

OIT-SC4-A: Oracle Solaris Cluster 4.x Administration

Course Code: OIT-SC4-A

Duration: 5 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

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.

SKILLS COVERED

- 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.

- 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.

WHO SHOULD ATTEND?

- Manager
- Systems Administrator

PREREQUISITES

- Installing and configuring the Oracle Solaris 10/11 Operating System
- Updating and managing software packages
- Administering services and data storage
- Administering physical networks and zones
- Oracle Solaris 11 System Administration
- Oracle Solaris 11 Advanced System Administration

MODULES

Module 1: Introduction to the course

- Overview
- Course goals
- Course agenda
- Introduction
- Your Learning Center

Module 2: 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

Module 3: Establishing Cluster Node Console Connectivity

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

Module 4: 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

Module 5: 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

Module 6: 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 csetup command
- Perform Cluster Operations

Module 7: 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

Module 8: 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

Module 9: Managing the Public Network

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

Module 10: 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

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Module 11: 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

Module 12: 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

Module 13: Exploring Oracle Solaris Cluster Use Cases

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