Oracle Solaris 11 Zones Administration Ed 3

Duration: 4 Days

What you will learn

The Oracle Solaris 11 Zones Administration training is an advanced course offering that builds on Oracle Solaris 11 system administration courses. Expert Oracle University instructors will help you develop the skills and knowledge required to administer Oracle Solaris Zones server virtualization technology.

Learn To:

Plan infrastructure consolidation using zone.

Configure nonglobal zones including: solaris native zones, solaris10 zones, and kernel zones.

Administer zones.

Migrate global and nonglobal zones.

Manage zone resources including: CPUs, memory, networks, and storage.

Optimize zones.

Troubleshoot zone problems.

Benefits to You

By taking this course, you'll get a chance to examine various aspects of planning for implementing server virtualization in an enterprise environment. Throughout the course, you'll practice server virtualization by performing a series of guided hands-on labs that walk you through the critical tasks associated with server and network virtualization activities.

Participate in Hands-On Labs

These labs include case studies that showcase best practices when deploying Oracle Solaris Zones server virtualization technology. This course does not address system virtualization related tasks specific to Solaris 10 (or other) operating systems. Rather, it focuses on the
virtualization technology as implemented in the Oracle Solaris 11 operating system.

Required Prerequisite Knowledge

This course is intended for IT architects and system administrators who are responsible for planning and performing server virtualization tasks in the datacenter. It assumes you already have the skills and knowledge necessary to administer Oracle Solaris 11.

Audience
Architect
Sales Consultants

Support Engineer
System Administrator

Course Objectives
Develop plans for deploying Oracle Solaris Zones server virtualization technology

Identify best practices associated with Oracle Solaris Zones server virtualization technology

Configure and deploy Oracle Solaris Zones server virtualization

Administer Oracle Solaris Zones

Monitor Oracle Solaris Zones resource utilization

Tune Oracle Solaris Zones for best performance

Troubleshoot problems related to Oracle Solaris Zones

Course Topics

Introduction
Overview
Course Goals
Course Agenda
Introductions
Your Learning Center

Introducing the Oracle Solaris 11 Virtualization Technologies
Introducing the Oracle Solaris 11 Virtualization Technologies
Virtualization Technologies
Oracle Solaris 11 Virtualization Technologies
Virtualizing the Cloud

Introduction to Oracle Solaris Zones
Introduction to Oracle Solaris Zones
Oracle Solaris Zones Architectural Overview
Oracle Solaris Zones States
Planning Oracle Solaris Zones

Configuring Oracle Solaris Zones

Non-global Zone Configuration Methods
Zone Configuration Tools
Zone Configuration Components
Zone Template Properties
Configuring Non-global Zones on a Local Host
Solaris Kernel Zones
Configuring a Non-Global Zone - Remote Host
Immutable Global Zones

Deploying Zones Using Automatic Installation

Installing a Zone Using AI
How AI Works
Zone Configuration File and Zone AI Manifest
Configuring AI for Zone Installation Walkthrough
Deploying the Zone

Migrating Oracle Solaris Systems and Zones

Oracle Solaris Migration: Introduction
The zonep2vchk Tool
Using zonep2vchk to Create a Zone Configuration
Migrating Solaris 11 Zones (V2V)
Migrating Solaris 11 Global Zones (P2V)
Migrating Kernel Zones
The solaris10 Branded Zone
Zones on Shared Storage (ZOSS)

Administering Oracle Solaris Zones

Managing Zone Services
Package Management in Non-Global Zones
Cloning and Moving Non-Global Zones
Using a Unified Archive to Clone a Zone
Backing Up and Restoring Zone
Using a Unified Archive to Backup and Restore a Zone

Administering Zone Networks

Network Virtualization and Consolidation
Building a Simple Virtual Network
Configuring a Private Virtual Network
Bandwidth Management
IP Multipathing (IPMP) in Zones

Managing Zone Resources

Introduction to Resource Management
Live Zone Reconfiguration
Projects and Tasks
Fair Share Scheduler (FSS)
Resource Pools
Resource Capping
Live Zone Reconfiguration

Monitoring and Tuning Oracle Solaris Zone Environments

Introduction to Oracle Solaris Zone Monitoring

Extended Accounting Facility

The zonestat Utility

Troubleshooting Zones