

Oracle Solaris 11 Zones Administration

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 data center. It assumes you already have the skills and knowledge necessary to administer Oracle Solaris 11.

Audience

Administrator

End User

System Integrator

Systems Administrator

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

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