

SLE211 v15 SUSE Linux Enterprise Server Deployment

Course Summary

Description

This course is designed for those who deploy, or will be deploying, SUSE Linux Enterprise Server locally on bare metal, virtualized, or into a public or private cloud, including Azure, AWS, or GCE.

Students will learn basic installation techniques using the unified installer, as well as more advanced AutoYaST and image-based deployments.

Objectives

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

- Attendees will be taught the following concepts and skills that are fundamental in
- Deploying the SLES Operating System:
- Understanding current deployment technologies
- How to deploy with AutoYaST
 - Configuring installation services: DHCP, PXE, Installation Servers
 - Automating an installation with AutoYaST
- Image based deployment with KIWI
 - Basic layout and function of a KIWI XML file
- Deploying to the cloud
 - Azure introduction
 - AWS introduction
 - GCE introduction
 - Images found in the public cloud marketplaces
 - Deploying to Azure, AWS, and GCE

Topics

- Overview of Deployment Technologies
- Automated Installation with AutoYaST
- Image Based Deployment with KIWI
- Cloud Deployment

Audience

This course is designed for those who have experience administering SUSE Linux Enterprise Server or other Linux distributions.

Prerequisites

Students should be proficient in the use of the Bash shell, understand basic use-cases for deployment types, and be comfortable installing operating systems. Linux experience is required.

Duration

Two days

SLE211 v15 SUSE Linux Enterprise Server Deployment

Course Outline

- I. Overview of Deployment Technologies*
 - A. Bare Metal Technologies
 - B. Cloud Deployments
 - C. Automation and Imaging

- II. Automated Installation with AutoYaST*
 - A. Installation Services
 - 1. SLES Installation Server
 - 2. DHCP
 - 3. TFTP
 - 4. PXE
 - B. Understand AutoYaST
 - 1. Prepare for an AutoYaST Installation
 - 2. The Control File
 - 3. PXE and AutoYaST
 - 4. AutoYast Scripts, Rules, and Classes

- III. Image Based Deployment with KIWI*
 - A. Overview of KIWI
 - B. Installing KIWI
 - C. Basic KIWI Workflow
 - D. Building KIWI Images
 - E. Customizing the Boot Process
 - F. The KIWI Image Description File
 - G. Advanced Configuration Options
 - H. KIWI Image Maintenance

- IV. Cloud Deployment*
 - A. Available Cloud Providers
 - B. Images in the Cloud
 - C. Deploying to the cloud
 - 1. GCE
 - 2. Azure