

LINUX

ADMINISTRATION



CURRICULUM

» **Red Hat System Administration I** **RHEL7 (Rh124) For RHCSA (RH-124+RH134)**

» **Course Outline**

» **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.

» **Getting 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 Permission**

- ✍ 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 Open SSH 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.

» **Manage Physical Storage II**

- ✍ Manage filesystem attributes and swap space

» **Comprehensive review**

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

» **Red Hat System Administration II**

RHEL7 (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.

» **Red Hat System Administration III**

RHEL7 (RH 254)

» **Advance Usage Of Systemctl to Control services and daemons**

- ✍ Review how to manage services and the boot-up process using systemctl.

- » **Manage IPv6 networking**
 - ✍ Configure and troubleshoot basic Ipv6 networking on Red Hat Enterprise Linux systems
- » **Configure link aggregation (Teaming) and bridging**
 - ✍ Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges.
- » **Advance Firewall & SELinux**
 - ✍ Permit and reject access to network services using advanced SELinux and firewall filtering techniques.
- » **Manage DNS Caching servers**
 - ✍ Set and verify correct DNS records for systems and configure secure DNS caching.
- » **Configure email Null Client Server**
 - ✍ Relay all email sent by the system to an SMTP gateway for central delivery.
- » **Provide block-based storage**
 - ✍ Provide and use networked iSCSI block devices as remote disks.
- » **Provide file-based storage**
 - ✍ Provide NFS exports and SMB file shares to specific systems and users.
- » **Configure MariaDB databases**
 - ✍ Provide a MariaDB SQL database for use by programs and database administrators.
- » **Provide Apache HTTPD web service**
 - ✍ Configure Apache HTTPD to provide Transport Layer Security (TLS)-enabled websites and virtual hosts.
- » **Write Bash scripts**
 - ✍ Write simple shell scripts using Bash.
- » **Bash conditionals and control structures**
 - ✍ Use Bash conditionals and other control structures to write more sophisticated shell commands and scripts.
- » **Configure the shell environment**
 - ✍ Customize Bash startup and use environment variables, Bash aliases, and Bash functions.
- » **Comprehensive review**
 - ✍ Practice and demonstrate knowledge and skills learned in Red Hat System Administration III.

Partners :



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