Course: SLE201v15SUSE Linux Enterprise Server 15 Administration

Training Level:
Beginner

Duration:
4 days

Course Overview

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.

Key Objectives

Attendees will be taught the following concepts and skills that are fundamental in administering the SLES Operating System:
- 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

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.

Course Outline

Section 1: Overview of SUSE Linux Enterprise
Flavors of SUSE Linux
SLE Maintenance Model
YaST

Section 2: The Linux Filesystem
Understand the Filesystem Hierarchy Standard (FHS)
Understand the Linux File Types

Section 3: Work with the Command Line
Getting Help at the Command Line
Understand the Shell Environment

Section 4: The Vim Editor

Section 5: Remote Administration
Understand Remote Administration with OpenSSH
Understand Remote Administration with VNC

Section 6: System Initialization
Understand the Boot Process
Understand the GRUB2 Boot Loader
Define and Describe systemd

Section 7: Process Management
Understand Process Administration
Understand Background Processes
Understand Process Scheduling
Understand xinetd

Section 8: Identity and Security
Understand User Management
Understand Filesystem Permissions
Understand Privilege Delegation

Section 9: Software Management
Understand Compiling Software from Source
Understand Management of RPM Packages
Understand Software Management with Libzypp

Network Masters
KNOWLEDGE AND TECHNOLOGY TOGETHER

Section 10: Network Management
Understand Network Management in SLE
Understand Network Management with Wicked
Understand firewalldl

Section 11: Storage Management
Understand the Linux I/O Stack
Recognize Traditional Linux File Systems
Configure Logical Volume Management (LVM)
Configure Software RAID
Define and Describe BtrFS
Understand NFSv4

Section 12: Administration and Monitoring
Understand Time Sync with chrony
Configure System Logging
Understand Supportconfig

Section 13: Installing SUSE Linux Enterprise
Understand the Unified Installer
Understand Extensions and Modules
Understand AutoYaST