

Oracle Solaris Cluster 4.x Administration Ed 3

Duration: 5 Days

What you will learn

This Oracle Solaris Cluster 4.x Administration Ed 3 training helps you develop the skills to install and administer Oracle Solaris Cluster 4.2 hardware and software systems. You'll get introduced to Oracle Solaris Cluster 4.2 hardware and software product features, hardware configuration, software installation along with configuration, data service configuration and system operation.

Learn To:

Introduce Oracle Solaris Cluster hardware and software.

Establish Cluster Node console connectivity.

Prepare for the Oracle Solaris Cluster installation.

Configure the Oracle Solaris Cluster software, 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.

Describe resources and resource groups.

Configure a failover data service resource group (Network File System [NFS]).

Configure a scalable data service resource group (Apache) and understand advanced resource group relationships.

Configure solaris10 branded zone and kernel zones.

Build zone clusters.

Migrate scalable applications from global zone to zone cluster.

Explore various Oracle Solaris Cluster use cases.

Benefits to You

By taking this course, you'll gain a deeper understanding of how to configure Oracle Solaris zones, failover Zones, Oracle Solaris Kernel Zones and create Zone Cluster in mission-critical applications on Oracle Solaris 11 cloud environments. Furthermore, you'll get the opportunity to explore various use cases while integrating Oracle database 12c as a failover application.

Participate in Hands-On Exercises

This course gives you intensive, hands-on experience performing key system administration tasks that include installing, configuring and managing an Oracle Solaris Cluster 4.2 environment. You'll also learn how to configure Oracle Solaris Cluster using unified archives through interactive, real-world exercises.

Audience

Data Center Manager

System Administrator

Related Training

Required Prerequisites

Administer the Oracle Solaris 10/11 Operating System

Manage file systems and local disk drives

Manage user administration

Perform system boot procedures

Oracle Solaris 11 System Administration Ed 3

Oracle Solaris 11 Advanced System Administration

Course Objectives

Describe the major Oracle Solaris Cluster hardware and software components and functions

Configure access to node consoles and the cluster console software

Install and configure the Oracle Solaris Cluster software

Configure Oracle Solaris Cluster quorum devices and device fencing

Configure and use ZFS in the Oracle Solaris Cluster software environment

Configure Solaris Volume Manager software in the Oracle Solaris Cluster software environment

Create Internet Protocol Multipathing (IPMP) failover groups in the Oracle Solaris Cluster software environment

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)

Configure solaris10 branded zone, build zone clusters, migrate scalable application from global zone to zone cluster, convert a scalable application to failover application in zone

Course Topics

Introduction to the course

Overview

Course goals

Course agenda

Introduction

Your Learning Center

Introducing Oracle Solaris Cluster Hardware and Software

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

Establishing Cluster Node Console Connectivity

- Describing the different methods for accessing the cluster node console
- Installing the pconsole utility

Preparing for the Oracle Solaris Cluster Installation

- Describing the guidelines for planning Oracle Solaris software installation in a cluster configuration
- Describing the various Cluster storage topologies
- Describing the role of quorum votes in initializing the cluster
- Describing persistent quorum reservations and cluster amnesia
- Identifying the cluster transport interconnects for configuring the cluster
- Identifying the public network interfaces for a cluster configuration
- Configuring Shared Physical Interconnects

Installing and Configuring the Oracle Solaris Cluster Software

- Installing the Oracle Solaris Cluster Software
- Configuring the Oracle Solaris Cluster Software
- Identify cluster configuration scenarios
- Performing Post-Install Verification

Administering Oracle Solaris Cluster

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

Configuring Volume Management With ZFS

- Building ZFS storage pools and file systems for cluster data
- Creating backups for cluster data with snapshots

Configuring Volume Management with Solaris Volume Manager

- Describing the role of Solaris Volume Manager in disk space management
- Managing shared disksets in cluster environment
- Build volumes in shared disk sets with soft partitions of mirrors
- Creating Global and Failover File System
- Performing Solaris Volume Manager device group management

Managing the Public Network With IPMP

- Explain the purpose of IPMP
- Integrating IPMP into the Oracle Solaris Cluster software environment
- Monitoring an IPMP group

Managing Data Services, Resource Groups, and HA-NFS

Describing the Oracle Solaris Cluster data services

Describing the primary purpose of resources, resource groups and resource types

Listing the guidelines for using global and highly available local file systems

Differentiating between standard, extension, and resource group properties

Configuring resources and resource groups

Controlling switching of resources and resource groups manually

Configuring Scalable Services and Advanced Resource Group Relationships

Describing the characteristics of scalable services

Describing the properties of resource groups and scalable groups

Describing how the SharedAddress resource works with scalable services

Reviewing command examples for a scalable service

Controlling Scalable Resources and Resource Groups

Describing Advanced Resource Group Relationships

Configuring Oracle Solaris Zones in Cluster

Describing HA for zones

Configuring a failover zone

Configuring HA for Oracle Solaris kernel zones

Configuring a Zone Cluster

Identifying Cross Cluster Affinities and Dependencies

Exploring Oracle Solaris Cluster Use Cases