

Oracle vm Server for SPARC: Installation and Configuration Ed 2

Duración

Días: 3 Días

Horas: 18 horas

Descripción

The Oracle VM Server for SPARC: Installation and Configuration course teaches practical skills for building and managing virtual environments, based on scalable and dynamic resource management using Oracle SPARC server virtualization technology.

Objetivos

1. Use virtual networks
2. Use virtual disks
3. Reconfigure server resources for logical domains
4. Assign I/O resources using Direct I/O
5. Create an I/O domain using SR-IOV
6. Create a root domain
7. Install Oracle Solaris using an AI Server
8. Create a guest domain
9. Configure control and service domains
10. Implement VLAN and Port VLAN based switching
11. Manage logical domain configurations
12. Perform live migration operations
13. Perform non interactive migration operations
14. Use ZFS backends
15. Plan an Oracle VM Server for SPARC installation

Qué aprenderá

- ✓ Build scalable logical domain based virtual environments.
- ✓ Assign dedicated and shared resources to domains.
- ✓ Administer server resources for logical domains running business applications.
- ✓ Create root and I/O domains to increase performance for business critical applications.
- ✓ Increase availability and flexibility for virtual environments with live migration.

A quién se dirige

- ✓ Cloud Administrator
- ✓ Data Center Manager
- ✓ System Administrator
- ✓ System Integrator
- ✓ Systems Architects
- ✓ Technical Consultant

Beneficios para usted

Oracle VM Server for SPARC provides efficient, enterprise class virtualization for the Oracle SPARC server platform running Oracle Solaris operating system.

Using the Oracle SPARC hypervisor to create hardware partitioned logical domains, you are able to efficiently build and manage up to 128 hardware independent virtual environments on a single server. By learning to create the various types of logical domains, implementing native and virtualized access to I/O hardware for domains running business critical applications is made easy.

You will be shown how to maximize workload efficiency by effectively administering the platform resources and taking advantage of the massive CPU core and thread scale offered by Oracle SPARC servers.

Requisitos

Required Prerequisites

- ✓ Install and administer an Oracle Solaris OS
- ✓ Knowledge of virtualization concepts
- ✓ Perform basic Oracle SPARC server initial setup tasks
- ✓ Understand basic storage concepts

Suggested Prerequisites

- ✓ Administer Ethernet networks
- ✓ Configure basic IP networks
- ✓ Oracle Solaris 11 System Administration Ed 5
- ✓ SPARC M-series Administration
- ✓ UNIX and Linux Essentials

Contenido

1. Introduction to Oracle VM Server for SPARC
 - ✓ Oracle's Virtualization Strategy
 - ✓ Oracle VM Server for SPARC Architecture
 - ✓ Oracle VM Server for SPARC Benefits
2. Planning and Installing the Oracle VM Server for SPARC 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

3. Configuring the Control and Service Domain
 - ✓ Typical Basic Configurations
 - ✓ Virtualized Devices and Virtual Services
 - ✓ Control Domain Resource Allocation
 - ✓ Managing Control Domain Configurations
4. 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
5. Building I/O and Root Domains
 - ✓ I/O Domain Overview
 - ✓ Root Domains
 - ✓ I/O Domain with PCIe SR-IOV Virtual Functions
 - ✓ I/O Domains using Direct I/O
6. Performing Logical Domains Administration
 - ✓ Dynamic Reconfiguration of Logical Domain Resources
 - ✓ 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
7. Migrating Logical Domains
 - ✓ Migration Requirements and Restrictions
 - ✓ Migration Types and Phases
 - ✓ Migration Dry Run Live
 - ✓ Migration Cross-CPU
 - ✓ Live Migration
 - ✓ Cross-CPU Live Migration
 - ✓ Cold Migration
 - ✓ Non-Interactive Migration