RHCE

Course Description:

A large percentage of the servers hosting websites, cloud-based services and virtualization services are powered by Linux. The Linux operating system is favored by many IT departments due to its reputation for stability, its open source model, and low cost of ownership.

During the course, students will work at their own pace through the complete set. The RHCE Certification Lab course includes a few instructor lectures designed to review key technologies such as systemd, firewalld, and IPv6. For the classroom and virtual classroom versions of this course, an instructor will be available throughout the week to assist students as they work through the labs.

RHCE is a mid to advanced-level certification that builds on topics covered in the RHCSA certification to include more advanced topics such as security and installing common enterprise networking (IP) services. To achieve the RHCE certification, the student must pass the RHCSA exam.This course will provide specific examples that will help you prepare for the RHCE exam with RedHat.

Topics covered include advanced IP routing and services, managing runtime kernel behavior, working with iSCSI, automating maintenance tasks with shell scripts and working with networking services for Web, FTP, NFS, SMB, SMTP, SSH and more. An RHSCA is a prerequisite for the RHCE.

Course Prerequisites:

Students should have already completed Red Hat System Administration I, II, and III or equivalent training. Extensive UNIX administration experience by itself is not adequate for most students.

Target Audience:

This course is specially designed for the B.Tech/B.E(CSE/IT/EEE/ECE/Mech) and all other IT related Graduates and Post Graduate students.Mission Professionalism has conquered the job scenario and companies seek for well qualified, professional and skilled manpower. Quality Education and Performance Oriented Training is our motto.

What Student/Professionals Will Learn?

- Configuring static routes, packet filtering, and network address translation
- Setting kernel runtime parameters
- Configuring an Internet Small Computer System Interface (iSCSI) initiator
- Producing and delivering reports on system utilization
- Using shell scripting to automate system maintenance tasks
- Configuring system logging, including remote logging
- Configuring a system to provide networking services, including HTTP/HTTPS, File Transfer Protocol (FTP), network file system (NFS), server message block (SMB), Simple Mail Transfer Protocol (SMTP), secure shell (SSH) and Network Time Protocol (NTP)

COURSE-CONTENT:

- 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 and bridging
  - Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges

- Control network port security
  - Permit and reject access to network services using advanced SELinux and firewalld filtering techniques

- Manage DNS for servers
  - Set and verify correct DNS records for systems and configure secure DNS caching

- Configure email delivery
  - 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

- Linux containers preview
  - Preview the capabilities of Linux containers, Docker, and other related technologies in Red Hat Enterprise Linux 7

- Comprehensive review
  - Practice and demonstrate knowledge and skills learned in Red Hat System Administration III

INTEGER Innovation will provide:

- Training Slides taught during training by trainers
- Programmatic Examples
- Assignments of each topic in a module
- Demos executed during training session.
- Software's and installation guide (for future help)
- E-books for further reading in depth
- Reference links
- 24X7 online support for any queries or doubts.