KOENIG SOLUTIONS · COURSE OUTLINE

LPIC-3 300: Mixed Environment

Learn to configure OpenLDAP and Samba to integrate authentication, file, print and domain services across Linux and Windows environments.

8
MODULES

22
TOPICS

COURSE OVERVIEW

This course covers configuring OpenLDAP, including replication, securing the directory and performance tuning, then using it as an authentication backend integrated with PAM, NSS, Active Directory and Kerberos. It proceeds through Samba fundamentals, architecture, configuration, maintenance and troubleshooting, before covering file and print share configuration with Linux file system permissions. It then addresses Samba user and group management with Winbind, domain integration as a PDC, BDC or AD-compatible domain controller, name services with NetBIOS, WINS and Active Directory name resolution, and working with Linux and Windows clients through CIFS integration.

WHO THIS COURSE IS FOR

- **System Administrators**
- **Network Administrators**
- **Linux Administrators**
- **Samba Administrators**
- **Directory Services Administrators**

LEARNING OBJECTIVES

- Configure OpenLDAP replication and secure the directory
- Tune OpenLDAP server performance
- Integrate LDAP with PAM, NSS, Active Directory and Kerberos
- Configure Samba shares for file and print services
- Manage Samba user accounts, groups and Winbind authentication
- Configure Samba as a PDC, BDC or AD domain controller
- Configure name resolution with NetBIOS, WINS and Active Directory
- Integrate Linux and Windows clients using CIFS

COURSE SYLLABUS

8 Modules, 22 Topics

01

OpenLDAP Configuration

TOPICS

OpenLDAP Replication · Securing the Directory · OpenLDAP Server Performance Tuning

02

OpenLDAP as an Authentication Backend

TOPICS

- LDAP Integration with PAM and NSS
- Integrating LDAP with Active Directory and Kerberos

03

Samba Basics

TOPICS

Samba Concepts and Architecture · Configure Samba · Regular Samba Maintenance · Troubleshooting Samba · Internationalization

04

Samba Share Configuration

TOPICS

- File Services
- Linux File System and Share/Service Permissions
- Print Services

05

Samba User and Group Management

TOPICS

Managing User Accounts and Groups · Authentication, Authorization and Winbind

06

Samba Domain Integration

TOPICS

Samba as a PDC and BDC · Samba4 as an AD compatible Domain Controller · Configure Samba as a Domain Member Server

07

Samba Name Services

TOPICS

NetBIOS and WINS · Active Directory Name Resolution

08

Working with Linux and Windows Clients

TOPICS

CIFS Integration · Working with Windows Clients

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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