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1> Download OEL 4 update 5 from <http://edelivery.oracle.com>
<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	4.4.0.0.0	V10150-01	JUN-21-2007	8 /

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

Unzip the files the extension is ISO's, no need to burn them we can use ISO image for the installation. The first 3 should do for our Installation

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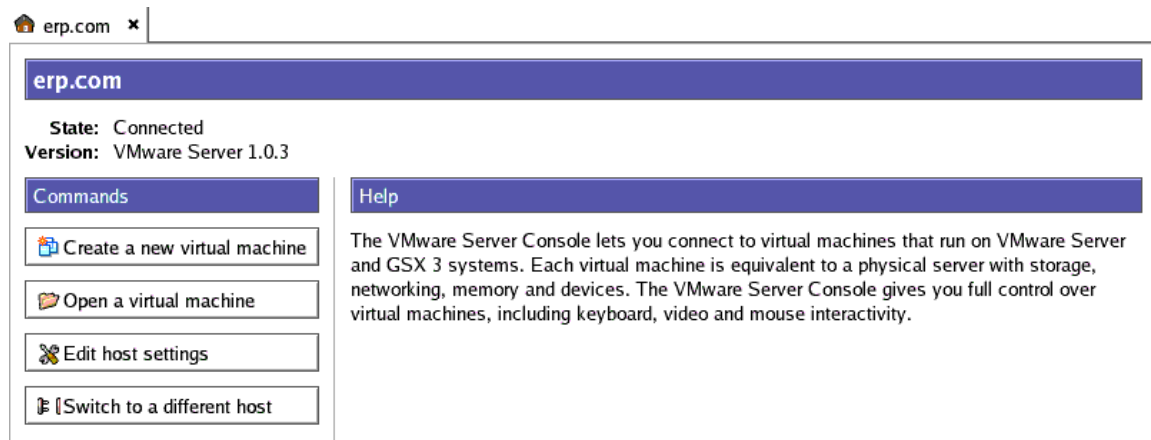
```
[root@erp OEL4]# ls -ltr
total 1936600
-rw-r--r-- 1 root root 647301120 May 24 20:40 Enterprise-R4-U5-i386-disc1.iso
-rw-r--r-- 1 root root 667066368 May 24 20:41 Enterprise-R4-U5-i386-disc3.iso
-rw-r--r-- 1 root root 666740736 May 24 20:41 Enterprise-R4-U5-i386-disc2.iso
```

2> Configure the First Virtual Machine

Check that 60 GB free space is available

```
cd /d02/oracle
```

```
[root@erp oracle]# mkdir -p vm/rac/rac1
[root@erp oracle]# mkdir -p vm/rac/rac2
[root@erp oracle]# mkdir -p vm/rac/sharedstorage
```




Click Create a new virtual machine

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New Virtual Machine Wizard

Select the Appropriate Configuration

How would you prefer to configure your new virtual machine?



Virtual Machine Configuration

Typical

Create a new virtual machine with the most common devices and configuration options.

This virtual machine will not be compatible with VMware ESX Server 2.x, GSX Server 3.x, ACE 1.x or Workstation 4.x.

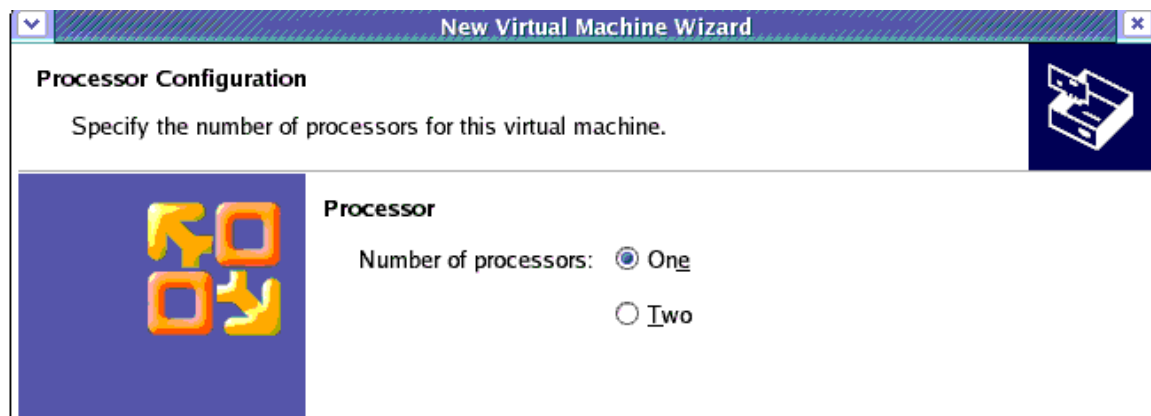
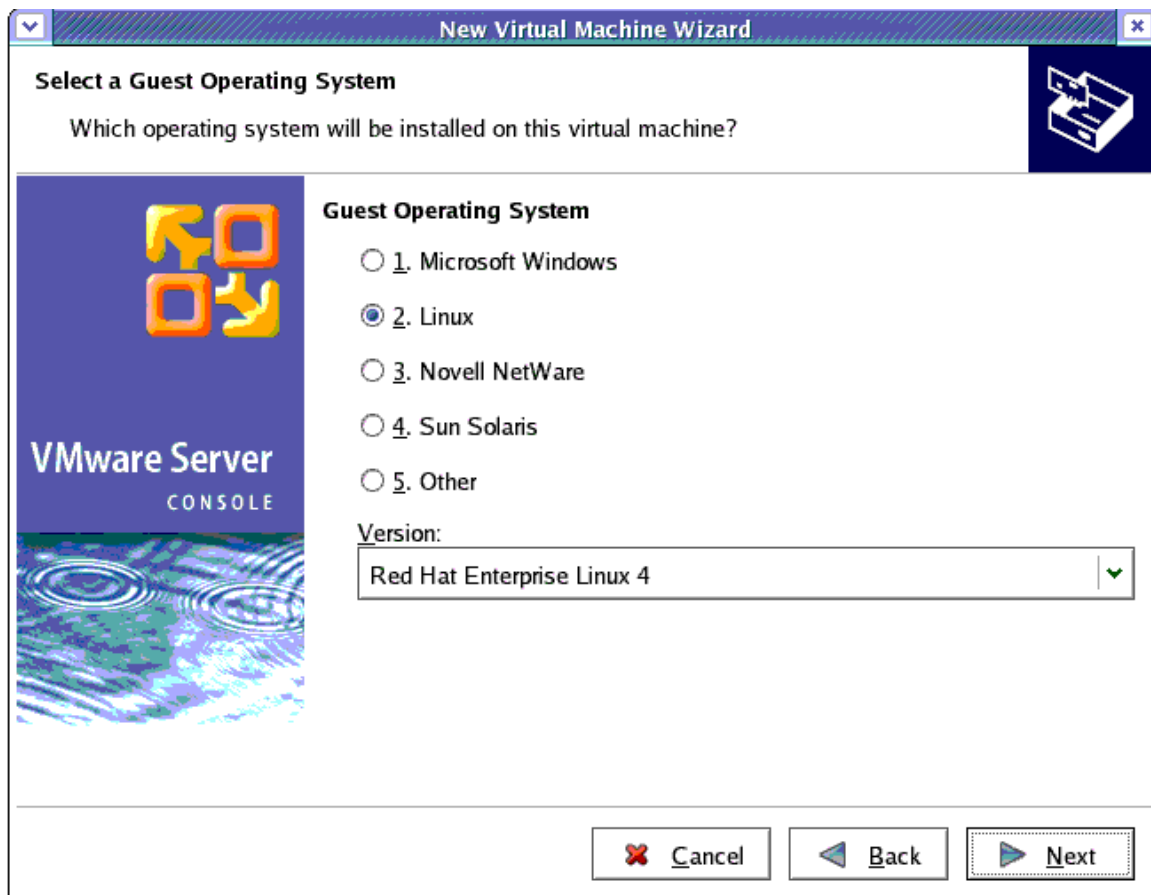
Custom

Choose this option if you need to create a virtual machine with additional devices or specific configuration options.

Cancel Back Next

Click Custom

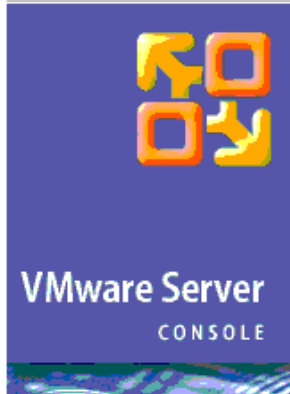
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Set Access Rights

Set the user access rights for this virtual machine.



Access Rights

Would you like to have private access to this virtual machine?

Make this virtual machine priate

If you choose to make this virtual machine private, only your user account will have access to it.

To allow access to other users, uncheck the item above. Access to the virtual machine will be determined by its file system permissions.

New Virtual Machine Wizard

Memory for the Virtual Machine

How much memory would you like to use for this virtual machine?

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine:

4 3600 MB

	Guest OS recommended minimum:	32MB
	Recommended memory:	256MB
	Maximum recommended memory: (Memory swapping may occur beyond this size)	1712MB

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Network Type

What type of network do you want to add?

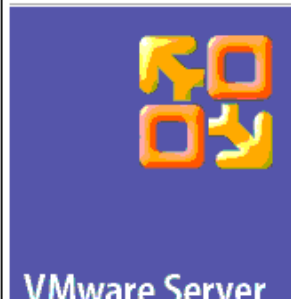


Network Connection

- 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

Select I/O Adapter Types

What adapter type would you like to use?



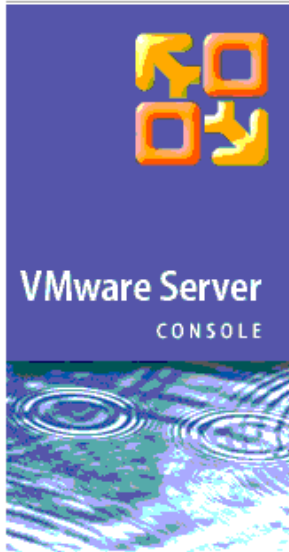
I/O Adapter Types

- IDE adapter: ATAPI
- SCSI adapter: BusLogic
 LSI Logic

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Select a Disk

Which disk do you want this drive to use?



Disk

- Create a new virtual disk

A virtual machine is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.

- Use an existing virtual disk

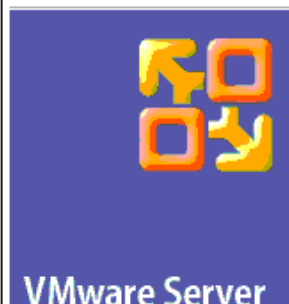
Choose this option to reuse a previously configured disk.

- Use a physical disk (for advanced users)

Choose this option to give the virtual machine direct access to a local hard disk.

Select a Disk Type

What kind of disk do you want to create?



Virtual Disk Type

- IDE
- SCSI (Recommended)

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Specify Disk Capacity

How large do you want this disk to be?



Disk Size

Virtual disk files are quite small at first, then grow as you add files to them. This virtual disk can never be larger than the maximum size that you set here.

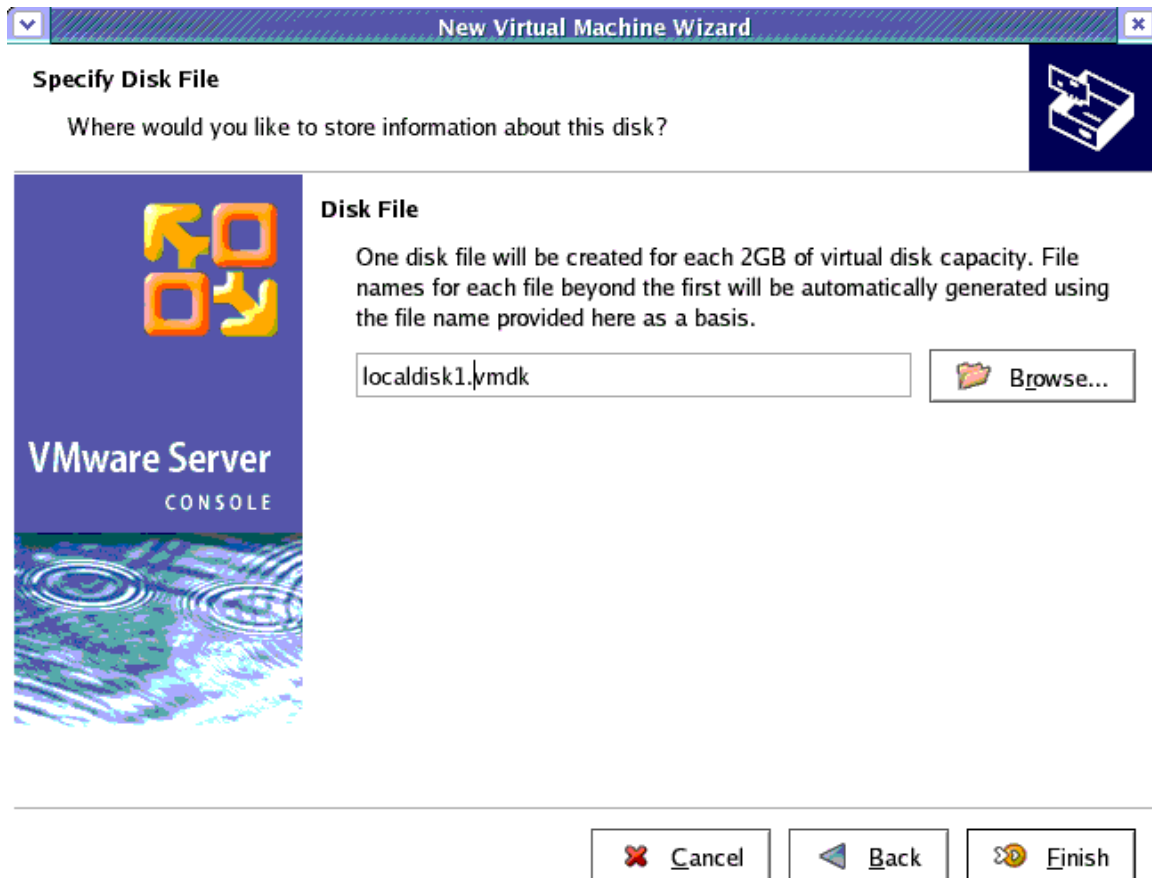
Disk size (GB):

Allocate all disk space now

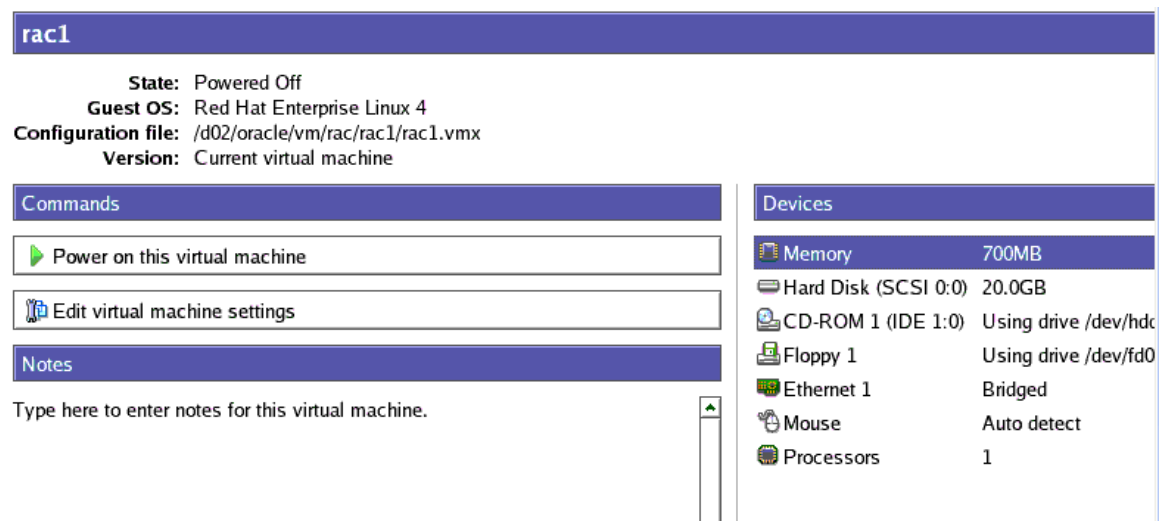
By allocating the full capacity of the virtual disk, you enhance performance of your virtual machine. However, the disk will take longer to create and there must be enough space on the host's physical disk. If you do not allocate disk space now, your virtual disk files will start small, then become larger as you add applications, files, and data to your virtual machine.

Split disk into 2GB files

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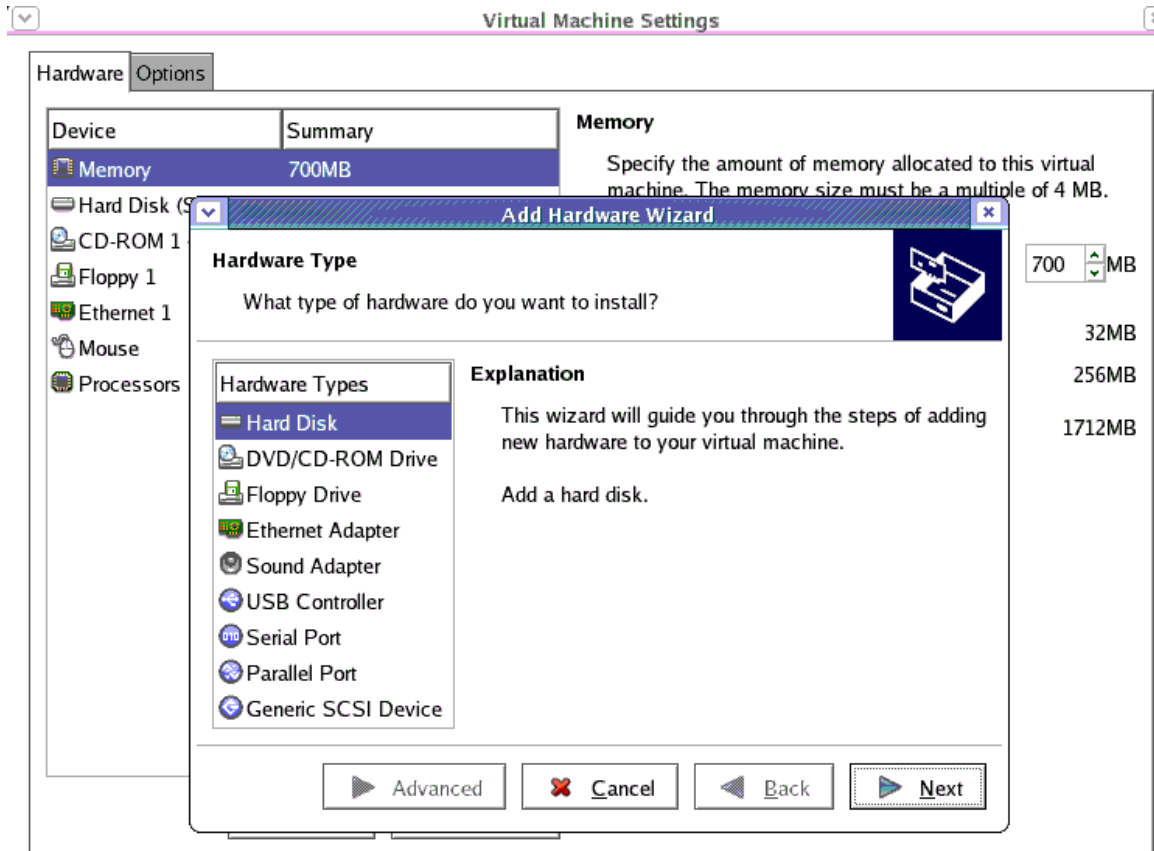
create four virtual SCSI hard disks - ocfs2disk.vmdk (512MB), asmdisk1.vmdk (3GB), asmdisk2.vmdk (3GB), and asmdisk3.vmdk (2GB)



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Click Edit virtual machine setting

Click Add



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The screenshot shows a window titled "Add Hardware Wizard" with a close button in the top right corner. The main heading is "Select a Disk" and the question is "Which disk do you want this drive to use?". On the left is a VMware Server Console logo. On the right, under the heading "Disk", there are three radio button options: "Create a new virtual disk" (selected), "Use an existing virtual disk", and "Use a physical disk (for advanced users)".

Select a Disk

Which disk do you want this drive to use?

Disk

- Create a new virtual disk
A virtual machine is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.
- Use an existing virtual disk
Choose this option to reuse a previously configured disk.
- Use a physical disk (for advanced users)
Choose this option to give the virtual machine direct access to a local hard disk.



The screenshot shows a window titled "Add Hardware Wizard" with a close button in the top right corner. The main heading is "Select a Disk Type" and the question is "What kind of disk do you want to create?". On the left is a VMware Server Console logo. On the right, under the heading "Virtual Disk Type", there are two radio button options: "IDE" and "SCSI (Recommended)" (selected).

Select a Disk Type

What kind of disk do you want to create?

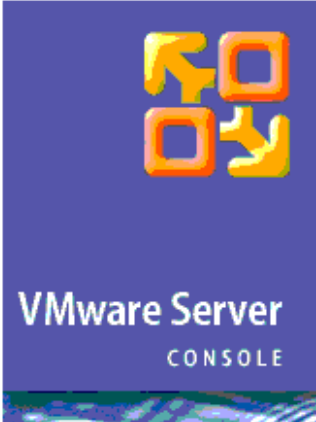

Virtual Disk Type

- IDE
- SCSI (Recommended)

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Specify Disk Capacity

How large do you want this disk to be?



Disk Capacity

Virtual disk files are quite small at first, then grow as you add files to them. This virtual disk can never be larger than the maximum capacity that you set here.



Disk size (GB):

Allocate all disk space now

By allocating the full capacity of the virtual disk, you enhance performance of your virtual machine. However, the disk will take longer to create and

Specify Disk File

Where would you like to store information about this disk?



Disk File

One disk file will be created for each 2GB of virtual disk capacity. File names for each file beyond the first will be automatically generated using the file name provided here as a basis.

Click Advanced

Select SCSI 1:0

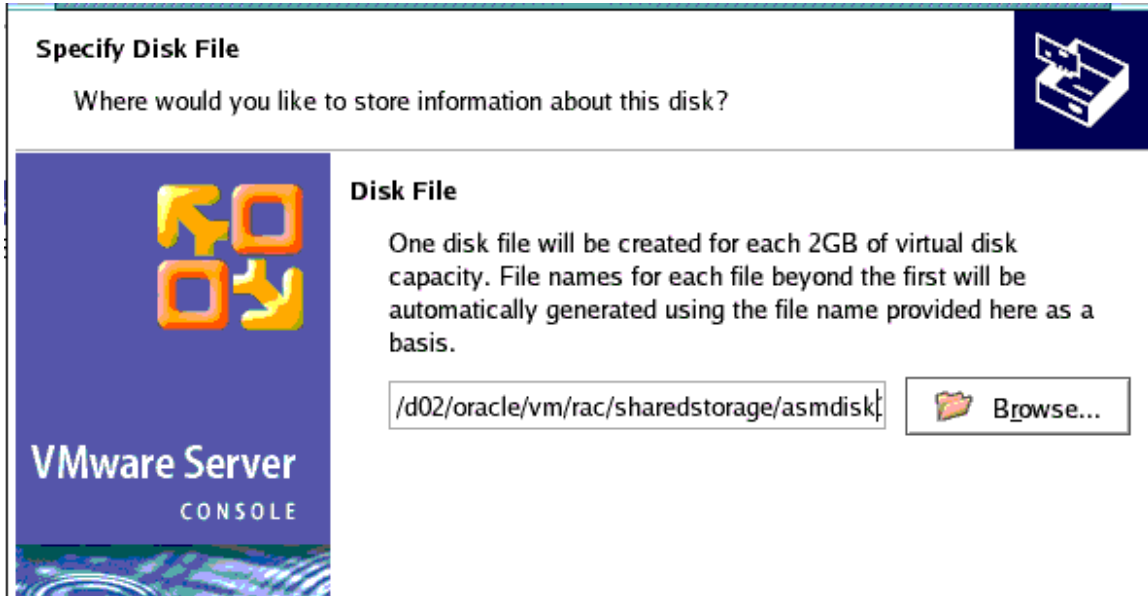
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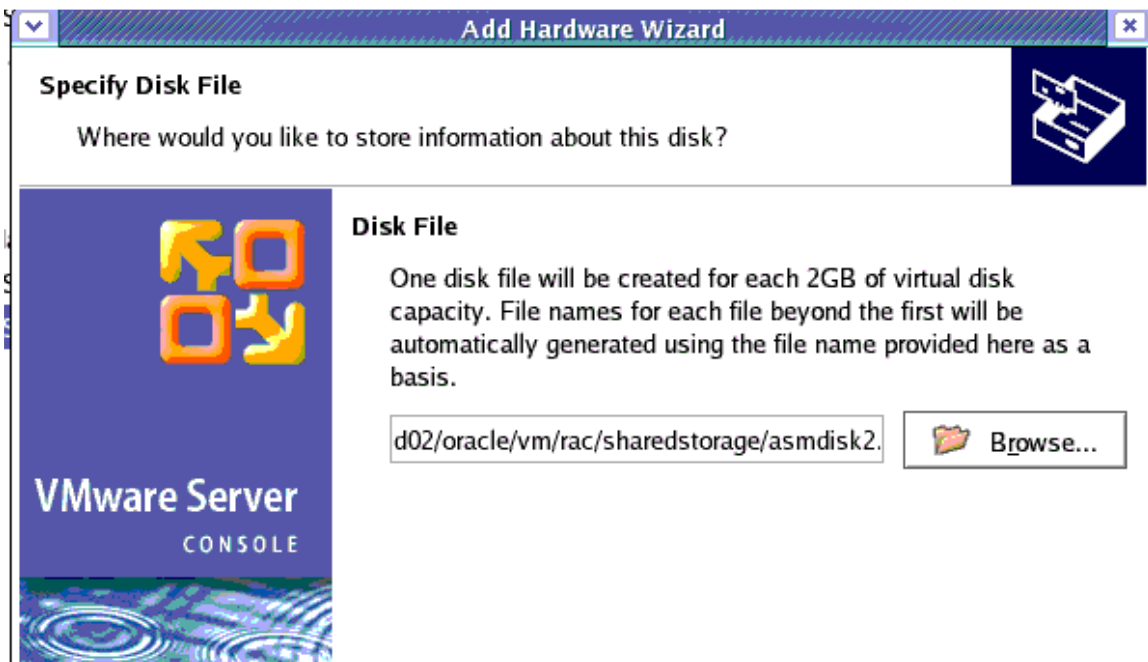
Click Finish

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Repeat 3 GB for asmdisk1

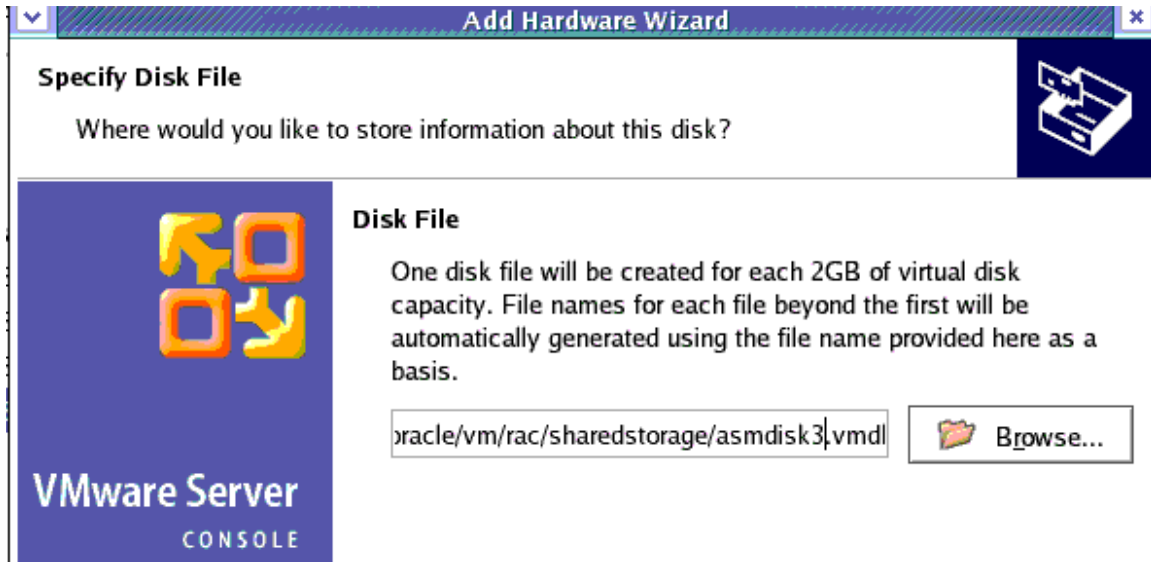


3 GB for asmdisk2



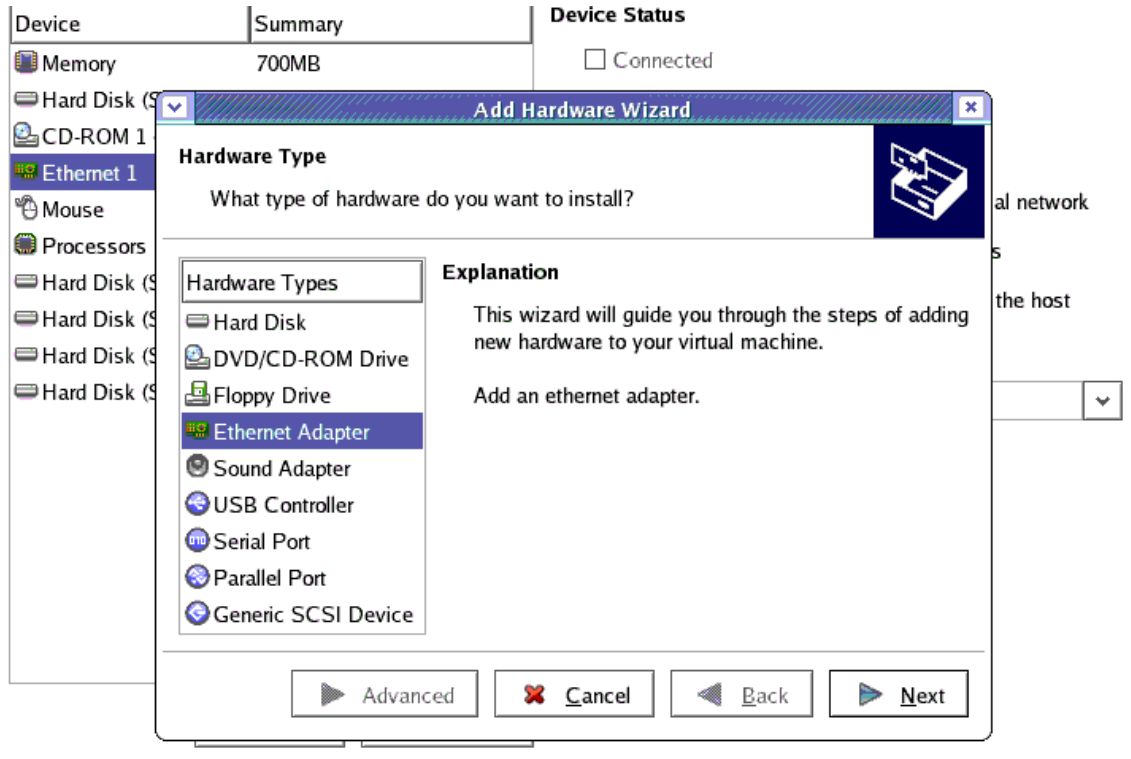
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2 GB for asmdisk3

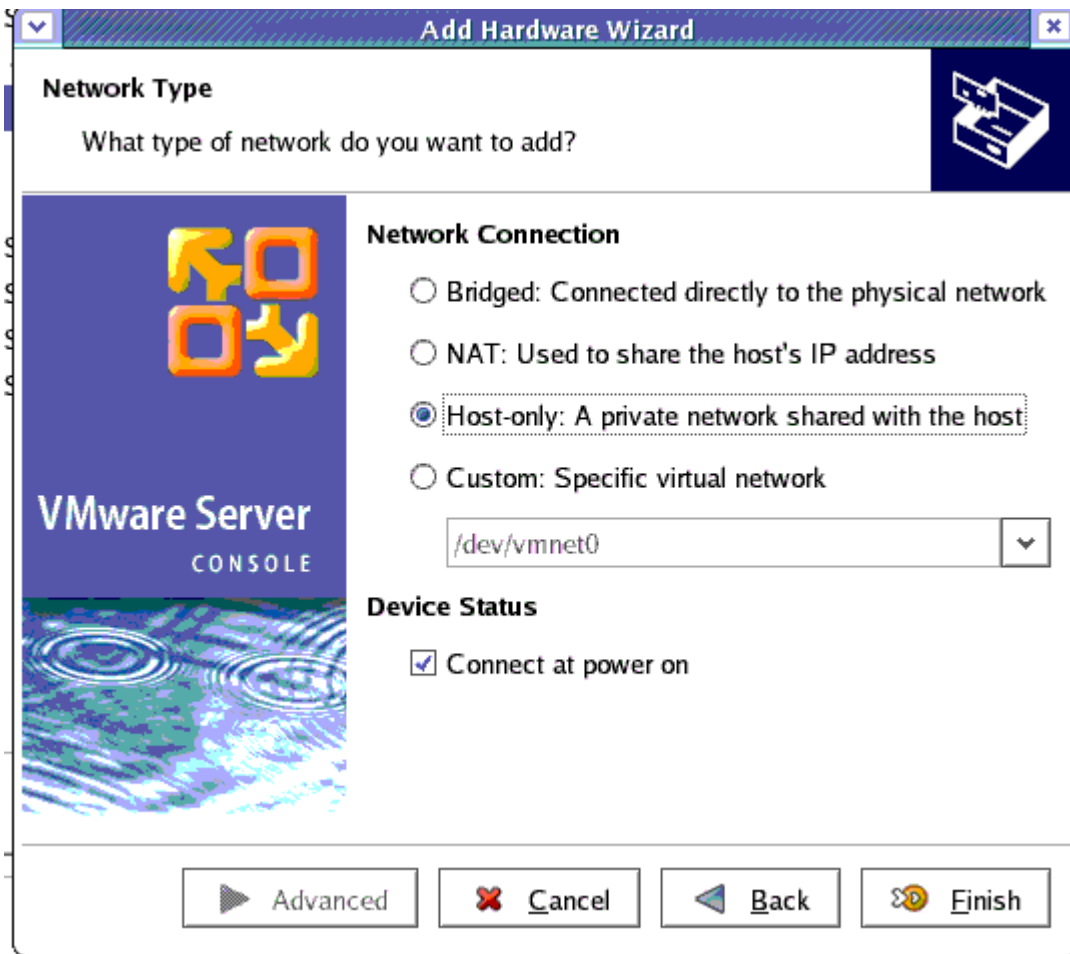


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Finally, add an additional virtual network card for the private interconnects and remove the floppy drive, if any.



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The screenshot shows the 'Hardware Options' dialog box in Oracle VM VirtualBox. The 'Device' list on the left includes Memory (700MB), Hard Disk (SCSI 0:0) (20.0GB), CD-ROM 1 (IDE 1:0) (Using drive /dev/hdd), Ethernet 1 (Bridged), Mouse (Auto detect), Processors (1), and several Hard Disk (SCSI 1:0-1:4) devices (512MB to 3.0GB Persistent), and a Network Adapter (Host-only). The 'Ethernet 1' device is selected and highlighted. The 'Device Status' section on the right has 'Connect at power on' checked. The 'Network Connection' section has 'Bridged: Connected directly to the physical network' selected, and a dropdown menu below it shows '/dev/vmnet0'.

Modify virtual machine configuration file. Additional parameters are required to enable disk sharing between the two virtual RAC nodes. Open the configuration file, /d02/oracle/vm/rac/rac1/rac1.vmx and add the bold parameters listed below.

```
config.version = "8"  
virtualHW.version = "4"  
scsi0.present = "TRUE"  
scsi0.virtualDev = "lsilogic"  
memsize = "700"  
scsi0:0.present = "TRUE"  
scsi0:0.fileName = "localdisk1.vmdk"  
scsi0:0.writeThrough = "TRUE"  
ide1:0.present = "TRUE"  
ide1:0.fileName = "/dev/hdd"  
ide1:0.deviceType = "cdrom-raw"  
floppy0.startConnected = "FALSE"  
floppy0.fileName = "/dev/fd0"  
Ethernet0.present = "TRUE"  
displayName = "rac1"  
guestOS = "rhel4"
```

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priority.grabbed = "normal"
priority.ungrabbed = "normal"

disk.locking = "FALSE"
diskLib.dataCacheMaxSize = "0"
scsi1.sharedBus = "virtual"

powerType.powerOff = "hard"
powerType.powerOn = "hard"
powerType.suspend = "hard"
powerType.reset = "hard"

scsi1.present = "TRUE"
scsi1:0.present = "TRUE"
scsi1:0.fileName = "/d02/oracle/vm/rac/sharedstorage/ocfs2disk.vmdk"
scsi1:0.mode = "independent-persistent"
scsi1:0.deviceType = "disk"

scsi1.virtualDev = "lsilogic"
floppy0.present = "FALSE"

scsi1:1.present = "TRUE"
scsi1:1.fileName = "/d02/oracle/vm/rac/sharedstorage/asmdisk1.vmdk"
scsi1:1.mode = "independent-persistent"
scsi1:1.deviceType = "disk"

scsi1:2.present = "TRUE"
scsi1:2.fileName = "/d02/oracle/vm/rac/sharedstorage/asmdisk2.vmdk"
scsi1:2.mode = "independent-persistent"
scsi1:2.deviceType = "disk"

scsi1:3.present = "TRUE"
scsi1:3.fileName = "/d02/oracle/vm/rac/sharedstorage/asmdisk3.vmdk"
scsi1:3.mode = "independent-persistent"
scsi1:3.deviceType = "disk"

Ethernet1.present = "TRUE"
Ethernet1.connectionType = "hostonly"