KOENIG SOLUTIONS · COURSE OUTLINE

LPIC-303: Security v3.0

Learn to secure Linux systems and networks using cryptography, access control, host and network hardening, and vulnerability assessment.

5
MODULES

17
TOPICS

COURSE OVERVIEW

This course covers cryptography, including X.509 certificates, public key infrastructures, encrypted file systems and DNS cryptography. It then addresses host security, covering hardening, intrusion detection, user management and authentication, and FreeIPA installation with Samba integration. It continues with access control, including discretionary and mandatory access control and network file systems, followed by network security topics such as network hardening, intrusion detection, packet filtering and virtual private networks. The course concludes with common security vulnerabilities, threats and penetration testing.

WHO THIS COURSE IS FOR

- **Linux Administrators**
- **Security Administrators**
- **Network Administrators**
- **System Administrators**
- **Penetration Testers**

LEARNING OBJECTIVES

- Explain X.509 certificates and public key infrastructures
- Apply encryption for file systems and DNS
- Implement host hardening and intrusion detection measures
- Configure user management and authentication with FreeIPA and Samba
- Compare discretionary and mandatory access control models
- Configure network file systems securely
- Implement network hardening, packet filtering and VPNs
- Assess common vulnerabilities, threats and penetration testing methods

COURSE SYLLABUS

5 Modules, 17 Topics

01

Cryptography

TOPICS

- X.509 Certificates and Public Key Infrastructures
- X.509 Certificates for Encryption, Signing and Authentication
- Encrypted File Systems
- DNS and Cryptography

02

Host Security

TOPICS

Host Hardening · Host Intrusion Detection · User Management and Authentication · FreeIPA Installation and Samba Integration

03

Access Control

TOPICS

Discretionary Access Control · Mandatory Access Control · Network File Systems

04

Network Security

TOPICS

Network Hardening · Network Intrusion Detection · Packet Filtering · Virtual Private Networks

05

Threats and Vulnerability Assessment

TOPICS

Common Security Vulnerabilities and Threats · Penetration Testing

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.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com | info@koenig-solutions.com