HAE321v15 SUSE Linux Enterprise 15 High Availability Operations

Duration: 4 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 provides students with the knowledge and skills to effectively administer the SUSE Linux Enterprise High Availability 15 product. Through this course, students will gain an understanding of the product's features and a high-level overview of its components. Configuring, testing, and managing clustered applications and storage will be covered in detail. Participants will gain an understanding of the maintenance modes available for cluster upkeep, followed by an exploration of the process for performing rolling software upgrades of both SLES and HA components.

This course prepares students for the SCE in SUSE Linux Enterprise 15 High Availability exam.

Target Audience:

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

Course Outlines:

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

Section 2: Introduction to 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

Section 3: Introduction to the Cluster Administration Tools
- Overview of the Cluster Administration Tools
- Introduction to Hawk2
- Command Line Tools
- Configure and Synchronize files with csync2

Section 4: Introduction to Cluster Resources
- Introduction to Cluster Resources
- Resource Agents
- Resource Types

Section 5: Introduction to Cluster Constraints
- Overview of Constraints
- Location Constraints
- Order Constraints
- Colocation Constraints

Section 6: Deploy and Configure Cluster Managed Storage
- Deploy and Configure Cluster Managed Storage
- Configure Lock Management for Shared Storage
- Deploy OCFS2
- Deploy Clustered LVM
- Deploy Clustered DRBD

Section 7: Deploy a Highly Available Workload
- Cluster NFS using DRBD Storage
- Test the Clustered NFS Configuration

Section 8: Maintenance Mode Options and Configuration
- Overview of Maintenance Mode
- Using Maintenance Mode
- Shutting Down the Cluster

Section 9: Update the Cluster Node Software
- Overview of the Update Process
- Deploy System Updates

Section 10: Introduction to Troubleshooting
- Overview of Troubleshooting a Cluster
- Preforming a Cluster Health Check
- Command Line Troubleshooting Tools
- Logs
- Cluster Startup Configuration