Oracle VM Server for SPARC: Installation and Configuration

Duration: 2 Days

What you will learn

The Oracle VM Server for SPARC: Installation and Configuration course teaches you to effectively implement the infrastructure for cloud computing using a SPARC-based virtualization strategy. Learn through classroom instruction and hands-on exercises, which reinforce new concepts.

Learn To:

Properly design, install, implement and administer this virtual environment.
Create and assign resources to domains where business applications are deployed.
Use the migration feature, which increases availability and adds flexibility to the data center virtual environment.

Allocate System Resources

Oracle VM Server for SPARC allows for the allocation of system resources to individual virtual machines, called domains. This creates a completely virtualized environment, which provides greater consolidation and use of resources.

Audience

Support Engineer
System Administrator
System Integrator
Technical Administrator
Technical Consultant

Related Training

Required Prerequisites

Administer Ethernet networks

Administer an Oracle Solaris OS

Perform basic server initial setup tasks

Suggested Prerequisites
Oracle Solaris 11 System Administration Ed 3

Oracle Solaris 11 System Administration Ed 4 NEW

Some knowledge of virtualization concepts

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Course Objectives

Plan an Oracle VM Server for SPARC installation

Install the Oracle VM Server for SPARC software

Configure the control and service domain

Create a guest domain

Reconfigure Oracle VM Server for SPARC resources

Use virtual disks

Use virtual networks

Manage Oracle VM Server for SPARC configurations

Prepare for and perform migration operations

Course Topics

Introduction to Oracle VM Server for SPARC
What is Oracle VM Server for SPARC?
Oracle's Virtualization Strategy
Oracle VM Server for SPARC Architecture
Oracle VM Server for SPARC Benefits

Planning and Installing the Logical Domains Software
Planning for Oracle VM Server for SPARC
Working with SPARC T-Series Servers
CPU and Memory Sizing Guidelines
Upgrading System Firmware
Upgrading Oracle VM Server for SPARC Software
The ldm Command

Configuring the Control and Service Domain
Typical Basic Configurations
Virtualized Devices and Virtual Services
Control Domain Resource Allocation
Logical Domains Configurations

Creating Guest Domains
Creating a Guest Domain
Binding and Starting a Guest Domain
Installing Oracle Solaris in a Guest Domain
Verifying a Guest Domain Configuration
Accessing a Guest Domain's Console

Performing Logical Domains Administration
Dynamic Reconfiguration of Logical Domain Resources

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Core Affinity
Using Virtual Disks
Virtual Disk Back End Options
Provisioning New Domains with ZFS Snapshots and Clones
Using Virtual Networks
VLAN Support for Virtual Networks
Link Aggregation and Jumbo Frames for Virtual Networks

Migrating Logical Domains
Migration Requirements and Restrictions
Migration Types
Migration Phases
Migration Dry Run
Live Migration
Cross-CPU Live Migration
Cold Migration
Non-Interactive Migration

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