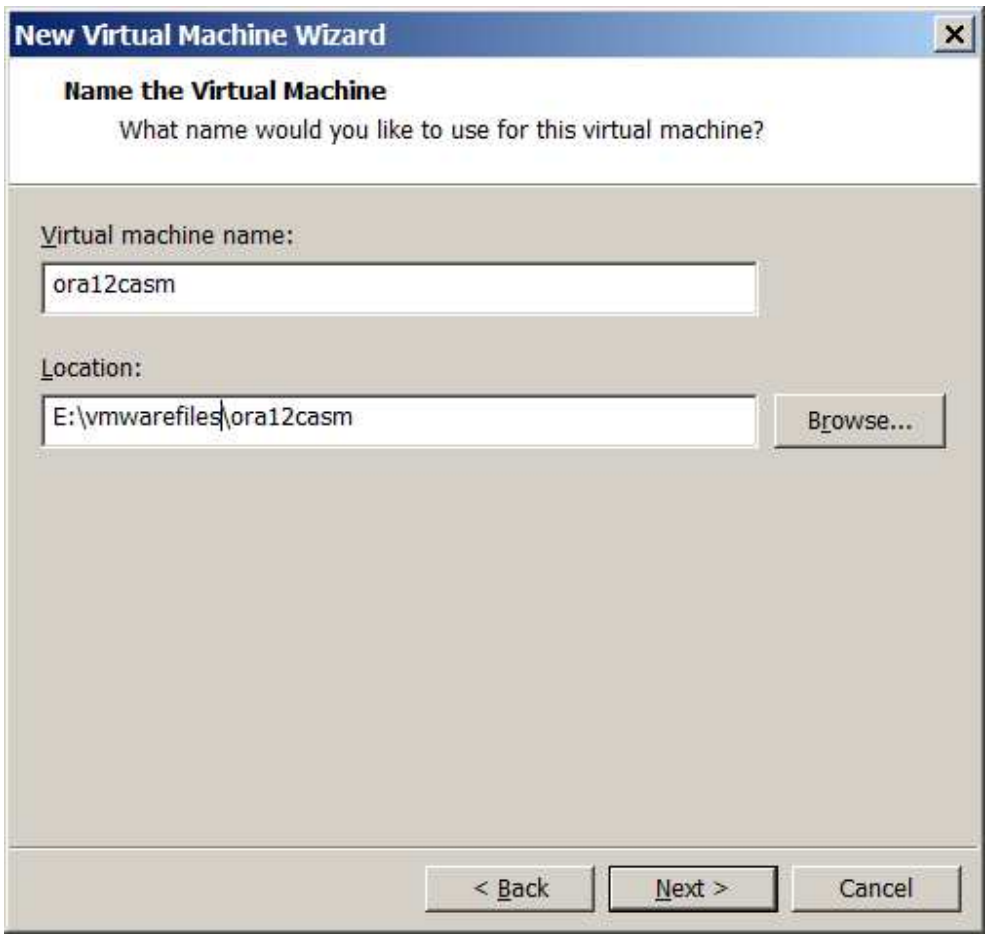
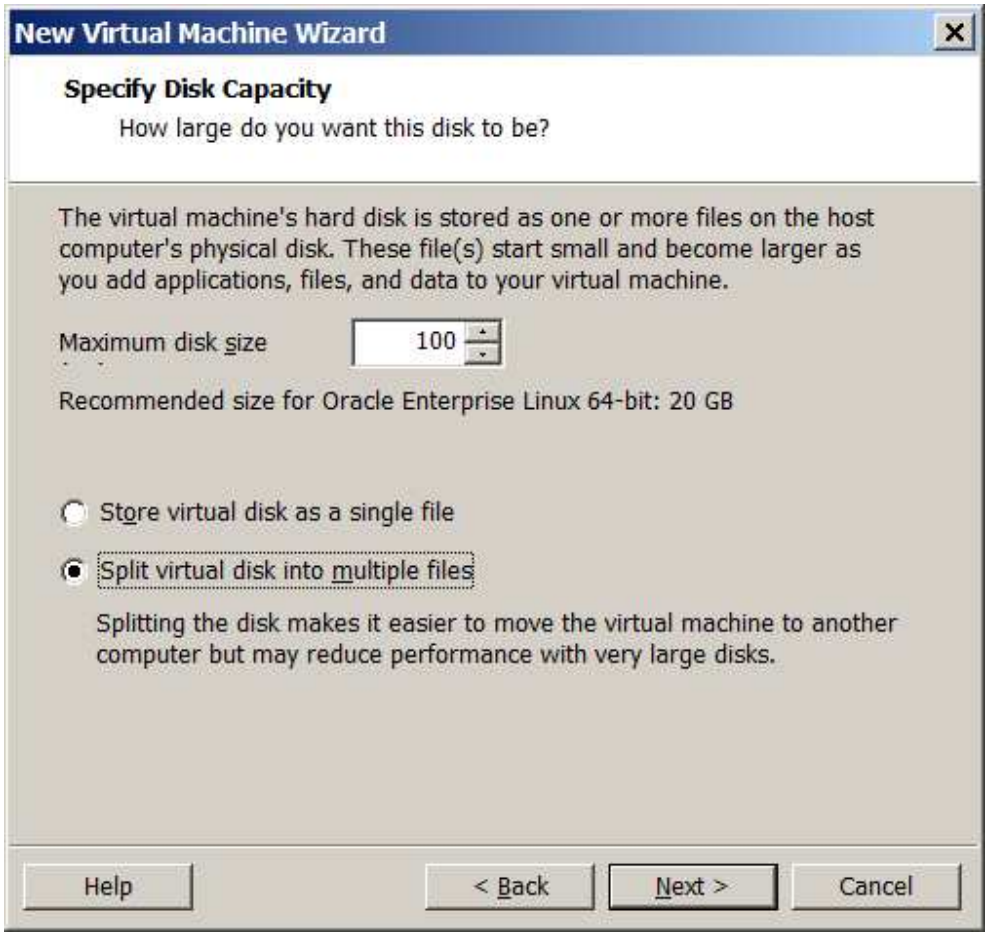
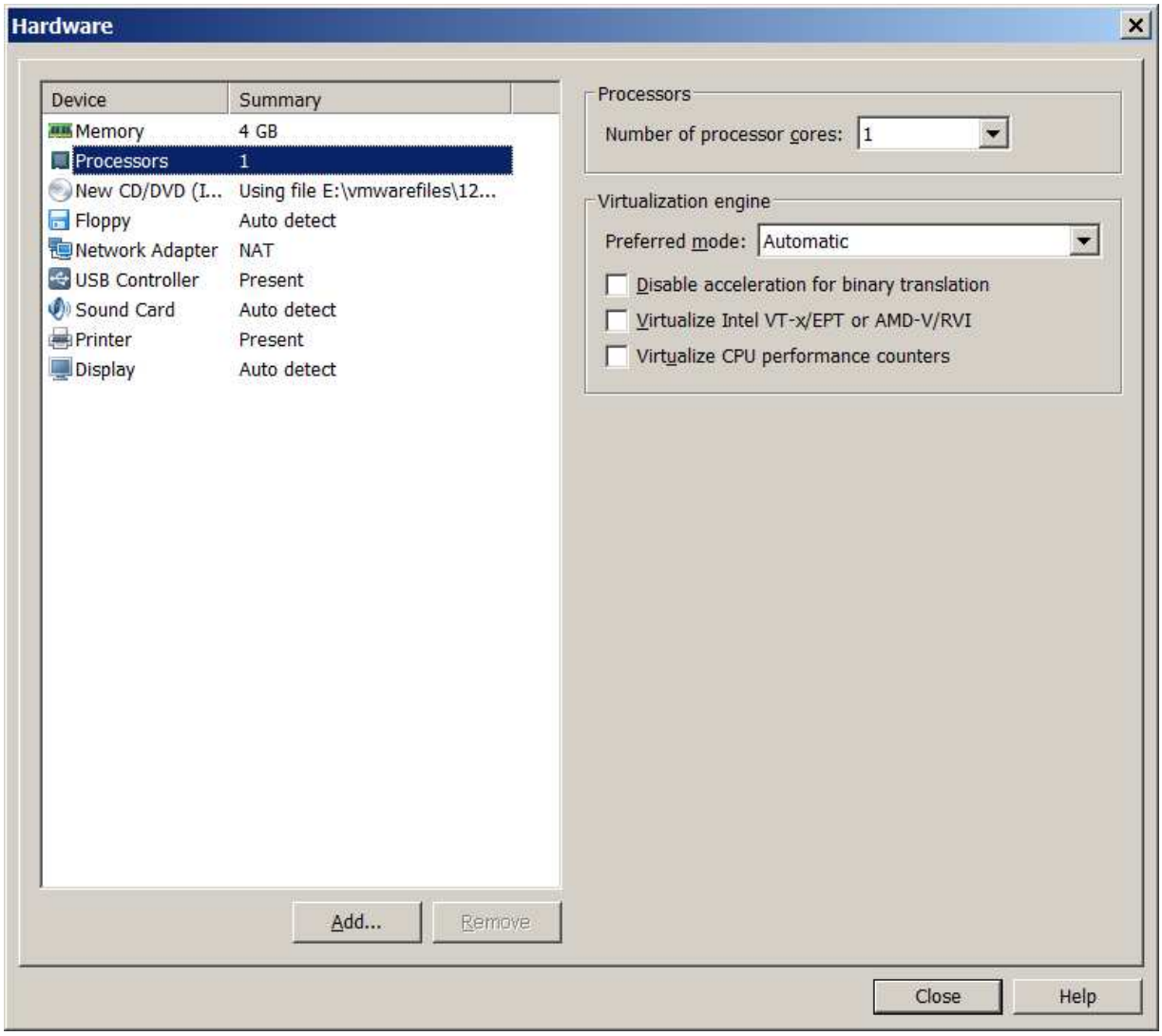
Screenshots for setting up new VM running asm with grid install.




E: drive – external drive

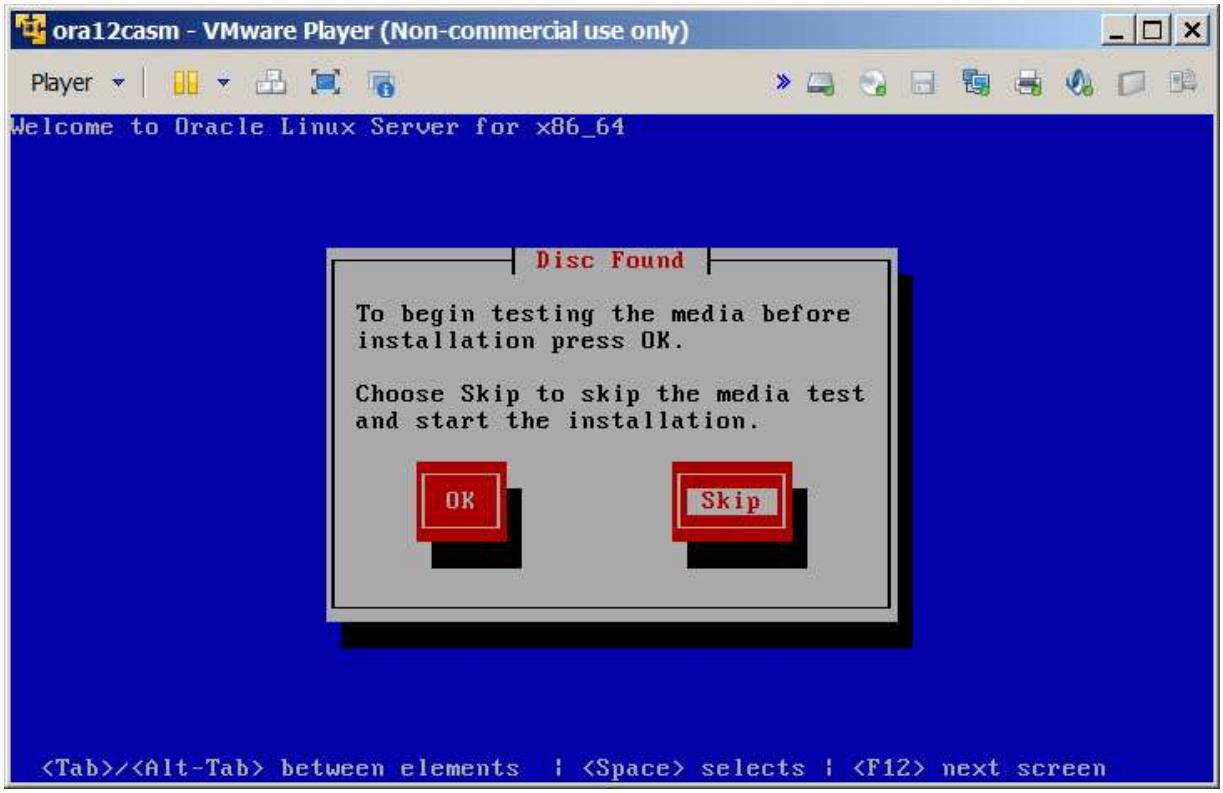

New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.
Maximum disk size
100
Recommended size for Oracle Enterprise Linux 64-bit: 20 GB
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel

split

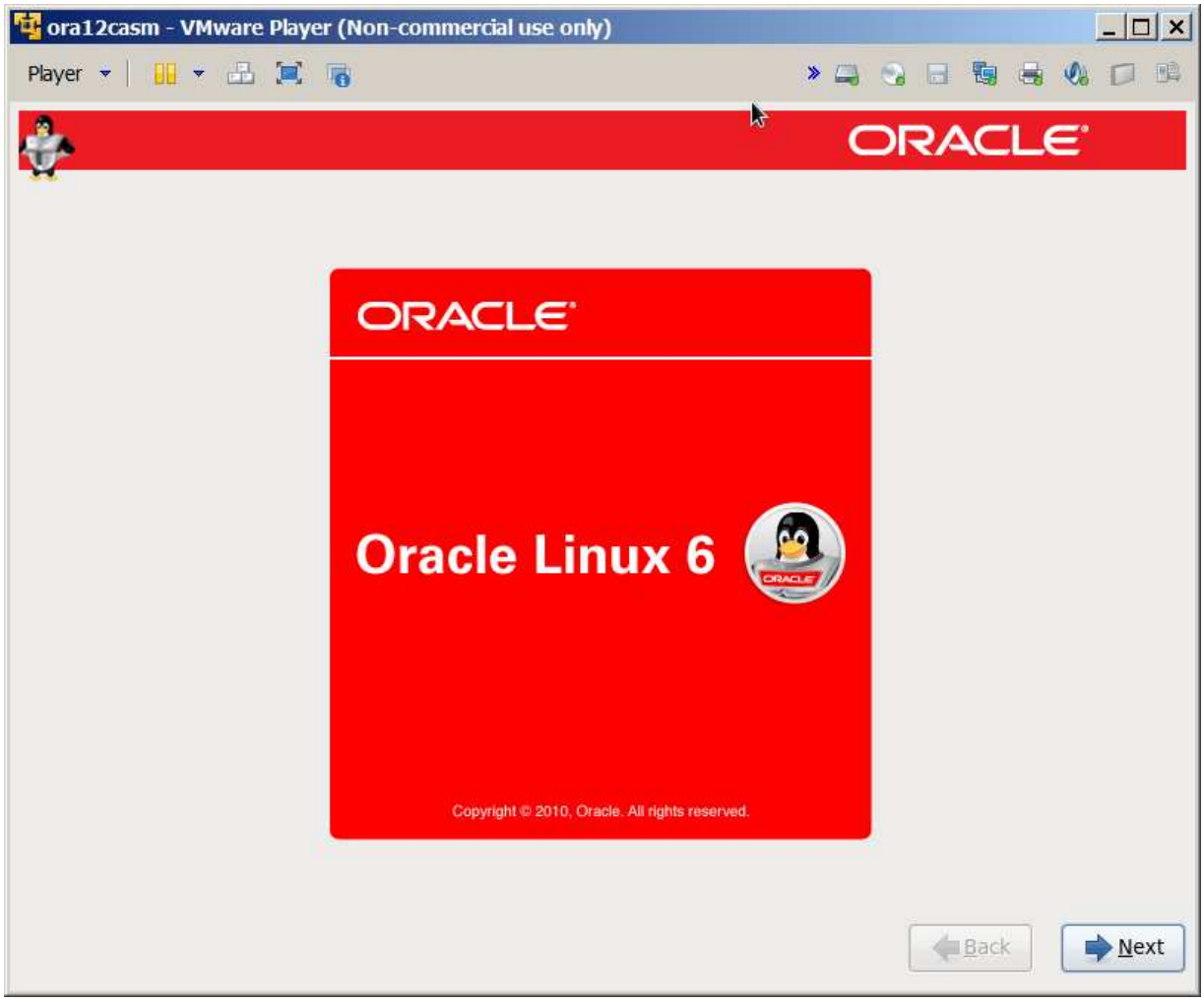

Hardware
Device
Summary
Memory
4 GB
Processors
1
New CD/DVD (I...
Using file E:\vmwarefiles\12...
Floppy
Auto detect
Network Adapter
NAT
USB Controller
Present
Sound Card
Auto detect
Printer
Present
Display
Auto detect
Add...
Remove
Processors
Number of processor cores:
1
Virtualization engine
Preferred mode:
Automatic
Disable acceleration for binary translation
Virtualize Intel VT-x/EPT or AMD-V/RVI
Virtualize CPU performance counters
Close
Help

4 gig ram

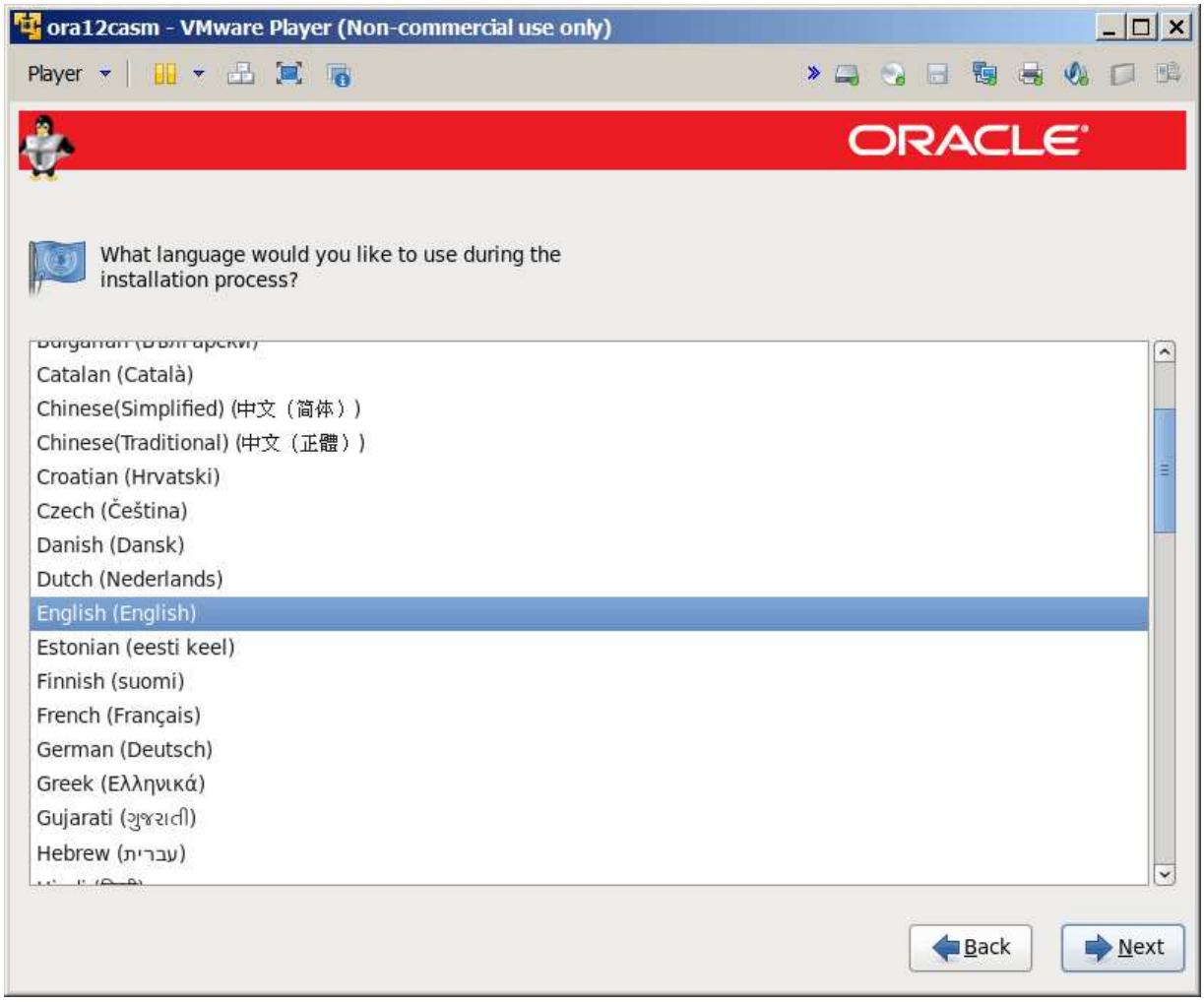
Install screen


ora12casm - VMware Player (Non-commercial use only)
Player
Welcome to Oracle Linux Server for x86_64
Disc Found
To begin testing the media before installation press OK.
Choose Skip to skip the media test and start the installation.
OK
Skip
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen

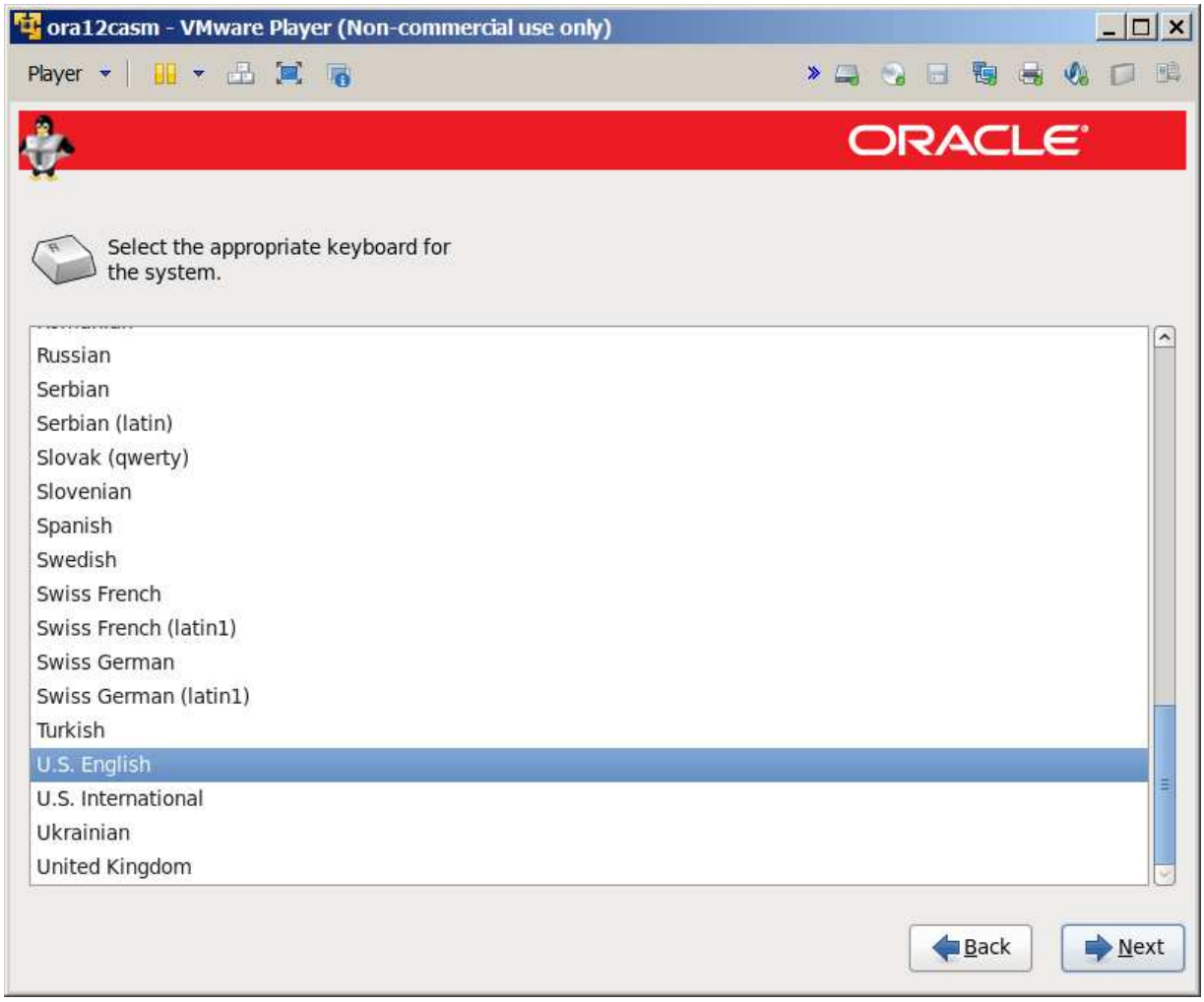
Skip


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
ORACLE
Oracle Linux 6
Copyright © 2010, Oracle. All rights reserved.
Back
Next

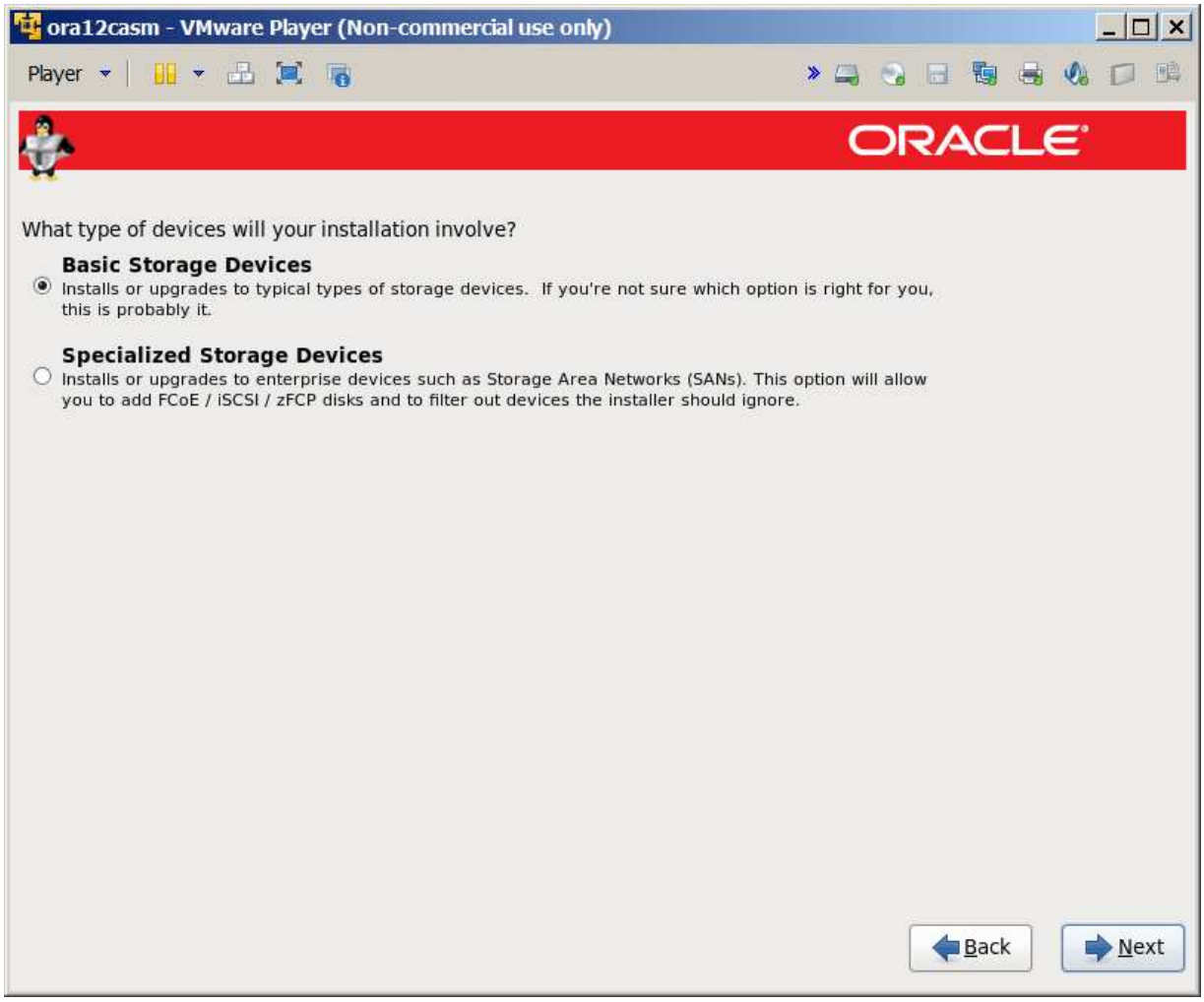
Next


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
What language would you like to use during the installation process?
Catalan (Català)
Chinese(Simplified) (中文（简体）)
Chinese(Traditional) (中文（正體）)
Croatian (Hrvatski)
Czech (Čeština)
Danish (Dansk)
Dutch (Nederlands)
English (English)
Estonian (eesti keel)
Finnish (suomi)
French (Français)
German (Deutsch)
Greek (Ελληνικά)
Gujarati (ગુજરાતી)
Hebrew (עברית)
Back
Next

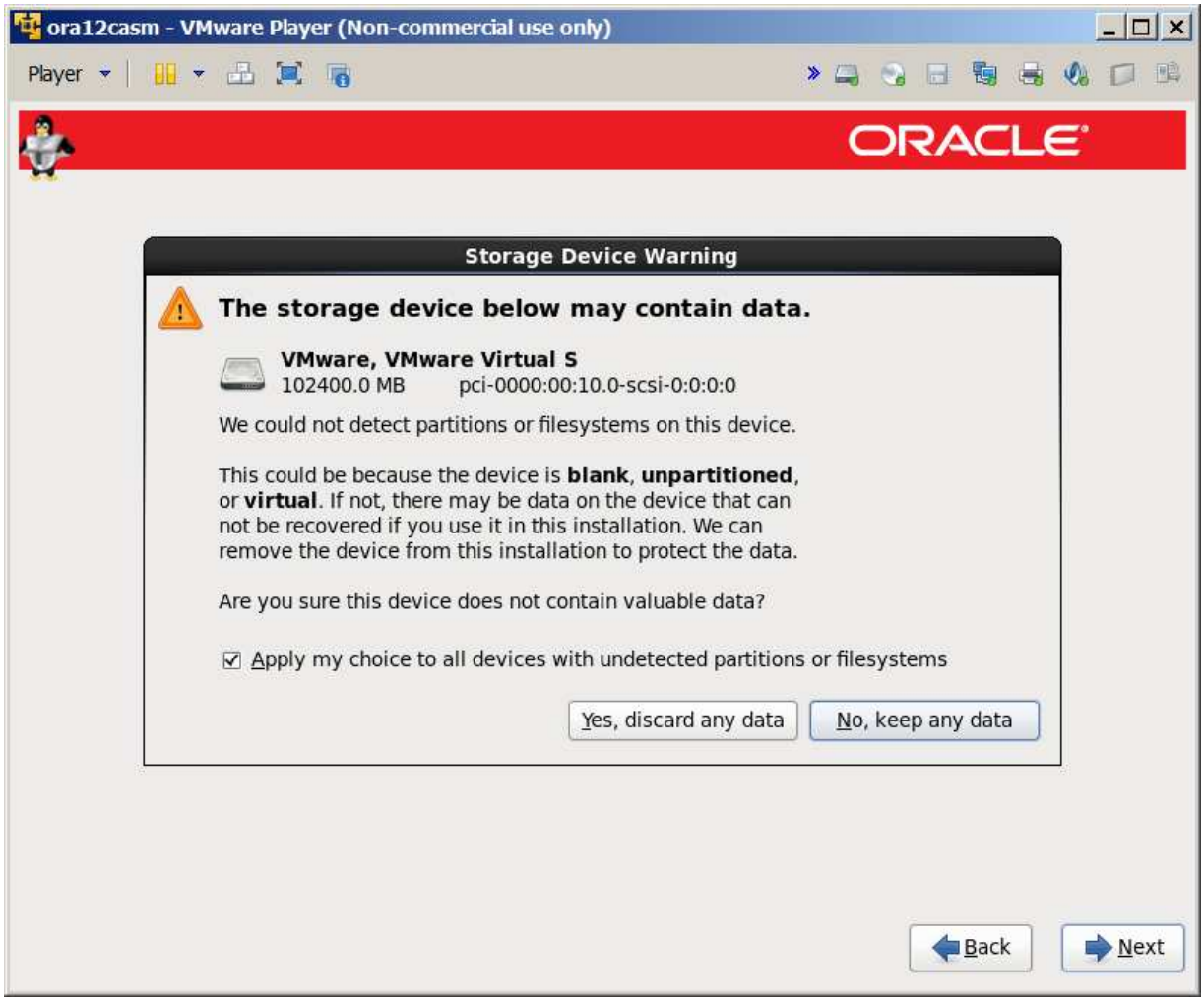
English


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
Select the appropriate keyboard for the system.
Russian
Serbian
Serbian (latin)
Slovak (qwerty)
Slovenian
Spanish
Swedish
Swiss French
Swiss French (latin1)
Swiss German
Swiss German (latin1)
Turkish
U.S. English
U.S. International
Ukrainian
United Kingdom
Back
Next

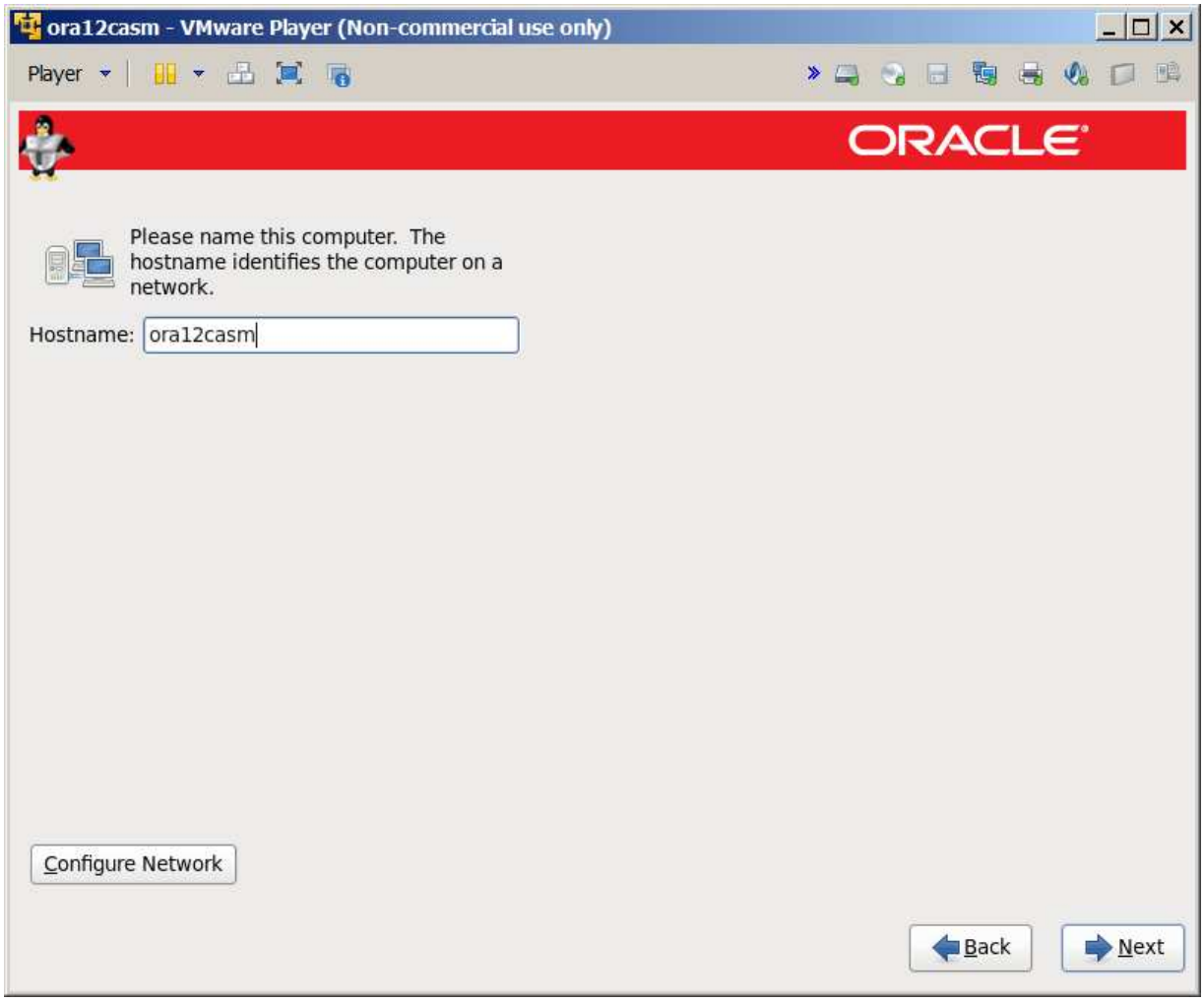
Ditto


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
What type of devices will your installation involve?
Basic Storage Devices
Installs or upgrades to typical types of storage devices. If you're not sure which option is right for you, this is probably it.
Specialized Storage Devices
Installs or upgrades to enterprise devices such as Storage Area Networks (SANs). This option will allow you to add FCoE / iSCSI / zFCP disks and to filter out devices the installer should ignore.
Back
Next

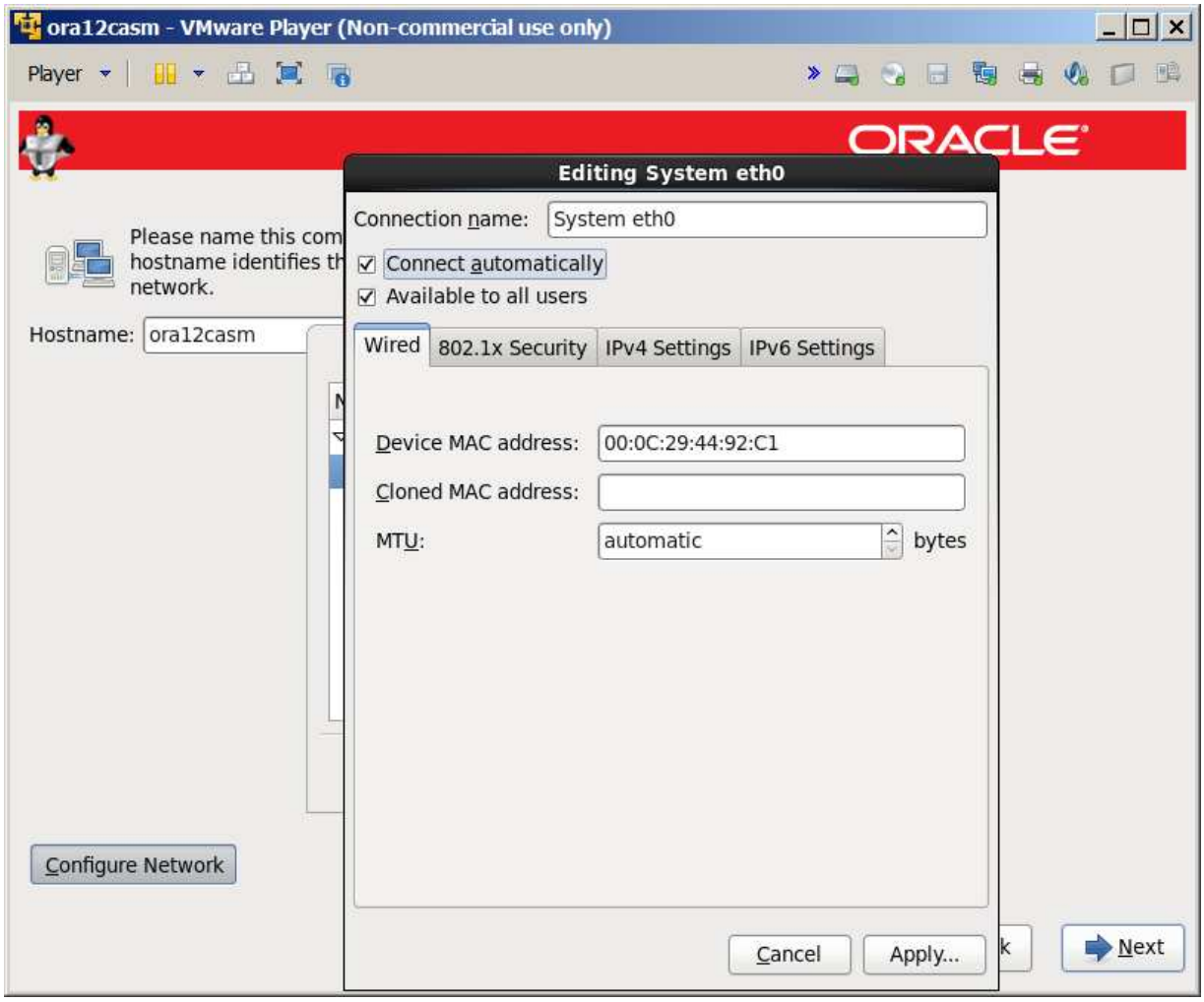
Basic



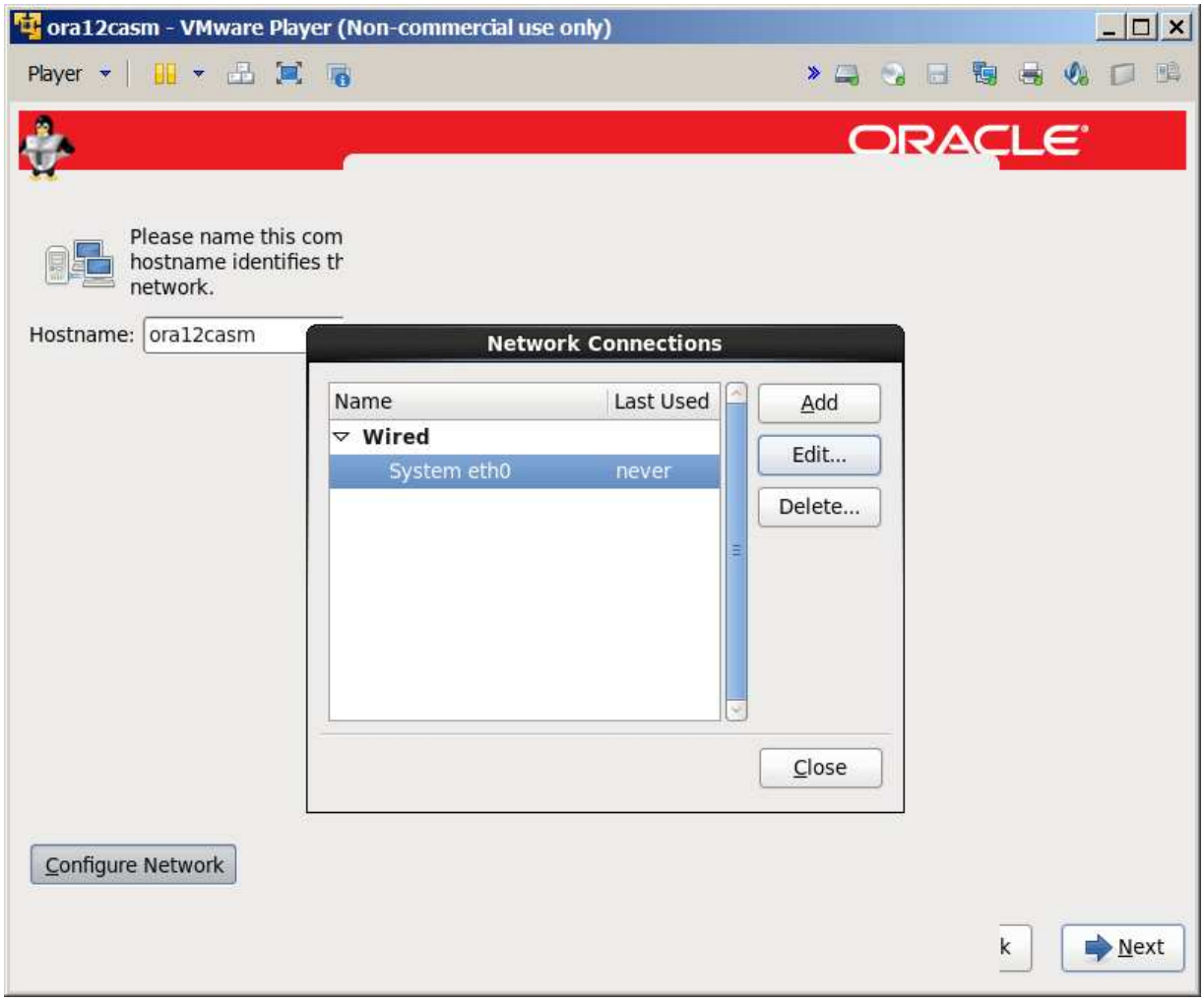

Warning – not an issue since this is a virtual disk.



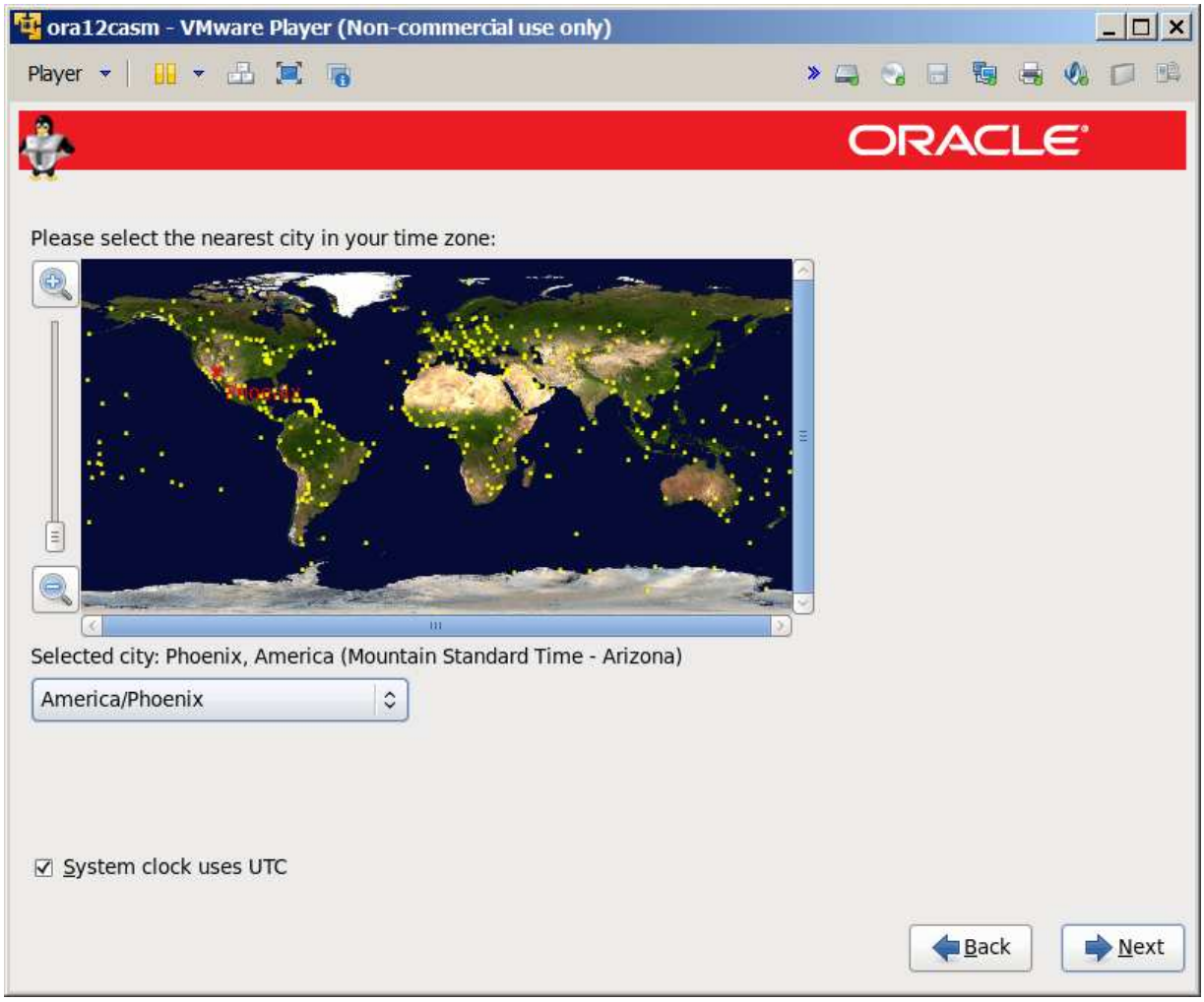

Hostname click configure network to get it to start automatically



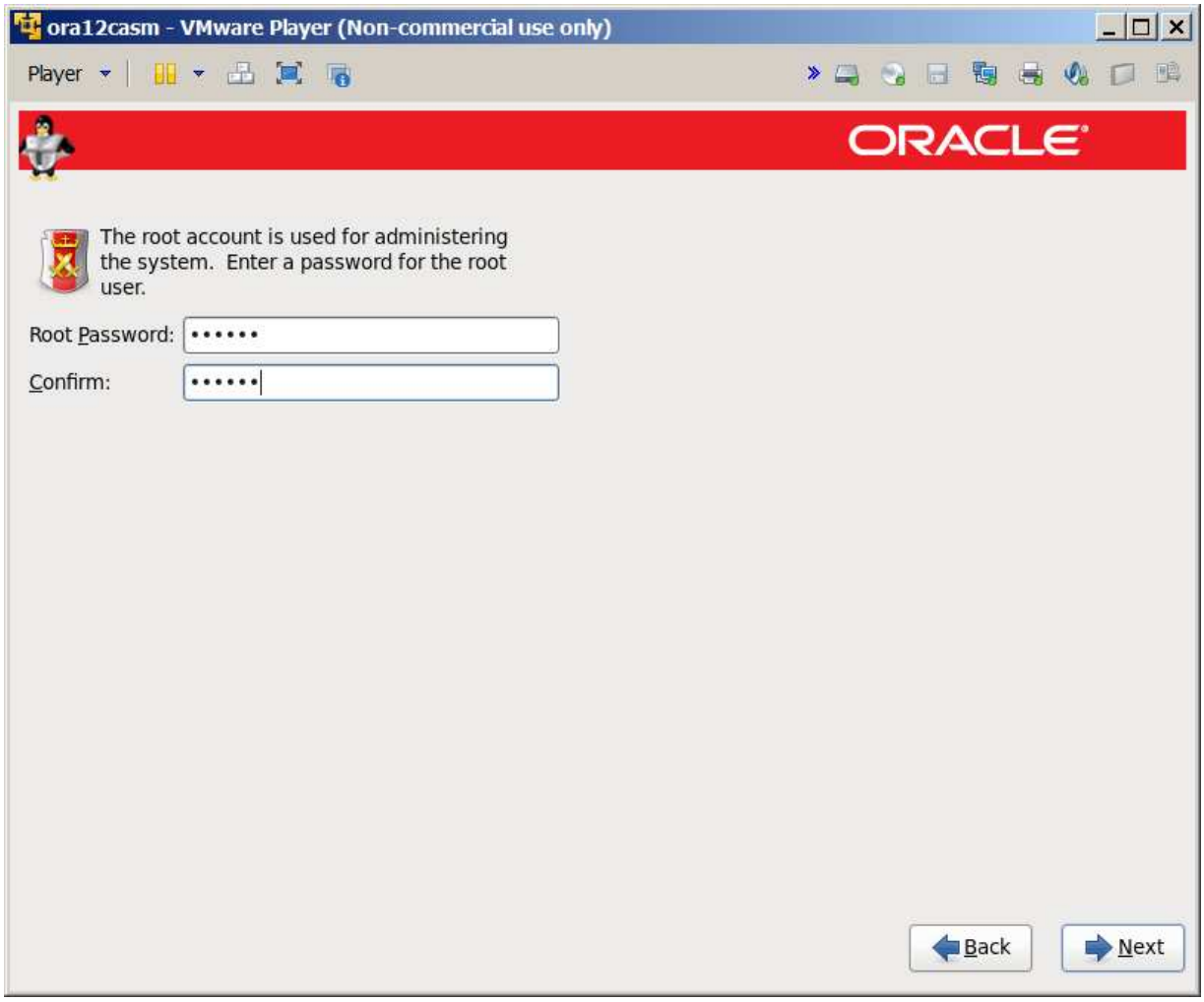

Had to check “Connect automatically”


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
Please name this com
hostname identifies th
network.
Hostname:
ora12casm
Network Connections
Name
Last Used
Wired
System eth0
never
Add
Edit...
Delete...
Close
Configure Network
k
Next

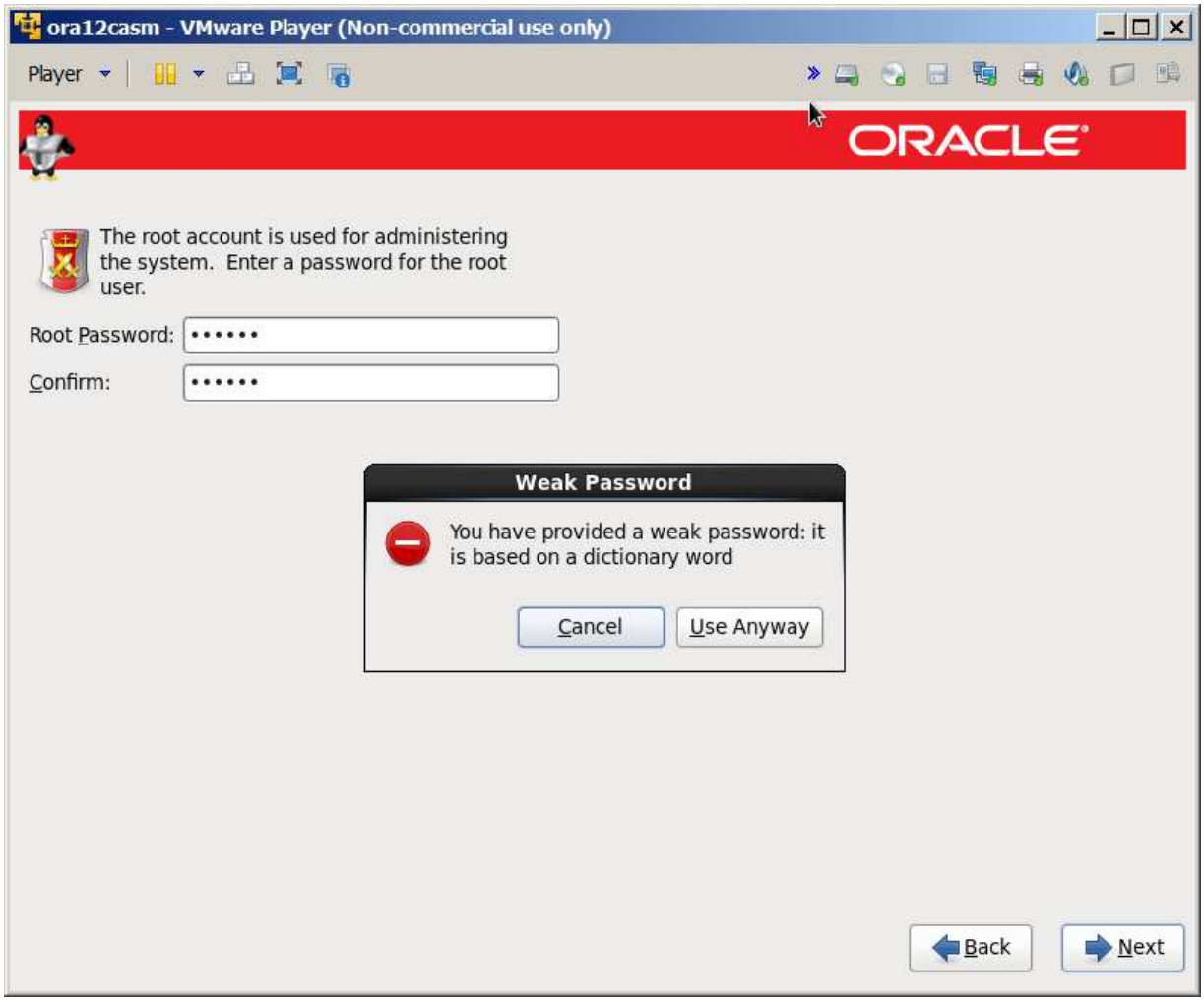
Close



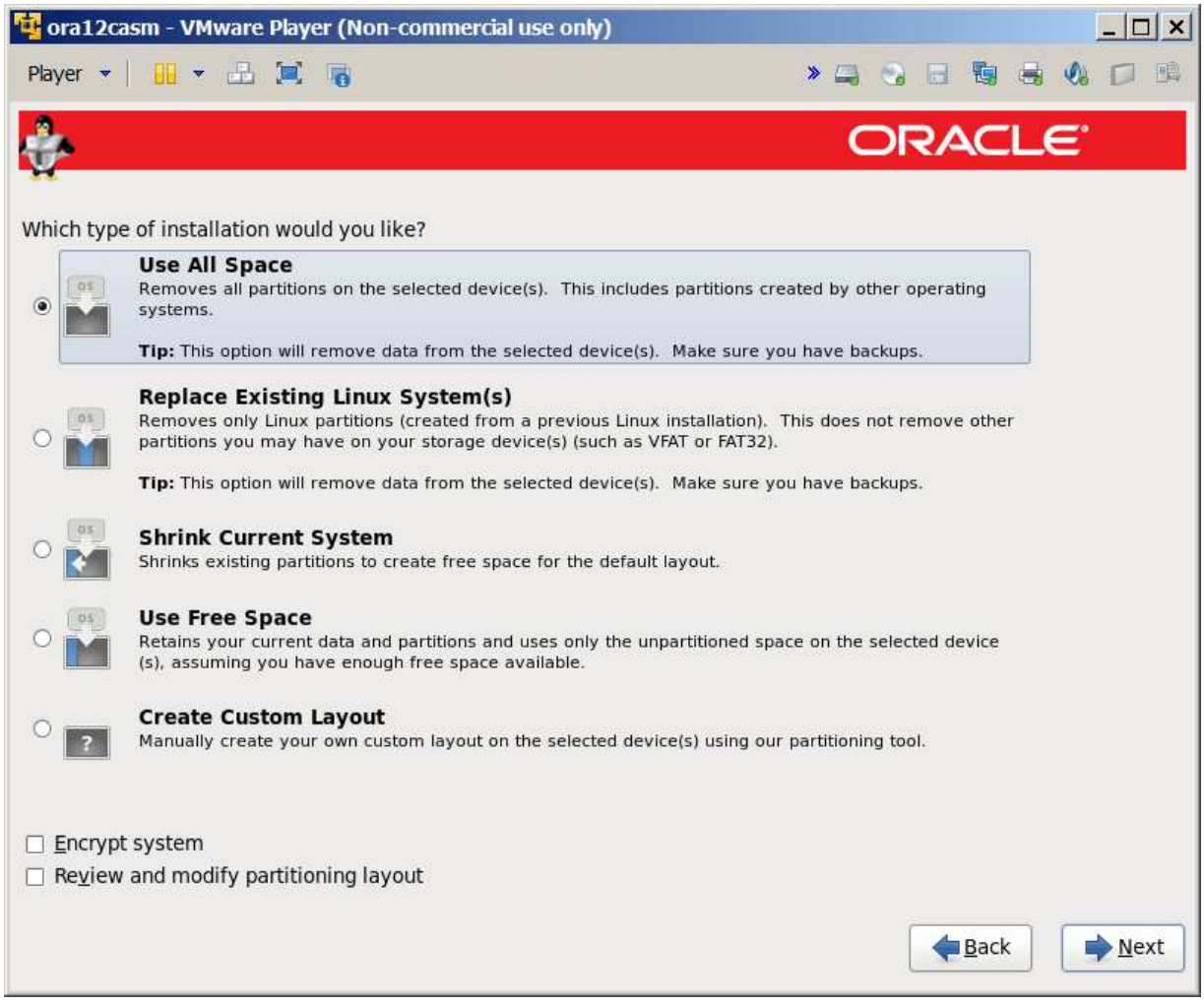

Phoenix for me


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
The root account is used for administering the system. Enter a password for the root user.
Root Password:
Confirm:
Back
Next

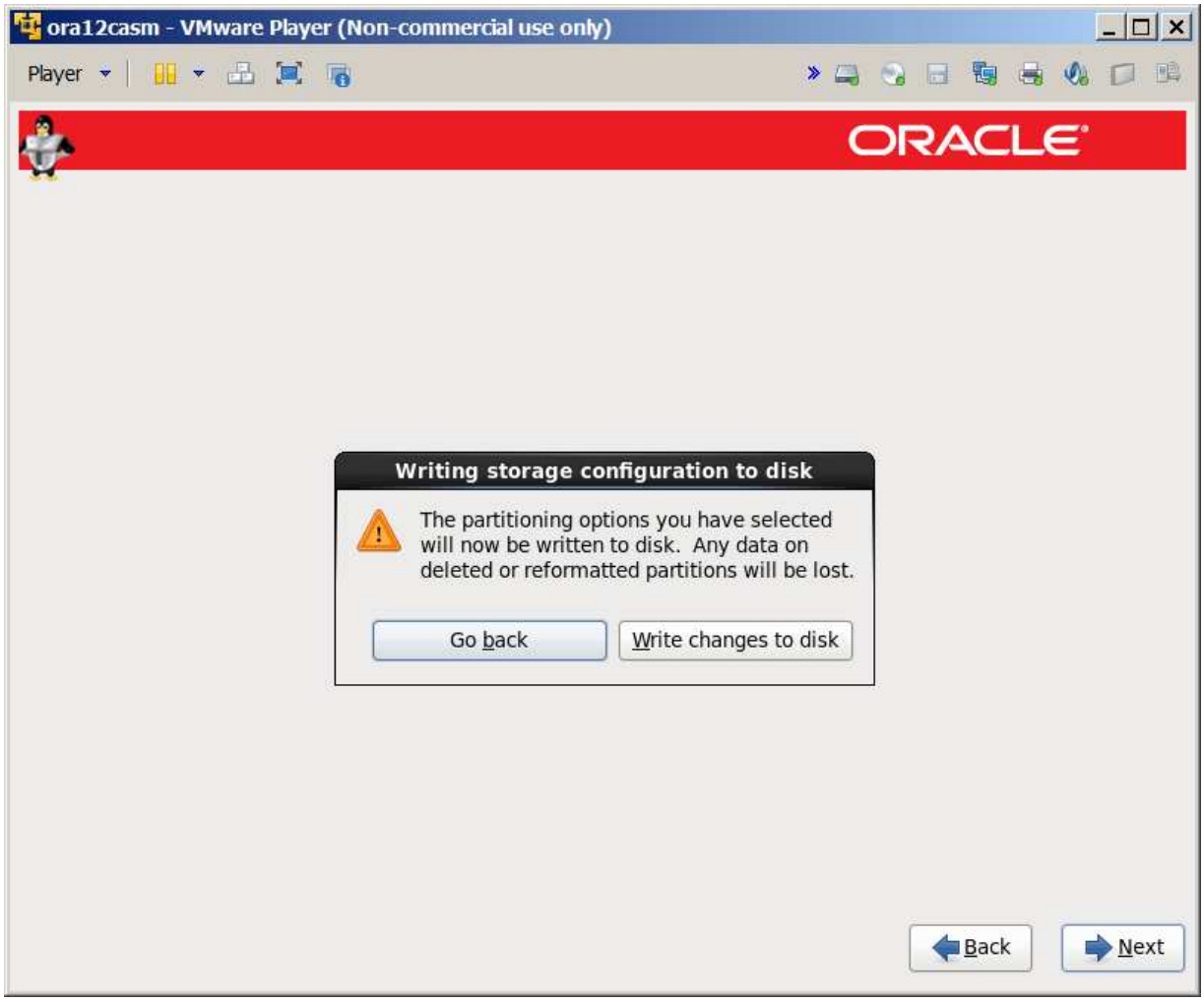
Password


ora12casm - VMware Player (Non-commercial use only)
Player
ORACLE
The root account is used for administering the system. Enter a password for the root user.
Root Password:
Confirm:
Weak Password
You have provided a weak password: it is based on a dictionary word
Cancel
Use Anyway
Back
Next

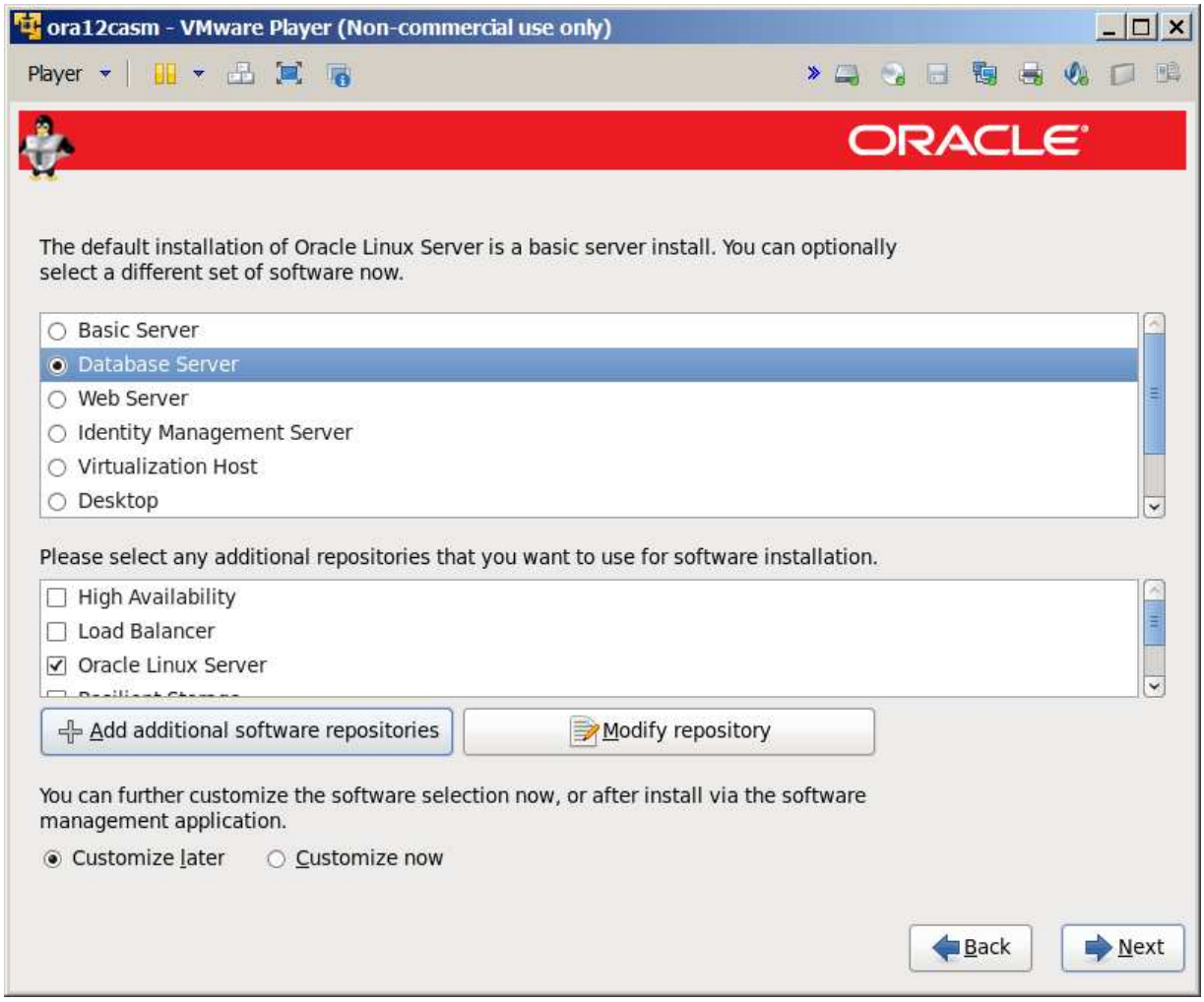
Use anyway



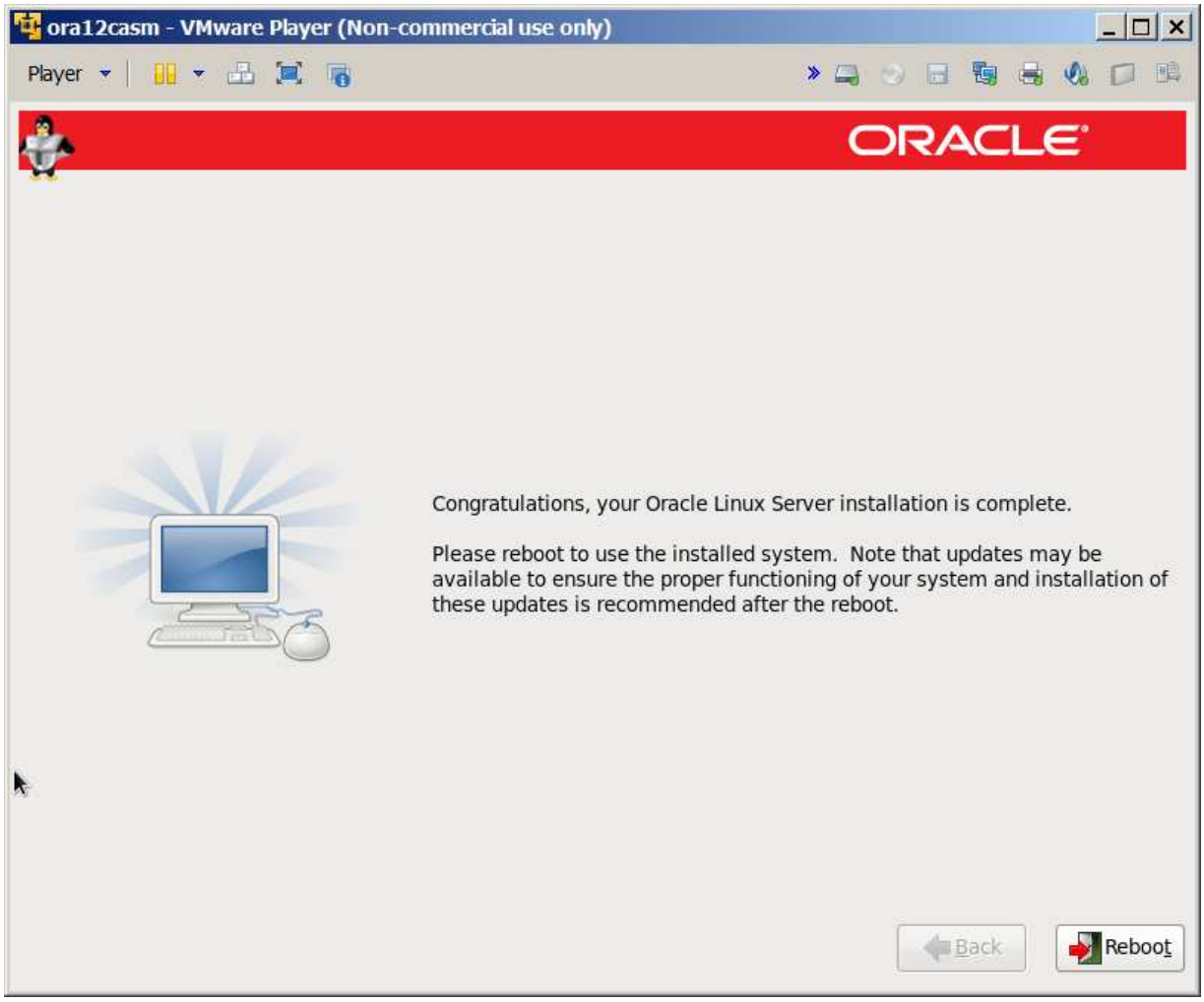

Might as well use all space on virtual disk.



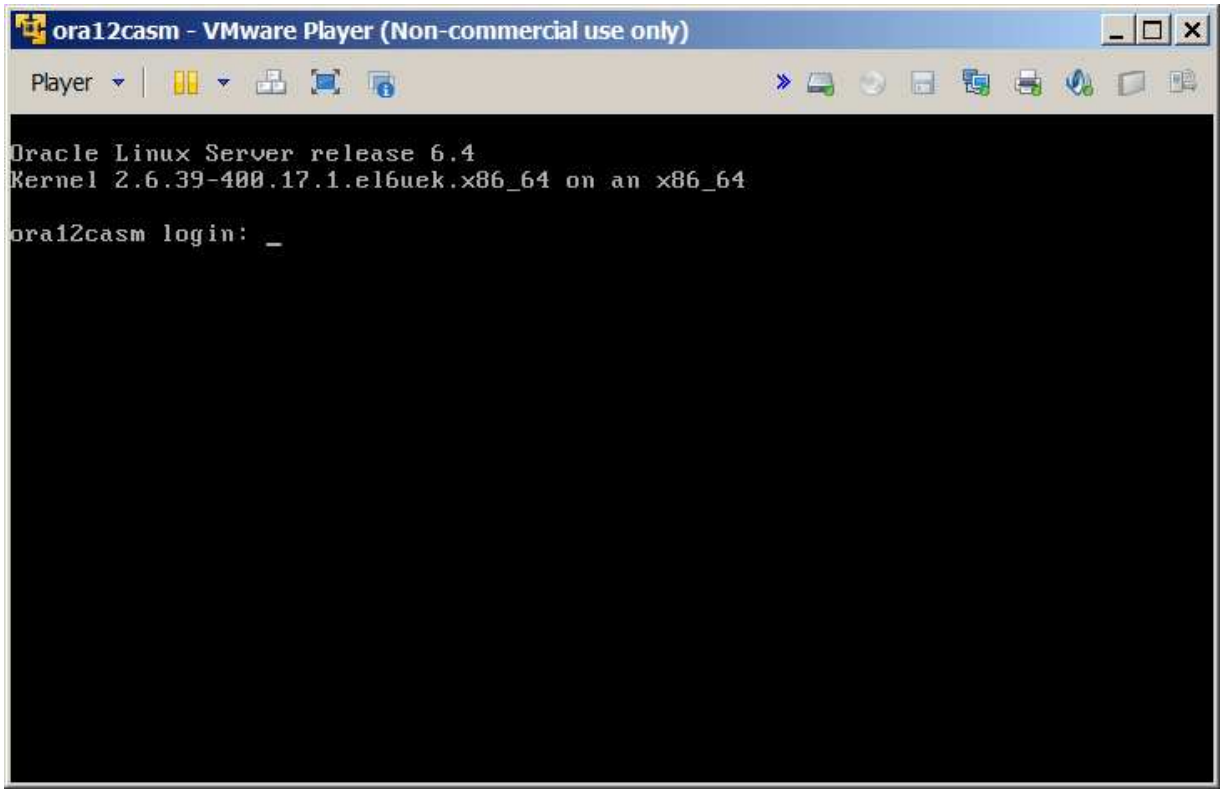

Write to disk




Database server – note that this doesn't have x windows for some reason

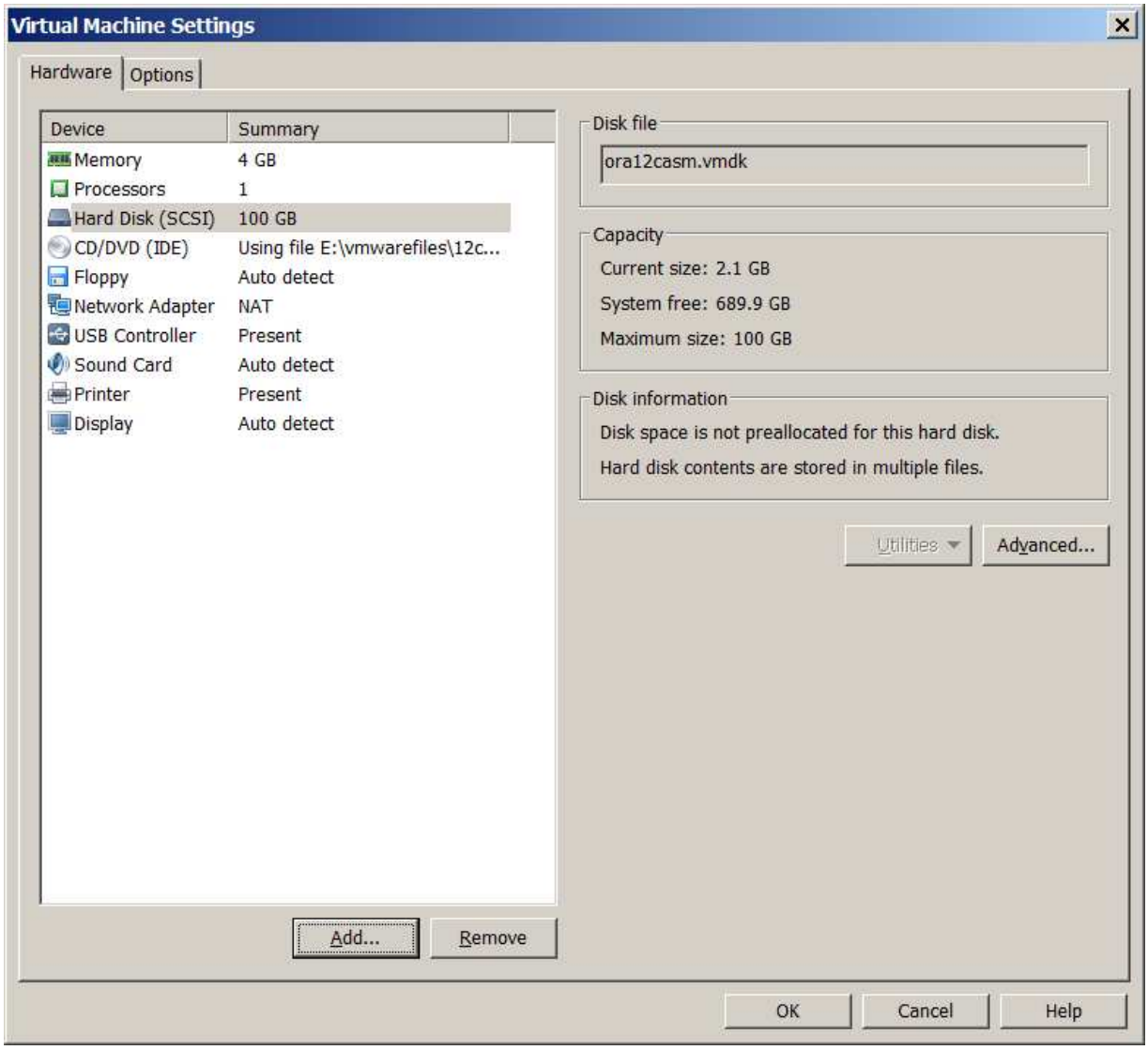


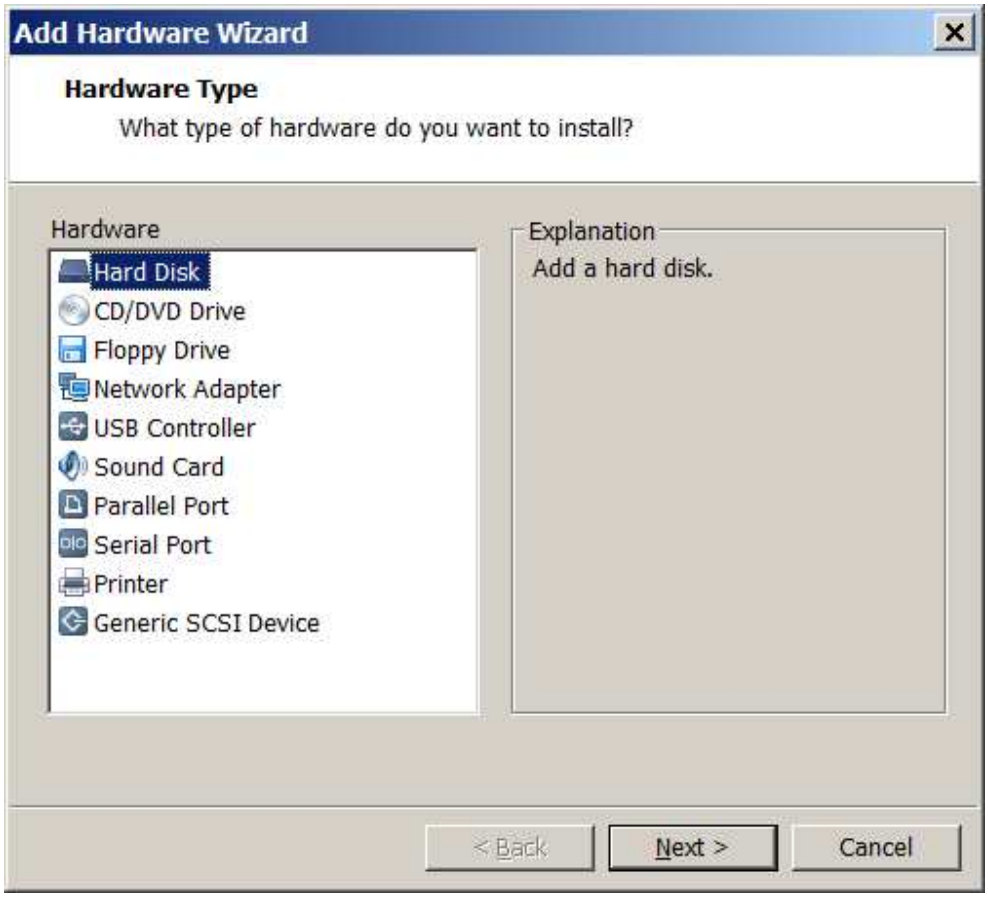

Ready to reboot

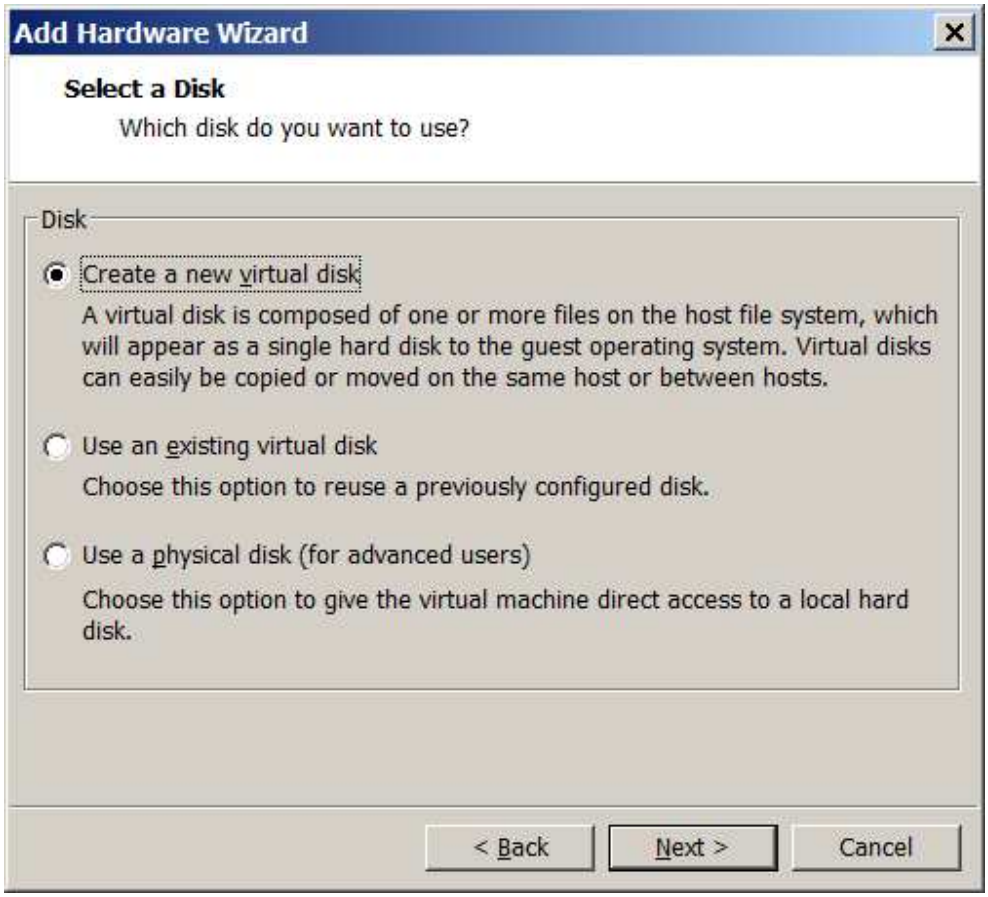


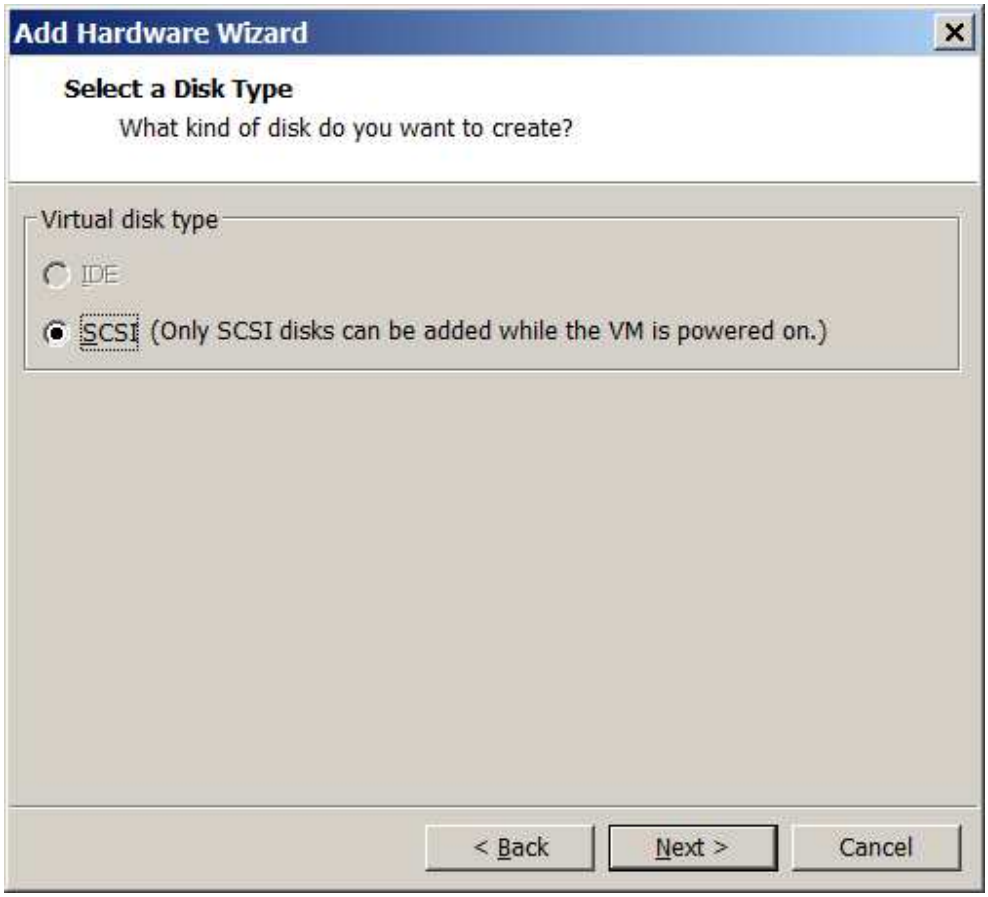

Up with root user only.

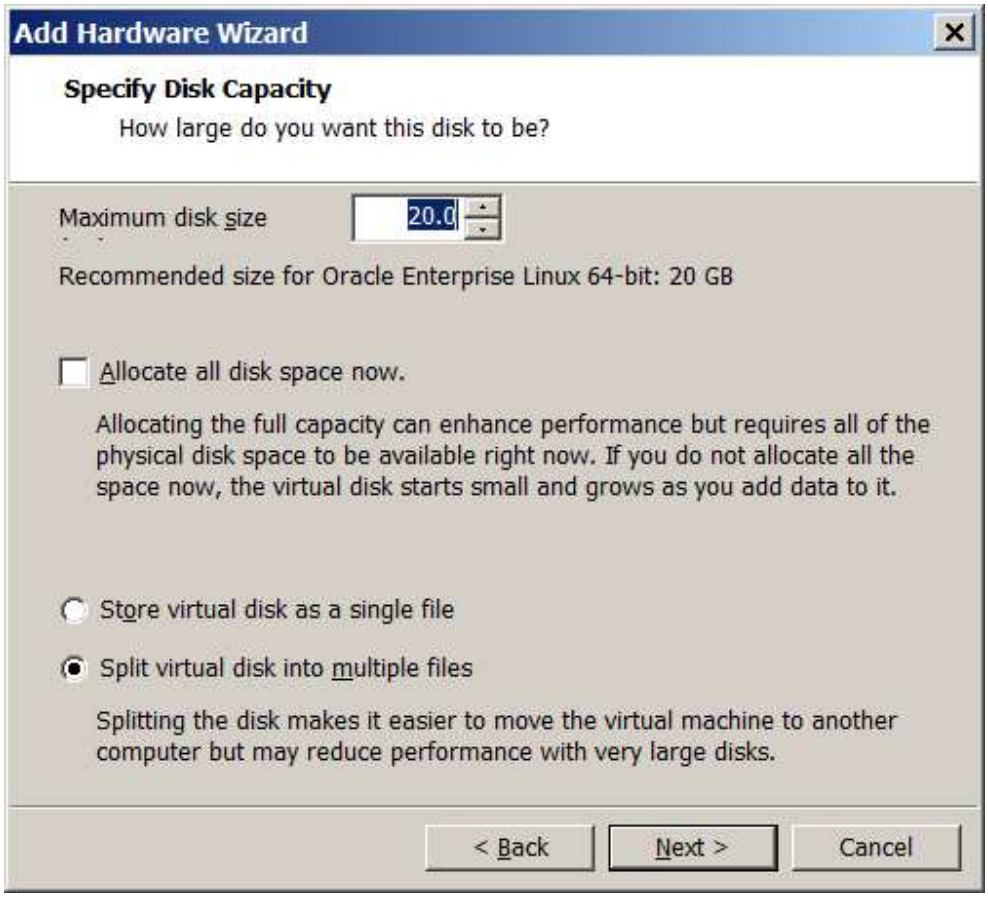
Add a couple of disks for ASM to use:


Virtual Machine Settings
Hardware
Options
Device
Summary
Memory
4 GB
Processors
1
Hard Disk (SCSI)
100 GB
CD/DVD (IDE)
Using file E:\vmwarefiles\12c...
Floppy
Auto detect
Network Adapter
NAT
USB Controller
Present
Sound Card
Auto detect
Printer
Present
Display
Auto detect
Add...
Remove
Disk file
ora12casm.vmdk
Capacity
Current size: 2.1 GB
System free: 689.9 GB
Maximum size: 100 GB
Disk information
Disk space is not preallocated for this hard disk.
Hard disk contents are stored in multiple files.
Utilities
Advanced...
OK
Cancel
Help

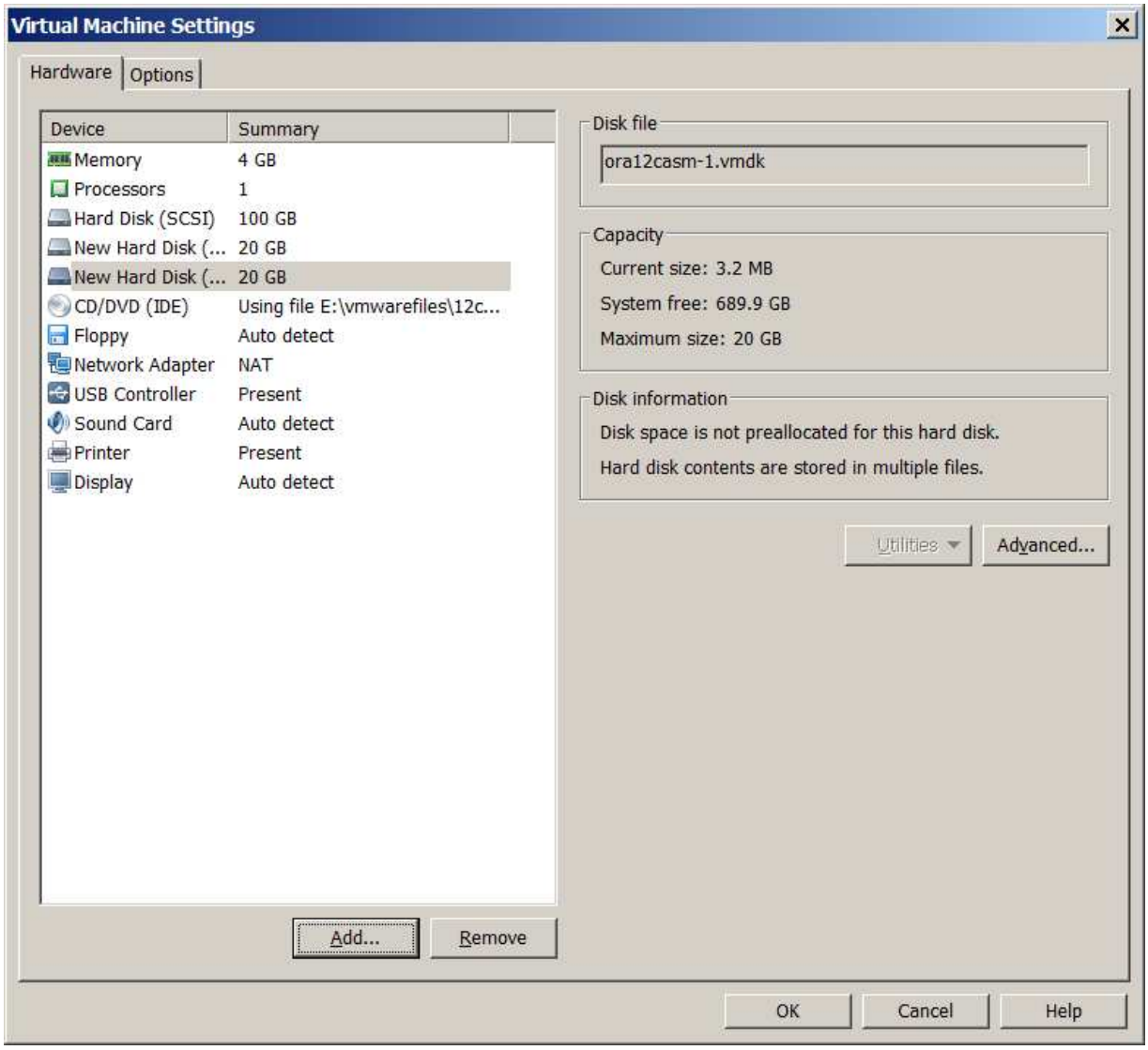

Add Hardware Wizard
Hardware Type
What type of hardware do you want to install?
Hardware
Hard Disk
CD/DVD Drive
Floppy Drive
Network Adapter
USB Controller
Sound Card
Parallel Port
Serial Port
Printer
Generic SCSI Device
Explanation
Add a hard disk.
< Back
Next >
Cancel


Add Hardware Wizard
Select a Disk
Which disk do you want to use?
Disk
Create a new virtual disk
A virtual disk 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.
< Back
Next >
Cancel

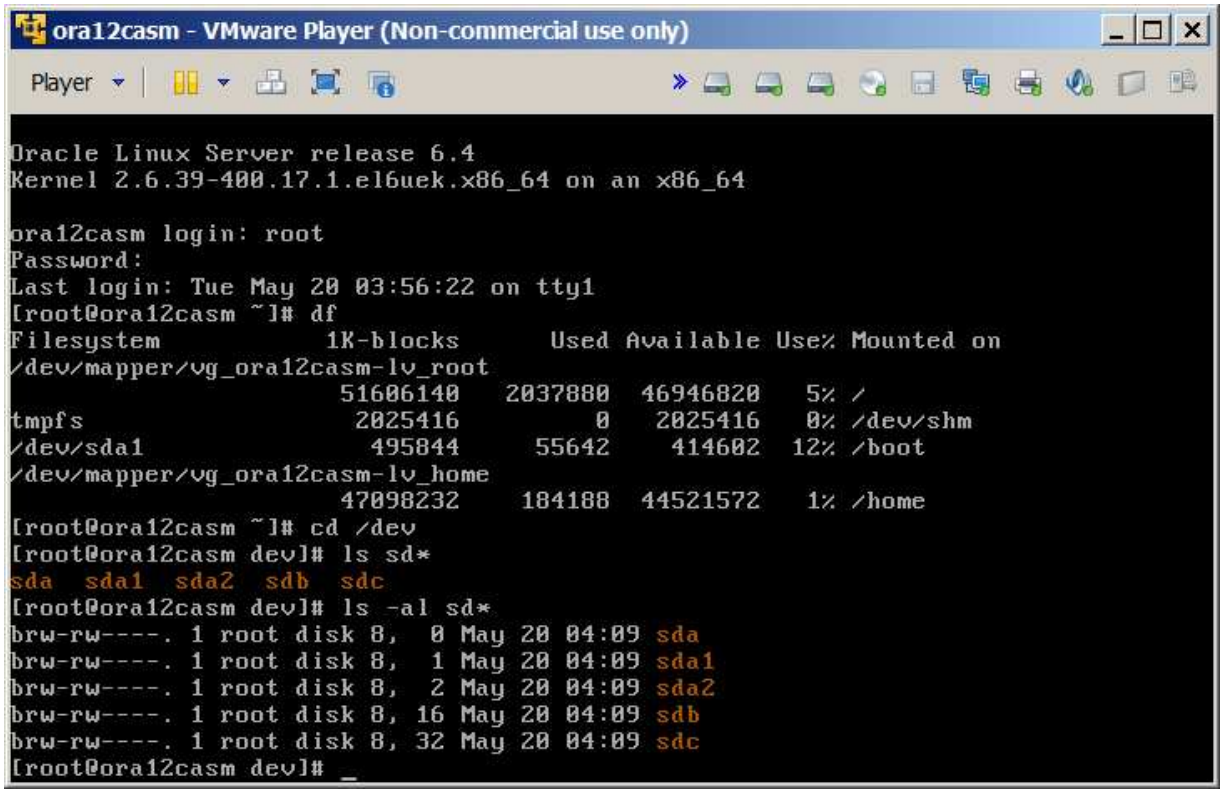

Add Hardware Wizard
Select a Disk Type
What kind of disk do you want to create?
Virtual disk type
IDE
SCSI (Only SCSI disks can be added while the VM is powered on.)
< Back
Next >
Cancel


Add Hardware Wizard
Specify Disk Capacity
How large do you want this disk to be?
Maximum disk size
20.0
Recommended size for Oracle Enterprise Linux 64-bit: 20 GB
Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
< Back
Next >
Cancel

20 gig




2 20 gig disks




I think sdb and sdc are the two new disks.

1. http://docs.oracle.com/cd/E16655_01/install.121/e17720/oraclerestart.htm#CIHCBGCC

standalone grid install

yum install oracleasm-support

/usr/sbin/oracleasm configure -i

/usr/sbin/oracleasm init

/sbin/fdisk -l

fdisk /dev/sdb

/usr/sbin/oracleasm createdisk DISK1 /dev/sdb1

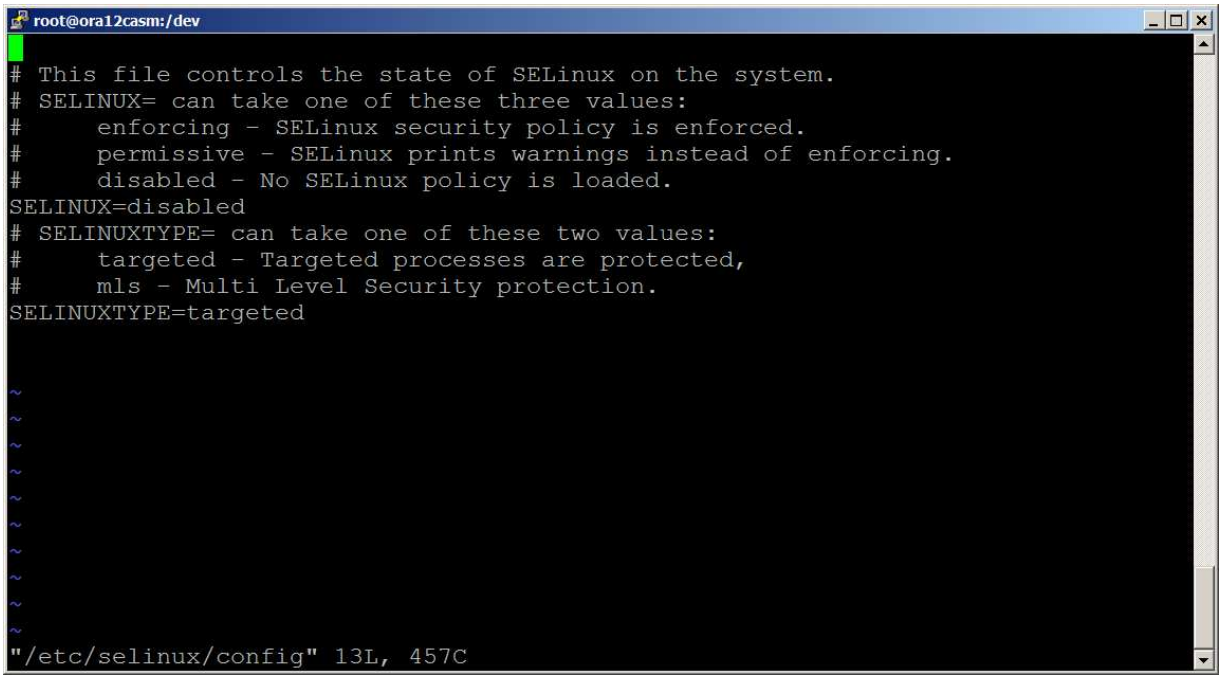
fdisk /dev/sdc

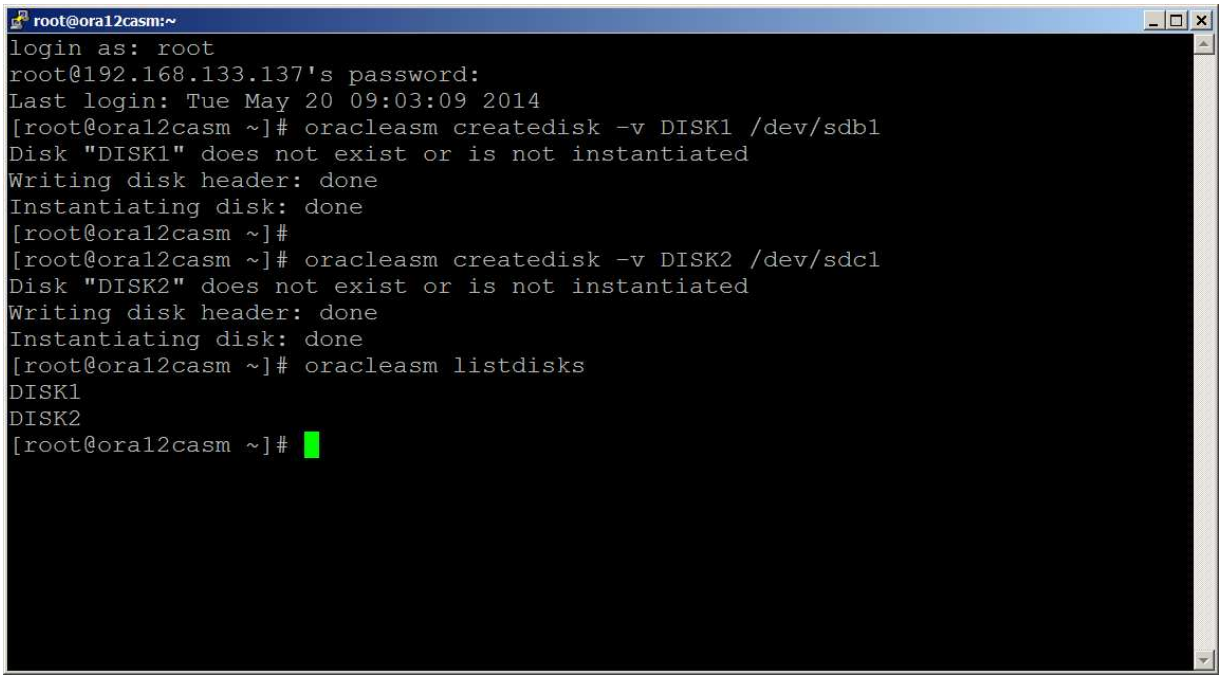
/usr/sbin/oracleasm createdisk DISK2 /dev/sdc1

Disable SELinux:

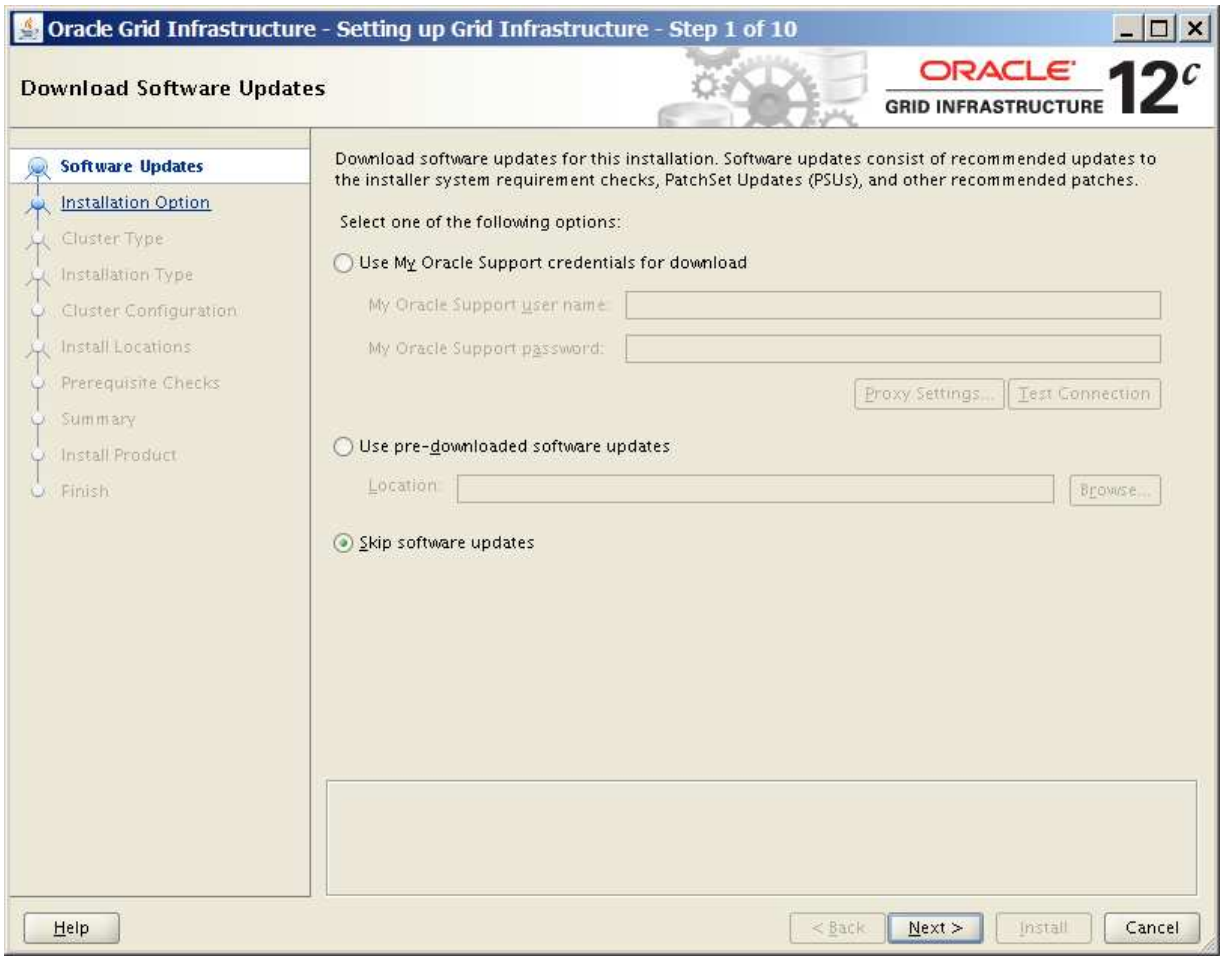
## Edit /etc/selinux/config

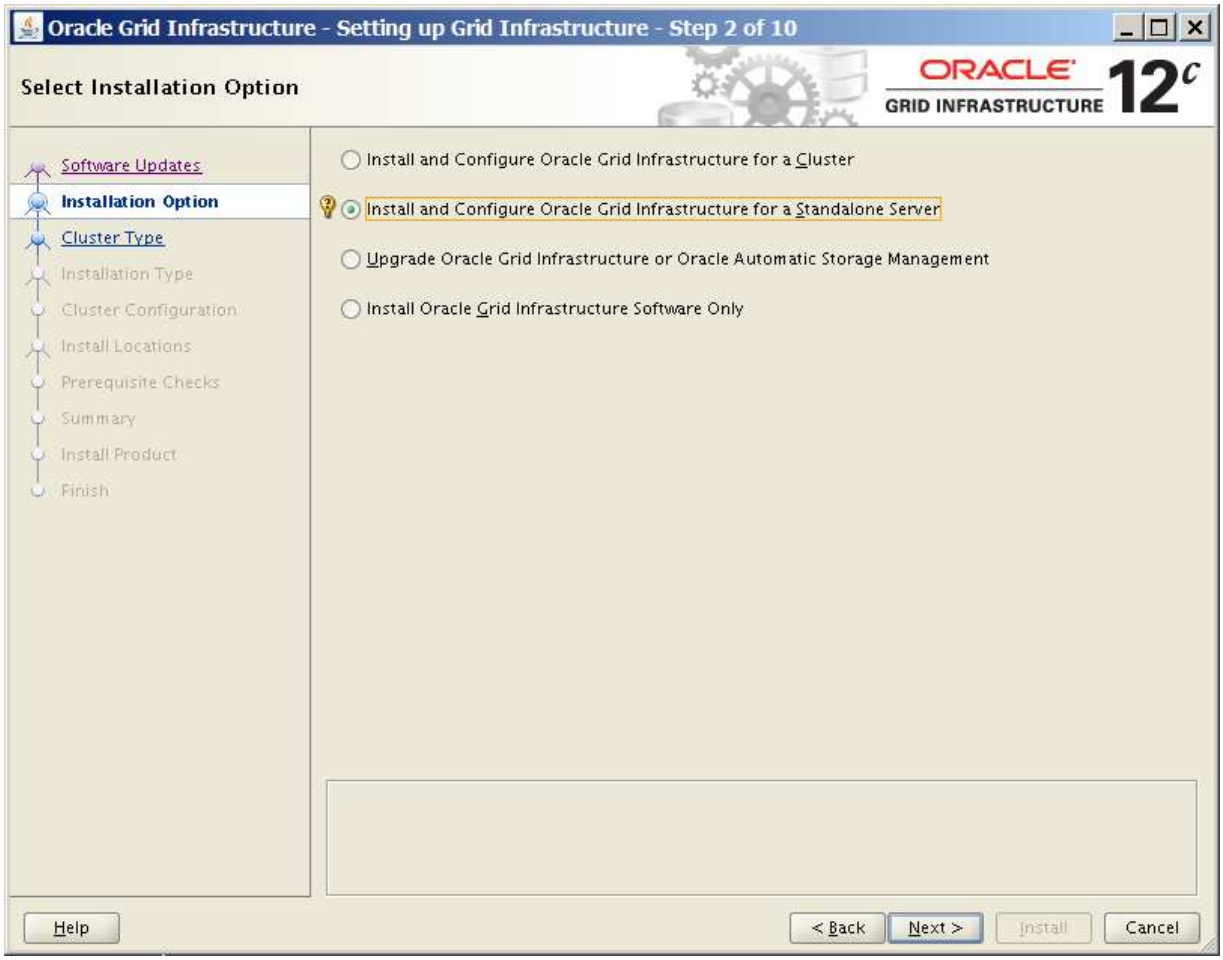
- Change the SELINUX value to "**SELINUX=disabled**".
- Reboot the server.

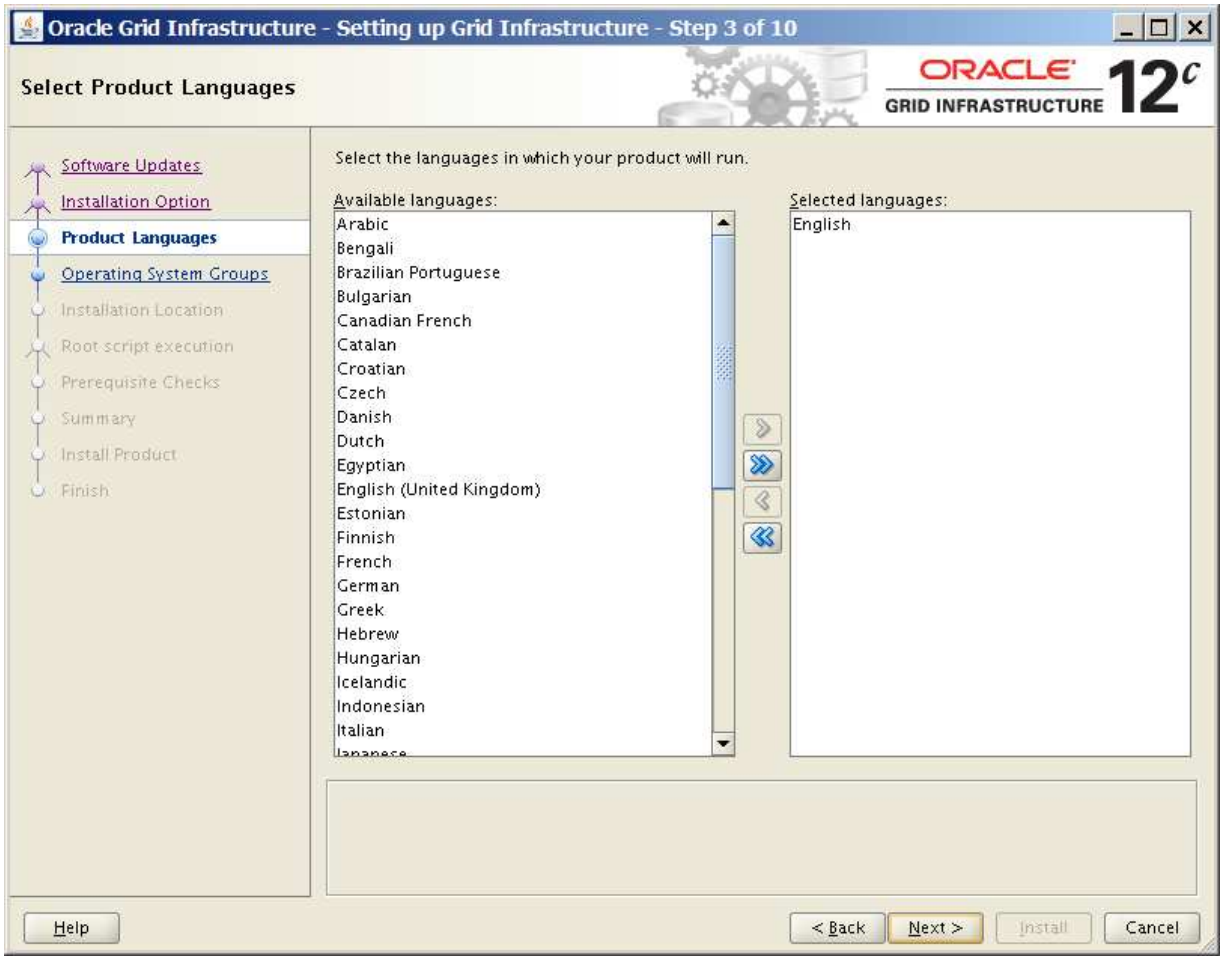


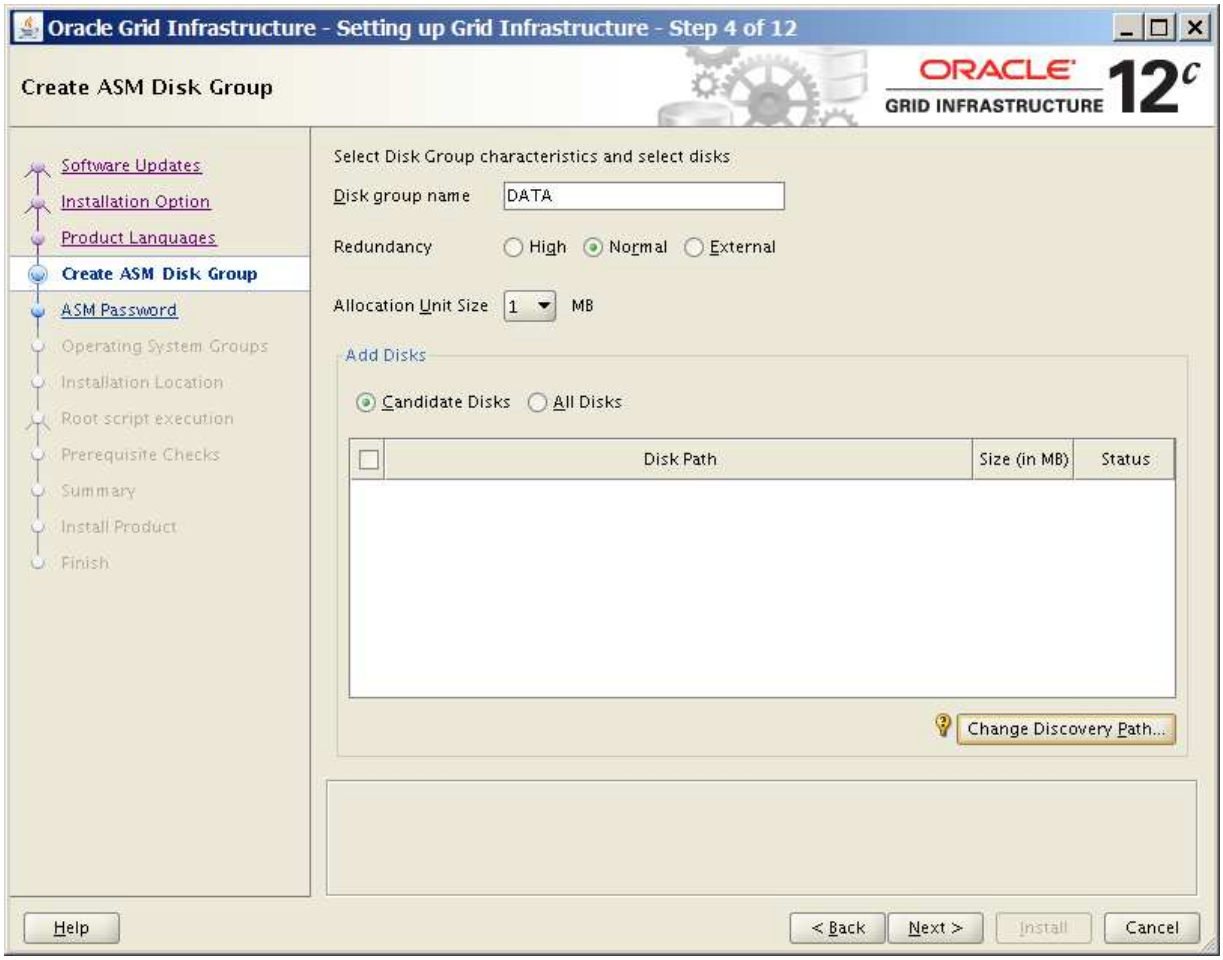



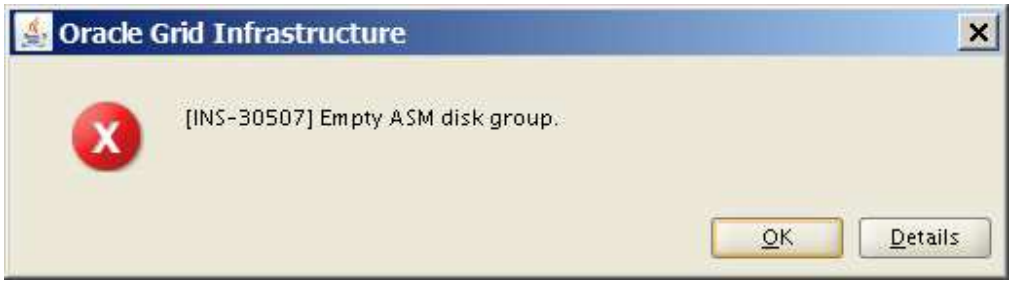

Se linux was the issue.


Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 1 of 10
Download Software Updates
ORACLE
GRID INFRASTRUCTURE
12c
Software Updates
Installation Option
Cluster Type
Installation Type
Cluster Configuration
Install Locations
Prerequisite Checks
Summary
Install Product
Finish
Download software updates for this installation. Software updates consist of recommended updates to the installer system requirement checks, PatchSet Updates (PSUs), and other recommended patches.
Select one of the following options:
Use My Oracle Support credentials for download
My Oracle Support user name:
My Oracle Support password:
Proxy Settings...
Test Connection
Use pre-downloaded software updates
Location:
Browse...
Skip software updates
Help
< Back
Next >
Install
Cancel

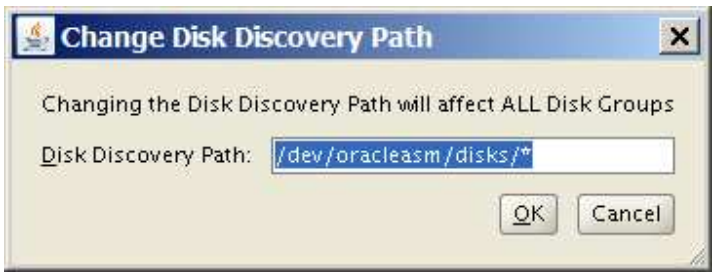

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 2 of 10
Select Installation Option
ORACLE
GRID INFRASTRUCTURE
12c
Software Updates
Installation Option
Cluster Type
Installation Type
Cluster Configuration
Install Locations
Prerequisite Checks
Summary
Install Product
Finish
Install and Configure Oracle Grid Infrastructure for a Cluster
Install and Configure Oracle Grid Infrastructure for a Standalone Server
Upgrade Oracle Grid Infrastructure or Oracle Automatic Storage Management
Install Oracle Grid Infrastructure Software Only
Help
< Back
Next >
Install
Cancel

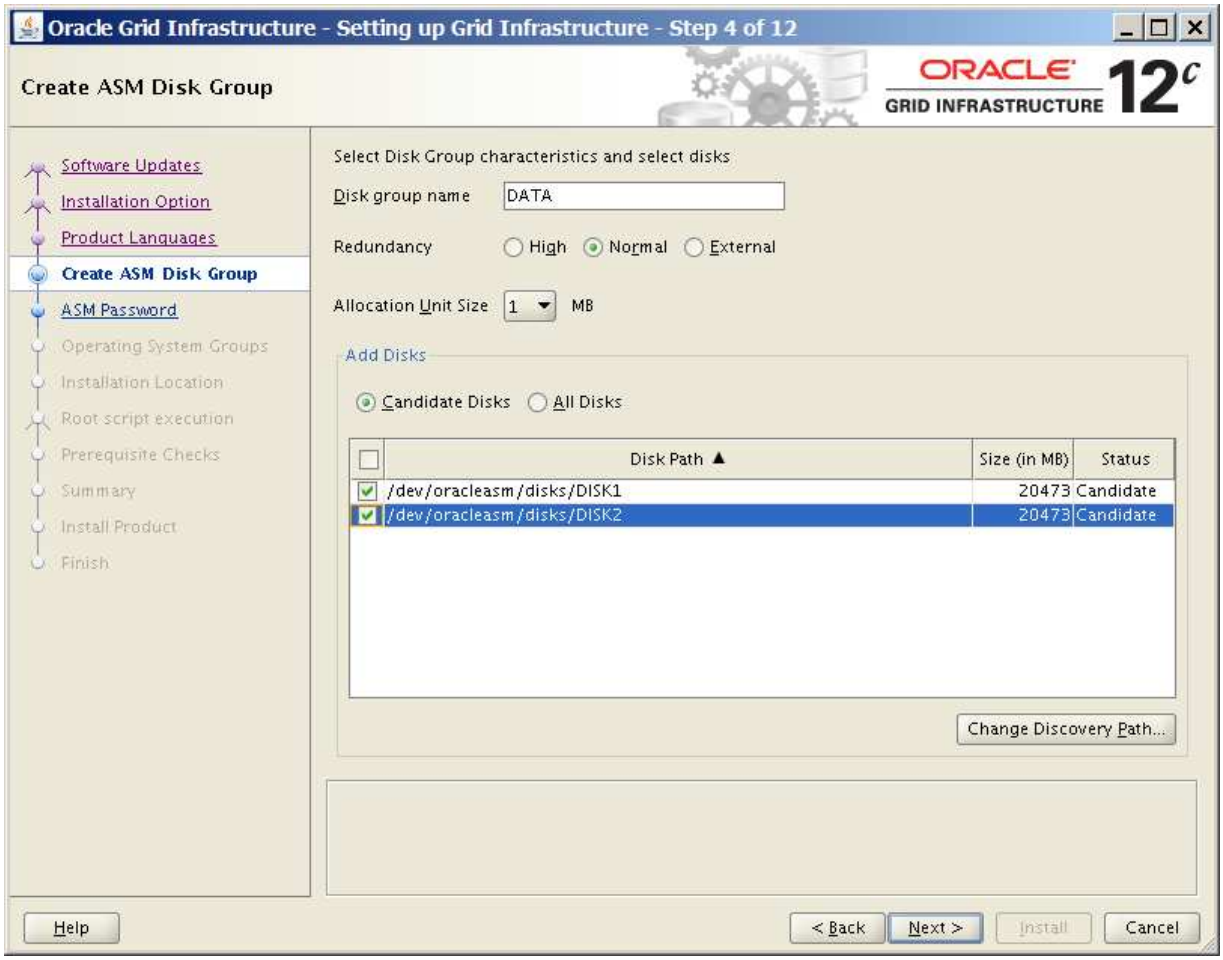

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 3 of 10
Select Product Languages
ORACLE GRID INFRASTRUCTURE 12c
Software Updates
Installation Option
Product Languages
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select the languages in which your product will run.
Available languages:
Arabic
Bengali
Brazilian Portuguese
Bulgarian
Canadian French
Catalan
Croatian
Czech
Danish
Dutch
Egyptian
English (United Kingdom)
Estonian
Finnish
French
German
Greek
Hebrew
Hungarian
Icelandic
Indonesian
Italian
Selected languages:
English
Help
< Back
Next >
Install
Cancel

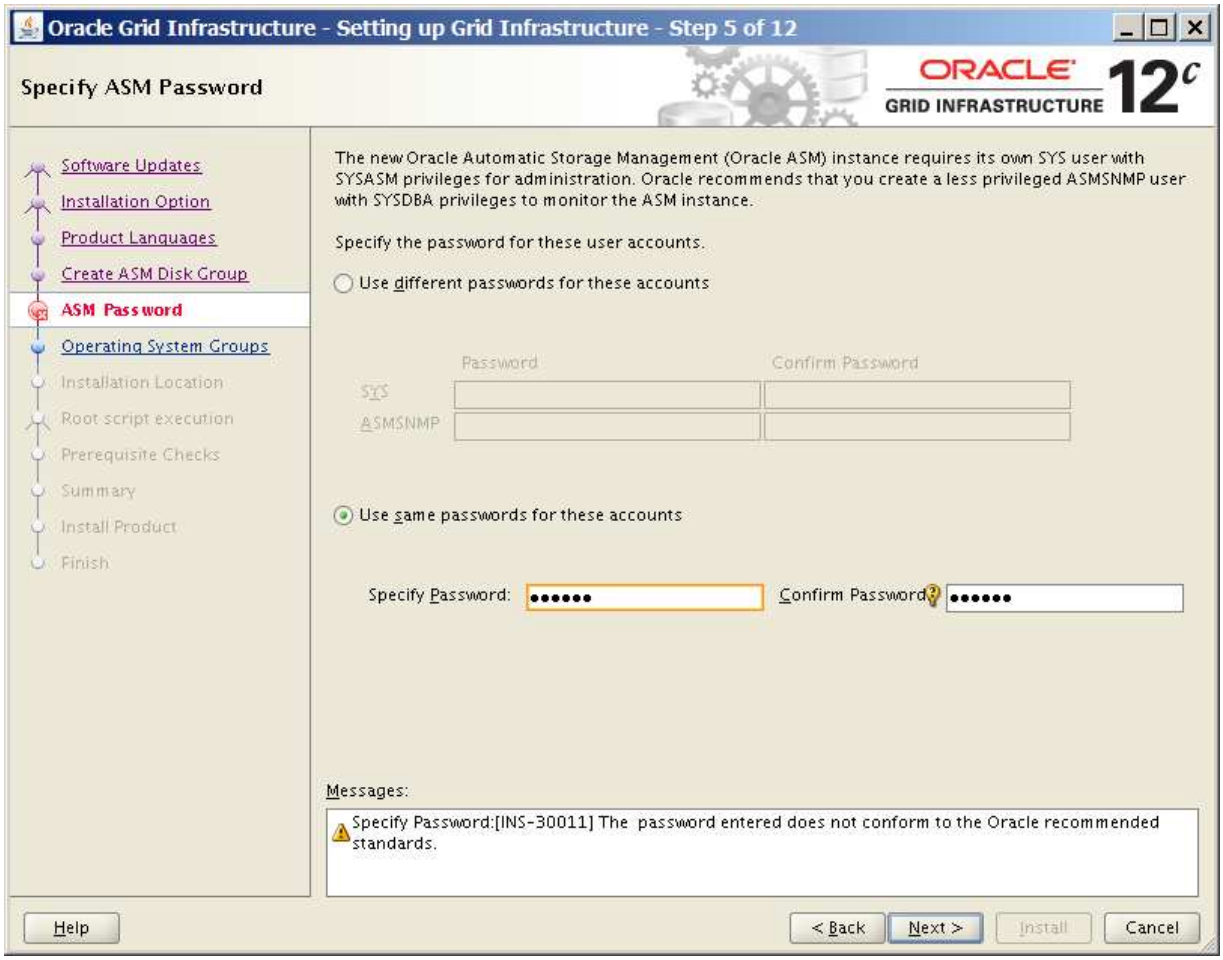



Not seeing the disks we setup in asmlib

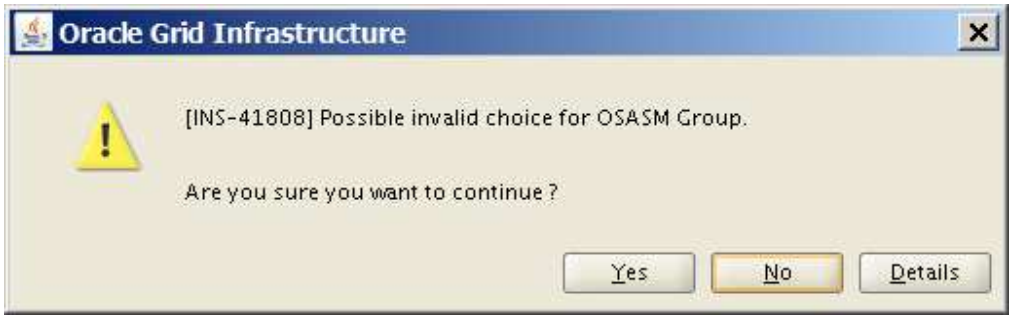



Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 4 of 12
Create ASM Disk Group
ORACLE
GRID INFRASTRUCTURE
12c
Software Updates
Installation Option
Product Languages
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select Disk Group characteristics and select disks
Disk group name
DATA
Redundancy
High
Normal
External
Allocation Unit Size
1
MB
Add Disks
Candidate Disks
All Disks
Disk Path
Size (in MB)
Status
/dev/oracleasm/disks/DISK1
20473
Candidate
/dev/oracleasm/disks/DISK2
20473
Candidate
Change Discovery Path...
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 5 of 12
Specify ASM Password
ORACLE GRID INFRASTRUCTURE 12c
Software Updates
Installation Option
Product Languages
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
The new Oracle Automatic Storage Management (Oracle ASM) instance requires its own SYS user with SYSASM privileges for administration. Oracle recommends that you create a less privileged ASMSNMP user with SYSDBA privileges to monitor the ASM instance.
Specify the password for these user accounts.
Use different passwords for these accounts
Password
Confirm Password
SYS
ASMSNMP
Use same passwords for these accounts
Specify Password:
Confirm Password
Messages:
Specify Password:[INS-30011] The password entered does not conform to the Oracle recommended standards.
Help
< Back
Next >
Install
Cancel

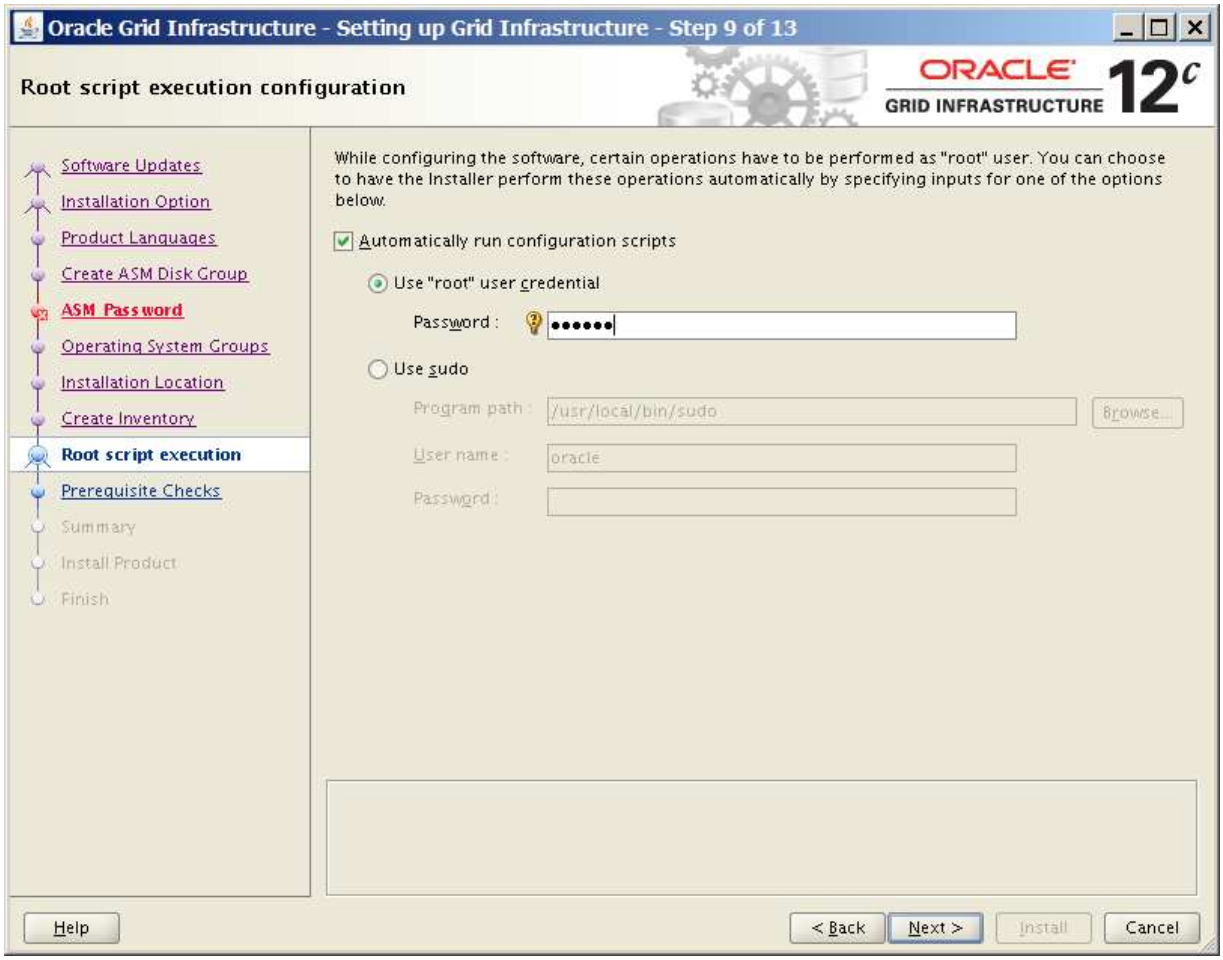
Oracle Grid Infrastructure
[INS-30011] The SYS password entered does not conform to the Oracle recommended standards.
[INS-30011] The ASMSNMP password entered does not conform to the Oracle recommended standards.
Are you sure you want to continue ?
Yes
No
Details

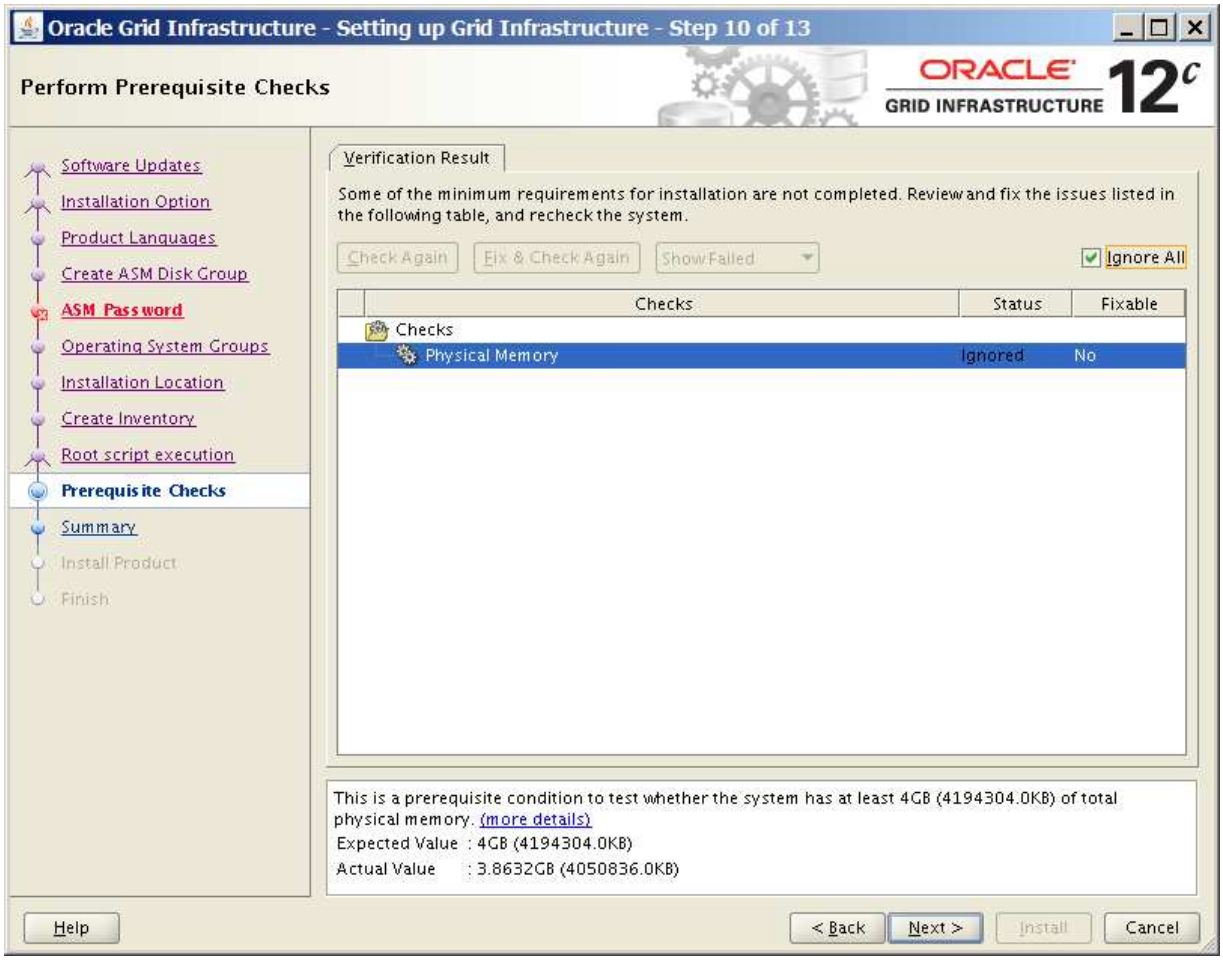
Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 6 of 12
Privileged Operating System Groups
ORACLE GRID INFRASTRUCTURE 12c
Software Updates
Installation Option
Product Languages
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select the name of the operating system group, that you want to use for operating system authentication to Oracle Automatic Storage Management.
Oracle ASM Administrator (OSASM) Group
dba
Oracle ASM DBA (OSDBA for ASM) Group
oinstall
Oracle ASM Operator (OSOPER for ASM) Group (Optional)
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure
[INS-41808] Possible invalid choice for OSASM Group.
Are you sure you want to continue ?
Yes
No
Details

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 7 of 12
Specify Installation Location
ORACLE
GRID INFRASTRUCTURE
12c
Software Updates
Installation Option
Product Languages
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Specify a base location for storing all Oracle software and configuration-related files. This location is the Oracle base directory. Create one Oracle base for each operating system user. By default, software and configuration files are installed by version and database name in the Oracle base directory.
Oracle base: /u01/app/oracle
Browse...
Specify a location for storing Oracle software files separate from configuration files in the Oracle base directory. This software directory is the Oracle Grid Infrastructure home directory.
Software location: /u01/app/oracle/product/12.1.0/grid
Browse...
Help
< Back
Next >
Install
Cancel

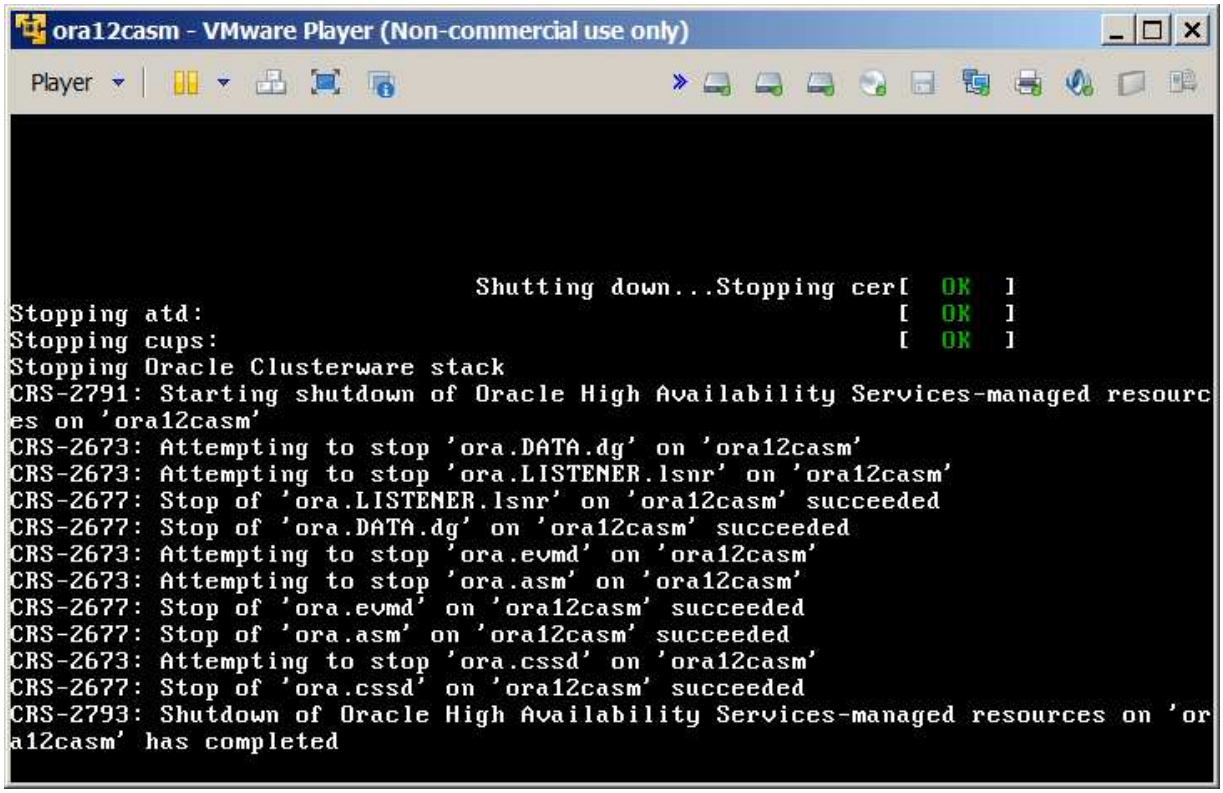
Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 8 of 13
Create Inventory
ORACLE
GRID INFRASTRUCTURE 12c
Software Updates
Installation Option
Product Languages
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Create Inventory
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
You are starting your first installation on this host. Specify a directory for installation metadata files (for example, install log files). This directory is called the "inventory directory". The installer automatically sets up subdirectories for each product to contain inventory data. The subdirectory for each product typically requires 150 kilobytes of disk space.
Inventory Directory: /u01/app/oraInventory
Browse...
Members of the following operating system group (the primary group) will have write permission to the inventory directory (oraInventory).
oraInventory Group Name: oinstall
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 9 of 13
Root script execution configuration
ORACLE GRID INFRASTRUCTURE 12c
Software Updates
Installation Option
Product Languages
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Create Inventory
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
While configuring the software, certain operations have to be performed as "root" user. You can choose to have the Installer perform these operations automatically by specifying inputs for one of the options below.
Automatically run configuration scripts
Use "root" user credential
Password :
Use sudo
Program path :
/usr/local/bin/sudo
Browse...
User name :
oracle
Password :
Help
< Back
Next >
Install
Cancel




Fails memory check.

Notice how shutdown works:




Notice that on shutdown the services are stopped.