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Technical & Education



Red Hat Enterprise Linux 7-RHCE Syllabus

RH124 Red Hat System Administration I

Red Hat System Administration 1(RH124) is Designed for IT Professionals who are new to Linux. This course will actively engage students in task focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention. In addition, GUIbased Environment will be featured to build on the student's existing technical knowledge, while command line concepts will be introduced to provide a foundation for students planning to become full time Linux system administrator.

Course Outline

Unit 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.

Unit 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.

Unit 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.

Unit 4:

Creating, Viewing and Editing Text Files

Control Output to Files.

Use Pipe to Control Output to Other Programs.

Unit 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.

Unit 6:**Controlling Access to Files with Linux File-system Permissions**

Explain How the Linux File Permissions Model Works.

Unit 7:**Monitoring and Managing Linux Processes**

Learn the Processes Lifecycle, in Order to better Comprehend Process States.

Unit 8:**Controlling Services and Daemons**

List System Daemons and Network Services Started by System services and Socket units.

Unit 9:**Configuring And Securing Open-ssh Service**

Log into a Remote System Using ssh to Run Commands From a Shell Prompt.

Unit 10:**Analyzing and Storing Logs**

Describe the Basic “syslog” Architecture in RHEL7

Unit 11:**Managing RHEL Networking**

Explain Fundamental Concepts of Computer Networking.

Unit 12: Archiving and Copying Files between Systems To Create Backups and Transfer Files Over The Network..

Unit 13:

Installing and Updating Software Packages

Register System With Your Red Hat Account and Entitle Them to Software Updates for Installed Products.

Unit 14:

Accessing Linux File-systems

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

Unit 15:

Using Virtualized Systems

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

Unit 16:

Accessing the Command Line

RH 134 Red Hat System Administration II

Red Hat System Administration II (RH134) is designed for IT Professionals working to full time Linux Administrators, the course is a follow ups to rh124(SA1). This course will actively engage students in task focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention. Students who attend System Administration I and System Administration II will be fully prepared to take the Red Hat Certified System Administration (RHCSA)Exam.

Course Outline

Unit 1:

Automating Installation with Kickstart
Explain Kickstart Concepts and Architecture
Install and configure Linux using Kickstart

Unit 2:

Using Regular Expressions with “grep”
Create a Regular Expressions that match desired data.

Unit 3:

Creating and Editing Text files with vim
Explain the three main modes of “vim”.

Unit 4:

Scheduling Future Linux Tasks
Scheduling tasks using at and cron.

Unit 5:

Managing Priority of Linux Processes
Explain about Linux Processes and nice values.

Unit 6:

Controlling Access to Files with Access Control Lists (ACL)
Describe ACL's and file system mount options..

Unit 7:

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.

Unit 8:

Connecting to Network-Defined Users and Groups

User authentication using centralized Identity Management Services.

Unit 9:

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

Unit 10:

Managing Logical Volume Management (LVM) Storage

How to manage high performance LVM storage.

Unit 11:

Accessing Network Attached Storage with Network File System (NFS)

Access , Mount and unmount NFS Shares .

Unit 12:

Accessing Network Storage with SMB

How to mount and unmount smb file-system using the command line.

Unit 13:

Controlling and Troubleshooting the Red Hat Enterprise Linux Boot Process

Describe and Influence the RHEL Boot Process..

Unit 14:

Limiting Network Communication with Firewalled

Configure the Basic Firewall Using “firewalld”, “firewalld-config” and “firewalld-cmd”.

Unit 15:

Comprehensive Review

Comprehensive Review of System Administration 2