



Course: VIRT201v1.8

SUSE Virtualization Deployment and Operations



Training Level:

- ☐ Int

Delivery Method

- ☐ ILT
- ☐ eLearning

Duration:

- ☐ 3 days

Course Overview

This course offers a comprehensive, end-to-end overview of the SUSE Virtualization platform. Starting with the fundamental concepts of HCI, you will learn to deploy and configure SUSE Virtualization clusters. The course covers essential product aspects, including network and storage configuration, as well as the creation and management of virtual machines within the SUSE Virtualization environment. You will also learn how to integrate SUSE Virtualization with Rancher.

This course prepares students for the SCA in SUSE Virtualization exam.

Key Objectives

Attendees will be taught the following concepts and skills:

- ☐ Cluster installation
- ☐ Cluster and virtual machine network configuration
- ☐ Cluster storage configuration
- ☐ Virtual machine lifecycle management
- ☐ Virtual machine snapshot, backup and restore
- ☐ Cluster maintenance, troubleshooting and upgrade

Audience

- Partner consultants who regularly deploy the product on behalf of customers who don't have the skills in their organization to deploy for themselves
- End users who perform common administrative tasks on a daily basis
- End users who perform advanced administrative tasks and troubleshooting

Prerequisites

Attendees should have experience with a virtualization platform and virtualization concepts. Experience using and managing Kubernetes clusters or understanding of Kubernetes concepts is a plus.



Course Outline

- ❑ Section 1: Course Introduction
- ❑ Section 2: Introduction to SUSE Virtualization
 - ❑ Hyperconverged Infrastructure Concepts
 - ❑ Overview of SUSE Virtualization
- ❑ Section 3: Cluster Installation
 - ❑ Installation Overview
 - ❑ Install a SUSE Virtualization Cluster
- ❑ Section 4: Initial Cluster Configuration
 - ❑ Modify Configuration Parameters After Install
 - ❑ Monitoring and Metrics
- ❑ Section 5: Host Management
 - ❑ Overview of Host Level Configuration
- ❑ Section 6: Network Configuration
 - ❑ Overview of SUSE Virtualization Networking Concepts
 - ❑ Define and Configure Cluster Networks
 - ❑ Define and Configure VM Networks
- ❑ Section 7: Storage Configuration
 - ❑ Overview of Longhorn
 - ❑ Storage Classes
 - ❑ Encrypted Storage
 - ❑ 3rd Party CSI Storage
- ❑ Section 8: Overview of Virtual Machine Lifecycle Management
 - ❑ Introduction to KubeVirt
 - ❑ Virtual Machine Lifecycle Concepts in SUSE Virtualization
- ❑ Section 9: Image Management
 - ❑ Manage VM Disk Images
- ❑ Section 10: Virtual Machine Management
 - ❑ Create Virtual Machines
 - ❑ Create and Use Templates
 - ❑ Launch K8s Clusters on Harvester
- ❑ Section 11: Volume Management
 - ❑ Manage Storage Volumes
- ❑ Section 12: Live Migrate Virtual Machines
 - ❑ Virtual Machine Live Migration
 - ❑ Virtual Machine Autobalance
- ❑ Section 13: Advanced Device Management
 - ❑ Device Hotplug
 - ❑ Physical Devices and VMs
- ❑ Section 14: Virtual Machine Snapshot and Backup
 - ❑ VM Snapshots and VM Backup
- ❑ Section 15: Cluster Maintenance
 - ❑ Configure the Cluster for Maintenance
- ❑ Section 16: Troubleshooting
 - ❑ Access the Embedded Rancher and Longhorn Dashboards
 - ❑ CLI Access to the cluster
 - ❑ Support Bundles
- ❑ Section 17: Cluster Upgrade
 - ❑ SUSE Virtualization Cluster Support Lifecycle
 - ❑ Cluster Upgrade Concepts

SUSE Training

Information about SUSE Training can be found at:

<https://www.suse.com/training/>



Contact suse-training@suse.com with any questions.



