

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

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 Idm 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 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