

# Introduction to SUSE Virtualization (Harvester)

Course eHRV101v1.2

---

This course offers a comprehensive introduction to the SUSE Virtualization hyperconverged (HCI) infrastructure platform. SUSE Virtualization was formerly called Harvester and is referred to as Harvester throughout the course. Beginning with the fundamental concepts of HCI, you will then learn to deploy and configure Harvester clusters. The course covers the most essential aspects of the product, including network and storage configuration, as well as the creation and management of virtual machines within the Harvester environment. Finally, you will learn how to integrate Harvester with Rancher.

---

## Course Information

Delivery Method: eLearning

Course Duration: Approximately 8 hours video content

Course Level: Beginner

---

# Key Objectives

Attendees will be taught the following concepts and skills:

Deployment of Harvester Clusters

Configuration of Harvester Clusters

Configuration of Networking and Storage in Harvester Clusters

Creation and Management of VMs on Harvester Clusters

Integration of Harvester Clusters with Rancher

---

## Audience Summary

This course is designed for system administrators and others who are interested in how to deploy and use Harvester.

---

## Course Prerequisites

Attendees should have experience with Linux administration. Experience with virtualization, particularly KVM+Libvirt, is beneficial. Experience with Kubernetes administration is also beneficial.

---

# Course Outline

Section 1: Course Introduction

Section 2: Introduction to Harvester

- Hyperconverged Infrastructure Concepts

- Harvester Features and Functionality

Section 3: Harvester Cluster Deployment

- The Harvester Installation Process

- Harvester Cluster Deployment Preparation

- Harvester Cluster Manual Deployment

- Harvester Cluster Automated Deployment

Section 4: General Harvester Configuration

- Harvester Cluster Node Configuration

- Harvester Addons

- Cluster Monitoring and Metrics

- VM Backup Target Configuration

Section 5: Networking in Harvester

- Overview of Networking in a Harvester Cluster

- Cluster Network Definitions

- Network Configs

- VM Networks

Section 6: Storage in Harvester

- Longhorn Basics

- Dedicated Storage Network

- Storage Volumes

- Storage Expansion

- Storage Classes

Section 7: Virtualization Management with Harvester

Virtual Machine Management Concepts in Harvester

Virtual Machine Images

SSH Keys

Virtual Machine Creation

Virtual Machine Cloning

Cloud Config Templates

VM Templates

Hot-plug Volumes

Live Migration

Virtual Machine Snapshots

Virtual Machine Backups

## Section 8: Harvester Maintenance, Troubleshooting Tools and Cluster Upgrade

Harvester Host Management

Additional Troubleshooting Tools in Harvester

Support Bundles in Harvester

Harvester Cluster Upgrade

## Section 9: Integrate Harvester with Rancher

Harvester and Rancher Integration

Rancher and Harvester Users

Cloud Credentials

Cluster Deployment with Rancher onto Harvester

Application Deployment with Rancher onto Clusters Running on Harvester