SUSE Linux Enterprise Server 15 Advanced Administration

Category: Infrastructure & IT Operations | **Vendor:** SUSE

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Certification: Certified Engineer in Enterprise Linux 15

Course Overview

The course SUSE Linux Enterprise Server 15 Advanced Administration builds upon the SUSE Linux Enterprise Server 15 Administration course and teaches advanced system administration tasks on SLES 15.

Attending students should have a good working knowledge of general system configuration and working with the Linux command line. After attending the course, the student should be capable of administering SLES 15 and be able to deal with specialized networking and storage configuration. They should also have a solid understanding of basic Bash scripting.

This course helps prepare students for the SUSE Certified Engineer in Enterprise Linux 15 certification exam.

About This Course

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Who Should Attend

The course is designed for those who already have experience with Linux, including general system configuration and using the command line. The course is ideal for those seeking advanced administration skills on SUSE Linux Enterprise Server 15, those who have completed the (!) course and those preparing to take the SUSE Certified Engineer in Enterprise Linux 15 certification exam.

Prerequisites & Entry Requirements

General Prerequisites:

Before attending this course, it is highly recommended that students have a good working knowledge of Linux and should be able to:

- Perform partitioning and file system setup and maintenance
- Perform system configuration including network setup and user management
- Manage software packages
- Work on the command line including file management and text editing

This knowledge can be gained through (!) .

Learning Outcomes

Upon successful completion of this course, participants will be able to:

During this course you will learn:

- System Optimization
- Control Groups
- Manage encryption
- Use the Shell efficiently and create Shell scripts
- Manage Hardware and Drivers
- Advanced Networking configuration
- iSCSI and Multipath IO
- Centralized Authentication
- Packaging software and managing system updates
- Configuration Management using Salt

Detailed Course Outline

Section 1: Advanced System Administration

- YaST Security Module

- Understand and use the YaST Security Module
- Backup and Recovery

- Understand and Use Snapper
- Software Libraries

- Understand Software Libraries in Linux
- General Server Health

- Gather Server Health and Performance Information

- Monitoring Overview

- Monitoring Methodology

- What are Optimization Tools?

- The Optimization Process

- System Optimization Tools

- Control Groups

- Understand Linux Control Groups

Section 02: Encryption

- SSL/TLS

- Understand SSL/TLS Concepts

- openSSL

- GPG

- Understand GPG Concepts

- Perform GPG Key Creation and Management

- Perform GPG Key Distribution

Section 03: Shell Scripting

- Use Basic Script Elements

- Use Control Structures

- Read User Input

- Use Arrays

- Use Shell Functions

- Use Command Options in Scripts

- Test File Types and Compare Values

Section 04: Hardware

- Hardware Info

- Display Hardware Information
- Drivers

- Understand Linux Drivers
- Use Driver Management Utilities

Section 05: Advanced Networking

- Advanced Network Interface Types

- Bridges
- Virtual Ethernet Devices
- VLANs
- Network Namespaces

- Understand Linux Network Namespaces
- Work with Linux Network Namespaces
- IPv6

- Understand IPv6
- Configure IPv6

Section 06: Advanced Storage Administration

- iSCSI

- Understand iSCSI Concepts
- Configure and Manage the LIO iSCSI Target
- Configure and Manage the iSCSI Initiator
- MPIO

- Understand MPIO
- Configure and Manage Device Mapper Multipath I/O

Section 07: Centralized Authentication

- PAM

- Understand PAM
- Configure PAM
- SSSD

- Understand SSSD
- Deploy SSSD

Section 08: Advanced Software Management

- RPM

- Mange RPM Packages
- Build RPM Packages
- Understand the RPM spec file
- Sign RPM Packages with GPG
- Repositories

- Understand Software Repository Concepts
- Create a Software Repository with creatrepo
- Sign RPM-MD Software Repositories
- Manage Software Repositories with libzypp
- RMT

- Understand the Repository Mirroring Tool (RMT)
- Install and Configure an RMT Server
- Mirror Software Repositories with RMT
- Configure SMT Clients

Section 9: Configuration Management with Salt

- Salt Overview
- Install and Configure Salt
- Understand Execution Modules
- Understand the Salt State System

Skills You Will Learn:

During this course you will learn:

- System Optimization
- Control Groups
- Manage encryption
- Use the Shell efficiently and create Shell scripts
- Manage Hardware and Drivers
- Advanced Networking configuration
- iSCSI and Multipath IO
- Centralized Authentication
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Frequently Asked Questions

Q: What delivery options are available for SUSE Linux Enterprise Server 15 Advanced Administration?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The SUSE Linux Enterprise Server 15 Advanced Administration course helps prepare you for the Certified Engineer in Enterprise Linux 15 certification path.

Q: How many CPD hours does this course provide?

The 4-day SUSE Linux Enterprise Server 15 Advanced Administration course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the SUSE Linux Enterprise Server 15 Advanced Administration training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for SUSE Linux Enterprise Server 15 Advanced Administration?

Yes, we provide corporate training, dedicated training, and closed classes for SUSE Linux Enterprise Server 15 Advanced Administration. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: SUSE Linux Enterprise Server 15 Advanced Administration, SUSE Linux Enterprise Server, SLE301V15

Q: Why choose Nexus Human for SUSE Linux Enterprise Server 15 Advanced Administration?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your SUSE Linux Enterprise Server 15 Advanced Administration training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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