

SLE201

SUSE Linux Enterprise Server Administration

Description:

This four day 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 operating system. It is also ideal for those who want to begin preparing for the SUSE Certified Administrator (SCA) in Enterprise Linux (2017 Update) certification exam.

Students will be able to:

- Install SLES 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
- Monitoring SUSE Linux Enterprise

Course requirements:

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

This course is intended for:

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 operating system. It is also ideal for those who want to begin preparing for the SUSE Certified Administrator (SCA) in Enterprise Linux (2017 Update) certification exam.

Literature:

All participants will get original SUSE Linux materials.

Hardware:

Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

<h3>Chapter 1: What is SUSE Linux Enterprise?</h3>

- Understand the different Flavors of SUSE Linux
- Understand the SLE Maintenance Model
- Install SLES
- Introduction to the GNOME Desktop
- Understand YaST
- Understand the Filesystem Hierarchy Standard
- Get to Know the Linux File Types

<h3>Chapter 2: Work with the Command Line</h3>

- Define and Explain the Shell Environment
- Use the Most Important Commands
- Get Help at the Command Line
- Work with the VIM Text Editor
- Use OpenSSH for Command Line Remote Administration

<h3>Chapter 3: System Initialization</h3>

- Understand the SLE Boot Process
- Understand UEFI, Secure Boot, and Trusted Execution
- Configure the GRUB2 Bootloader
- Define and Manage Services with systemd

<h3>Chapter 4: Process Management</h3>

- Manage Processes
- Work with Background Processes
- Schedule Processes

<h3>Chapter 5: Identity and Security</h3>

- Manage Users and Groups
- Change File Permissions
- Delegate Privileges (su)

<h3>Chapter 6: Manage Software</h3>

- Manage RPM Packages
- Manage Software Repositories and Libzypp

<h3>Chapter 7: Network Management</h3>

- Use Basic Network Commands
- Configure Network Interfaces
- Manage Networks with Wicked
- Set Up SUSEfirewall2

<h3>Chapter 8: Storage</h3>

Configure Partitioning (MBR and GPT)

Recognize Traditional Linux File Systems

Introduction to Btrfs

Configure Software RAID

Configure Logical Volume Management (LVM)

<h3>Chapter 9: Administration and Monitoring</h3>

Configure Time Synchronization

Configure System Logging

Use Supportconfig

<h3>Chapter 10: Hardware Management</h3>

Display Hardware Information

Manage Drivers

