

FreeIPA

COURSE CONTENT

GET IN TOUCH



Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multosoftsystems.com



www.multosoftsystems.com

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

FreeIPA Training introduces professionals to the deployment and administration of FreeIPA as a centralized identity management solution for Linux environments. The course covers user administration, authentication services, directory management, policy configuration, certificate administration, replication, and enterprise security. Through practical implementation and real-world scenarios, participants develop the skills required to manage reliable, secure, and scalable FreeIPA deployments.

Module 1: Introduction to FreeIPA

- ✓ Overview of FreeIPA
- ✓ Identity and Access Management Fundamentals
- ✓ FreeIPA Architecture and Core Components
- ✓ Understanding Integrated Services
- ✓ Enterprise Use Cases
- ✓ FreeIPA Deployment Models

Module 2: Installing and Configuring FreeIPA

- ✓ System Requirements and Environment Preparation
- ✓ FreeIPA Server Installation
- ✓ Initial Configuration and Domain Setup
- ✓ Client Installation and Enrollment
- ✓ Configuring Integrated DNS
- ✓ Verifying the FreeIPA Deployment

Module 3: Identity Administration with FreeIPA

- ✓ Managing User Accounts
- ✓ Group Administration
- ✓ Host Enrollment and Management
- ✓ Service Principal Management
- ✓ Identity Lifecycle Management
- ✓ Administrative Delegation

Module 4: Kerberos Authentication and Access Policies

- ✓ Kerberos Architecture and Authentication Flow
- ✓ Ticket Management
- ✓ Password and Account Policies
- ✓ Host-Based Access Control (HBAC)
- ✓ Sudo Rule Configuration
- ✓ Role-Based Access Control (RBAC)

Module 5: Integrated DNS and Certificate Management

- ✓ Integrated DNS Administration
- ✓ Managing DNS Zones and Resource Records
- ✓ Certificate Authority (Dogtag PKI) Overview
- ✓ Certificate Enrollment and Issuance
- ✓ Certificate Renewal and Revocation
- ✓ Securing Services with TLS Certificates

Module 6: Replication and Active Directory Integration

- ✓ Multi-Master Replication Concepts
- ✓ Configuring Replica Servers
- ✓ Replication Monitoring and Maintenance
- ✓ Establishing Active Directory Trust
- ✓ Cross-Realm Authentication
- ✓ High Availability Considerations

Module 7: FreeIPA Administration and Security

- ✓ Administrative Roles and Privileges
- ✓ Managing Permissions and Delegation
- ✓ Audit Logging and Monitoring
- ✓ Backup and Recovery Strategies
- ✓ Security Hardening Best Practices
- ✓ Performance Optimization

Module 8: Automation and Enterprise Integration

- ✓ FreeIPA Command-Line Administration
- ✓ Automating Administrative Tasks
- ✓ Integrating FreeIPA with Linux Services
- ✓ Configuration Management Concepts
- ✓ API and Automation Overview
- ✓ Operational Best Practices

Module 9: Monitoring and Troubleshooting

- ✓ Monitoring FreeIPA Services
- ✓ Troubleshooting Authentication Issues
- ✓ Diagnosing LDAP and Directory Problems
- ✓ Resolving DNS and Certificate Issues
- ✓ Replication Troubleshooting
- ✓ Log Analysis and System Diagnostics

Module 10: Enterprise Deployment and Best Practices

- ✓ Planning a Production Deployment
- ✓ Scaling FreeIPA Environments
- ✓ Upgrade and Migration Strategies
- ✓ Disaster Recovery Considerations
- ✓ Enterprise Implementation Best Practices
- ✓ End-to-End FreeIPA Deployment Case Study