



## Red Hat Enterprise Directory Services and Authentication

### 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  
LLC403: Qmail 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  
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  
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

### Course Overview

RH423 Red Hat Enterprise Directory Services and Authentication is an intensive course that provides four days of instruction and labs on cross-platform integration of directory services to provide authentication or information service across the enterprise using the Red Hat Directory Server.

### Pre-Requisites

RH423 requires RHCE-level skills. The RHCE certificate on Red Hat Linux 7.1 or later is recommended but not required. Prerequisite skills can be shown by passing the RHCE Exam in either RH302 or by taking RH253 Red Hat Linux Networking and Security Administration or by possessing comparable skills and knowledge.

### Scope of the course

RH423 is aimed at senior Red Hat Enterprise Linux system administrators and other IT professionals who need to provide enterprise-wide authentication or information services or who desire training in the management of LDAP-based directory services and customization of Linux authentication using the Red Hat Directory Server.

### Course Material

The official courseware from Red Hat will be provided during the training.

### Post Training Support

Candidates can clarify any doubts on the topics covered in the course over email for a period of 30 days after the conclusion of the course.

### 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

- Introduction to Directory Services
  - What is a directory?
  - LDAP: models, schema, and attributes
  - Object classes
  - LDIF
- The LDAP Naming Model
  - Directory information trees & Distinguished Names
  - X.500 and "Internet" naming suffixes
  - Planning the directory hierarchy
- Red Hat Directory Server: Basic Configuration
  - Installation & setup of Red Hat Directory Server
  - Using the Red Hat Console
  - Using logging to monitor Red Hat Directory Server activity
  - Backing up and restoring the directory
  - Basic performance tuning with indexes
- Red Hat Directory Server: Authentication & Security
  - Configuring TLS security
  - Using access control instructions (ACI's)
  - ACI's and the Red Hat Console
- Searching and Modifying the LDAP Directory
  - Using command line utilities to search the directory
  - Search filter syntax
  - Updating the directory
  - Using graphical LDAP client utilities
- Linux User Authentication with NSS and PAM
  - Understanding authentication & authorization
  - Name service switch (NSS)
  - Advanced pluggable authentication modules (PAM) configuration
- Centralized User Authentication with LDAP
  - Central account management with LDAP
  - Using migration scripts to migrate existing data into an LDAP server
  - LDAP user authentication
- Kerberos and LDAP
  - Introduction to Kerberos
  - Configuring the Kerberos key distribution center (KDC) and clients
  - Configuring LDAP to support Kerberos
  - Access control with Simple Authentication and Security Layer (SASL)
- Directory Referrals and Replication
  - Referrals and replication
  - Single master configuration
  - Multiple master configuration
  - Planning for directory server availability
- Authenticating Windows Clients
  - Windows networking overview
  - Configuring a Samba primary domain controller (PDC) using LDAP
- Windows Domain Authentication & Linux Clients
  - Active Directory servers
  - Linux as a client
  - Active Directory and NSS
  - OpenLDAP
  - Winbind