Course Description



Course: HAE311v15 SUSE Linux Enterprise 15 High Availability Deployment



Training Level:

□ Advanced

Delivery Method:

☐ Instructor Led

Duration:

☐ 3 days ILT

Course Overview

This course teaches students to deploy and configure the SUSE Linux Enterprise (SLE) 15 High Availability (HA) product to be ready to deploy workloads. The course introduces the product features and implementation planning for both on premise and public cloud implementations. A SLE15 HA cluster is deployed and then configured to provide corosync network redundancy. Next the fencing configuration is updated which includes adding a quorum arbitrator system. The cluster configuration is then tested before an additional node is added to the existing cluster.

This course prepares students for the SCDS in SUSE Linux Enterprise High Availability exam.

Key Objectives

During this course you will learn to:

- ☐ Plan and prepare to implement a SLE HA cluster
- ☐ Install SLE HA and create a Corosync/Pacemaker cluster
- Use the administration tools available to administer a cluster
- Configure node fencing
- Deploy and configure an arbitrator system to provide additional votes to the quorum system
- ☐ Add an additional node to an existing cluster

Audience

This course is designed for existing Linux administrators who want to deploy a highly availability cluster using the SUSE Linux Enterprise HA Extension. This course provides a foundation for deploying SAP on SLE 15 HA.

Prerequisites

Students require a good knowledge of SLES15. Some familiarity with the basic concepts of clustering for HA would be useful but not required.





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Course Outline

	Section	al: Introduction
		Course Objectives and Audience
		Course Lab Environment Overview
		Certification Options
		Additional SUSE Training
	Section	2: Introduction to the SUSE Linux Enterprise High Availability
	Extensi	on
		Overview of the SUSE Linux Enterprise High Availability
		Extension
		Cluster Terminology
		Overview of the High Availability Extension's Components
		SLE HA in the Public Cloud
	Section	3: Cluster Implementation planning
		Overview of SLE15 HA Implementation Process
		Collect the Required Parameters
		SetExpectations
		Planning Storage
		2 Node Clusters, a Special Case
		Designing Test Cases
		Testing and Documentation
	Section	4: Cluster Node Preparation
		Local Filesystems
		Preparing the Infrastructure
		Cluster Networking
		Bonding Configuration
		Time Synchronization
		Name Resolution
		User Management
		Software Management for the HA Environment
	Section	5: Cluster Deployment
		Prepare the Infrastructure
		Deploy the First Cluster Node
		Deploy the Second Cluster Node
		Configure Fault Tolerance for corosync Communications
		Advanced Quorum Configuration with Qdevice and QNet
	Section	6: Introduction to the Cluster Administration Tools

SUSE Training

Information about SUSE Training can be found at:

https://training.suse.com



Contact <u>suse-training@suse.com</u> with any questions.



☐ Overview of the Cluster Administration Tools

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		Introduction to Hawk
		Command Line Tools
		Configure and Synchronize files with csync2
	Section	7: Fencing Concepts and Configuration
		Overview of Split Brain in a Cluster
		Understand Fencing
		STONITH - Shoot the other Node in the Head
		Implement Fencing
□ Section 8: Deploy Additional Cluster Nodes		
		Prepare a System to become a Cluster Node
		Prepare the Cluster for the New Node
		Add a Node to the Cluster
		Update the Cluster Configuration

