

# Installing “CentOS-7.x” on VMware Environment

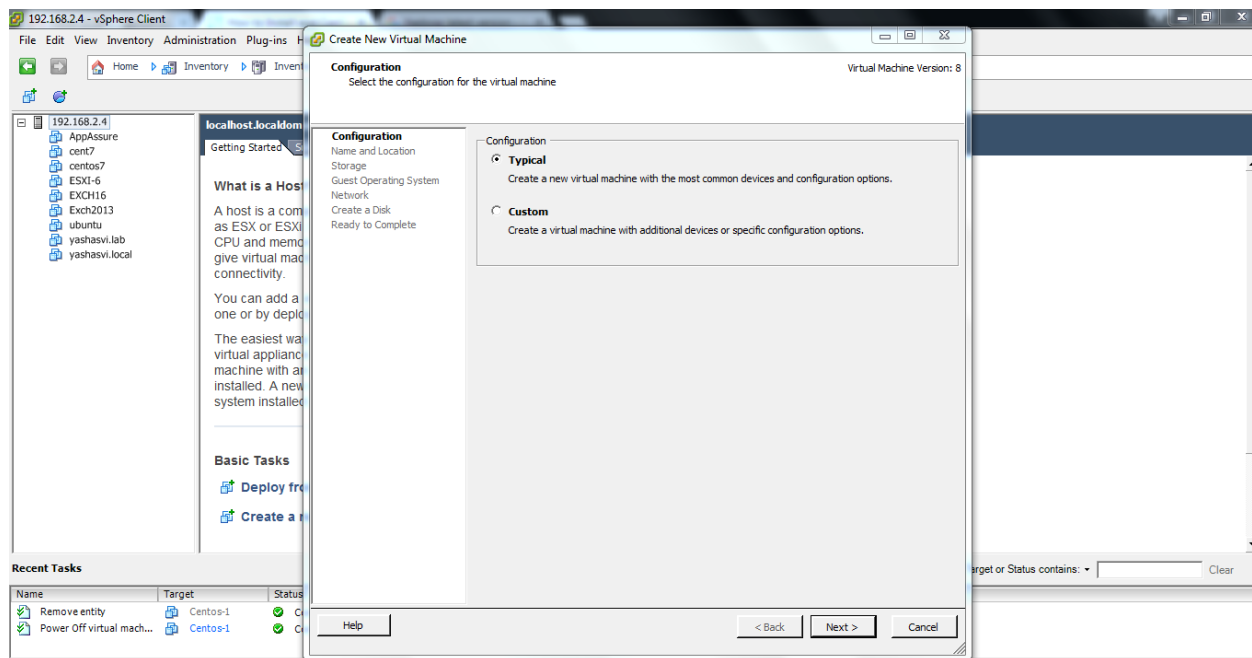
Hi... here I am installing CentOS-7.x on **Esxi** which is VMware environment, you can follow the same steps to install on physical also with ISO file. Or you can do the same thing in VMware workstation also the steps as follows.

## Requirements:

ESXI installed VMware environment or you can use VMware Work station as well, CentOS-7.x ISO file.

Let's begin....

Right click on the host and click on **create new virtual machine** that results as below and click on **typical** if it is not selected, and click on **next** as below,



Name the virtual machine as below and click **next**

**Create New Virtual Machine**

**Name and Location**  
Specify a name and location for this virtual machine

Virtual Machine Version: 8

[Configuration](#)

**Name and Location**

Storage

Guest Operating System

Network

Create a Disk

Ready to Complete

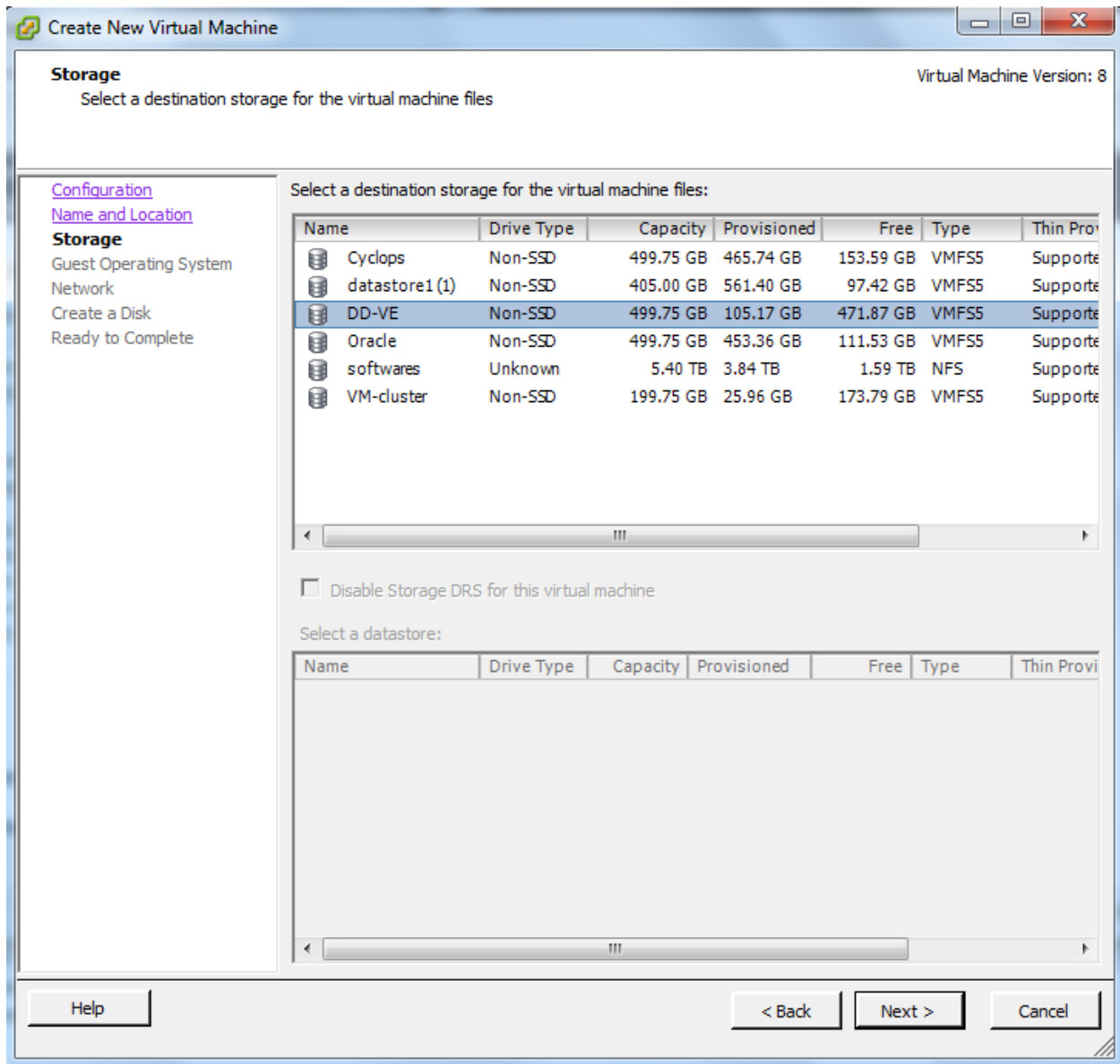
Name:  
Hadoop

Virtual machine (VM) names may contain up to 80 characters and they must be unique within each vCenter Server VM folder.

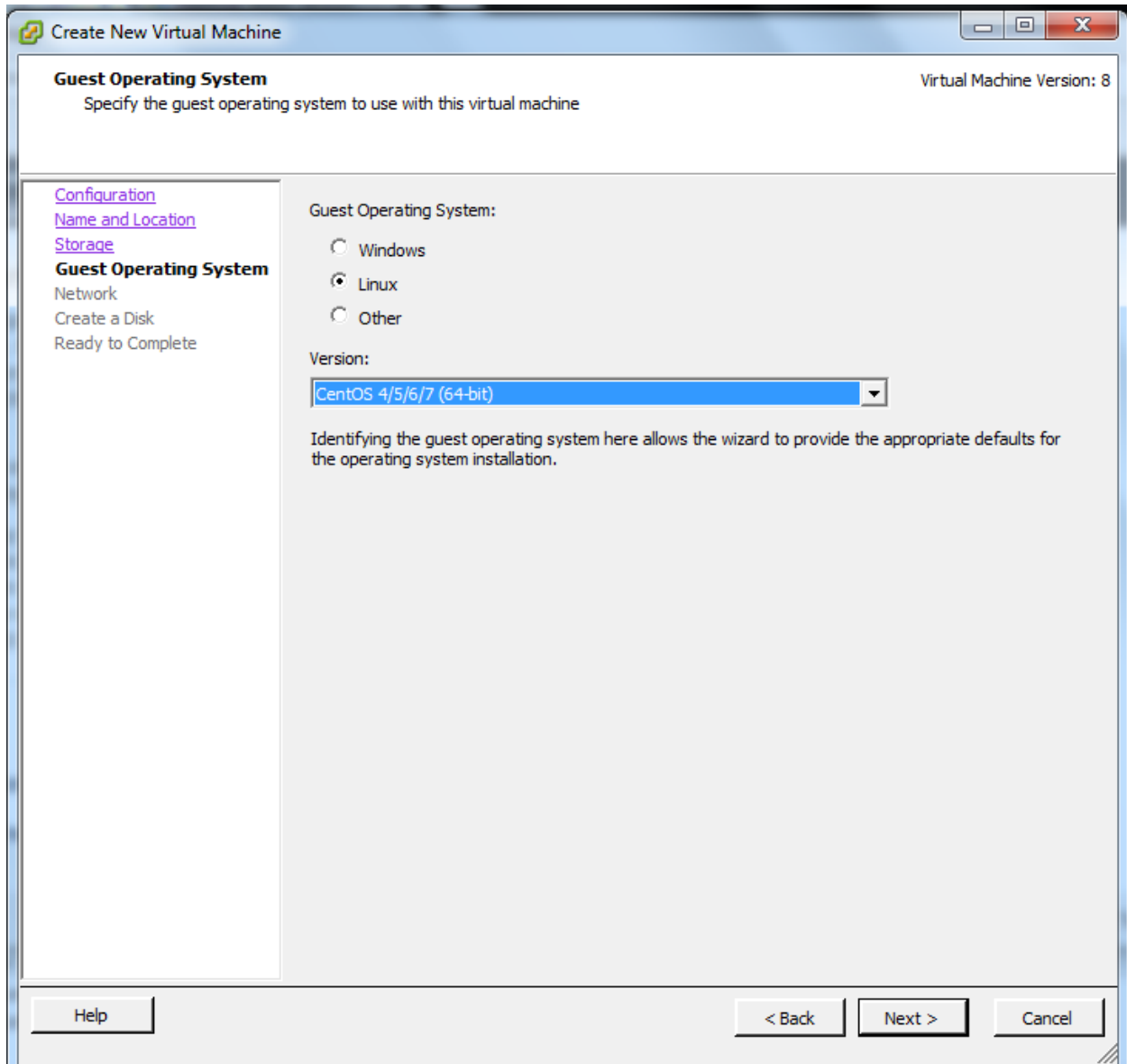
VM folders are not viewable when connected directly to a host. To view VM folders and specify a location for this VM, connect to the vCenter Server.

Help < Back Next > Cancel

That results as below and select the storage where you want to store the virtual machine file(vmdk) as shown below,



Then click on **next** then select type of operating system you want to  
Install and click **next**



Then add the number of network adapters you want as below, then click next

Create New Virtual Machine

Virtual Machine Version: 8

**Network**  
Which network connections will be used by the virtual machine?


[Configuration](#)  
[Name and Location](#)  
[Storage](#)  
[Guest Operating System](#)  
**Network**  
Create a Disk  
Ready to Complete

Create Network Connections

How many NICs do you want to connect?

2

|        | Network    | Adapter  | Connect at Power On                 |
|--------|------------|----------|-------------------------------------|
| NIC 1: | VM Network | VMXNET 3 | <input checked="" type="checkbox"/> |
| NIC 2: | VM Network | VMXNET 3 | <input checked="" type="checkbox"/> |



If supported by this virtual machine version, more than 4 NICs can be added after the virtual machine is created, via its Edit Settings dialog.

Adapter choice can affect both networking performance and migration compatibility. Consult the [VMware KnowledgeBase](#) for more information on choosing among the network adapters supported for various guest operating systems and hosts.

Help

< Back

Next >

Cancel

Then create a virtual disk enter the size and select the radio button as thin provision and click next

The screenshot shows the 'Create New Virtual Machine' wizard, specifically the 'Create a Disk' step. The window title is 'Create New Virtual Machine'. The subtitle is 'Create a Disk' with the instruction 'Specify the virtual disk size and provisioning policy'. The version is 'Virtual Machine Version: 8'. On the left, there is a navigation pane with links: 'Configuration', 'Name and Location', 'Storage', 'Guest Operating System', 'Network', and 'Create a Disk' (which is highlighted and shows 'Ready to Complete'). The main area contains the following fields and options:

- Datastore:** A text box containing 'DD-VE'.
- Available space (GB):** A text box containing '471.9'.
- Virtual disk size:** A spinner box set to '50' and a dropdown menu set to 'GB'.
- Provisioning Policy:** Three radio buttons:
  - ☐ Thick Provision Lazy Zeroed
  - ☐ Thick Provision Eager Zeroed
  - ☒ Thin Provision


At the bottom, there are three buttons: 'Help', '< Back', 'Next >', and 'Cancel'.

Select the check mark **edit virtual machine before completion** then click on continue, as below

The screenshot shows the 'Create New Virtual Machine' wizard in a window titled 'Create New Virtual Machine'. The window has standard Windows-style window controls (minimize, maximize, close) in the top right corner. The main area is titled 'Ready to Complete' and includes the instruction 'Click Finish to start a task that will create the new virtual machine'. In the top right corner of the main area, it says 'Virtual Machine Version: 8'. On the left side, there is a navigation pane with links: 'Configuration' (selected), 'Name and Location', 'Storage', 'Guest Operating System', 'Network', 'Create a Disk', and 'Ready to Complete'. The main content area is titled 'Settings for the new virtual machine:' and contains a table of settings. At the bottom of this area, there is a checkbox labeled 'Edit the virtual machine settings before completion' which is checked. Below this checkbox is a warning icon and text: 'Creation of the virtual machine (VM) does not include automatic installation of the guest operating system. Install a guest OS on the VM after creating the VM.' At the bottom of the window, there are three buttons: 'Help', '< Back', and 'Continue', and a 'Cancel' button on the right.

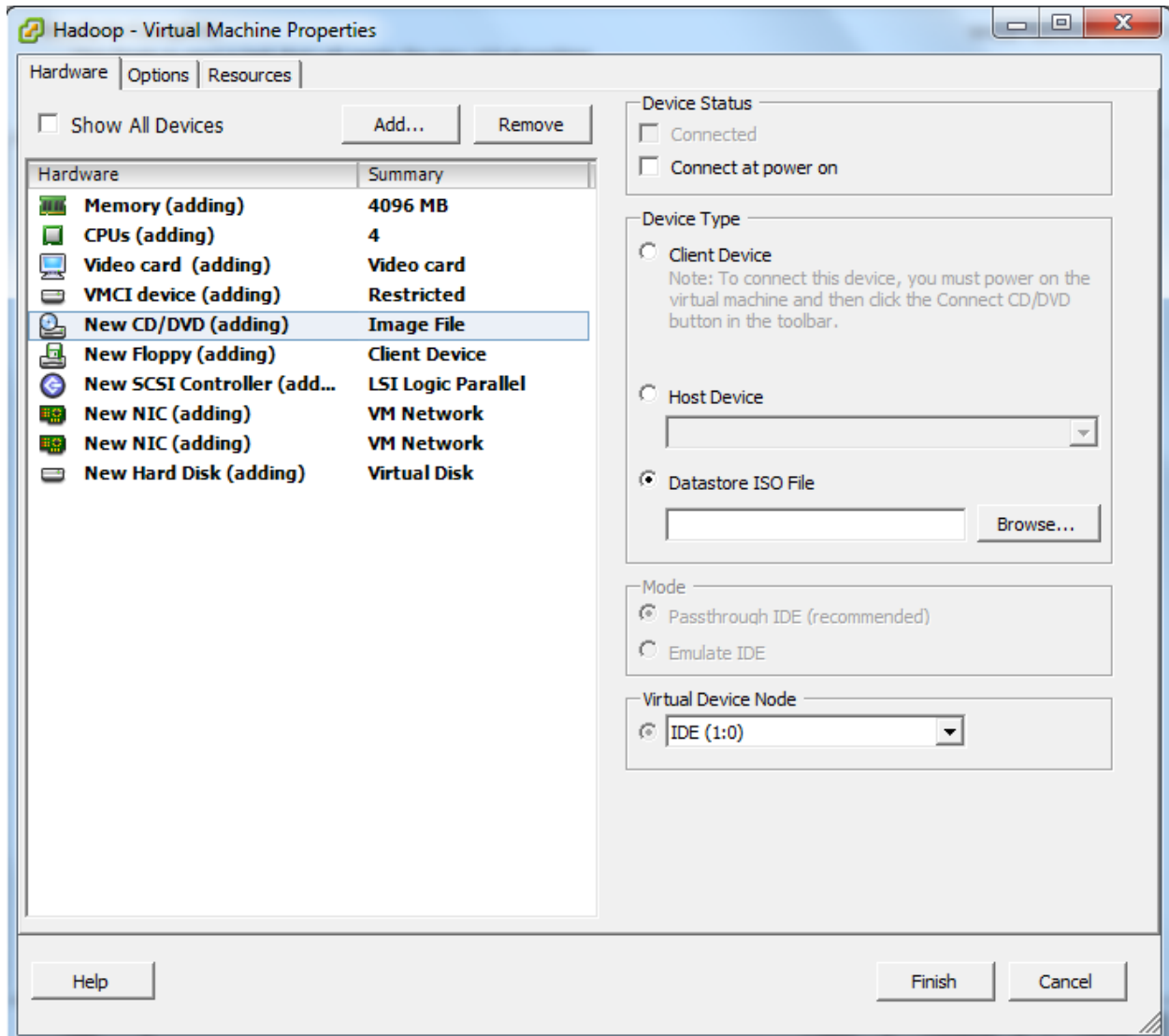
| Settings for the new virtual machine: |                         |
|---------------------------------------|-------------------------|
| Name:                                 | Hadoop                  |
| Host/Cluster:                         | localhost               |
| Datastore:                            | DD-VE                   |
| Guest OS:                             | CentOS 4/5/6/7 (64-bit) |
| NICs:                                 | 2                       |
| NIC 1 Network:                        | VM Network              |
| NIC 1 Type:                           | VMXNET 3                |
| NIC 2 Network:                        | VM Network              |
| NIC 2 Type:                           | VMXNET 3                |
| Disk provisioning:                    | Thin Provision          |
| Virtual Disk Size:                    | 50 GB                   |

☒ Edit the virtual machine settings before completion

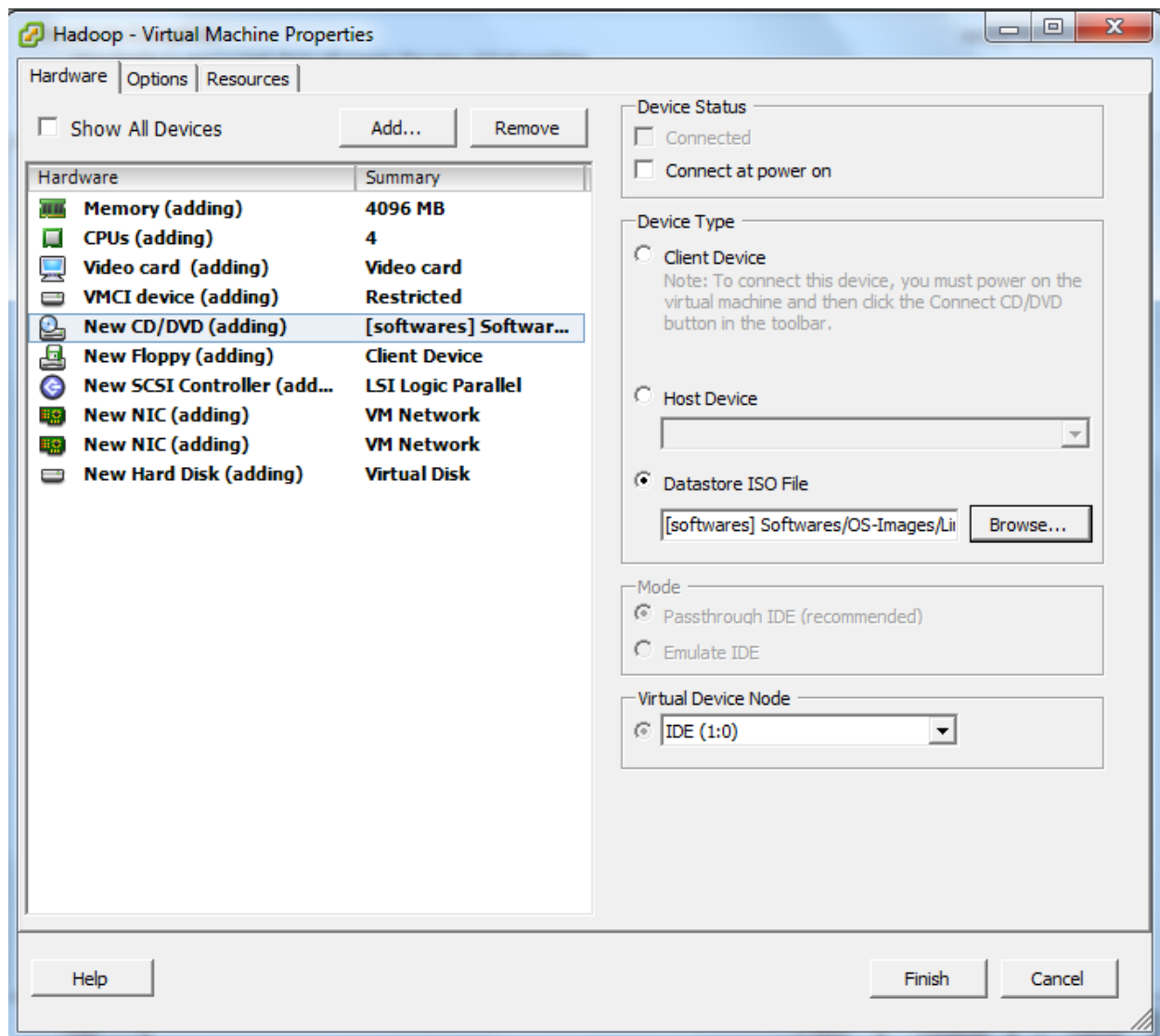
 Creation of the virtual machine (VM) does not include automatic installation of the guest operating system. Install a guest OS on the VM after creating the VM.

Help < Back Continue Cancel

Then edit the memory size you want and click on **new CD/DVD** and select data store ISO if your image file exists in the data store and select that image file attached to your host else you can select client device.

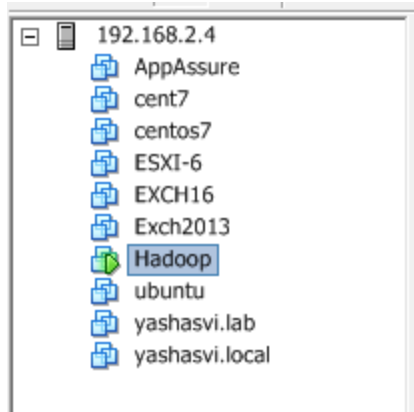




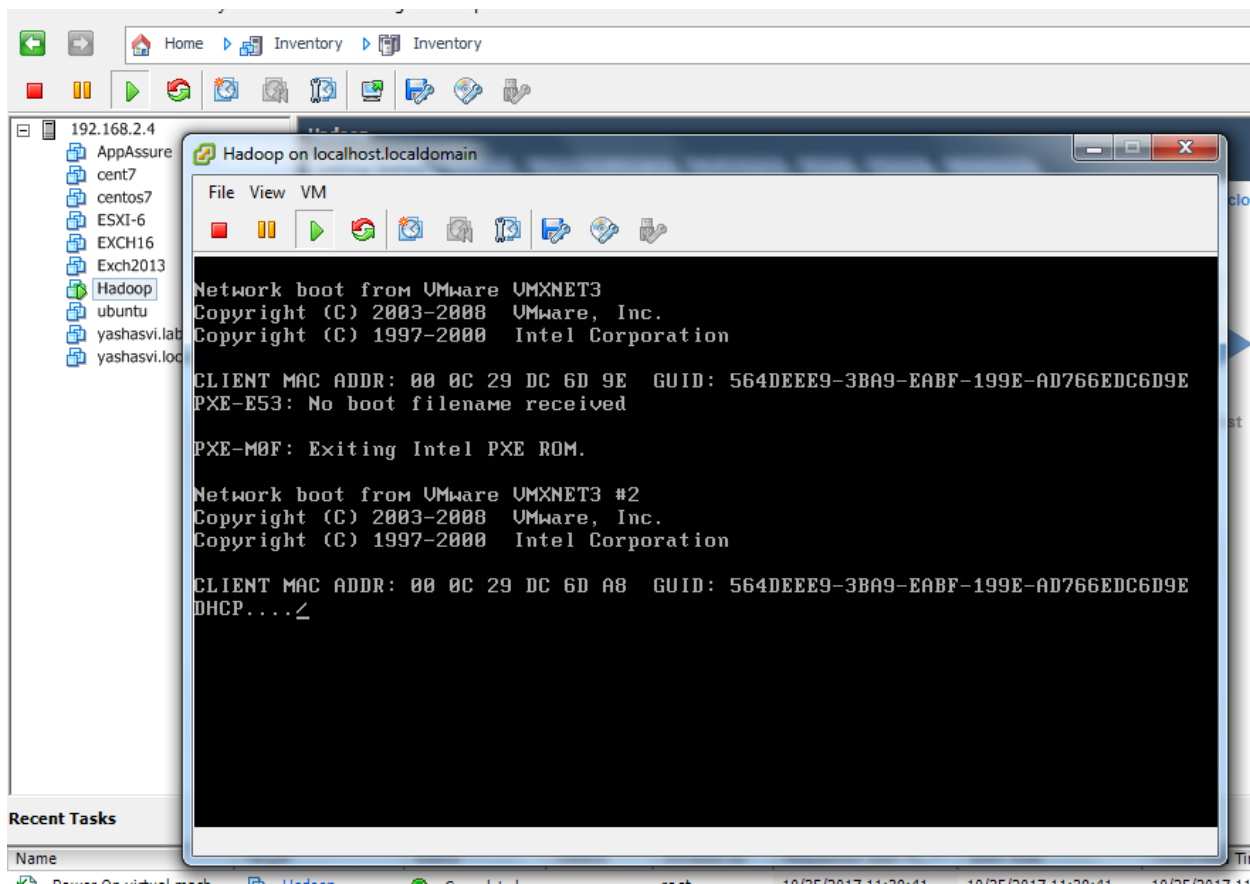


Then click on finish.

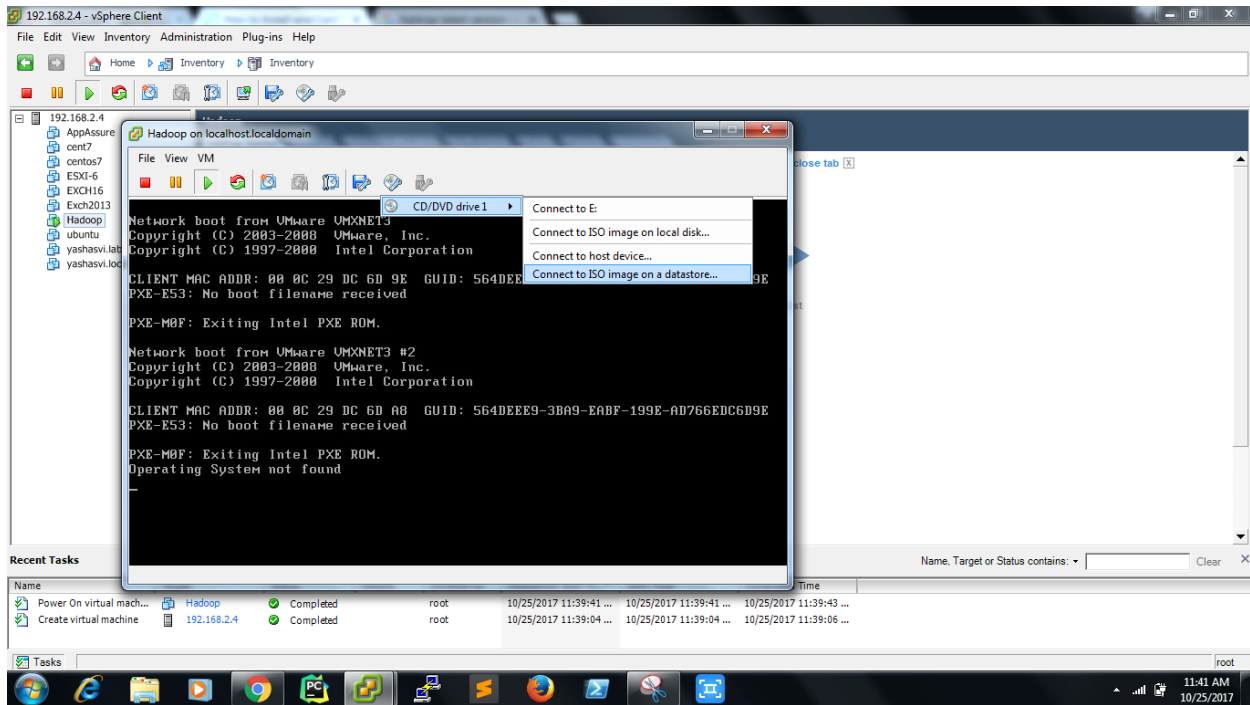
Now you are able to see the virtual machine you just created and power on the virtual machine and click on console that results as follows,



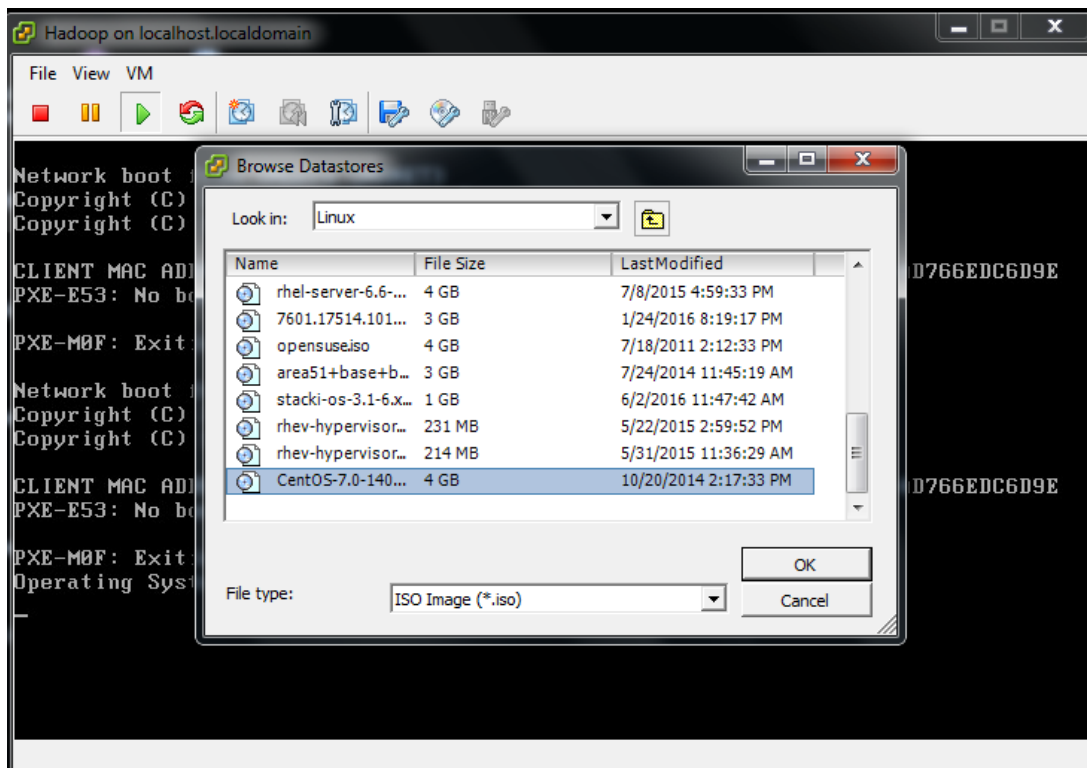
Console looks like this



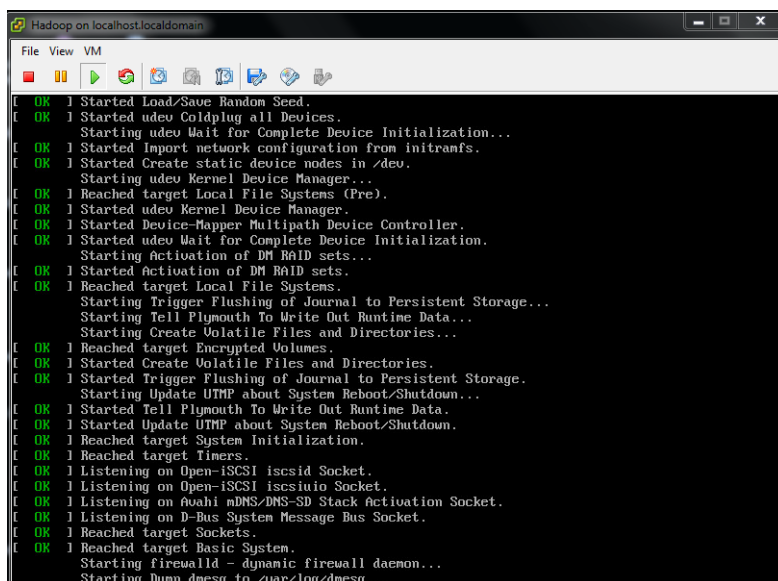
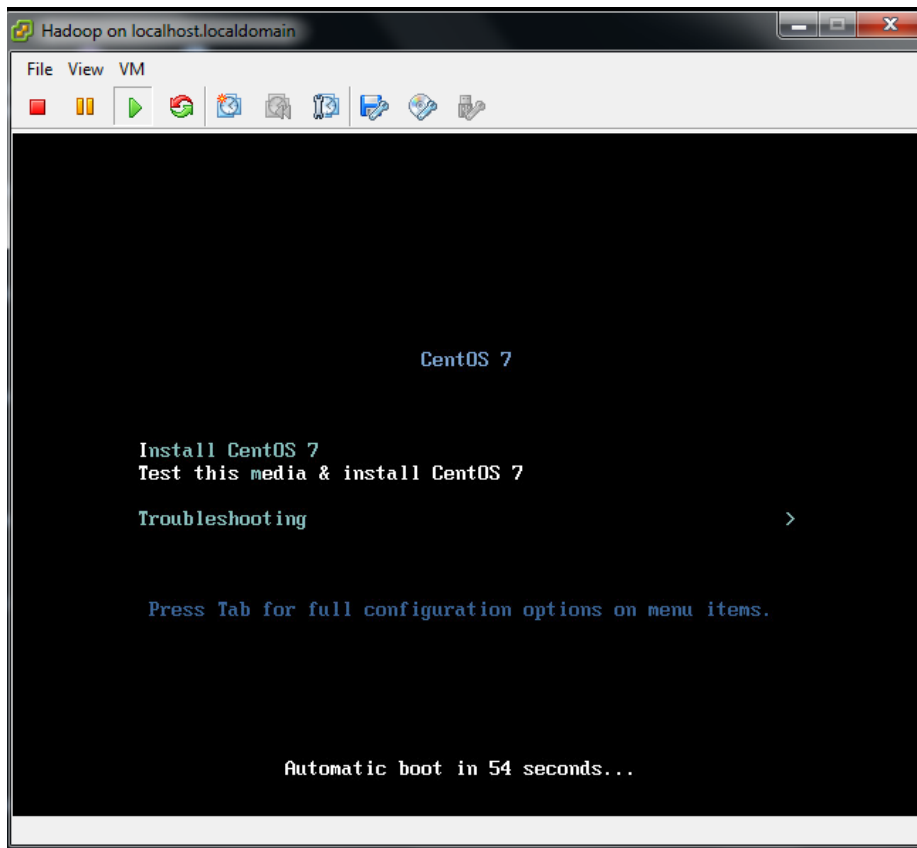
Then select the CD/DVD drive and click on connect to ISO image on data store, if your using locally then you can select connect to ISO on local disk .



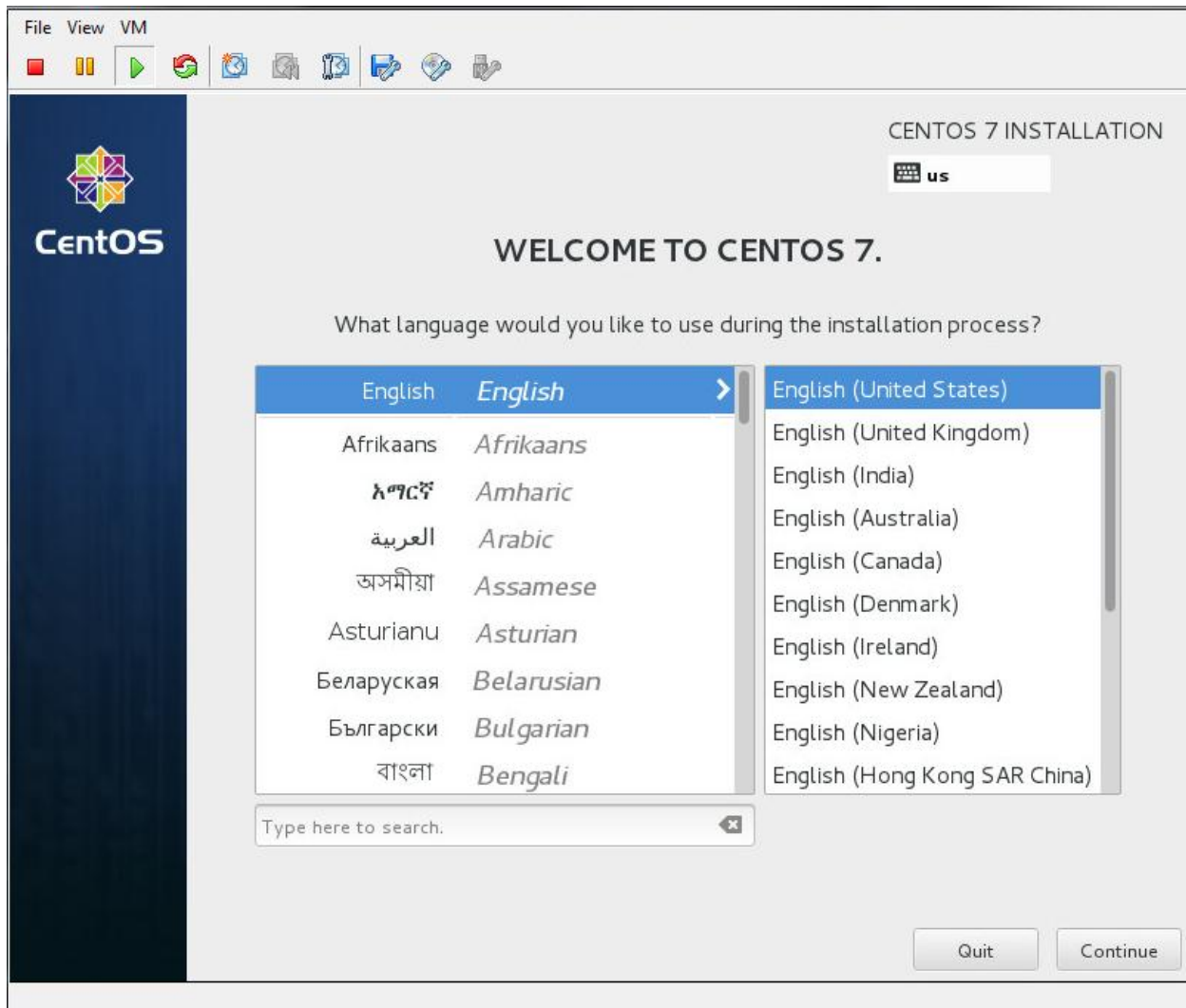
select the installation file as below.. and click ok it takes few minutes



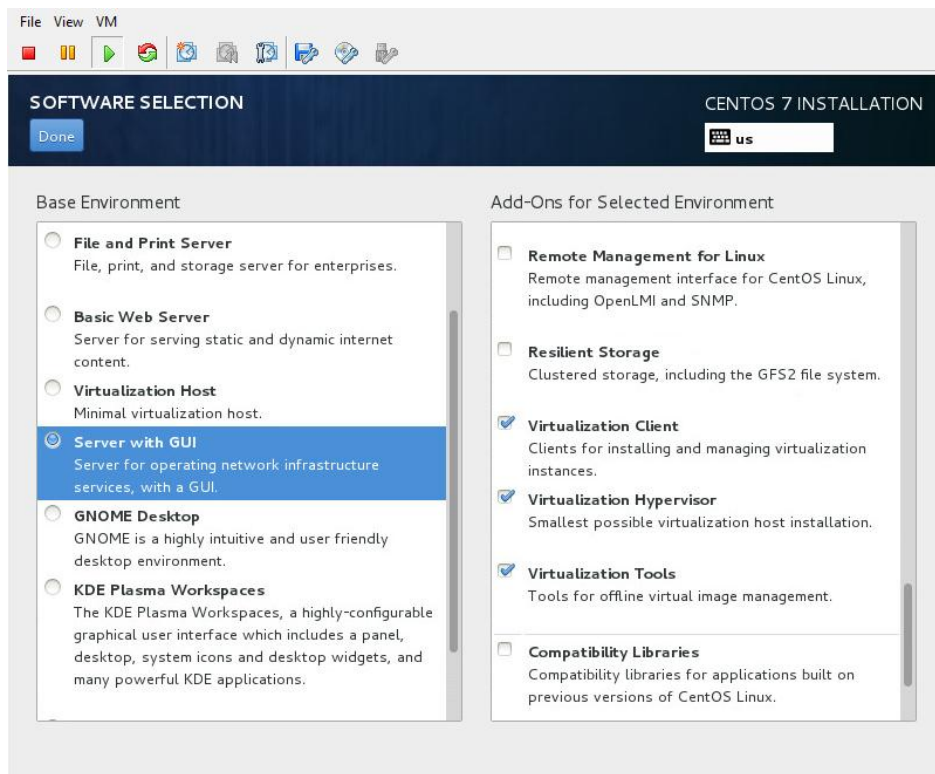
press (CTL+ALT+insert )button and it loads the installation media and results as below and select install centos 7 and press enter and it takes few minutes,



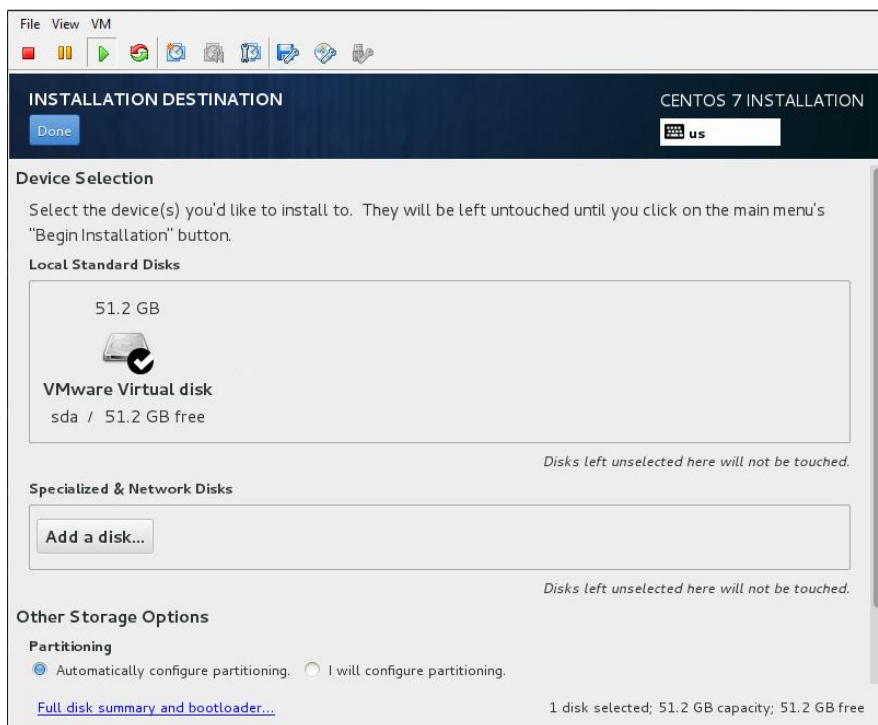
Select English and click on continue,



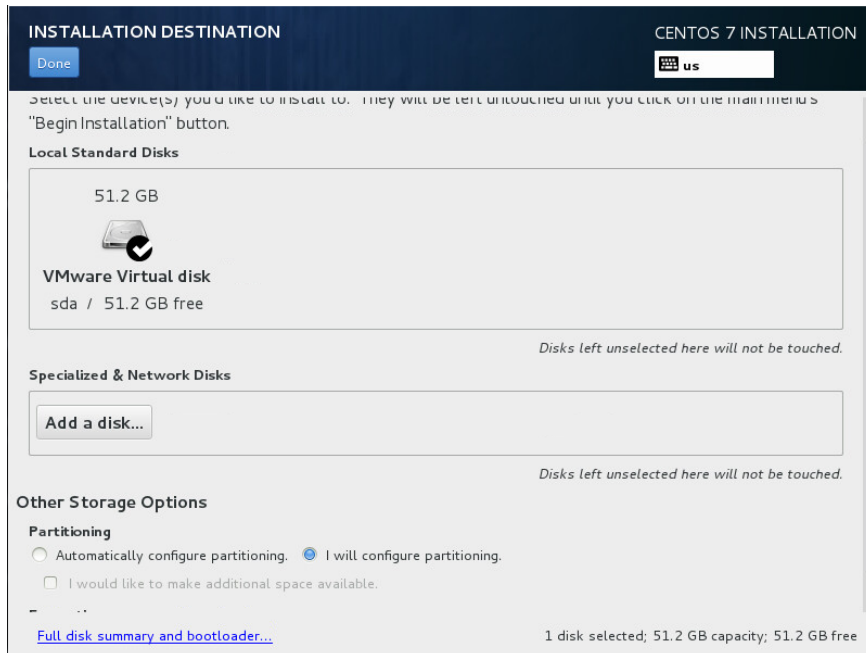
Select on server with GUI and enable the virtualization in add-ons as below,



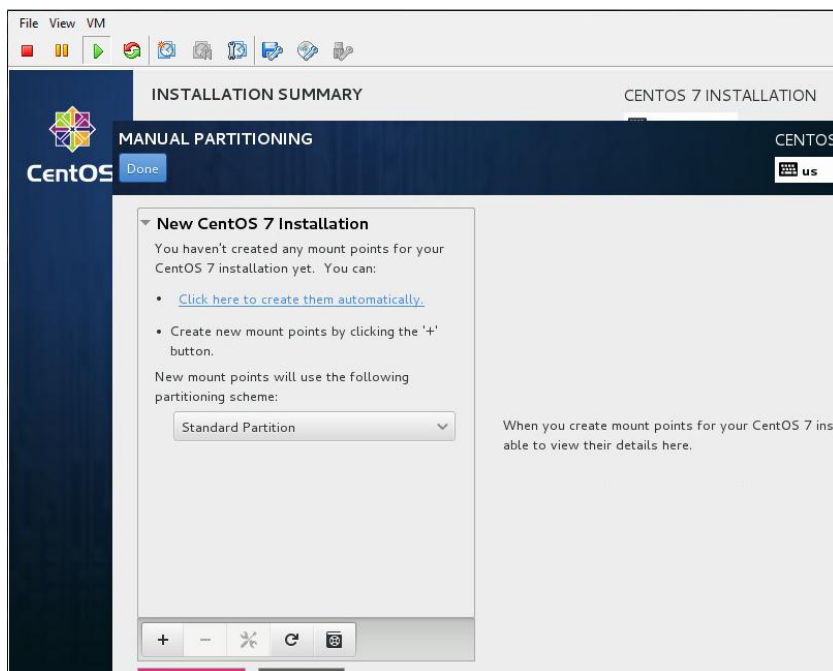
Click on done and results like below,



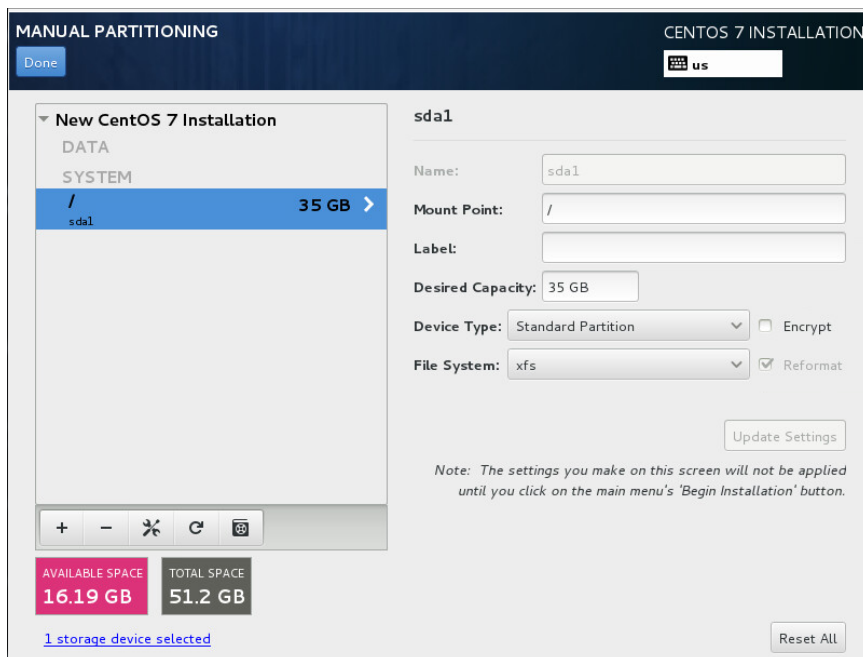
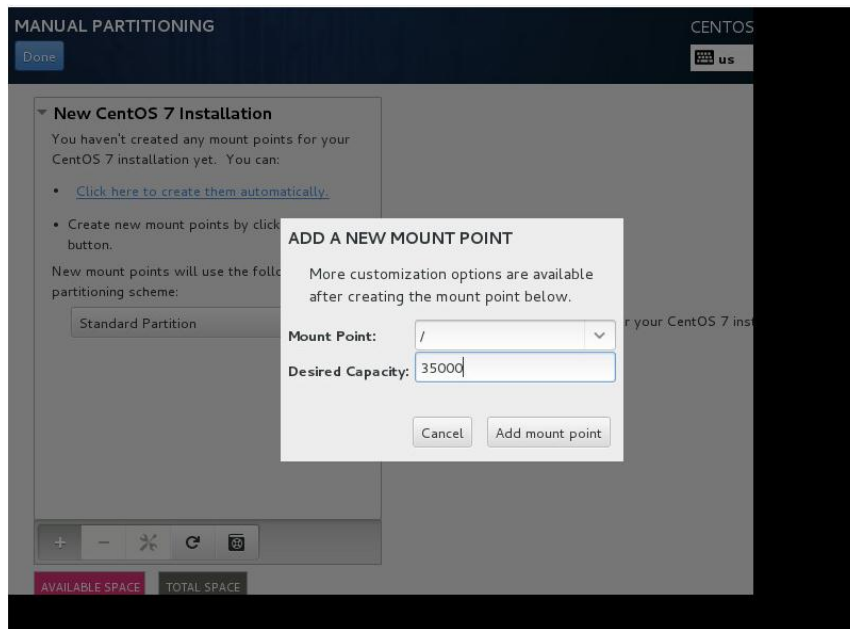
In the above diagram you can see the virtual disk you have created earlier now we need to create partition so **click on I will configure partitioning then click done.**



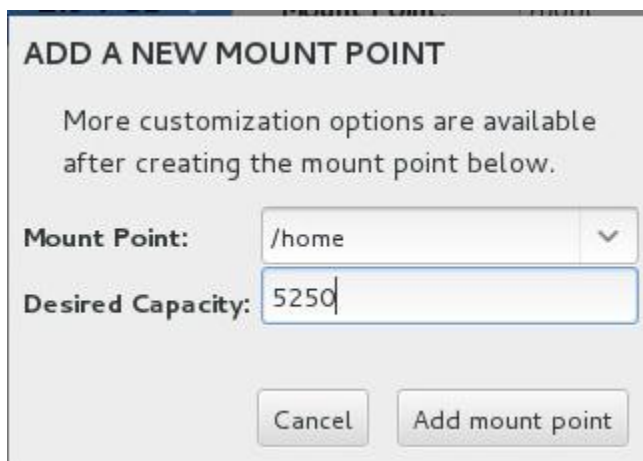
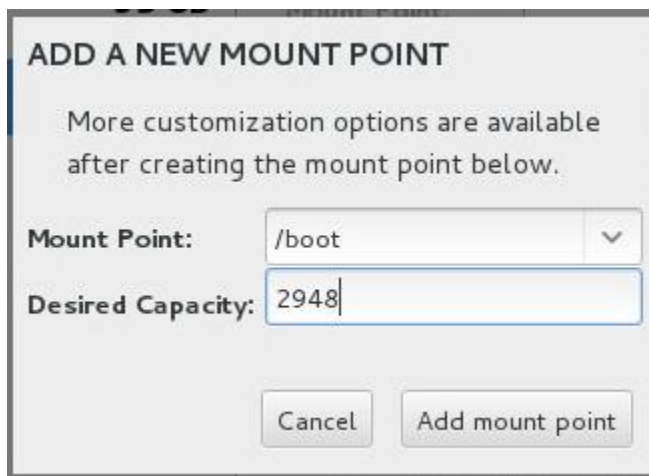
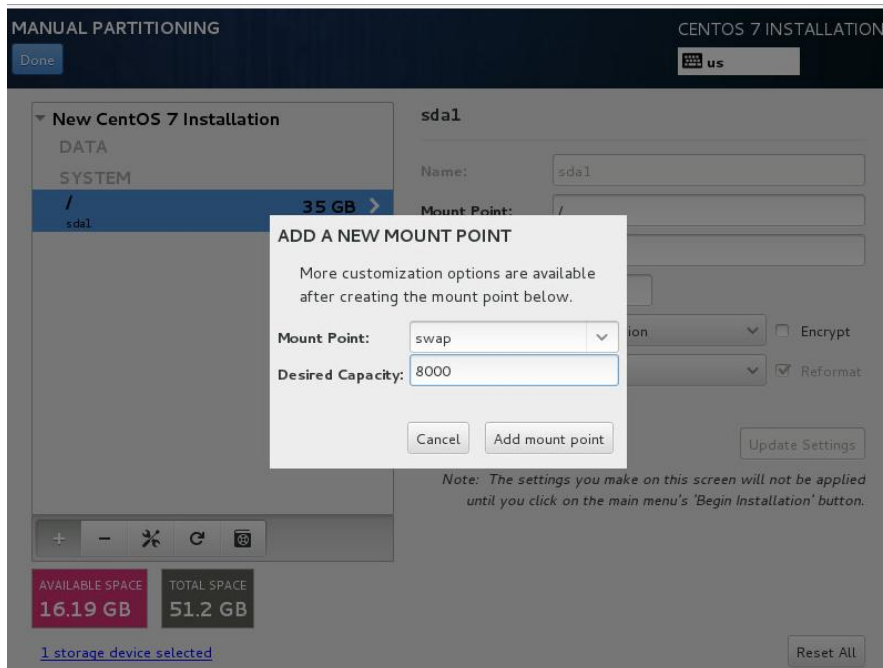
That results as below, and select standard partition then click done,



Create / root , /home , /boot ,/swap partitions as follows,







Now here you can see all the partitions.

**MANUAL PARTITIONING** CENTOS 7 INSTALLATION

[Done](#) us

**New CentOS 7 Installation**

**DATA**

- /home** **5.25 GB** [sda5](#)

**SYSTEM**

- /boot** **2.94 GB** [sda1](#)
- /** **35 GB** [sda2](#)
- swap** **8 GB** [sda3](#)

**sda5**

Name:

Mount Point:

Label:

Desired Capacity:

Device Type:  ☐ Encrypt

File System:  ☒ Reformat

[Update Settings](#)

*Note: The settings you make on this screen will not be applied until you click on the main menu's 'Begin Installation' button.*

[Reset All](#)

**AVAILABLE SPACE**  
**969.23 kB**

**TOTAL SPACE**  
**51.2 GB**

[1 storage device selected](#)

Click on done and select **accept changes** as below,

**MANUAL PARTITIONING** CENTOS 7 INSTALLATION

[Done](#) us

**New CentOS 7 Installation**

**DATA**

- /home** **5.25 GB** [sda5](#)

**SYSTEM**

- /boot** **2.94 GB** [sda1](#)
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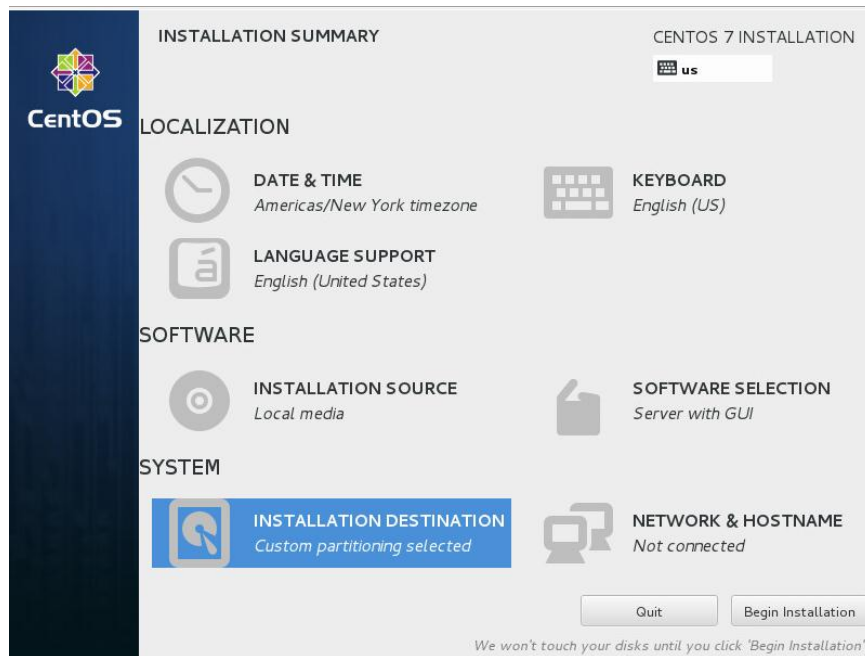
**SUMMARY OF CHANGES**

Your customizations will result in the following changes taking effect on the disks you've selected:

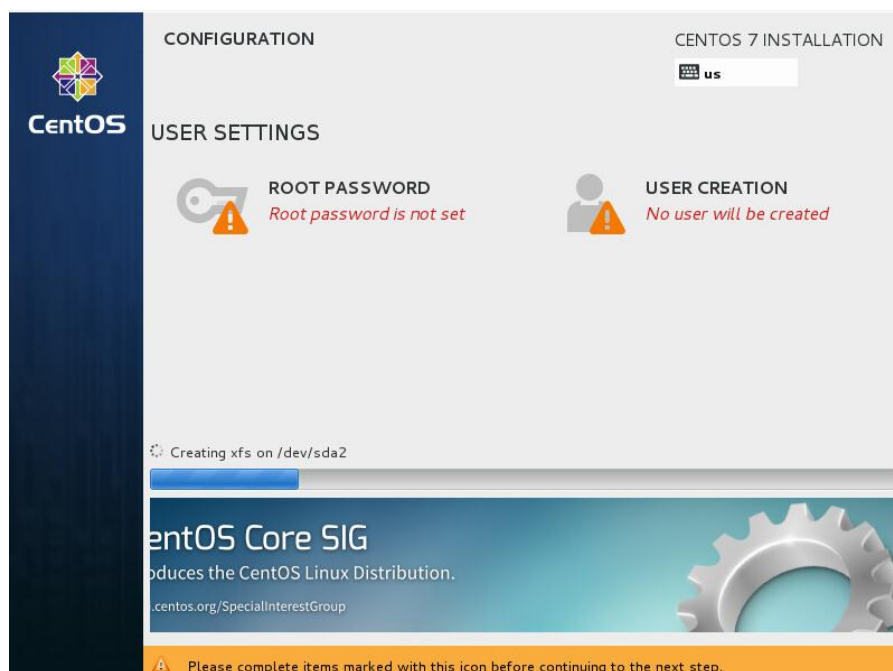
| Order | Action         | Type                    | Device Name | Mountpoint |
|-------|----------------|-------------------------|-------------|------------|
| 1     | Destroy Format | Unknown                 | sda         |            |
| 2     | Create Format  | partition table (MSDOS) | sda         |            |
| 3     | Create Device  | partition               | sda1        |            |
| 4     | Create Format  | xfs                     | sda1        | /boot      |
| 5     | Create Device  | partition               | sda2        |            |
| 6     | Create Device  | partition               | sda3        |            |
| 7     | Create Device  | partition               | sda5        |            |
| 8     | Create Format  | xfs                     | sda5        | /home      |
| 9     | Create Format  | swap                    | sda3        |            |
| 10    | Create Format  | xfs                     | sda2        | /          |

[Cancel & Return to Custom Partitioning](#) [Accept Changes](#)

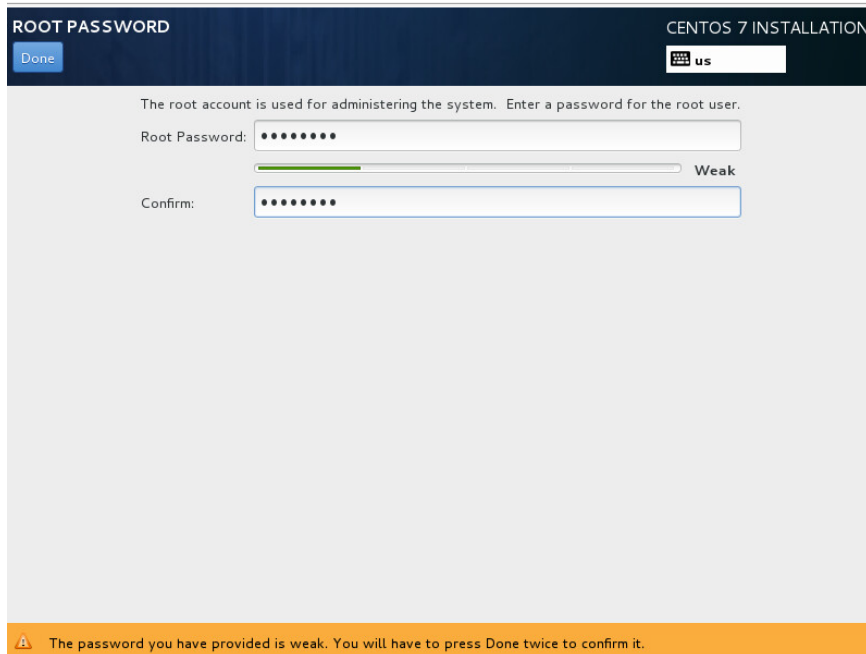
It comes here, click on begin installation.



Installation begins,

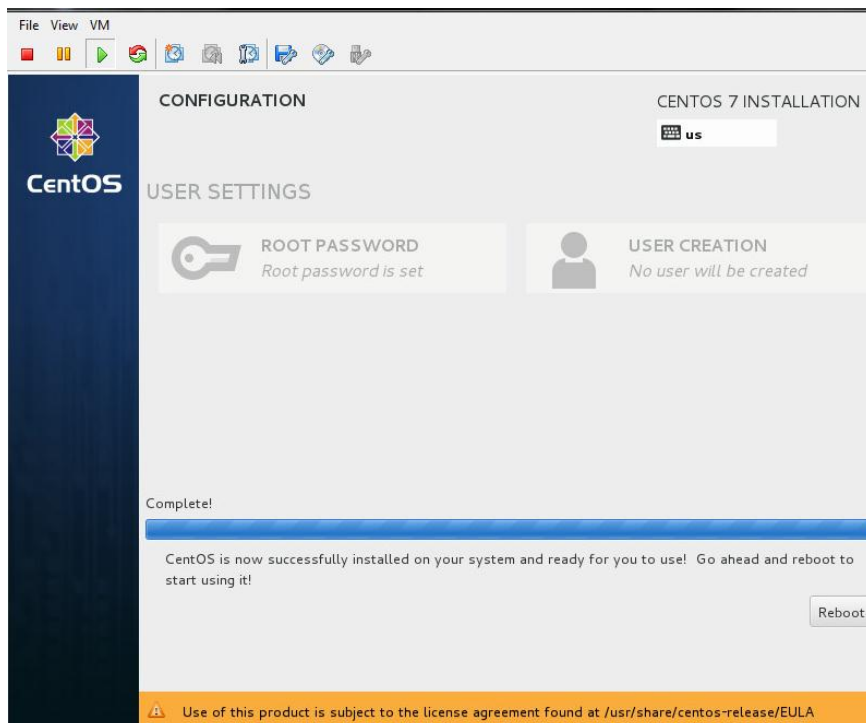


Click on root password and set the password for root and click **done**



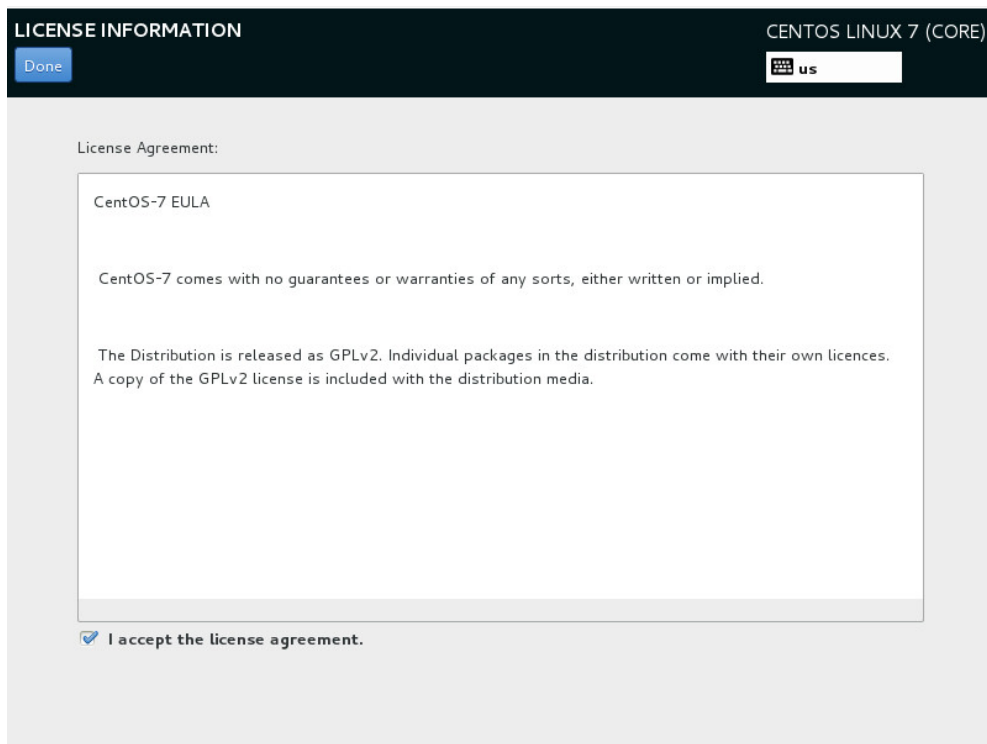
The screenshot shows the 'ROOT PASSWORD' screen in the CentOS 7 installation process. The title bar includes 'ROOT PASSWORD' and 'CENTOS 7 INSTALLATION'. A 'Done' button is in the top left. The main text says: 'The root account is used for administering the system. Enter a password for the root user.' There are two password input fields: 'Root Password:' and 'Confirm:'. The 'Root Password' field has a strength indicator bar below it labeled 'Weak'. An orange warning banner at the bottom states: 'The password you have provided is weak. You will have to press Done twice to confirm it.'

Installation takes few minutes to complete after completion click on reboot, vm will restart and loads ,

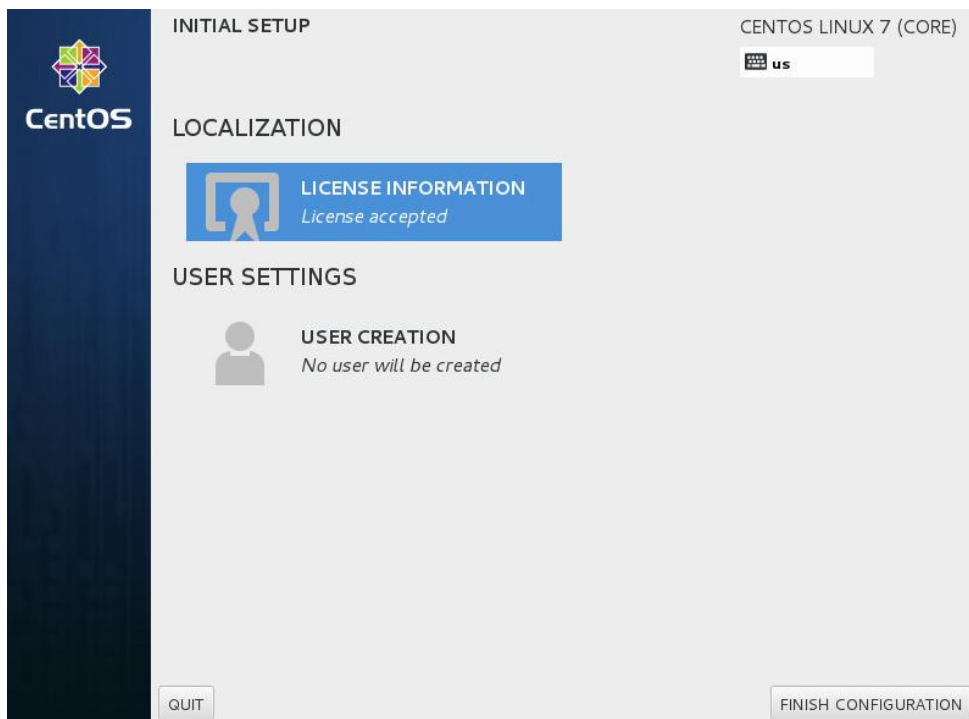


The screenshot shows the 'CONFIGURATION' screen in the CentOS 7 installation process. The title bar includes 'CONFIGURATION' and 'CENTOS 7 INSTALLATION'. The left sidebar shows the CentOS logo and 'CentOS'. The main area is titled 'USER SETTINGS' and contains two sections: 'ROOT PASSWORD' with a key icon and the text 'Root password is set', and 'USER CREATION' with a person icon and the text 'No user will be created'. A blue bar with the text 'Complete!' is above a message box that says: 'CentOS is now successfully installed on your system and ready for you to use! Go ahead and reboot to start using it!'. A 'Reboot' button is in the bottom right. An orange banner at the bottom states: 'Use of this product is subject to the license agreement found at /usr/share/centos-release/EULA'.

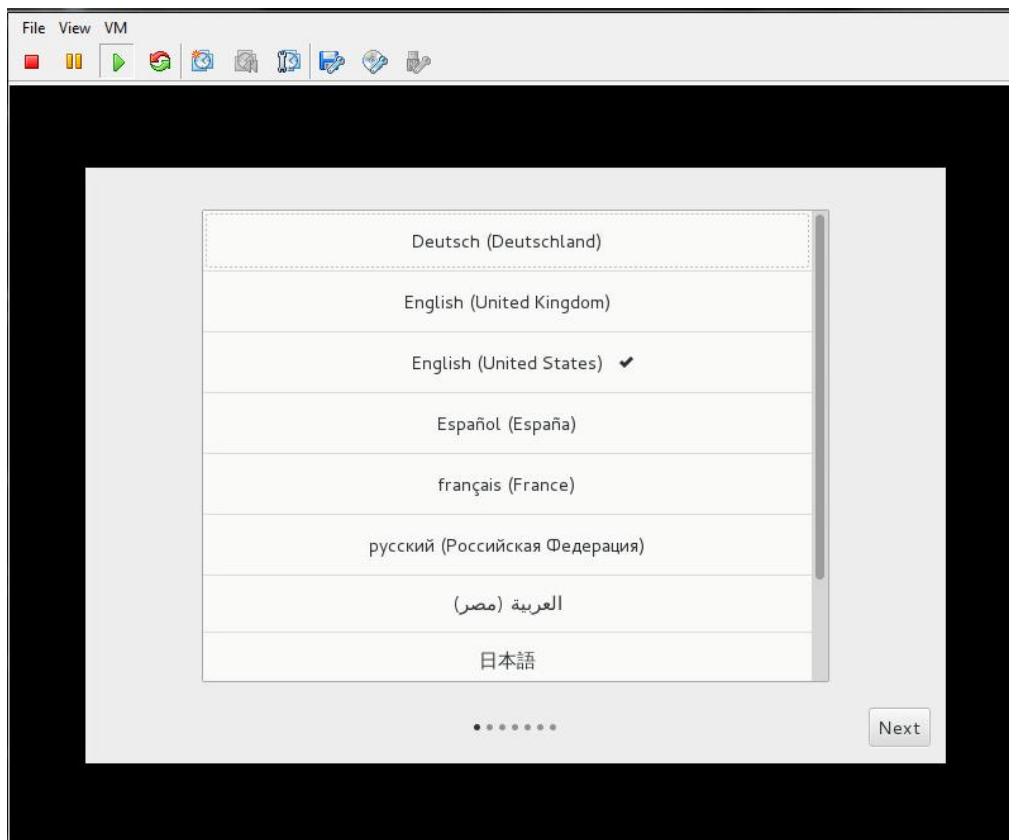
After reboot accept the license agriment and click **done**



Create user and click on finish configuration,



select language and click **next**,



create user and password and click next,

