

Oracle VM Server for x86: Administration Ed 1 NEW

Duration: 3 Days

What you will learn

This Oracle VM Server for x86: Administration course explores building the infrastructure for cloud computing. Expert Oracle University instructors will show you how to support enterprise applications by deploying pooled server resources to create virtual machines.

Learn To:

Plan a virtual solution.

Install the Oracle VM Server and the Oracle VM Manager software.

Configure network resources to provide isolation and redundancy.

Add SAN and NFS to provision storage for the virtual environment.

Create server pools and repositories to support application workloads.

Speed up virtual machine deployment with templates and assemblies.

Use virtual machine high availability.

Use server pool policies to maximize the performance of your server workloads.

Benefits to You

Using the Oracle VM application-driven architecture is different from using traditional virtualization. Built with the application stack and manageability in mind, Oracle VM offers a complete lifecycle compute stack virtualization. This course will help you consolidate the server foot print, while acquiring the tools to deploy or consolidate application workloads to a virtualized environment or migrate to a private cloud.

Learn Ease of Deployment and Management

Built to support all different workloads, with a specific emphasis on ease of deployment and management of Oracle applications, you'll also learn to create server pools to take advantage of your existing storage and networking infrastructure. This will seamlessly manage storage from a central location using Oracle VM Storage Connect. Using features like anti-affinity groups and Dynamic Resource Scheduling policy, you'll implement and manage the inter-connections between the virtual machines running your multi-tier enterprise applications.

Gain Hands-On Experience

Extensive hands-on practices will guide you through each step for building your virtual environment. With the skills acquired during these exercises, you can scale your virtual environment to support the most demanding workloads.

Audience

Architect

Support Engineer

System Administrator
Technical Administrator

Related Training

Required Prerequisites

Ability to administer a Linux environment and implement a virtual infrastructure using any virtualization platform

Suggested Prerequisites

Familiarity with link aggregation and VLAN technologies

Familiarity with networking principles

Familiarity with storage concepts: iSCSI, NFS, FC

Familiarity with thin provisioning

Course Objectives

Install the Oracle VM Server for x86 and the Oracle VM Manager

Become familiar with the Oracle VM Manager UI and CLI

Discover and manage Oracle VM servers

Add networks and storage to support the Oracle VM environment

Create and manage server pools

Create and populate repositories with virtual resources

Perform the steps to create and operate virtual machines

Use cloning with templates and assemblies to create additional virtual entities

Exercise high availability, live migration and anti-affinity policy

Course Topics

Introducing Oracle VM with Oracle VM Server for x86

Benefits of Server Virtualization

Oracle VM within Server Virtualization Landscape

Components of Oracle VM

Features of Oracle VM

Benefits of Oracle VM

Planning and Installation

Installation Planning

Hardware and Software Requirements
Network and Storage Planning
Installation Options and Processes
Post Installation Tasks
Upgrade of Oracle VM Server for x86

Managing Servers and Networks

Discovering Oracle VM Servers
Managing Oracle VM Servers
Understanding Network Functions
Creating Network Bonds, VLANs, VLAN Groups
Creating and Managing Networks

Managing Storage

Storage Types and Functions
Storage Connect Framework
File Server and SAN Server Discovery
Managing Storage Elements
Physical Disks Creation and Cloning

Server Pools and Repositories

Server Pool Functions and Policies
Distributed Resource Scheduling and Dynamic Power Management
Server Pool Design
Creating Server Pools
Anti-Affinity Groups
Creating Repositories
Populating Repositories
Cloning Virtual Disks

Managing Virtual Machines

Virtual Machine Components
PVM and HVM Guests
Installing Guest Operating Systems
Use of Templates and Assemblies
Cloning of Virtual Machines and Templates
High Availability Feature
Virtual Machine Console
Migrating Virtual Machines