



Linux Learning Centre

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Training & Certification

Programmes at LLC

LLC102: Essentials of Linux OS
LLC103: Linux System & Network Administration
LLC203: Linux Advanced Administration
LLC303: Linux System & Network Monitoring Tools
LLC104: Linux Internals & Programming Essentials
LLC105: Programming with Qt
LLC106: Device Driver Programming on Linux
LLC107: Network Programming on Linux
LLC108: Bash Shell Scripting Essentials
LLC109: CVS on Linux
LLC204: MySQL on Linux
LLC205: Programming with PHP
LLC206: Programming with Perl
LLC207: Programming with Python
LLC208: PostgreSQL on Linux
LLC209: Joomla CMS
LLC210: Drupal CMS
LLC403: Gmail Server Administration
LLC404: Postfix Mail Server Administration
LLC405: Linux Firewall Solutions
LLC406: Open LDAP Server Administration
LLC408: Samba Server Administration
LLC409: DNS Administration
LLC410: Nagios - System & Network Monitoring Software
LLC412: Apache & Secure Web Server Administration
LLC414: Web Proxy Solutions
LLC501: Programming with OpenGL
LLC504: Linux on Embedded Systems
LLC602: Linux Apache MySQL & PHP (LAMP)
RH033: Red Hat Linux Essentials
RH133: Red Hat Linux System Administration
RH253: Red Hat Linux Network & Security Administration
RH301: Red Hat Rapid Track Certification Course
RHS333: Red Hat Enterprise Security : Network Services
RH423: Red Hat Enterprise Directory Services & Authentication
RHS429: Red Hat Enterprise SELinux Policy Administration
RH318: Red Hat Enterprise Virtualization
RH401: Red Hat Enterprise Deployment & Systems Management
RH436: Red Hat Enterprise Clustering & Storage Management
RH442: Red Hat Enterprise System Monitoring & Performance Tuning
RH142: Linux Troubleshooting Techniques & Tools
RH184: Red Hat Enterprise Linux Virtualization
SUSE3071: SUSE Linux Enterprise Server Fundamentals
SUSE3072: SUSE Linux Enterprise Server Administration
SUSE3073: SUSE Linux Enterprise Server Advanced Administration

RH301

LINUX LEARNING CENTRE

Red Hat Rapid Track Certification Course

Course Overview

RH301 Red Hat Rapid Track Certification Course is a 4 Day intensive course which delivers the ability to: Install and configure Red Hat Linux • understand limitations of hardware • configure basic networking and file systems • configure the X Window System • configure basic security • set up common network (IP) services • carry out basic diagnostics and troubleshooting • perform essential Red Hat Linux system / network administration.

This course is offered on the current version of Red Hat Linux on which RH302 is being offered.

Pre-Requisites

Must have undergone RH033+RH133+RH253 courses **or** must have a thorough knowledge of administering Linux / Unix Server. Participants arriving without a large portion of these prerequisites will make less than optimal progress in the training and will be unlikely to pass the certification exam.

Target Audience

UNIX or Linux system administrators who have significant real-world experience with UNIX or Linux systems administration and need a RHCE Exam orientation.

This course is also for one who has completed LLC103+LLC203+LLC303 courses and need an orientation to take Red Hat Certification Exam - RHCE.

Course Material

Official Red Hat Training kit will be provided to the candidates.

Post Training Assistance

Candidates can have hands-on sessions, mock tests and assignments to prepare themselves for the RHCE Exam for a nominal fee. These sessions must be booked in advance and are subject to availability.

Course Duration

Four Days: 10 am - 5.30 pm

Course Fee

Rs. 9,600/- (plus 10.3% service tax)

Mode of Payment

The course fee has to be paid completely in advance by cash / Credit-Debit Card / Cheque / Demand Draft payable in Bangalore City in favour of "Linux Learning Centre Private Limited". The registration can be forwarded along with the payment by hand or by courier.

Course Outline

Essentials

Essential initial topics in system administration, including editors, switching accounts, adding users, using cron, and managing network connections

Kernel Services

- The Linux kernel: variants and modules
- The /proc filesystem and the sysctl command
- Accessing devices using udev
- Exploring hardware

Filesystem Management

- Creating filesystems
- Making filesystem mounts persistent across reboots
- Managing swap space

User Administration

- Modifying and deleting user accounts
- Password aging
- Group administration
- Creating group directories
- Setting disk quotas

Local Security

- Setting up a host-based firewall
- Using access control lists
- The SELinux security layer
- Managing suid and sgid executables
- Controlling access to superuser authority using sudo

Advanced Partitioning

- Understanding and implementing Software RAID
- Understanding Logical Volume Management
- Creating and resizing logical volumes

Installation

- The interactive Anaconda installer
- Kickstart: a hands-free method of installation

System Initialization

- Understanding the boot procedure
- Configuring the GRUB boot loader
- The Initial RAM Disk
- Understanding run levels
- Controlling services

RPM, YUM, RHN

- RPM: The Red Hat Package Manager
- The YUM installer
- Using the Red Hat Network

System Administration Topics

- Configuring the X Server
- The CUPS printing system
- cron and the superuser: the system-wide crontab file
- cron and system reboots: the anacron system
- Authentication Configuration: Pluggable Authentication Modules

Network Configuration

- Understanding network addresses
- Using OpenSSH for network communications
- Using VNC for network communications
- Network Authentication

Network Security

- Protecting services using TCP Wrappers
- Protecting the system using a packet filtering host-based firewall

Network File Sharing Services

- Setting up an NFS server
- Setting up an FTP server
- The Samba Server: networking with Windows systems

Network Infrastructure

- Creating a private repository
- NTP: Coordinating time
- Configuring a DHCP server
- Configuring a DNS server

HTTP Service

- Configuring the Apache web server
- Configuring the Squid web proxy cache

Mail Service

- Understanding e-mail delivery
- Using sendmail and postfix
- Dovecot: an IMAP and POP server

Troubleshooting

- A method for fault analysis
- Things to check
- Understanding recovery run levels
- Using the rescue environment