<u>Red Hat® Certified System Administrator (RHCSA)</u>

RHCSA 7 Requirements and Syllabus

- <u>Red Hat System Administration I (RH124)</u>
- <u>Red Hat System Administration II (RH134)</u>

Part 1: Red Hat System Administration I (RH124)

- **Access the command line**

  Log in to a Linux system and run simple commands using the shell.

- **Manage files from the command line**

  Copy, move, create, delete, and organize files from the bash shell prompt.

- **Get help in Red Hat Enterprise Linux**

  Resolve problems by using online help systems and Red Hat support utilities.

- **Create, view, and edit text files**

  Create, view, and edit text files from command output or in an editor.

- **Manage local Linux users and groups**

  Manage local Linux users and groups, and administer local password policies.

- **Control access to files with Linux file system permissions**

  Set Linux file system permissions on files and interpret the security effects of different permission settings.

- **Monitor and manage Linux processes**

  Obtain information about the system, and control processes running on it.

- **Control services and daemons**

  Control and monitor network services and system daemons using systemd

- **Configure and secure OpenSSH service**

  Access and provide access to the command line on remote systems securely using OpenSSH

- **Analyze and store logs**

  Locate and accurately interpret relevant system log files for troubleshooting purposes.

- **Manage Red Hat Enterprise Linux networking**

Configure basic IPv4 networking on Red Hat Enterprise Linux systems.

- **Archive and copy files between systems**

Archive files and copy them from one system to another.

- **Install and update software packages**

Download, install, update, and manage software packages from Red Hat and yum package repositories.

- **Access Linux file systems**

Access and inspect existing file systems on a Red Hat Enterprise Linux system.

- **Use virtualized systems**

Create and use Red Hat Enterprise Linux virtual machines with KVM and libvirt.

- **Comprehensive review**

Practice and demonstrate the knowledge and skills learned in this course.

Part 2: Red Hat System Administration II (RH134)

- **Automate installation with Kickstart**

Automate the installation of Red Hat Enterprise Linux systems with Kickstart.

- **Use regular expressions with grep**

Write regular expressions that, when partnered with grep, will allow you to quickly isolate or locate content within text files.

- **Create and Edit text files with vim**

Introduce the vim text editor, with which you can open, edit, and save text files.

- **Schedule future Linux tasks**

Schedule tasks to automatically execute in the future.

- **Manage priority of Linux processes**

 Influence the relative priorities at which Linux processes run.

- **Control access to files with access control lists (ACL)**

Manage file security using POSIX access control lists

- **Manage SELinux security**

Manage the Security Enhanced Linux (SELinux) behavior of a system to keep it secure in case of a network service compromise.

- **Connect to network-defined users and groups**

Configure systems to use central identity management services.

- **Add disks, partitions, and file systems to a Linux system**

 Manage simple partitions and file systems.

- **Manage logical volume management (LVM) storage**

Manage logical volumes from the command line.

- **Access networked attached storage with network file system (NFS)**

Access (secure) NFS shares.

- **Access networked storage with SMB**

Use autofs and the command line to mount and unmount SMB file systems.

- **Control and troubleshoot the Red Hat Enterprise Linux boot process**

- **Limit network communication with firewall**

Configure a basic firewall.

- **Comprehensive review**

Practice and demonstrate knowledge and skills learned in this course.

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