

Oracle VM Administration: Oracle VM Server for x86

Duration: 3 Days

What you will learn

This course teaches students how to build a virtualization platform using the Oracle VM Manager and Oracle VM Server for x86. Students learn how to deploy and manage highly configurable, inter-connected virtual machines. The course teaches students how to install and configure Oracle VM Server for x86 as well as details of network and storage configuration, pool and repository creation, and virtual machine management.

Learn To:

Carry out the installation, and configure networking and storage to support the creation of virtual machines

Create and implement a design for servers pools to support the needs of business applications

Select the best way to create virtual machines based on current or desired machine configuration requirements

Use the tools and policies available with Oracle VM to operate, automate, and optimize resources

Plan for the installation of Oracle VM with Oracle VM Server for x86

Audience

Data Center Manager

System Administrator

Related Training

Required Prerequisites

Students should be able to administer a Linux environment and implement a virtual infrastructure

Suggested Prerequisites

Familiarity with networking principles, including VLAN

Familiarity with storage concepts including iSCSI, NFS, FC

Course Objectives

Install Oracle VM Server for x86 and Oracle VM Manager

Perform network configuration for the Oracle VM environment using Oracle VM Manager

Perform storage configuration, with NFS and iSCSI, using Oracle VM Manager

Create a server pool and add Oracle VM Servers to this pool

Create repositories, present them to the Oracle VM Servers, and add resources to these repositories

Prepare virtual disks and network interfaces for virtual machines

Create virtual machines using various methodologies

Manage the virtual machines' lifecycle; Start/stop, pause/resume, edit, migrate

Use simple and advanced cloning to create new virtual machines

Become familiar with the Oracle VM Manager Policies and Events

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

Enhancements of Oracle VM

Planning and Installation

Planning Installation

Hardware and Software Requirements

Network and Storage Planning

Installation 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 Storage Array Registration

Managing Storage Elements

Physical Disks Creation and Cloning

Server Pools and Repositories

Server Pool Functions and Policies

Server Pool design

Creating Server Pools

Creating Repositories

Populating Repositories

Managing Virtual Machines

Virtual Machine Components

Virtual Machine Creation

Install of Guest operating systems

Use of Templates and Assemblies

Cloning of Virtual Machines and Templates

Access and Management of Virtual Machines