TRENDS | Academy
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HAE311v15 SUSE Linux Enterprise 15 High Availability Deployment

Duration: 3 Days

Prerequisites:

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

Course Description:

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.

Target 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.

Course Outlines:

Section 1: Introduction
- ➢ Course Objectives and Audience
- ➢ Course Lab Environment Overview
- ➢ Certification Options
- ➢ Additional SUSE Training

Section 2: Introduction to the SUSE Linux Enterprise High Availability Extension
- ➢ 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 QNetd

Section 6: Introduction to the Cluster Administration Tools
- ➢ Overview of the Cluster Administration Tools
- ➢ 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

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