

Oracle Solaris Cluster 4.x Administration Ed 4

Duration: 5 Days

What you will learn

The Oracle Solaris Cluster 4.x Administration Ed 4 course provides students with the essential information and skills needed to install and administer Oracle Solaris Cluster 4.3 hardware and software systems. Students are introduced to Oracle Solaris Cluster 4.3 hardware and software product features, hardware configuration, software installation along with configuration, data service configuration, and system operation. Students will get the opportunity to explore various use cases such as integrating Oracle database 12c as failover application, configuring Oracle Solaris cluster using unified archives.

Learn To:

Describe Oracle Solaris Cluster hardware and software.

Establish Cluster node console connectivity.

Prepare for the Oracle Solaris Cluster installation.

Configure the Oracle Solaris Cluster software.

Configure Oracle Solaris Cluster quorum devices and device fencing.

Use Cluster commands to administer global properties, quorum, disk paths, and interconnect components.

Configure volume management with ZFS and Solaris Volume Manager.

Manage the public network with IPMP and link aggregation (trunk aggregation or DLMP).

Describe resources and resource groups, configure a failover data service resource group (Network File System [NFS]), and configure a scalable data service resource group (Apache), Advanced Resource Group Relationships.

Configure solaris10 branded zone, kernel zones, build zone clusters, migrate scalable application from global zone to zone cluster.

Explore Oracle Solaris Cluster use cases.

Benefits to You

This course provides an intensive hands-on experience for key system administration tasks aimed at giving students experience installing, configuring, and managing an Oracle Solaris Cluster 4.3 environment. Students will get the opportunity to explore various use cases integrating Oracle database 12c as failover application, configuring Oracle Solaris cluster using unified archives.

Audience

Data Center Manager
System Administrator

Related Training

Required Prerequisites

Oracle Solaris 11 Advanced System Administration

Oracle Solaris 11 System Administration

Course Objectives

Establish Cluster Node console connectivity
Prepare for the Oracle Solaris Cluster installation
Configure the Oracle Solaris Cluster software
Configure Oracle Solaris Cluster quorum devices and device fencing
Configure solaris10 branded zone, kernel zones, build zone clusters, migrate scalable application from global zone to zone cluster
Explore Oracle Solaris Cluster use cases
Describe Oracle Solaris Cluster hardware and software
Configure a scalable data service resource group (Apache), Advanced Resource Group Relationships
Configure a failover data service resource group (Network File System [NFS])
Use Cluster commands to administer global properties, quorum, disk paths, and interconnect components
Configure volume management with ZFS and Solaris Volume Manager
Manage the public network with IPMP and link aggregation
Describe resources and resource groups

Course Topics

Introduction to the course

Overview
Course goals
Course agenda
Introduction
Your Learning Center

Introducing Oracle Solaris Cluster Hardware and Software

Describe the role of clustering as a high availability (HA) platform
Describe the Oracle Solaris Cluster hardware and software environment
Describe the types of applications supported by Oracle Solaris Cluster
Describe the Oracle Solaris Cluster software HA framework

Establishing Cluster Node Console Connectivity

Describe the different methods for accessing the cluster node console
Install the pconsole utility

Preparing for the Oracle Solaris Cluster Installation

Describe the guidelines for planning Oracle Solaris software installation in a cluster configuration
Describe the various cluster storage topologies
Describe the role of quorum devices and quorum votes
Describe persistent quorum reservations and cluster amnesia
Identify the cluster transport interconnects
Identify the public network adapters

Configuring the Oracle Solaris Cluster Software

Install the Oracle Solaris Cluster software
Configure the Oracle Solaris Cluster software

Describe sample cluster configuration scenarios
Perform quorum configuration
Perform post-installation verification

Administering Oracle Solaris Cluster

List commands for administering the cluster
Assign authorizations and privileges for administering the cluster
Administer Cluster Global Properties
Administer Cluster Nodes
Administer Quorum in a cluster configuration
Administer Disk Path Monitoring
Administer SCSI Protocol Settings of Storage Devices
Administer Cluster Interconnect components

Configuring Volume Management With ZFS

Build ZFS storage pools and file systems for cluster data
Create backups for cluster data with snapshots

Configuring Volume Management with Solaris Volume Manager

Describe the role of Solaris Volume Manager in disk space management
Manage shared disk sets in cluster environment
Build volumes in shared disk sets with soft partitions of mirrors
Create highly available file systems
Manage Solaris Volume Manager device group

Managing the Public Network

Manage the Public Network with IPMP
Manage the Public Network with Link aggregation

Managing Data Services, Resource Groups, and HA-NFS

Describe the Oracle Solaris Cluster data services
Describe the primary purpose of resources, resource groups and resource types
List the guidelines for using global and highly available local file systems
Describe standard, extension, and resource group properties
Configure resources and resource groups
Control the state of resources and resource groups manually

Configuring Scalable Services and Advanced Resource Group Relationships

Describe scalable services and shared addresses
Describe the properties of resource groups and scalable groups
Describe how the Shared Address resource works with scalable services
Review command examples for a scalable service
Control scalable resources and resource groups
Describe advanced resource group relationships

Configuring Oracle Solaris Zones in Oracle Solaris Cluster

Describe HA for zones
Configure a failover zone
Configure HA for Oracle Solaris kernel zones
Configure a zone cluster
Identify cross-cluster affinities and dependencies

Exploring Oracle Solaris Cluster Use Cases

Configure Oracle 12c as a failover application

Configure the Oracle Solaris Cluster using unified archive (demonstration)