

Red Hat Linux @ SARAL

Duration: 100 Hours

Course Description:

This intensive course is intended candidates who wish to migrate their skills onto the Red Hat Linux platform and who want a fast-track to prepare them for the Red Hat Certified Engineer (RHCE) exam. This course comprises three levels comprising of Red Hat Linux essentials, Red Hat Linux System Administration and Red Hat Linux Network & Security and hands-on training on the RHCE certification lab exam.

This course provides the requisite knowledge for exam RH302GB (Red Hat Certified Engineer) which can be taken on day five of the course.

Red Hat Linux Essentials (Level I)

Duration: 32 Hrs.

Course Description:

This course is ideal for persons who have never used Linux or UNIX, and who have no prior command-line experience in any other operating system. You are taught the basics of a Red Hat Enterprise Linux environment and it prepares you for your future role as a system administrator.

Prerequisites:

User-level experience with any computer system, use of mouse, use of menus, use of any graphical user interface.

Prepares for

- RH133 - Red Hat Linux System Administration

Goal

Upon successful completion of this course, the delegate will be a Red Hat Enterprise Linux user productive in using and customizing a Red Hat Enterprise Linux system for common command line processes and desktop productivity roles.

Course Content:

- Understand the Linux file system
- Perform common file maintenance tasks
- Use and customize the GNOME interface
- Issue essential Linux commands from the command line
- Perform common tasks using the GNOME GUI
- Open, edit, and save text documents using the vi editor
- File access permissions
- Launch applications from command line and GNOME interface
- Printing commands and utilities
- Customise X Window System
- Regular expression pattern matching and I/O redirection
- Copy files to and from a floppy diskette
- Install, upgrade, delete, and query packages on your system
- Network utilities for the user
- Power user utilities
- Miscellaneous topics

Red Hat Linux System Administration (Level II)

Duration: 32 Hrs.

Prerequisites

Red Hat Linux Essentials or equivalent experience with Red Hat Enterprise Linux

Goal

Upon successful completion of this course, the delegate will be a Linux system administrator who has proven competency by passing the RHCT Exam, a realistic performance-based lab exam that tests his/her actual ability to install, configure, and attach a new Red Hat Enterprise Linux system to an existing production network.

Course Content:

- Install Red Hat Enterprise Linux interactively and with Kickstart
- Control common system hardware
- Create and maintain the Linux filesystem
- Configure an NFS client and autofs
- Understand system and service initialization
- Perform user and group administration
- Integrate a workstation with an existing network running common network services
- Configure a workstation as a client to NIS, DNS, and DHCP services
- Administer the Linux printing subsystem
- Automate tasks with at, cron, and anacron
- Maintain and interpret system logs
- Back up filesystems to tape and tar archive

- Install, update, query and remove software packages with RPM
- Update the Linux kernel from an RPM
- Configure the X Window System and the GNOME desktop environment
- Perform basic performance, memory, and process management
- Configure basic host security
- Perform basic troubleshooting

Red Hat Linux Network & Security (Level III)

Duration: 32 Hrs.

Course Description:

In this course you will learn how to configure common Red Hat Enterprise Linux network services. Network and local security tasks are also topics of this course.

Prerequisites:

Red Hat Linux System Administration or equivalent experience with Red Hat Enterprise Linux; LAN/WAN fundamentals or equivalent; internet working with TCP/IP or equivalent.

Goal

Upon completion of this course, the successful delegate will be a system administrator who can setup a Red Hat Enterprise Linux server and configure common network services and security at a basic level.

Prepares for

- RH302 - RHCE Certification Exam

Course Content:

- Networking services on Red Hat Enterprise Linux—server-side setup, configuration, and basic administration of common networking services: DNS, NIS, Apache, SMB, DHCP, Send mail, FTP. Other common services: tftp, pppd, proxy.
- Security administration using Red Hat Enterprise Linux
- Introduction to security
- Developing a security policy
- Preparation
- Local security
- Files and filesystem security
- Password security
- Kernel security
- Basic elements of a firewall
- Red Hat Enterprise Linux-based security tools
- Responding to a break-in attempt
- Security sources and methods
- Overview of OSS security tools

Candidates can appear for the following Red Hat Certification after completion of the course:

- **Red Hat Certified Engineer (RHCE)**

The Red Hat Certified Engineer (RHCE) certification began in 1999 and has been earned by over 10,000 Linux experts. Independent surveys have ranked the RHCE program as #1 overall for all of IT.

The **RHCE Certificate** is granted upon passing the RHCE Exam, a performance-based test on live equipment that measures actual

competencies at server system administration, setup of networking services, network security, diagnostics and troubleshooting.

Examination Structure

- A server install and network services configuration lab (3 hours)
- A troubleshooting and maintenance lab (2.5 hours).

Duration

- 5.5. hrs

Exam Coverage

The above mentioned RHCE curriculum namely Red Hat Linux Essentials, Red Hat Linux System Administration and Red Hat Linux Network and Security course modules.