

Oracle VM Server for x86: Administration Ed 2

Duration: 3 Days

What you will learn

The Oracle VM Server for x86: Administration course explores building the infrastructure for open 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 for x86 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 virtual appliances.

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 delivers the skill to 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 open cloud infrastructure.

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

Administrator
Architect
Support Engineer
System Administrator
Technical Administrator
Web 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

Use cloning with templates to create additional virtual entities

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

Exercise high availability, live migration and anti-affinity policy

Explore and use 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

Course Topics

Introducing Oracle VM with Oracle VM Server for x86

What is Server Virtualization

Advantages and Challenges of Server Virtualization

Oracle VM within Server Virtualization Landscape

Components and architecture 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

Postinstallation Tasks

Upgrading Oracle VM Server for x86 Servers

Managing Servers and Networks

Discovering Oracle VM Servers

Managing Oracle VM Servers

Understanding Network Functions

Creating Network Bonds, VLANs, VLAN Interfaces

Creating and Managing Networks

Managing Storage

Storage Types and Functions

Storage Connect Framework

Discovering File Server and SAN Server

Managing Storage Elements

Creating and Cloning Physical Disks

Server Pools and Repositories

Server Pool Functions and Policies

Distributed Resource Scheduling and Dynamic Power Management

Server Pool Design

Creating Server Pools

Creating and Populating Repositories

Cloning Virtual Disks

Managing Virtual Machines

Virtual Machine Components

PVM and HVM Guests

Installing Guest Operating Systems

Speeding Deployment with Templates and Virtual Appliances

Cloning of Virtual Machines and Templates

High Availability Feature

Virtual Machine Console

Migrating Virtual Machines and using Anti-Affinity Groups