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Cluster Management

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

Administer cluster global properties

Administer cluster nodes

Administer quorum in a cluster configuration

Administer disk path monitoring and SCSI protocol settings of storage devices

Administer cluster interconnect components

Use the clsetup command

Perform Cluster Operations

Configuring Volume Management With Oracle Solaris ZFS

Describe the role of ZFS in data management

Build ZFS storage pools and file systems

Use ZFS in the Oracle Solaris Cluster environment

Configuring Volume Management with Solaris Volume Manager

Describe the role of Solaris Volume Manager in disk space management

Manage shared disksets 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 SharedAddress 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 Oracle Solaris Zones

Describe HA for Solaris Zones

Configure a HA for Solaris Zones

Describe zone cluster

Configure a zone cluster

Exploring Oracle Solaris Cluster Use Cases

- Configure Oracle 12c as a failover application
- Configure the Oracle Solaris Cluster using unified archive (demonstration)