

SUSE Multi-Linux Manager 5 Operations

Course Duration: 24 Hours

Course code: SMGR201v5

1. Course Overview

This course focuses on the day-to-day operations and management of SUSE Multi-Linux Manager (MLM) 5. Learners will gain hands-on experience in managing multiple Linux distributions, automating system administration tasks, patch management, configuration management, and monitoring enterprise Linux environments from a centralized platform.

2. What you'll learn?

By the end of the course, you will be able to:

- Manage and operate SUSE Multi-Linux Manager 5
- Administer multiple Linux systems from a centralized console
- Perform patch and update management
- Automate system provisioning and configuration
- Monitor system health and compliance
- Troubleshoot issues in managed systems
- Implement security and compliance policies
- Optimize system lifecycle management

3. Target Audience

- Linux System Administrators
- Infrastructure Engineers
- Data Center Operators
- IT Operations Teams
- DevOps Engineers

4. Pre-Requisites

Before taking this course, you should have:

- Basic knowledge of Linux administration
- Familiarity with SUSE Linux Enterprise Server
- Understanding of system management concepts
- Basic networking knowledge

5. Course content

Module 1: Course Introduction

- Course objectives and structure
- Overview of SUSE Multi-Linux Manager
- Role of centralized Linux management

Module 2: SUSE Multi-Linux Manager Architecture

- Components of MLM 5
- Server, proxy, and client architecture
- Communication flow
- Supported Linux distributions

Module 3: System Registration and Management

- Registering systems with MLM
- Managing clients and groups
- System inventory and organization
- Lifecycle management

Module 4: Patch and Update Management

- Managing software channels
- Applying patches and updates
- Scheduling updates
- Compliance and reporting

Module 5: Configuration Management

- Managing system configurations
- Using configuration channels
- Deploying configuration changes
- Maintaining consistency across systems

Module 6: Software Management

- Package management with MLM
- Repository synchronization
- Software deployment
- Managing dependencies

Module 7: Automation and Provisioning

- Automated system provisioning
- Using activation keys
- Kickstart/AutoYaST integration
- Automating administrative tasks

Module 8: Monitoring and Alerts

- Monitoring system health
- Configuring alerts and notifications
- Performance tracking
- Troubleshooting issues

Module 9: Security and Compliance

- Managing security policies
- User access control
- Compliance reporting
- Vulnerability management

Module 10: Logging and Auditing

- Managing logs in MLM
- Audit trails and reporting
- Tracking system changes
- Compliance audits

Module 11: Maintenance and Upgrades

- Performing system maintenance
- Upgrading MLM components
- Backup and restore procedures
- Managing lifecycle updates

Module 12: Integration with Other Tools

- Integration with SUSE Manager
- API usage and automation
- Integration with DevOps tools
- External monitoring tools

Module 13: Performance Optimization

- Optimizing MLM performance
- Managing large-scale environments
- Resource tuning
- Best practices

Module 14: Hands-On Labs and Real-World Scenarios

- Managing multiple Linux systems
- Automating updates and configurations
- Troubleshooting real-world issues
- Compliance and reporting scenarios

Module 15: Capstone Project

- Manage enterprise Linux environment using MLM
- Implement automation and patch management
- Apply security and monitoring
- Final project evaluation and presentation

