

Zones Administration on Oracle Solaris 11 (D93397)

ID D93397 Preis 4.025,- € (exkl. MwSt.) Dauer 5 Tage

Kursüberblick

This is an advanced course offering that builds on Oracle Solaris 11 system administration courses. It is focused on the skills and knowledge required for administering Oracle Solaris Zones server virtualization technology. This course is intended for IT architects and system administrators who are responsible for planning and performing server virtualization tasks in the datacenter.

This course is intended for System Administrators and IT architects who are responsible for deploying the Oracle Solaris operating system in zone-based virtual machines. Throughout the course, students perform a series of guided hands-on labs, based on established best practices that walk the student through the critical tasks associated with infrastructure consolidation and workload administration activities using Oracle Solaris Zones.

Learn To:

- Plan infrastructure consolidation using zones.
- Configure non-global zones including: Oracle Solaris native zones, Oracle Solaris 10 zones, and kernel zones.
- Administer zones.
- Migrate global and non-global zones
- Manage zone resources including: CPUs, memory, networks, and storage.
- Optimize zones for best workload performance.
- Troubleshoot zone problems.

Benefits To You

During this course, the student examines various aspects of planning for implementing server virtualization in an enterprise environment. Throughout the course, students practice server virtualization by performing a series of guided

hands-on labs that walk the student through the critical tasks associated with server and network virtualization activities. 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. It is assumed that the student already has the skills and knowledge necessary for administering Oracle Solaris 11.

Zielgruppe

- System Administrator
- Support Engineer
- Technical Consultant

Voraussetzungen

- [Oracle Solaris 11 System Administration \(D72896\)](#)
- [Oracle Solaris 11 Advanced System Administration \(D72965\)](#)

Kursziele

- 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
- Configure, deploy, and manage Kernel Zones
- Administer Oracle Solaris Zones
- Monitor Oracle Solaris Zones resource utilization
- Tune Oracle Solaris Zones for best performance

- Troubleshoot problems related to Oracle Solaris Zones

Kursinhalt

- Introduction
- Introduction to Oracle Solaris Zones
- Configuring Oracle Solaris Zones
- Deploying Oracle Solaris Zones using Automatic Installation (AI)
- Migrating Oracle Solaris 10 Systems and Native Zones
- Administering Oracle Solaris Zones
- Administering Zone Networks
- Configuring Oracle Solaris Kernel Zones
- Optimizing Workloads by Managing Resources
- Monitoring and Troubleshooting Oracle Solaris Zone

Detaillierter Kursinhalt

Introduction

- Overview
- Course Goals
- Course Agenda
- Introductions
- Your Learning Center

Introduction to Oracle Solaris Zones

- Introduction to Oracle Solaris Zones
- Oracle Solaris Zones Architectural Overview
- Characteristics of combined virtualization models
- 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
- Immutable Global Zones
- Immutable Non-Global Zones
- Startup and shutdown non - global zones

Deploying Oracle Solaris Zones using

Automatic Installation (AI)

- Configuring Zones for AI Deployment
- Deploy Zone Using AI

Migrating Oracle Solaris 10 Systems and Native Zones

- Solaris10 Branded Zones
- Migrating an Oracle Solaris 10 System
- Migrating an Oracle Solaris 10 Native Zone
- Installing Non-global Zones on Shared Storage (ZOSS)
- Migrating a non-global zone in a ZOSS configuration
- Migrating a Kernel Zone

Administering Oracle Solaris Zones

- Managing Zone Services
- Managing Zone Storage
- Managing Zone Networks
- Managing Zone Packages
- 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

- Zone Network Resources and Properties
- Network Virtualization
- Consolidating Networks Using Network Virtualization
- Using Network Flow Control in a Zone
- IP - Mulpipathing in a Zone

Configuring Oracle Solaris Kernel Zones

- Non-global Zone Configuration Methods
- Kernel Zone hardware and software requirements
- Kernel Zones Architecture
- Configuring Kernel Zones
- Kernel Zones Resources
- Verified boot policy
- Deploying a Kernel Zone
- Suspending and Resuming Kernel Zones

Optimizing Workloads by Managing Resources

- Introduction t o Resource Management
- Live Zone Reconfiguration

- Projects and Tasks
- Fair Share Scheduler (FSS)
- Resource Pools
- Resource Capping

Monitoring and Troubleshooting Oracle Solaris Zone

- Introduction to Oracle Solaris Zone
Monitoring
- Extended Accounting Facility
- Monitoring Zone Resource Consumption
- Monitoring Workloads
- Tune Oracle Solaris Zones
- Zone Troubleshooting