

Sun Cluster 3.2 Advanced Administration

Duration: 5 Days

What you will learn

The Sun Cluster 3.2 Advanced Administration course provides system administrators, database administrators, and support personnel with advanced configuration, maintenance, and troubleshooting skills and procedures for Sun Cluster 3.2. The course is intended for students who already have experience installing and configuring basic applications for Sun Cluster 3.2. The course begins with coverage of upgrades in the Sun Cluster environment. It then covers advanced data service configuration, and advanced procedures such as adding and deleting nodes. Students will get the opportunity to configure advanced features in the cluster such as shared QFS, telemetry, and automated resource management. Students will understand in detail the three models for managing zones in the Sun Cluster environment and will configure HA-Containers, cluster-controlled applications in zones, and zone clusters.

This course, while designed for Sun Cluster 3.2, does provide skills which are directly applicable to the administration of Oracle Solaris Cluster 3.3. Instructors are aware of the differences between SC 3.2 and SC 3.3 and highlight any differences throughout the course.

Students who can benefit from this course

System Administrators, database administrators, and support personnel with previous experience installing and configuring Sun Cluster 3.2 or Oracle Solaris Cluster 3.3.

Prerequisites

Required Prerequisites

System Administration for the Solaris 10 Operating System, Part 2 (SA-202-S10)

Veritas Storage Foundation 5.0 Administration (ES-3523)

Veritas Volume Manager 4.1 Administration (ES-311)

Suggested Prerequisites

Solaris Volume Manager Administration

Course Objectives

- Upgrade Solaris OS, Volume Manager and Sun Cluster Software using Live Upgrade and dual partition upgrade method
- Perform advanced data service configuration in Sun Cluster 3.2
- Add and delete nodes from a running cluster
- Perform disk replacement in a running cluster
- Administer failover QFS and shared QFS in Sun Cluster 3.2
- Distinguish between the three different models for managing zones in Sun Cluster 3.2
- Administer the HA-Containers feature (failover zones)
- Administer failover and scalable applications in Solaris zones in Sun Cluster 3.2

Configure and administer zone clusters

Understand Sun Cluster management of Oracle RAC and implement Oracle RAC in zone clusters

Course Topics

Upgrades in the Sun Cluster Environment

Describe high availability issues when performing upgrades in the Sun Cluster environment

Describe the required relationships for upgrading the Sun Cluster software

Describe the different upgrade strategies

Describe and perform an upgrade of the SolarisTOS using the Solaris Live Upgrade software

Upgrade the Veritas Volume Manager (VxVM) software into the Solaris Live Upgrade environment

Upgrading the Sun Cluster Software Software

Upgrade Sun Cluster software when not using Live Upgrade

Use the scinstall options that control the dual-partitioned upgrade method, when not using Live Upgrade

Use Live Upgrade to upgrade the Sun Cluster software

Upgrade resource types and resource

Configure storage options and best storage practices for Sun Cluster, including using ZFS for data and for root

Advanced Data Service Configuration

Understand Sun Cluster data services

Develop Sun Cluster 3.2 software data services using the builder applications and GDS

Control RGM behavior through resource group properties and resource properties

Use advanced resource group relationships

Tune multimaster and scalable applications

Performing Recovery and Maintenance Procedures

Add a new node to a running cluster

Remove a node from the cluster

Replace a failed node in the cluster

Uninstall the Sun Cluster 3.2 software from a node

Replace failed disks

Back up and restore the Cluster Configuration Repository (CCR)

Advanced Features

Understand the design and features of the QFS file system

Configure a standard QFS file system

Configure a shared QFS file system in the cluster using Solaris Volume Manager multiowner diskset devices

Configure the Sun Cluster telemetry feature

Configure automated Solaris Resource Management

Zone Features

List the three models for managing applications in zones in Sun Cluster 3

Configure the HA-containers feature (failover zones)

Configure failover and scalable applications in zones managed by standard Sun Cluster resources and resource types

Understand the zone cluster feature

Configure multiple zone clusters on the same physical cluster

Configure resource management with zone clusters

Configure and manage applications in zone cluster

Introduction to Oracle RAC Management and Oracle RAC in zone clusters

Understand Oracle RAC storage options

Configure Sun Cluster resources controlling Oracle RAC for different storage options

Configure and run Oracle RAC in zone clusters