

SLE201 v15 SUSE Linux Enterprise Server 15 Administration

Course Summary

Description

This course is designed for those who are seeking a fundamental understanding of the SUSE Linux Enterprise Server (SLES) operating system.

Students will be able to install and configure a SLES 15 server and integrate it into an existing network. They will be able to perform the most important system administration tasks.

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

Objectives

At the end of this course, students will be able to:

- Install SLES 15 and perform basic Linux configuration
- Become familiar with the command line interface & commonly used commands
- Configure and use Remote Administration
- Manage the boot process and understand systemd
- Manage processes and jobs
- Manage users and permissions
- Manage software
- Configure basic networking
- Manage storage
- Monitor SUSE Linux Enterprise

Topics

- Overview of SUSE Linux Enterprise
- The Linux Filesystem
- Work with the Command Line
- The Vim Editor
- Remote Administration
- System Initialization
- Process Management
- Identity and Security
- Software Management
- Network Management
- Storage Management
- Administration and Monitoring
- Installing SUSE Linux Enterprise

Audience

This course is designed for those who have little or no experience with Linux and who are seeking a fundamental understanding of the SUSE Linux Enterprise 15 operating system. It is also ideal for those who want to begin preparing for the SUSE Certified Administrator in Enterprise Linux 15 certification exam.

Prerequisites

This course is designed for students without previous Linux experience. Basic computer skills on any operating system is required.

Duration

Four days

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Course Outline

I. Overview of SUSE Linux Enterprise

- A. Flavors of SUSE Linux
- B. SLE Maintenance Model
- C. YaST

II. The Linux Filesystem

- A. Understand the Filesystem Hierarchy Standard (FHS)
- B. Understand the Linux File Types

III. Work with the Command Line

- A. Getting Help at the Command Line
- B. Understand the Shell Environment

IV. The Vim Editor

V. Remote Administration

- A. Understand Remote Administration with OpenSSH
- B. Understand Remote Administration with VNC

VI. System Initialization

- A. Understand the Boot Process
- B. Understand the GRUB2 Boot Loader
- C. Define and Describe system

VII. Process Management

- A. Understand Process Administration
- B. Understand Background Processes
- C. Understand Process Scheduling
- D. Understand xinetd

VIII. Identity and Security

- A. Understand User Management
- B. Understand Filesystem Permissions
- C. Understand Privilege Delegation

IX. Software Management

- A. Understand Compiling Software from Source
- B. Understand Management of RPM Packages
- C. Understand Software Management with Libzypp

X. Network Management

- A. Understand Network Management in SLE
- B. Understand Network Management with Wicked
- C. Understand firewallld

XI. Storage Management

- A. Understand the Linux I/O Stack
- B. Recognize Traditional Linux File Systems
- C. Configure Logical Volume Management (LVM)
- D. Configure Software RAID
- E. Define and Describe Btrfs
- F. Understand NFSv4

XII. Administration and Monitoring

- A. Understand Time Sync with chrony
- B. Configure System Logging
- C. Understand Supportconfig

XIII. Installing SUSE Linux Enterprise

- A. Understand the Unified Installer
- B. Understand Extensions and Modules
- C. Understand AutoYaST