This document introduces Oracle VM and gives you a high level overview of how to download and install the software, and how to create a virtual machine. This document contains:

- Introduction to Oracle VM
- Preinstallation Tasks and Requirements
- Installing Oracle VM Server
- Installing Oracle VM Manager
- Adding the Oracle VM Server to Oracle VM Manager
- Creating a Virtual Machine
- Related Documents
- Documentation Accessibility

1 Introduction to Oracle VM

Oracle VM is a platform that provides a fully equipped environment for better leveraging the benefits of virtualization technology. Oracle VM enables you to deploy operating systems and application software within a supported virtualization environment. The components of Oracle VM are:

- **Oracle VM Manager**: Provides the user interface, which is a standard ADF (Application Development Framework) web application, to manage Oracle VM Servers. Manages virtual machine lifecycle, including creating virtual machines from installation media or from a virtual machine template, deleting, powering off, uploading, deployment and live migration of virtual machines. Manages resources, including ISO files, virtual machine templates and sharable hard disks.

- **Oracle VM Server**: A self-contained virtualization environment designed to provide a lightweight, secure, server-based platform for running virtual machines. Oracle VM Server is based upon an updated version of the underlying Xen hypervisor technology, and includes Oracle VM Agent.

- **Oracle VM Agent**: Installed with Oracle VM Server. It communicates with Oracle VM Manager for management of virtual machines.

Figure 1, "Oracle VM Architecture" shows the components of Oracle VM.
2 Preinstallation Tasks and Requirements

Before you start the Oracle VM installation, make sure your computer meets the minimum hardware and software requirements. This section contains:

- Downloading Oracle VM
- Hardware Requirements

2.1 Downloading Oracle VM

If you do not already have the Oracle VM software CDs, download them from:

http://www.oracle.com/virtualization

The two ISO files you should download are:

- Oracle VM Server
- Oracle VM Manager

Burn the Oracle VM Server ISO file to a bootable CD.
Burn the Oracle VM Manager ISO file to a CD.

2.2 Hardware Requirements

You need two computers with static IP addresses to install Oracle VM:

- One clean computer to install Oracle VM Server
- One computer to install Oracle VM Manager with one of the following operating systems installed:
  - Oracle Enterprise Linux Release 4 Update 5 or later
- Red Hat Enterprise Linux Release 4 or later

See the Oracle VM Server Release Notes and the Oracle VM Manager Release Notes for detailed information on hardware requirements.

3 Installing Oracle VM Server

Installing Oracle VM Server deletes any previous operating system and data on the computer. To install Oracle VM Server:

1. Boot the computer on which you want to Oracle VM Server with your Oracle VM Server CD.
2. At the boot prompt, press Enter.
3. Follow the prompts to install Oracle VM Server.
4. Log into Oracle VM Server as root with the password you set during the installation.

See the Oracle VM Server Installation Guide for detailed information on installing Oracle VM Server.

4 Installing Oracle VM Manager

To install Oracle VM Manager:

1. Start up the operating system on the computer on which you want to install Oracle VM Manager.
2. Insert and mount the Oracle VM Manager CD.
3. As root start the Oracle VM Manager installation script:
   
   sh runInstaller.sh

4. Follow the prompts to install Oracle VM Manager.

See the Oracle VM Manager Installation Guide for detailed information on installing Oracle VM Manager.

5 Adding the Oracle VM Server to Oracle VM Manager

You can use Oracle VM Manager to create and manage virtual machines on Oracle VM Server. To create a virtual machine using Oracle VM Manager, you must first set up a Server Pool containing a Server Pool Master, a Utility Server and a Virtual Machine Server. To do this, you must complete the following steps:

1. Open a web browser and log into the Oracle VM Manager web interface. Use the default administrator username admin with the password you set during the installation. The URL is:

   http://hostname:8888/OVS

   hostname is the name or IP address of the Oracle VM Manager host computer.
2. Create a Server Pool.
3. Add the Oracle VM Server to the Server Pool. Select whether the Oracle VM Server is to be used as a Server Pool Master, a Utility Server, and/or a Virtual Machine Server.
4. Upload any existing virtual machines as virtual machine templates.
5. Upload any operating system ISO files as installation media.
See the Oracle VM Manager User’s Guide for more detailed information.

6 Creating a Virtual Machine

Create a virtual machine, either as a paravirtualized guest or as a hardware virtualized guest. Create virtual machines using the Oracle VM Server command-line tool, virt-install, or using Oracle VM Manager. There are a number of ways to create a virtual machine using Oracle VM Manager:

- Using a virtual machine template
- Using installation media
- Importing a virtual machine


7 Related Documents

For more detailed information, see the following documents in the Oracle VM Release 2.1 documentation set:

- Oracle VM Server Release Notes
- Oracle VM Server Installation Guide
- Oracle VM Server User’s Guide
- Oracle VM Manager Release Notes
- Oracle VM Manager Installation Guide
- Oracle VM Manager User’s Guide
- Oracle VM Managing Oracle Enterprise Linux with Oracle Enterprise Manager 10g Grid Control Guide for Linux

8 Documentation Accessibility

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