containers and Docker..

## • **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.