

## **SLE301**

# **SUSE Linux Enterprise Server Advanced Administration**

## **Description:**

This 4 day course builds upon the SUSE Linux Enterprise Server Administration course and teaches advanced system administration tasks on SLES. This course helps prepare students for the SUSE Certified Engineer (SCE) in Enterprise Linux (2017 Update) certification exam.

#### Students will be able to:

- Manage system through systemd
- · Configure booting in GRUB2
- · Manage GPT partitions
- · Understand scripting in Bash
- · Set up network and networked storage

## **Course requirements:**

- 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 the <u>SLE201: SUSE Linux Enterprise Administration Course</u>.

#### This course is intended for:

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, those who have completed the <a href="SLE201: SUSE Linux Enterprise Server">SLE201: SUSE Linux Enterprise Server</a>
<a href="Administration">Administration</a> course and those preparing to take the SUSE Certified Engineer (SCE) in Enterprise Linux (2017
Update) certification exam.

#### Literature:

All participants will get original SUSE materials.

### Hardware:

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

## Syllabus:

## **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

#### SSL/TLS

- Understand SSL/TLS Concepts
- openSSL

#### **GPG**

- Understand GPG Concepts
- · Perform GPG Key Creation and Management
- · Perform GPG Key Distribution

## **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

#### Hardware

- Display Hardware Information
- Understand Linux Drivers

• Use Driver Management Utilities

## **Advanced Networking**

- Bridges
- · Virtual Ethernet Devices
- VLANs
- Network Namespaces
- Understand Linux Network Namespaces
- Work with Linux Network Namespaces

#### IPv6

- Understand IPv6
- Configure IPv6

#### **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

#### **PAM**

- Understand PAM
- Configure PAM

#### **SSSD**

- Understand SSSD
- · Deploy SSSD

#### **RPM**

- Manage 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

## **Salt Overview**

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

#### Contact us

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