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Install Oracle Application on VMWARE using Oracle Enterprise Linux 4 update 5

High Level Steps

- 1> Download Oracle Enterprise Linux 4 update 5
- 2> Download R12
- 3> Install VMWARE
- 4> Install R12

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1> Download Oracle Enterprise Linux 4 update 5 from the below site

<http://edelivery.oracle.com/linux>

Select a Product Pack
 Platform

Results

Select	Description	Release	Part Number	Updated	# Parts / Size
<input type="radio"/>	Enterprise Linux Release 5 Update 2 Media Pack for x86 (32 bit)	5.2.0.0.0	B50306-01	JUN-10-2008	9 / 4.9G
<input type="radio"/>	Enterprise Linux Release 5 Update 1 Media Pack for x86 (32 bit)	5.1.0.0.0	B36949-01	DEC-03-2007	9 / 4.8G
<input type="radio"/>	Enterprise Linux Release 5 Media Pack for x86 (32 bit)	5.0.0.0.0	B36437-01	JUN-20-2007	9 / 4.7G
<input type="radio"/>	Enterprise Linux Release 4 Update 7 Media Pack for x86 (32 bit)	4.7.0.0.0	B51013-01	AUG-10-2008	10 / 9.1G
<input type="radio"/>	Enterprise Linux Release 4 Update 6 Media Pack for x86 (32 bit)	4.6.0.0.0	B36970-02	APR-28-2008	8 / 4.5G
<input checked="" type="radio"/>	Enterprise Linux 4 Update 5 (New License) Media Pack for x86 (32 bit)	4.5.0.0.1	B36565-01	JUL-24-2007	8 / 4.3G
<input type="radio"/>	Enterprise Linux 4 Update 5 Media Pack for x86 (32 bit)	4.5.0.0.0	B36319-02	MAY-15-2007	8 / 4.3G
<input type="radio"/>	Enterprise Linux 4 Update 4 Media Pack for x86 (32 bit)	4.4.0.0.0	V10150-01	JUN-21-2007	8 / 4.2G

Enterprise Linux 4 Update 5 (New License) Media Pack v1 for x86 (32 bit)

Select	Name	Part Number	Size (Bytes)
<input type="button" value="Download"/>	Enterprise Linux 4 Update 5 for x86 (Part 1 of 4)	V10926-01 Part 1 of 4	572M
<input type="button" value="Download"/>	Enterprise Linux 4 Update 5 for x86 (Part 2 of 4)	V10926-01 Part 2 of 4	619M
<input type="button" value="Download"/>	Enterprise Linux 4 Update 5 for x86 (Part 3 of 4)	V10926-01 Part 3 of 4	621M
<input type="button" value="Download"/>	Enterprise Linux 4 Update 5 for x86 (Part 4 of 4)	V10926-01 Part 4 of 4	269M

Note: unzip the files the extension will be ISO, you need to burn them using the image option available with your cd-writer software

Refer: http://www.petri.co.il/how_to_write_iso_files_to_cd.htm

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Download R12 from the below site
<http://edelivery.oracle.com/>

The below example shows files required for R12

Select a Product Pack ⓘ

Platform

Results

Select	Description	Release	Part Number	Updated	# Parts / Size
<input type="radio"/>	Oracle Advance Planning 12.1 Feature Media Pack for Linux x86	12.1.0.0.0	B37443-01	MAY-13-2008	2 / 2.3G
<input checked="" type="radio"/>	Oracle E-Business Suite Applications Release 12.0.4 Media Pack for Linux x86	12.0.4.0.0	B37230-03	SEP-17-2008	55 / 51G
<input type="radio"/>	Oracle E-Business Suite Applications Release 12.0.4 (with NLS Supplement) Media Pack for Linux x86	12.0.4.0.0	B37236-03	SEP-17-2008	84 / 69G
<input type="radio"/>	Oracle E-Business Suite Applications Release 12.0 Media Pack for Linux x86	12.0.0.0.0	B35903-06	APR-01-2008	90 / 48G
<input type="radio"/>	Oracle® E-Business Suite Applications Release 12.0 (with NLS Supplement)	12.0.0.0.0	B35923-06	APR-01-2008	119 / 66G

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Select	Name	Part Number	Size (Bytes)
Download	Oracle Applications Release 12.0.4 Rapid Install Start Here	V11935-01	721M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install RDBMS - Disk 1 (Part 1 of 2)	V11934-01 Part 1 of 2	1.2G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install RDBMS - Disk 1 (Part 2 of 2)	V11934-01 Part 2 of 2	1.3G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 1 (Part 1 of 3)	V11923-01 Part 1 of 3	1.7G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 1 (Part 2 of 3)	V11923-01 Part 2 of 3	1.5G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 1 (Part 3 of 3)	V11923-01 Part 3 of 3	502M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 2 (Part 1 of 3)	V11924-01 Part 1 of 3	1.8G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 2 (Part 2 of 3)	V11924-01 Part 2 of 3	1.7G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 2 (Part 3 of 3)	V11924-01 Part 3 of 3	554M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 3 (Part 1 of 3)	V11925-01 Part 1 of 3	1.6G

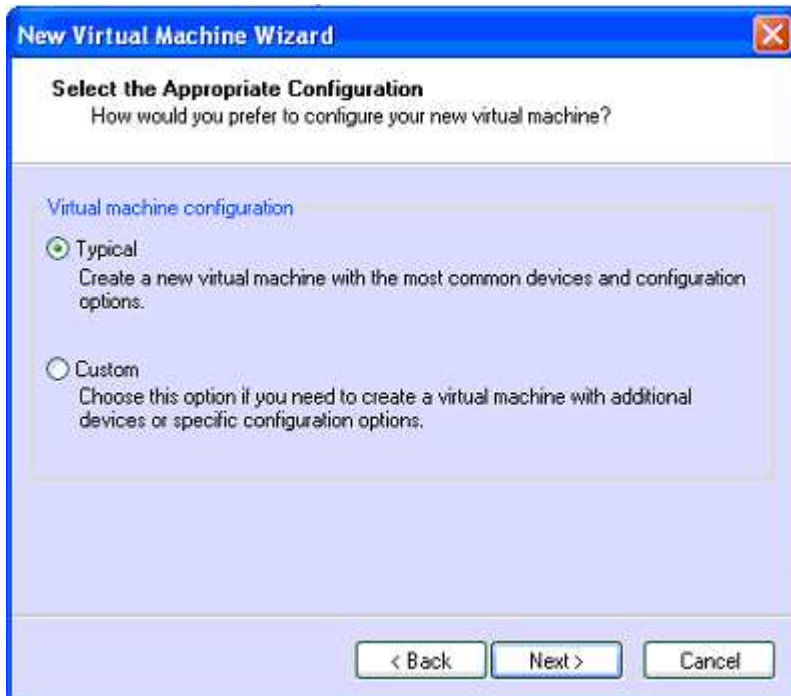
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Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 3 (Part 2 of 3)	V11925-01 Part 2 of 3	1.5G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 3 (Part 3 of 3)	V11925-01 Part 3 of 3	604M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 4 (Part 1 of 3)	V11926-01 Part 1 of 3	1.6G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 4 (Part 2 of 3)	V11926-01 Part 2 of 3	1.7G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 4 (Part 3 of 3)	V11926-01 Part 3 of 3	372M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 5 (Part 1 of 3)	V11927-01 Part 1 of 3	1.5G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 5 (Part 2 of 3)	V11927-01 Part 2 of 3	1.5G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 5 (Part 3 of 3)	V11927-01 Part 3 of 3	572M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 6	V11928-01	827M
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 7 (Part 1 of 3)	V11929-01 Part 1 of 3	1.6G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 7 (Part 2 of 3)	V11929-01 Part 2 of 3	1.3G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 7 (Part 3 of 3)	V11929-01 Part 3 of 3	1.1G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Databases - Disk 8	V11930-01	1.1G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install Tools - Disk 1	V11933-01	1.3G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install APPL_TOP - Disk 1 (Part 1 of 3)	V11931-01 Part 1 of 3	1.5G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install APPL_TOP - Disk 1 (Part 2 of 3)	V11931-01 Part 2 of 3	1.1G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install APPL_TOP - Disk 1 (Part 3 of 3)	V11931-01 Part 3 of 3	1.3G
Download	Oracle Applications Release 12.0.4 for Linux x86 Rapid Install APPL_TOP - Disk 2	V11932-01	1.5G
Download	Oracle Applications Release 12.0.4 Documentation Library (Part 1 of 2)	B45910-01 Part 1 of 2	664M
Download	Oracle Applications Release 12.0.4 Documentation Library (Part 2 of 2)	B45910-01 Part 2 of 2	327M

Move all the zip files to Linux OS (StageR12) and unzip them

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3> Install VMWARE



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New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name
Red Hat Enterprise Linux 4 (2)

Location
E:\VMWARE\RedHat4

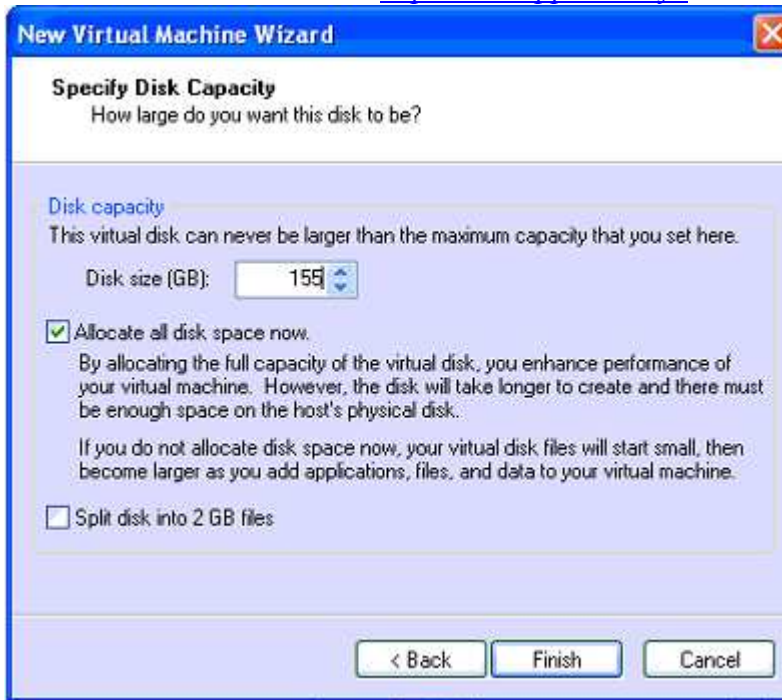
New Virtual Machine Wizard

Network Type
What type of network do you want to add?

Network connection

- Use bridged networking
Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.
- Use network address translation (NAT)
Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.
- Use host-only networking
Connect the guest operating system to a private virtual network on the host computer.
- Do not use a network connection

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Keep the first OEL CD in the CD-ROM and start the virtual machine




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Welcome to Enterprise Linux

During this installation, you can use your mouse or keyboard to navigate through the various screens.

The **Tab** key allows you to move around the screen, the Up and Down arrow keys to scroll through lists, + and - keys expand and collapse lists, while **Space** and **Enter** selects or removes from selection a highlighted item. You can also use the **Alt-X** key command combination as a way of clicking on buttons or making other screen selections, where **X** is replaced with any underlined letter appearing



Enterprise Linux

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Hide Help
Release Notes

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Disk Setup

Choose where you would like Enterprise Linux to be installed.

If you do not know how to partition your system or if you need help with using the manual partitioning tools, refer to the product documentation.

If you used automatic partitioning, you can either accept the current partition settings (click **Next**), or modify the setup using the manual partitioning tool.

If you are manually partitioning your system, you can see your current hard drive(s) and partitions displayed below. Use

Drive /dev/sda (158712 MB) (Model: VMware, VMware Virtual S)

Free
158720 MB

New
Edit
Delete
Reset
RAID
LVM

Device	Mount Point/ RAID/Volume	Type	Format	Size (MB)	Start	End
▼ Hard Drives ▼ /dev/sda						
Free		Free space		158720	1	20234

Hide RAID device/LVM Volume Group members

Hide Help
Release Notes

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The screenshot shows the 'Add Partition' dialog box with the following configuration:

- Mount Point:** /
- File System Type:** ext3
- Allowable Drives:** A list containing one entry: sda 158712 MB VMware, VMware Virtual S
- Size (MB):** 6000
- Additional Size Options:**
 - Fixed size
 - Fill all space up to (MB): 1
 - Fill to maximum allowable size
- Force to be a primary partition

Buttons: Cancel, OK

The screenshot shows the 'Add Partition' dialog box with the following configuration:

- Mount Point:** <Not Applicable>
- File System Type:** swap
- Allowable Drives:** A list containing one entry: sda 158712 MB VMware, VMware Virtual S
- Size (MB):** 3000
- Additional Size Options:**
 - Fixed size
 - Fill all space up to (MB): 1
 - Fill to maximum allowable size
- Force to be a primary partition

Buttons: Cancel, OK

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Add Partition

Mount Point: /software

File System Type: ext3

Allowable Drives: sda 158712 MB VMware, VMware Virtual S

Size (MB): 40000

Additional Size Options

Fixed size

Fill all space up to (MB): 1

Fill to maximum allowable size

Force to be a primary partition

Cancel OK

Add Partition

Mount Point: /d01/oracle

File System Type: ext3

Allowable Drives: sda 158712 MB VMware, VMware Virtual S

Size (MB): 100

Additional Size Options

Fixed size

Fill all space up to (MB): 1

Fill to maximum allowable size

Force to be a primary partition

Cancel OK

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Disk Setup

Choose where you would like Enterprise Linux to be installed.

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If you used automatic partitioning, you can either accept the current partition settings (click **Next**), or modify the setup using the manual partitioning tool.

If you are manually partitioning your system, you can see your current hard drive(s) and partitions displayed below. Use






Drive /dev/sda (158712 MB) (Model: VMware, VMware Virtual S)

sda sda2	sda sda5
60039997 MB	2109717 MB

Device	Mount Point/ RAID/Volume	Type	Format	Size (MB)	Start	End
▼ Hard Drives						
▼ /dev/sda						
/dev/sda1	/	ext3	✓	6001	1	765
/dev/sda2	/software	ext3	✓	39998	766	5864
/dev/sda3		swap	✓	2996	5865	6246
▼ /dev/sda4						
/dev/sda5	/d01/oracle	ext3	✓	109717	6247	20233

Hide RAID device/LVM Volume Group members

Development

- Development Tools** [57/75] [Details](#)
 These tools include core development tools such as automake, gcc, perl, python, and debuggers.
- X Software Development** [16/18] [Details](#)
 These packages allow you to develop applications for the X Window System.
- GNOME Software Development** [0/30]
 Install these packages in order to develop GTK+ and GNOME graphical applications.
- KDE Software Development** [0/20]
 Install these packages to develop QT and KDE graphical applications.
- Legacy Software Development** [6/6] [Details](#)
 These packages provide compatibility support for previous

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Pre Installation Tasks

Download the patch 4198954 from metalink and apply the package
rpm -Uvh compat-oracle-rhel4-1.0-5.i386.rpm

Check whether you have all the below patches, else apply them; the packages will be available in Linux CD's. The versions may be different but you apply which is available in your CD's

```
rpm -Uvh pkgconfig-0.15.0-3.i386.rpm
rpm -Uvh glibc-kernheaders-2.4-9.1.87.i386.rpm
rpm -Uvh glibc-headers-2.3.4-2.9.i386.rpm
rpm -Uvh glibc-devel-2.3.4-2.9.i386.rpm
rpm -Uvh compat-gcc-32-3.2.3-47.3.i386.rpm
rpm -Uvh compat-libcwait-2.1-1.i386.rpm
rpm -Uvh zlib-devel-1.2.1.2-1.i386.rpm
rpm -Uvh freetype-devel-2.1.9-5.el4.i386.rpm
rpm -Uvh fontconfig-devel-2.2.3-7.0.1.i386.rpm
rpm -Uvh xorg-x11-devel-6.8.2-1.EL.18.0.1.i386.rpm
rpm -Uvh xorg-x11-deprecated-libs-devel-6.8.2-1.EL.18.0.1.i386.rpm
rpm -Uvh gcc-3.4.6-8.0.1.i386.rpm
rpm -Uvh libstdc++-devel-3.4.6-8.0.1.i386.rpm
rpm -Uvh gcc-c++-3.4.6-8.0.1.i386.rpm
rpm -Uvh compat-libgcc-296-2.96-132.7.2.i386.rpm
rpm -Uvh libaio-0.3.105-2.i386.rpm
rpm -Uvh libaio-devel-0.3.105-2.i386.rpm
rpm -Uvh openmotif21-2.1.30-11.RHEL4.6.i386.rpm
rpm -Uvh compat-libstdc++-296-2.96-132.7.2.i386.rpm
rpm -Uvh compat-libstdc++-33-3.2.3-47.3.i386.rpm
rpm -Uvh compat-gcc-32-c++-3.2.3-47.3.i386.rpm
rpm -Uvh compat-oracle-rhel4-1.0-5.i386.rpm
rpm -Uvh compat-libcwait-2.1-1.i386.rpm
```

Shared memory and semaphore setting

```
echo "kernel.shmmax=2147483648" >> /etc/sysctl.conf
echo "kernel.sem=250 32000 100 128" >> /etc/sysctl.conf
echo "fs.file-max=65536" >> /etc/sysctl.conf
echo "net.ipv4.ip_local_port_range = 2024 65000" >> /etc/sysctl.conf
```

Modify number of open descriptors

```
echo "hard nofile 65535" >> /etc/security/limits.conf
echo "soft nofile 4096" >> /etc/security/limits.conf
```

OS Users and group creation

```
# Add the group and users
```

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```
groupadd dba
useradd oracle -g dba
useradd applmgr -g dba
passwd oracle (give the password for oracle)
passwd applmgr (give the password for applmgr)
```

Permissions are given oracle and applmgr so that they can write to /d01/oracle

```
chgrp dba /d01/oracle
chmod g+w /d01/oracle
```

Note: Please check whether oracle and applmgr are able to write to /d01/oracle

```
su – oracle
cd /d01/oracle
touch test.file
rm test.file
su – applmgr
cd /d01/oracle
touch test.file
rm test.file
```

Check that the /etc/hosts entries are as follows

```
127.0.0.1          localhost.localdomain localhost
<ip address> <hostname>.<domainname> aliasname
```

My entries are as follows

```
127.0.0.1          localhost.localdomain localhost
192.168.1.100     linux1.com          linux1
```

Restart the server or use run systemctl –p to avoid the restart the server
systemctl -p

Install R11 or R12, follow the following documents

http://www.appsdba.info/docs/oracle_apps/Installation/sni-ln.pdf

http://www.appsdba.info/docs/oracle_apps/Installation/R12/snir12-ln.pdf