Red Hat System Administration I & II

Red Hat System Administration I

1: Accessing the Command Line
☐ Recognize the BASH shell based on the default prompt.
☐ Use Linux efficiently by switching between virtual consoles.
☐ Display usage messages and be able to interpret a command's syntax.
2: Managing Files from the Command Line
☐ Recognize and Find Familiarity in a File-system Tree,
☐ Learn Terms Like "root" Directory and Subdirectory.
☐ Introduction to Different types of Data in Separate System Directories.
3: Getting Help in Red Hat Enterprise Linux
☐ Learn "man" Terminology, Including Topics and Sections.
☐ Become Aware of The importance of less-noticed man sections.
4: Creating, Viewing and Editing Text Files
☐ Describe the Technical Terms Standard Output, and Standard Error.☐ Use
Redirection
Characters to Control Output to Files.
☐ Use Pipe to Control Output to Other Programs.
5: Manage Local Linux Users and Groups
☐ Explain the Role of Users and Groups on a Linux System and How They
are understood by the Computer.

6: Controlling Access to Files with Linux File-system **Permissions** ☐ Explain How the Linux File Permissions Model Works. 7: Monitoring and Managing Linux Processes ☐ Learn the Processes Lifecycle, in Order to better Comprehend Process States. 8: Controlling Services and Daemons ☐ List System Daemons and Network Services Started by System services and Socket 9: Configuring And Securing Open-ssh Service ☐ Log into a Remote System Using ssh to Run Commands From a Shell Prompt. 10: Analyzing and Storing Logs ☐ Describe the Basic "syslog" Architecture in RHEL7 11: Managing RHEL Networking ☐ Explain Fundamental Concepts of Computer Networking. 12: Archiving and Copying Files between Systems ☐ To Create Backups and Transfer Files Over The Network.. 13: Installing and Updating Software Packages ☐ Register System With Your Red Hat Account and Entitle Them to Software Updates For Installed Products.

14: Accessing Linux File-systems

☐ Determine which Directories in the File-system Hierarchy are Stored on Which Storage Devices.

15: Using Virtualized Systems

☐ Recognize the Consistent Use of KVM Architecture Throughout of Red Hat Product Line.

16: Accessing the Command Line



Red Hat System Administration II

1: Automating Installation with Kickstart

 □ Explain Kickstart Concepts and Architecture □ Install and configure Linux using Kickstart
2: Using Regular Expressions with "grep" ☐ Create a Regular Expressions that match desired data.
3: Creating and Editing Text files with vim ☐ Explain the three main modes of "vim".
4: Scheduling Future Linux Tasks ☐ Scheduling tasks using at and cron.
5: Managing Priority of Linux Processes □ Explain about Linux Processes and nice values.
6: Controlling Access to Files with Access Control Lists
(ACL)
☐ Describe ACL's and file system mount options
Managing SELinux Security
 □ Explain the Basics of Se-Linux permissions and Context Transitions. □ Display Current Se-Linux Modes. □ Correctly Interpret the Se-Linux Context of a File. □ Identify Current Se-Linux Boolean Settings.

Connecting to Network-Defined Users and Groups ☐ User authentication using centralized Identity Management Services. Adding Disks, Partitions, and File Systems to a Linux System ☐ Create and Delete disk Partitions on disks with an MBR Partitioning Scheme Using ☐ "fdisk". ☐ Create and Delete disk Partitions on disks with an GPT Partitioning Scheme Using ☐ "gdisk". ☐ Format Devices Using "mkfs" ☐ Mount File System into the Directory Tree Managing Logical Volume Management (LVM) Storage ☐ How to manage high performance LVM storage. Accessing Network Attached Storage with Network File System (NFS) ☐ Access, Mount and unmount NFS Shares. Accessing Network Storage with SMB ☐ How to mount and unmount smb file-system using the command line. Controlling and Troubleshooting the Red Hat Enterprise Linux Boot **Process** ☐ Describe and Influence the RHEL Boot Process... **Limiting Network Communication with Firewalled**

☐ Configure the Basic Firewall Using "firewalld", "firewalld-config" and

"firewalld-cmd".