Red Hat Enterprise Linux 7-RHCE Syllabus

Duration: 70 hours

RH254 Red Hat System Administration III

Red Hat System Administration III (RH254) is designed for experienced Linux administrators who require automation techniques using Bash Scripting and deployment of network services includes DNS , , APACHE HTTPD, MARIADB, POSTFIX. MAIL SERVER, NFS ,SAMBA , ISCSI STORAGE, FIREWALLD etc.

Audience

- Experienced Linux Administrators wishing to learn automation techniques through scripting,deployment of key network services and how to manage features of Red Hat Enterprise Linux.

Prerequisites

- RHCSA Certification or Equivalent Experience.

Course Outline

Unit 1: Controlling Services and Daemons

Objectives:

- Control System Daemons and Services Using Systemctl.

Unit 2: Managing IPV6 Networking

Objectives:

- Configure and troubleshoot IPv6 address on Red Hat Enterprise Linux systems

Unit 3: Configuring Link Aggregation and Bridging

Objectives:

- Configure and Troubleshoot Network Bonding and Teaming on RHEL

Unit 4: Network Port Security

Objectives:

- Implement a Secure Network Using Firewalld

Unit 5: Managing DNS for Servers

Objectives:

- A Brief Study about DNS Records and how to Configure a Secure Caching DNS.

Unit 6: Configuring Email Transmission

Objectives:

- Configure RHEL Server to Transmit all E-mail through an Unauthenticated SMTP Gateway.

Unit 7: Providing Remote Block Storage

Objectives:

- How to Access Remote Storage Space Using ISCSI.

Unit 8: Providing File Based Storage

Objectives:

- Export File System to Client Systems Using NFS and Providing Security.

Unit 9: Configuring MariaDB Databases

Objectives:

- Install and Configure Mariadb Database.

Unit 10: Providing Apache HTTPD Web Service

Objectives:

- Configure a Secure Apache HTTPD Web-service..

Unit 11: Writing Bash Scripts

Objectives:

- Write simple shell scripts using Bash.

Unit 12: Bash Conditionals and Control Structures

Objectives:

- Bash Conditionals and Other Control Structure.

Unit 13: Configuring the Shell Environment

Objectives:

- Use Bash Startup Scripts to Define Environment Variables, Aliases and Functions.

Unit 14: Linux Containers and Docker

Objectives:

- Details about Linux Containers and Dockers..

Unit 15: Comprehensive Review

Objectives:

- Comp