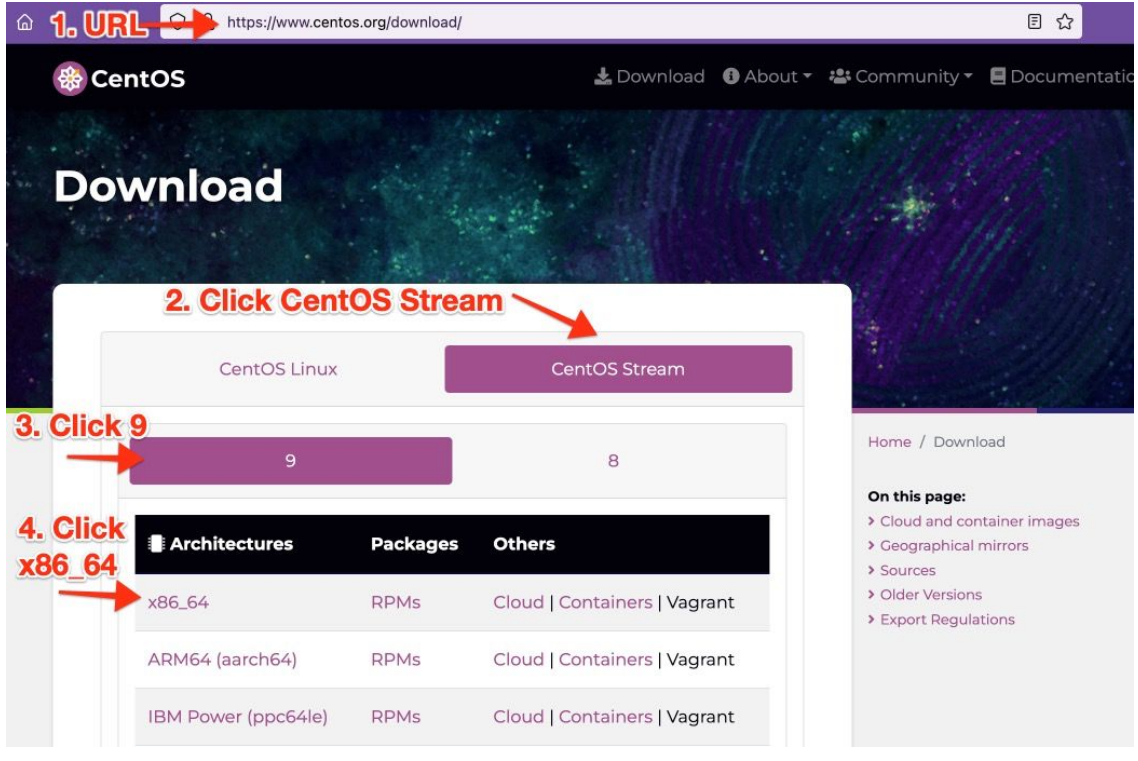
Install CentOS 9 in virtualbox

Installing Pre-Requisites

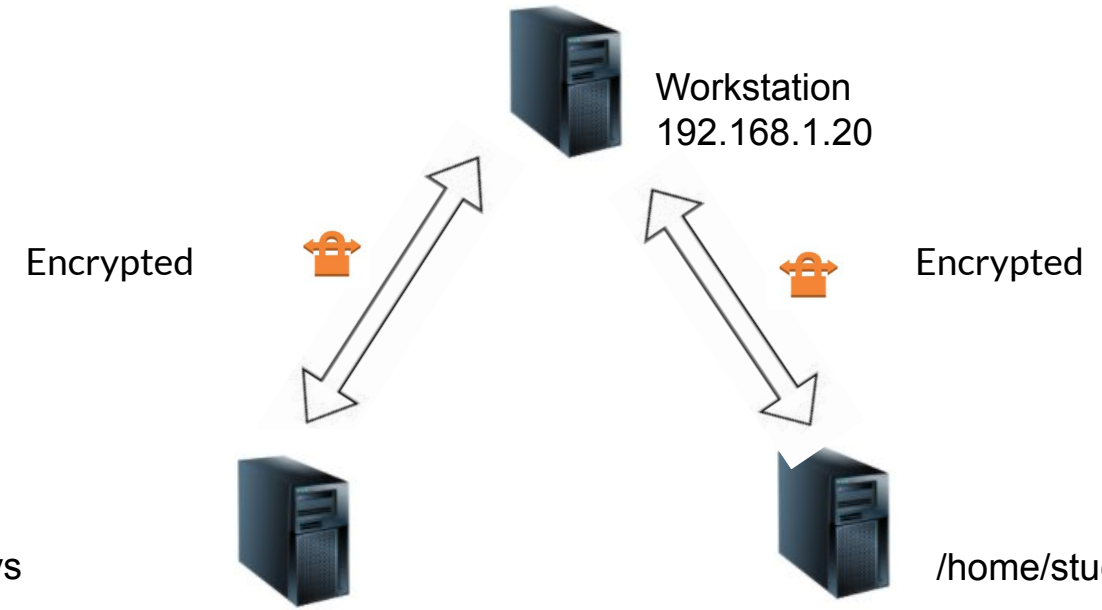
- Download and install Oracle Virtual box from https://www.virtualbox.org/wiki/Downloads
- Download CentOS 9 ISO image from this portal



Lab environment setup

workstation> ssh-keygen

/home/student/.ssh/id_rsa
/home/student/.ssh/id_rsa.pub

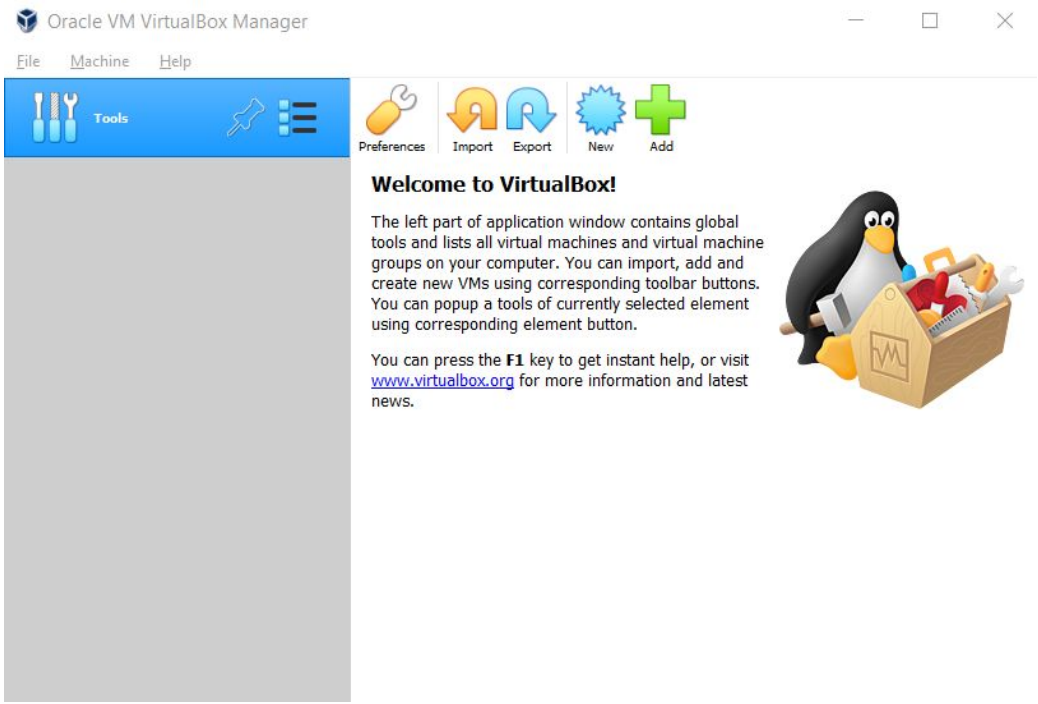


/home/student/.ssh/authorized_keys

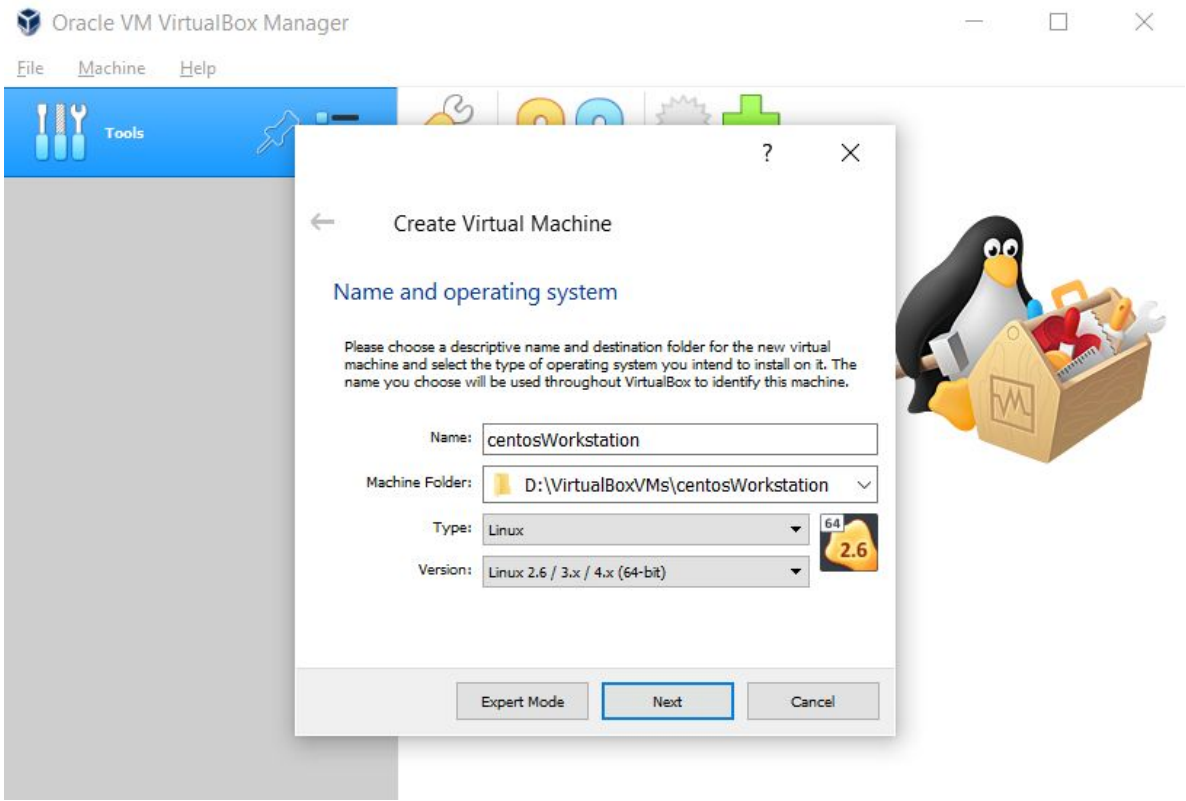
/home/student/.ssh/a

Click New

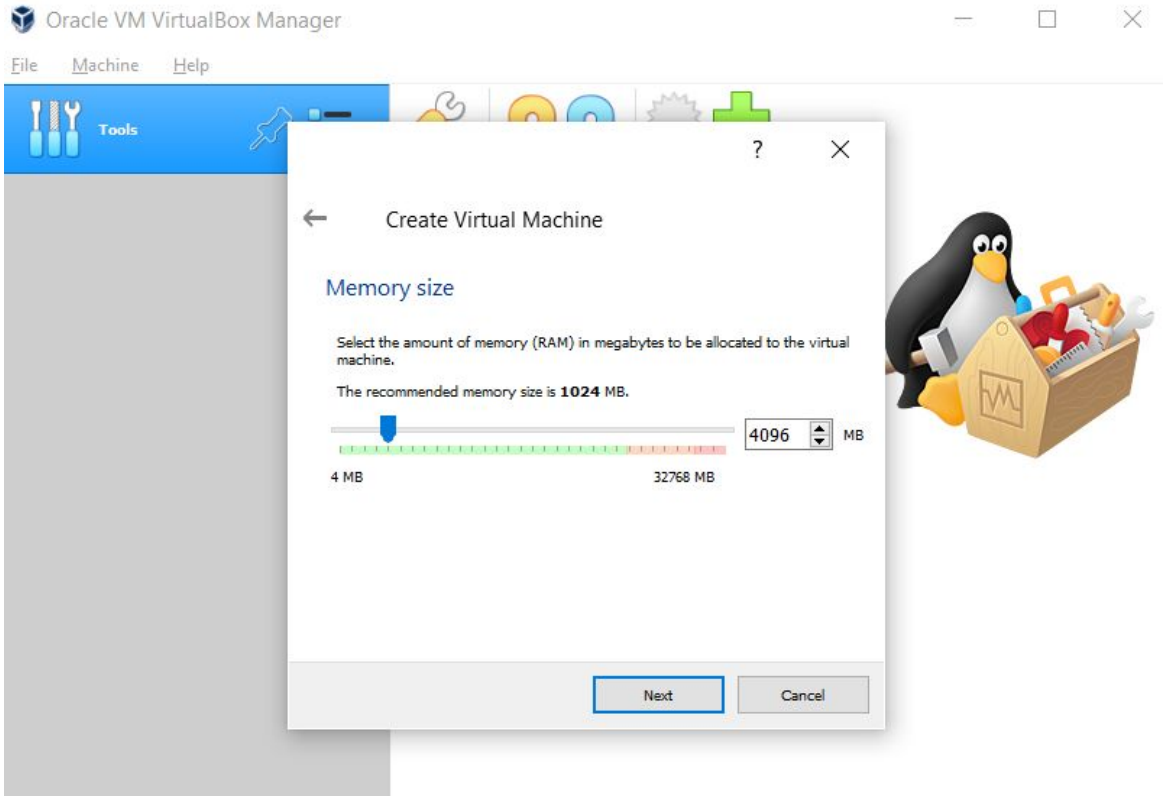

New


Oracle VM VirtualBox Manager
File
Machine
Help
Tools
Preferences
Import
Export
New
Add
Welcome to VirtualBox!
The left part of application window contains global tools and lists all virtual machines and virtual machine groups on your computer. You can import, add and create new VMs using corresponding toolbar buttons. You can popup a tools of currently selected element using corresponding element button.
You can press the F1 key to get instant help, or visit www.virtualbox.org for more information and latest news.

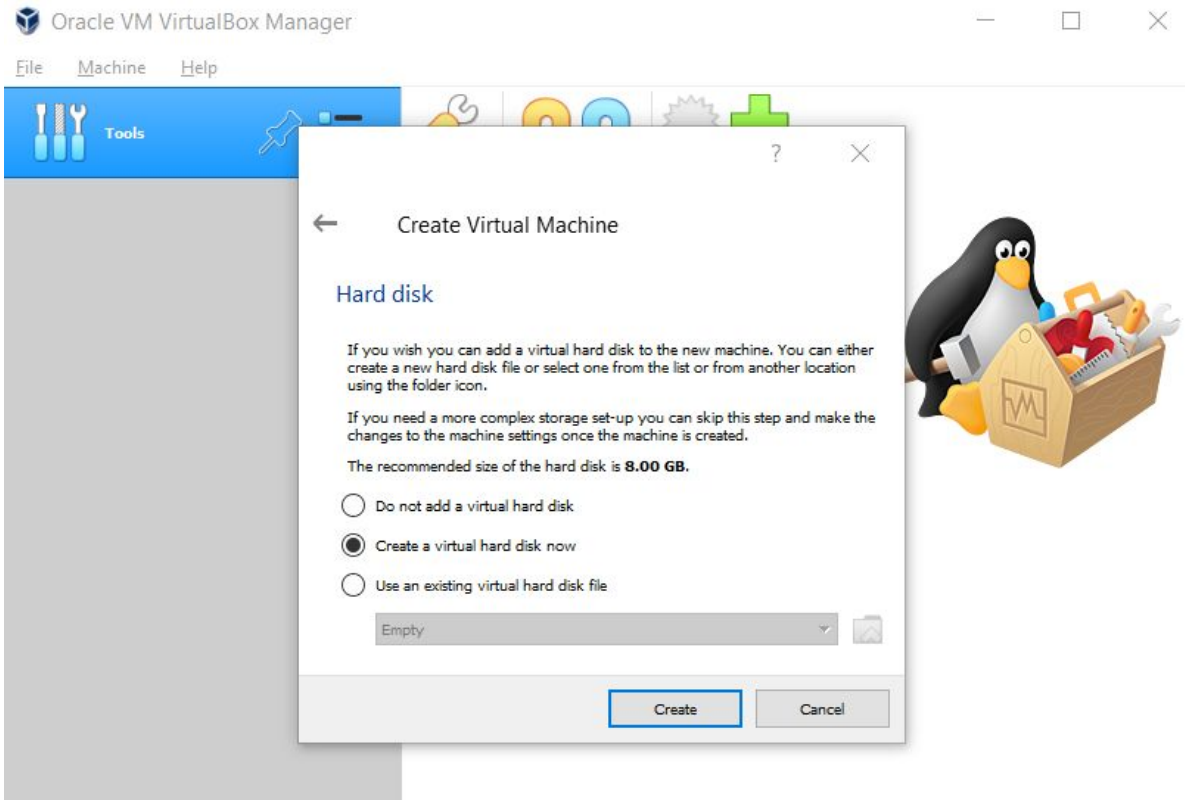
Enter the details and Click Next



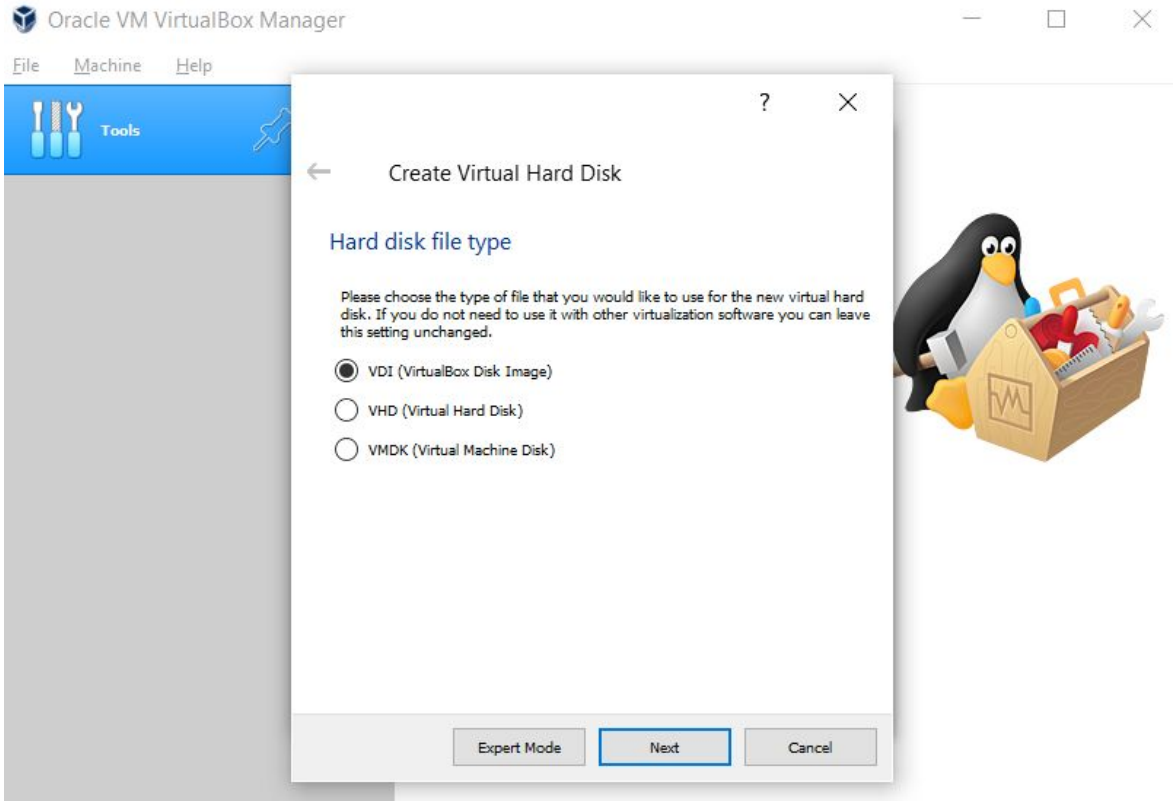
Set the Memory (minimum 2048MB)



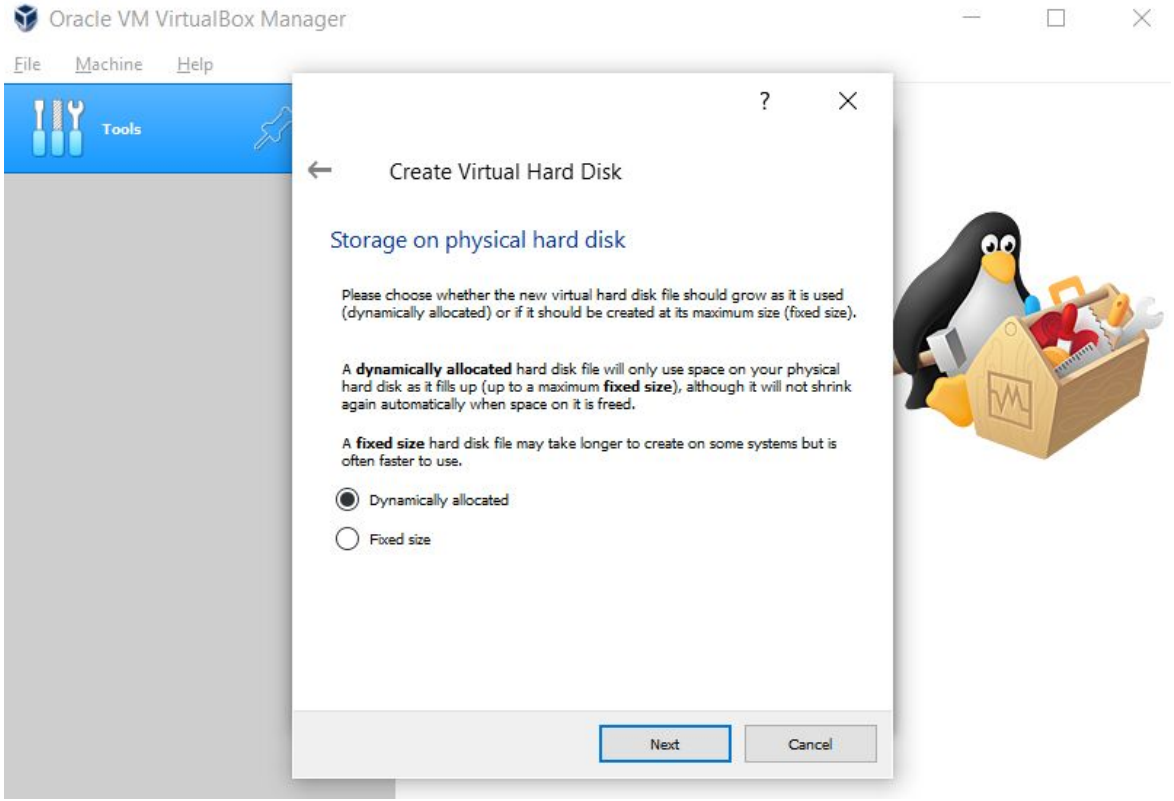
Create a virtual hard disk now



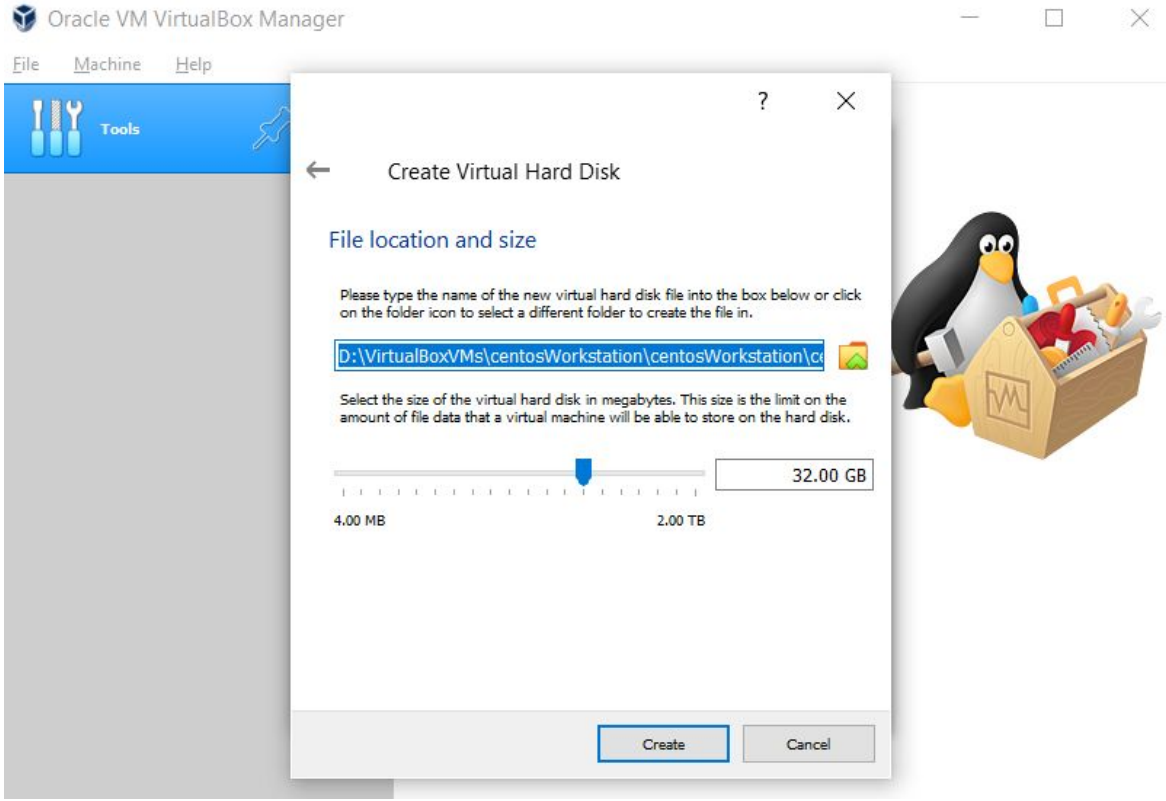
Choose the Hard disk file type



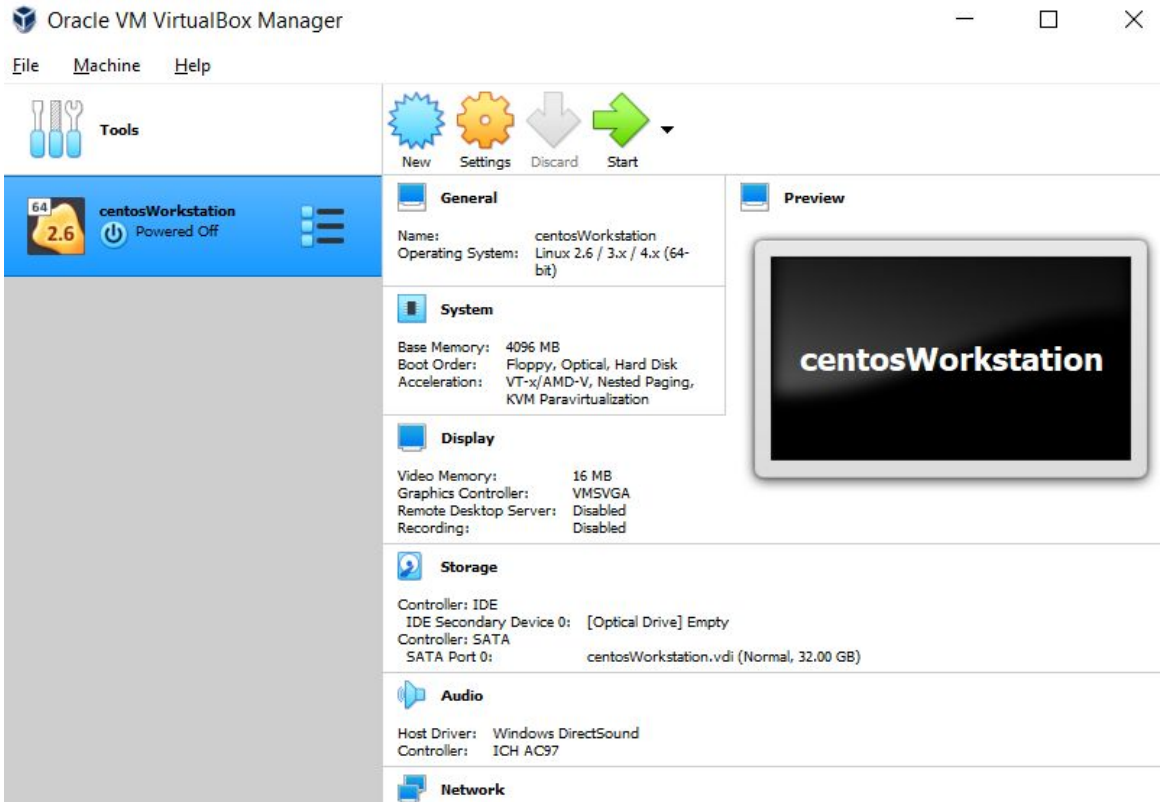
Choose Dynamically Allocated



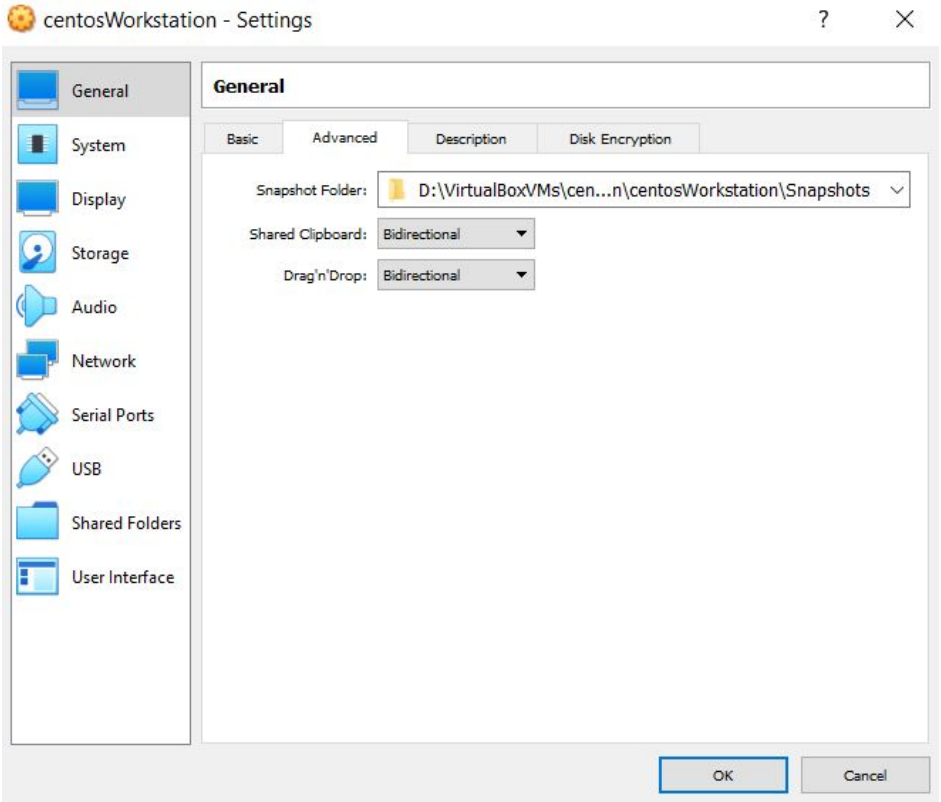
Choose Hard disk location and Size



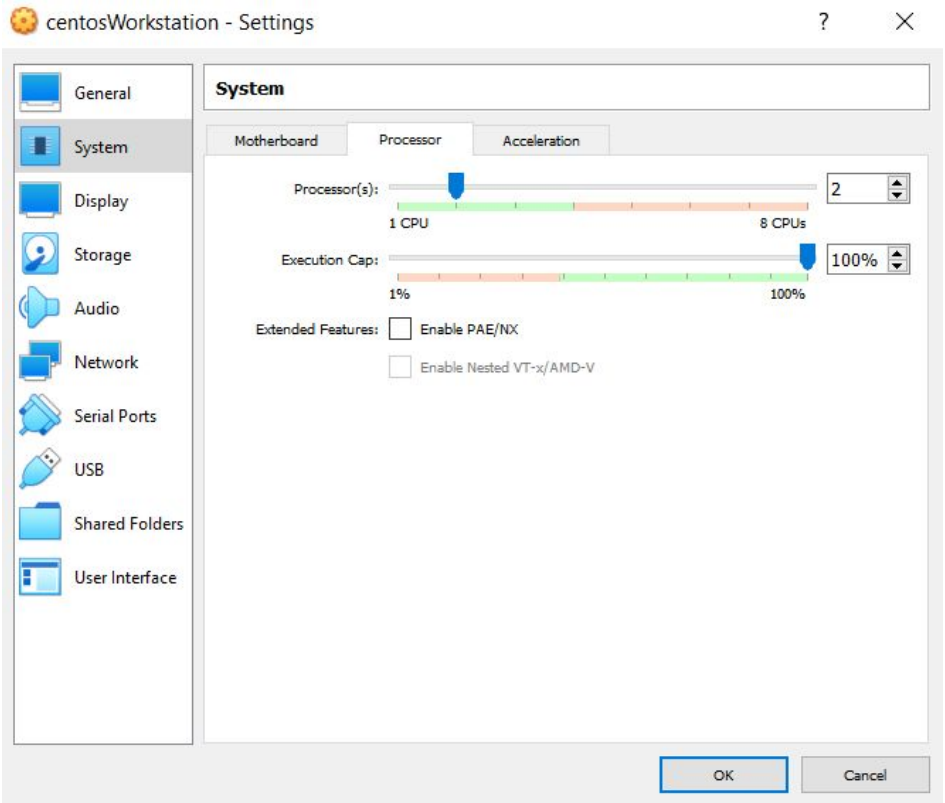
Click Settings 



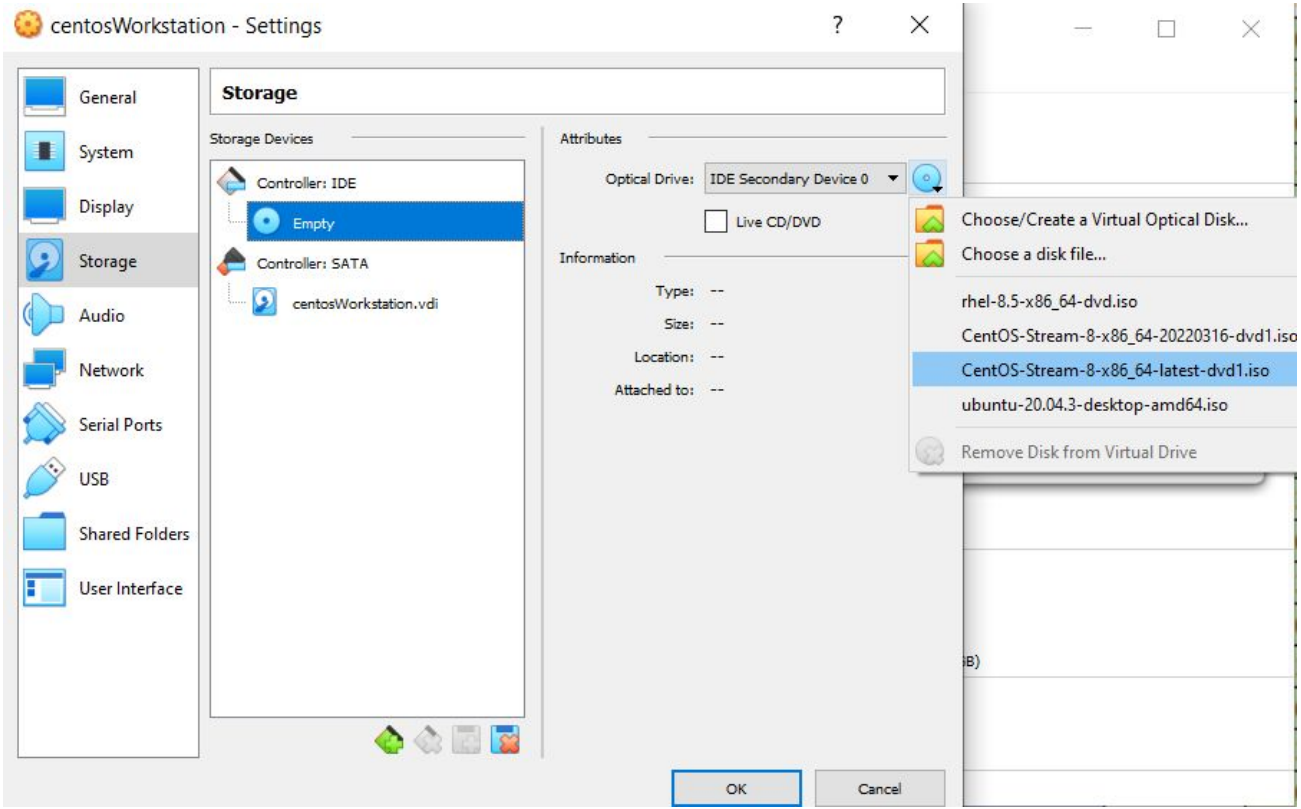
Change the Clipboard and Drag n Drop as Bidirectional



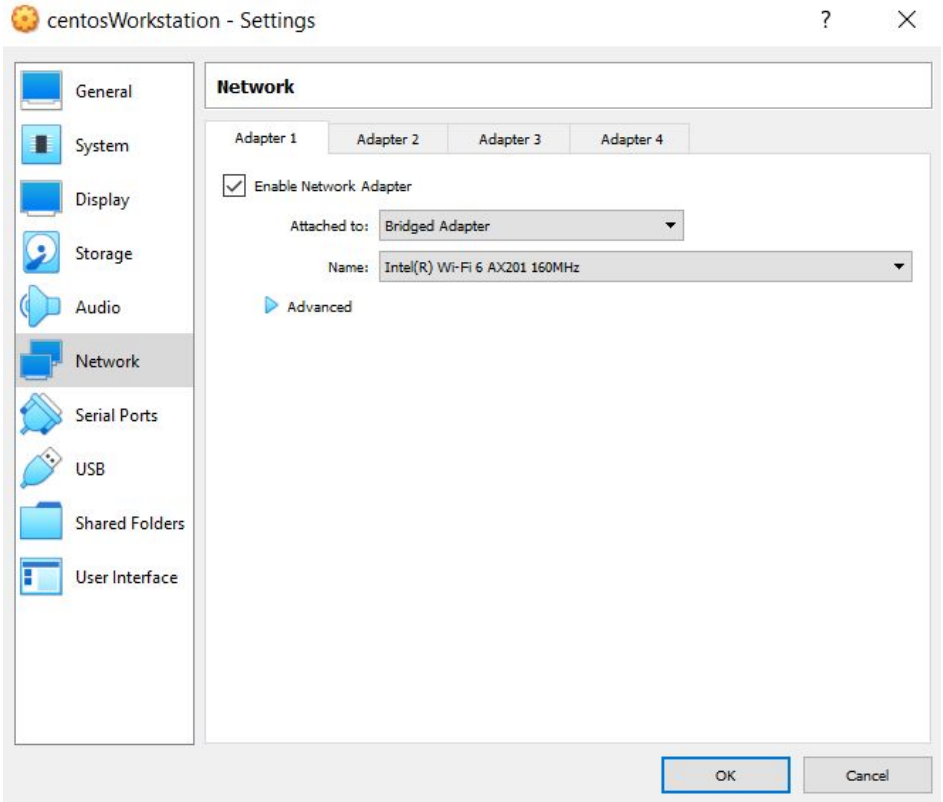
Under System => Processor => Increase the Processor count => 2



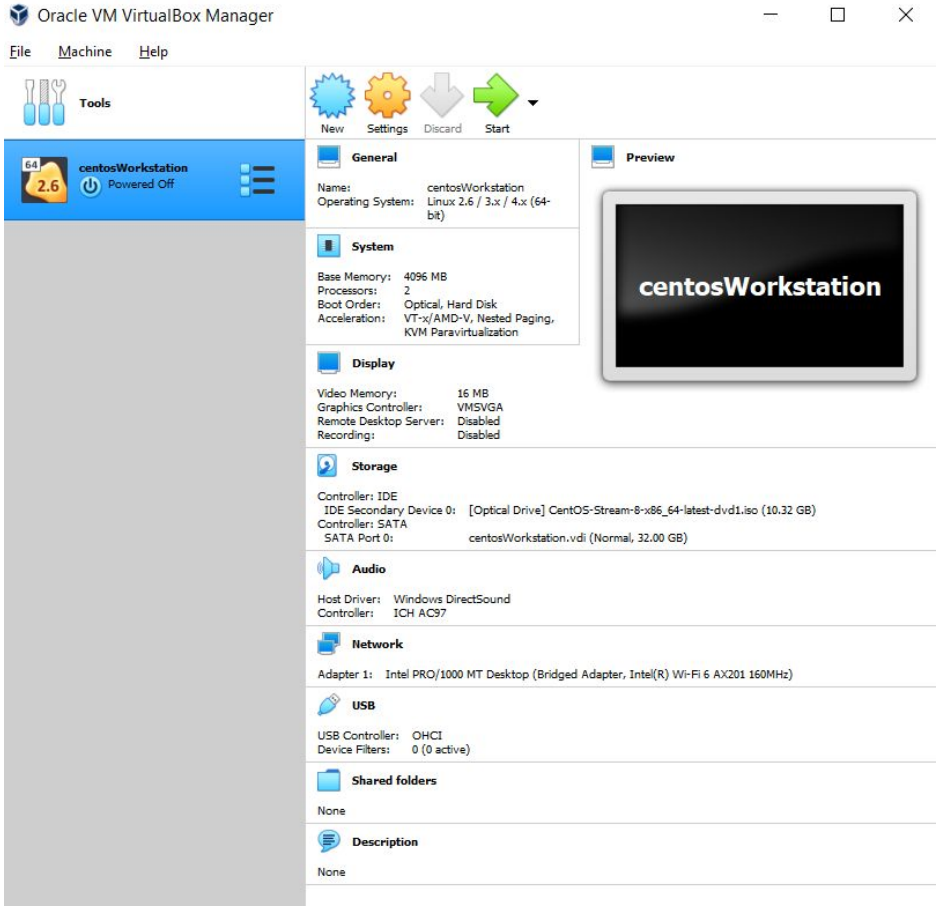
Storage => Controller IDE => Empty => Choose ISO file



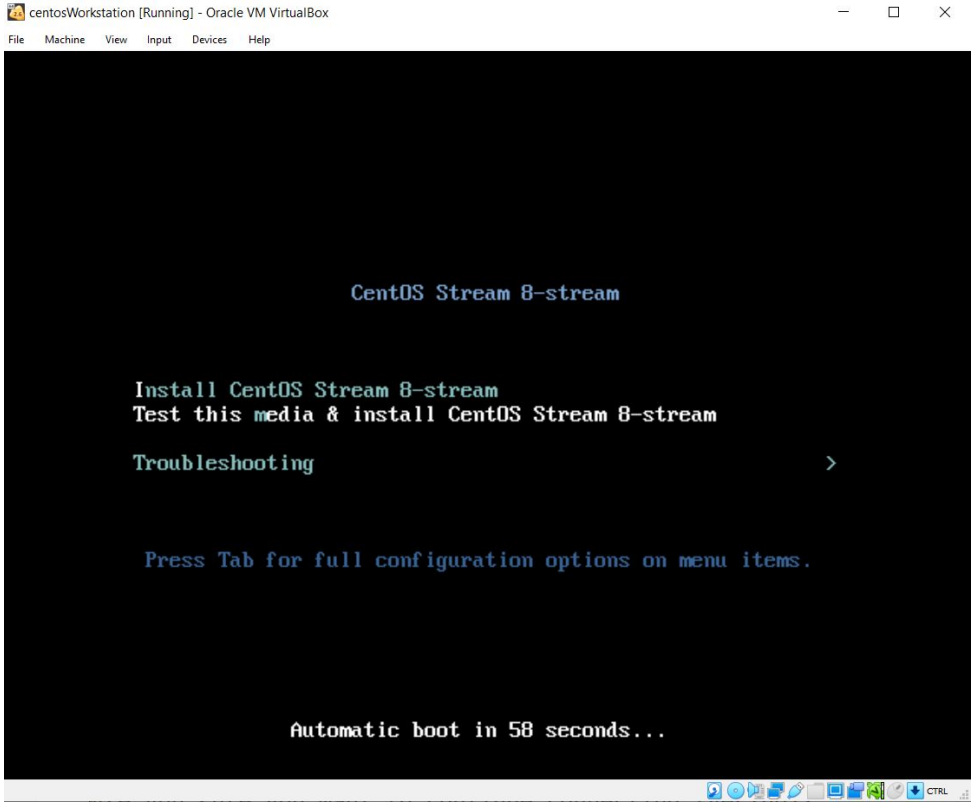
Network => Adapter 1 => Bridged Adapter => Click OK



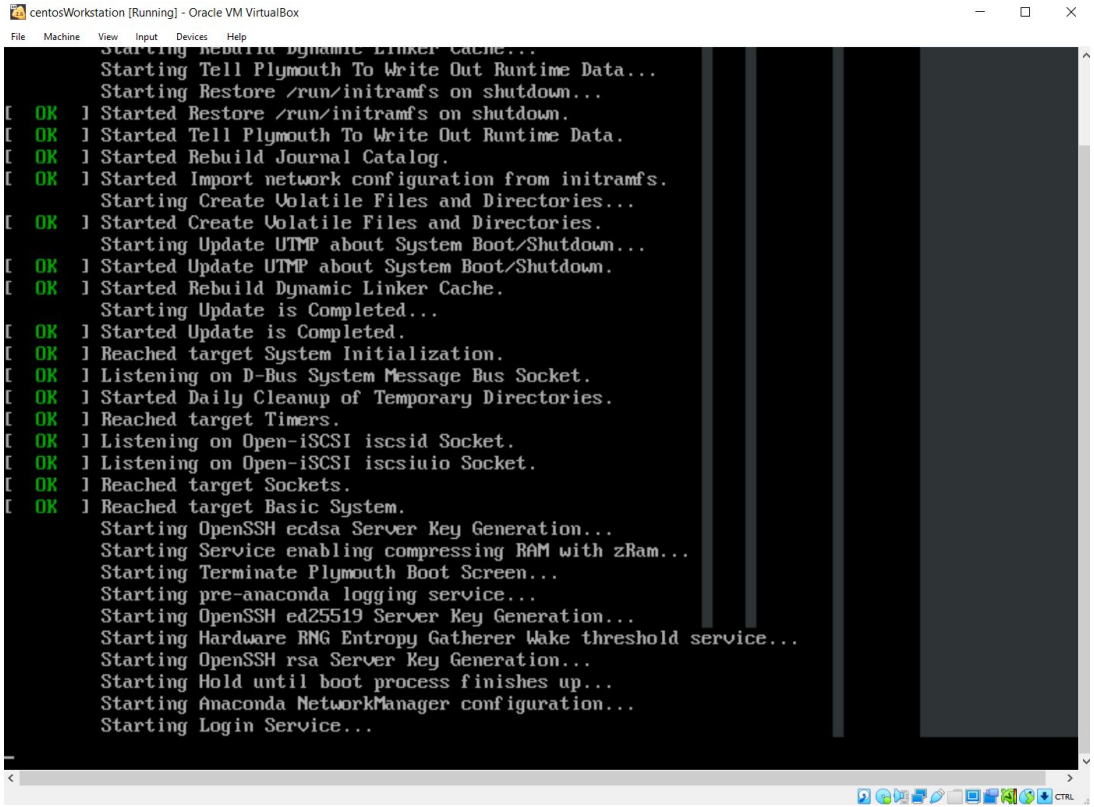
Verify the settings then Click Start



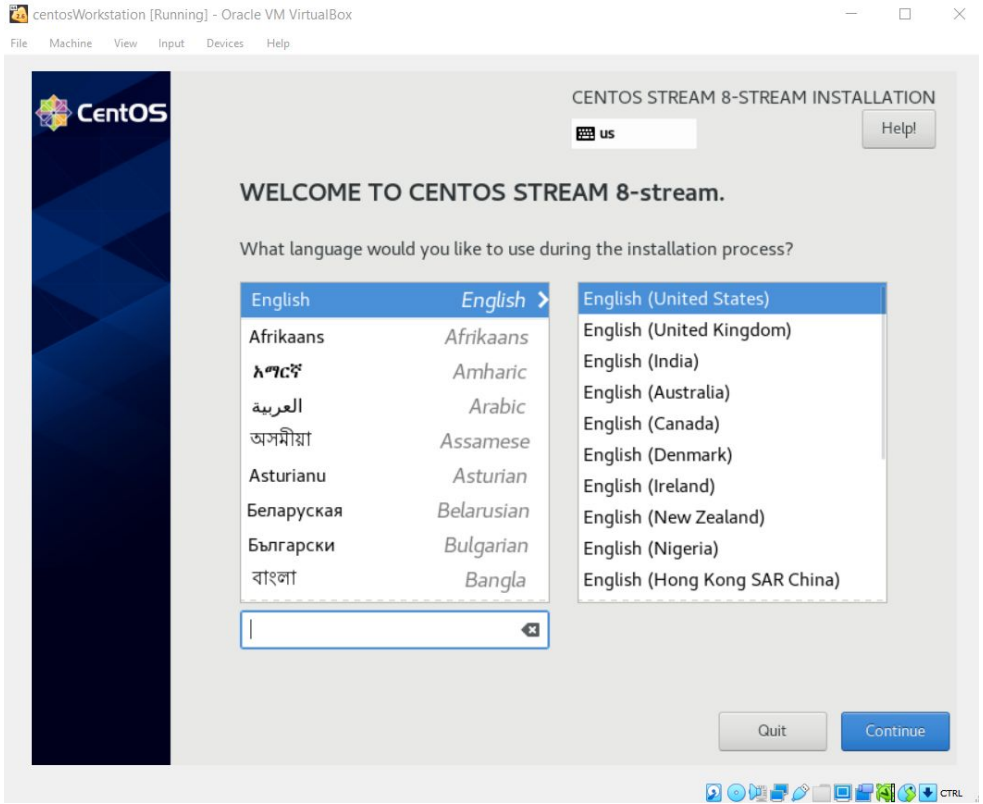
Hit Enter Once we get this page



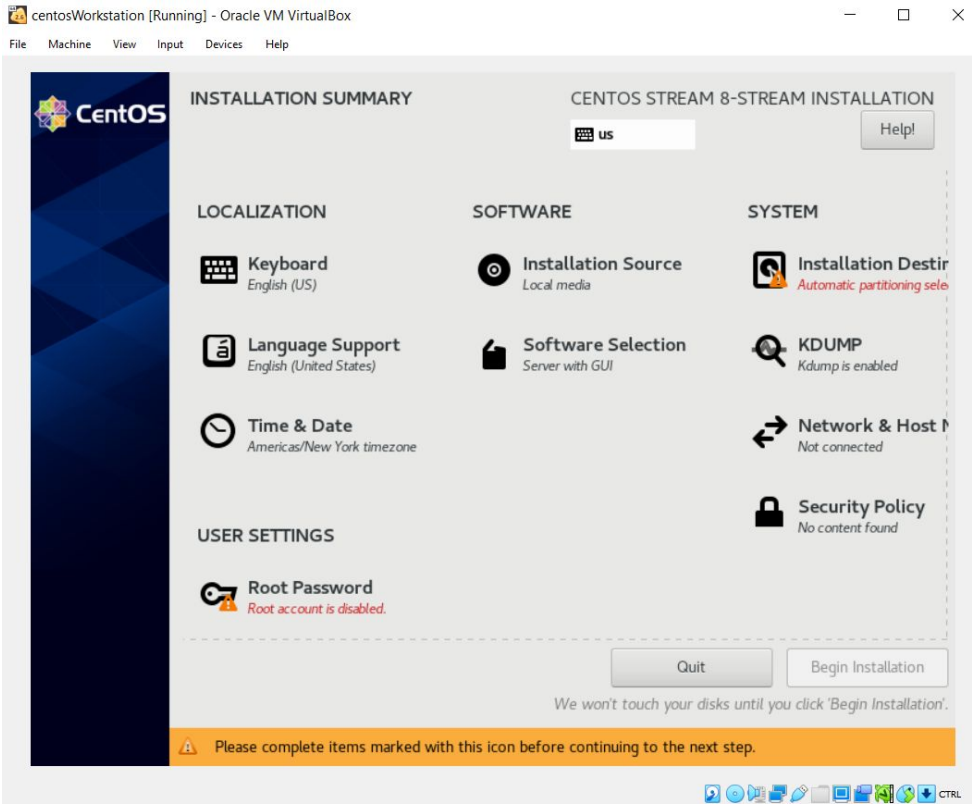
Wait for the System to load



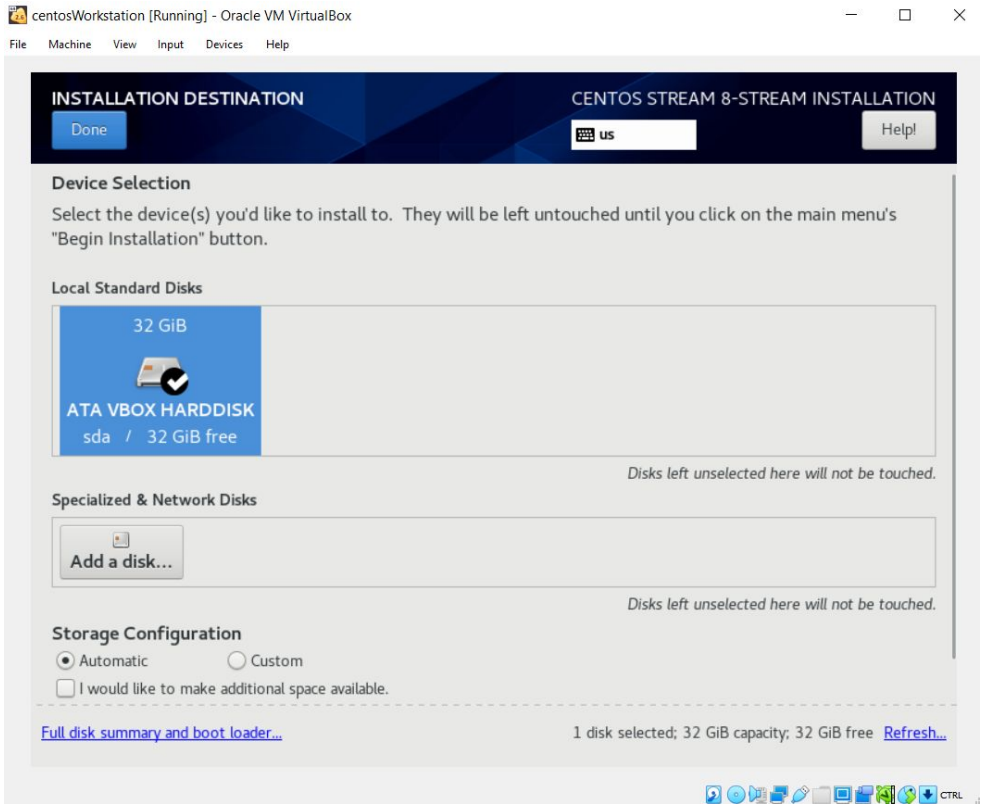
Choose the Language => Continue



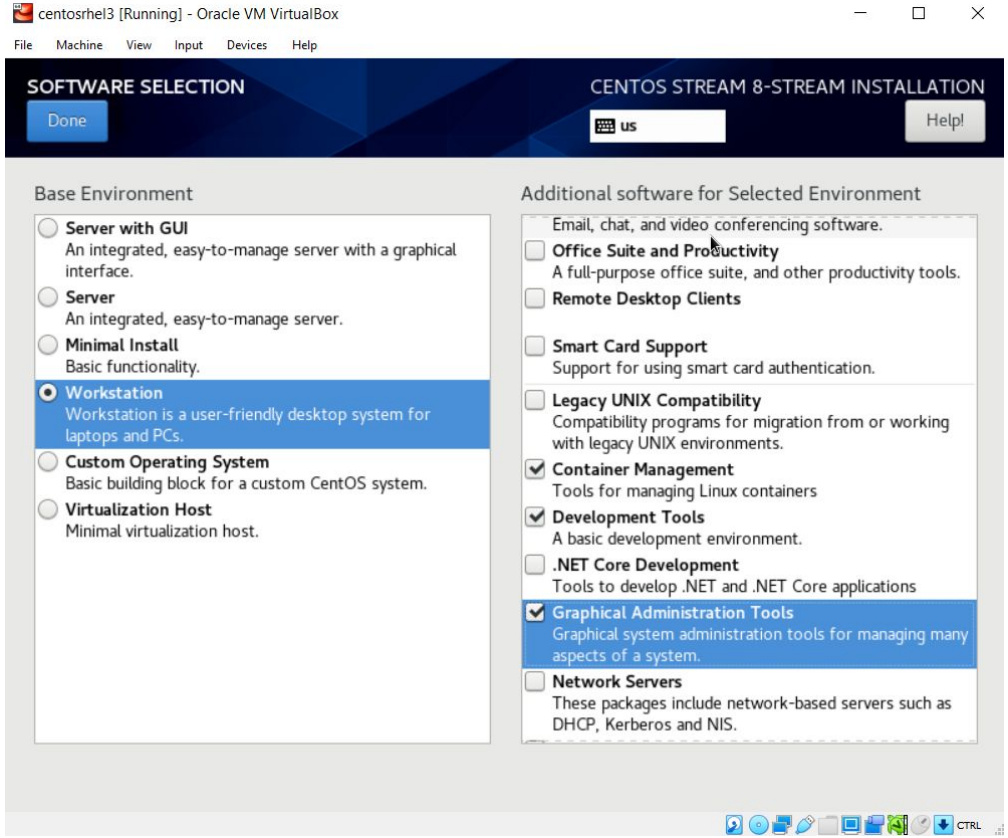
Click on Installation Destination



Click on the Disk  Click Done



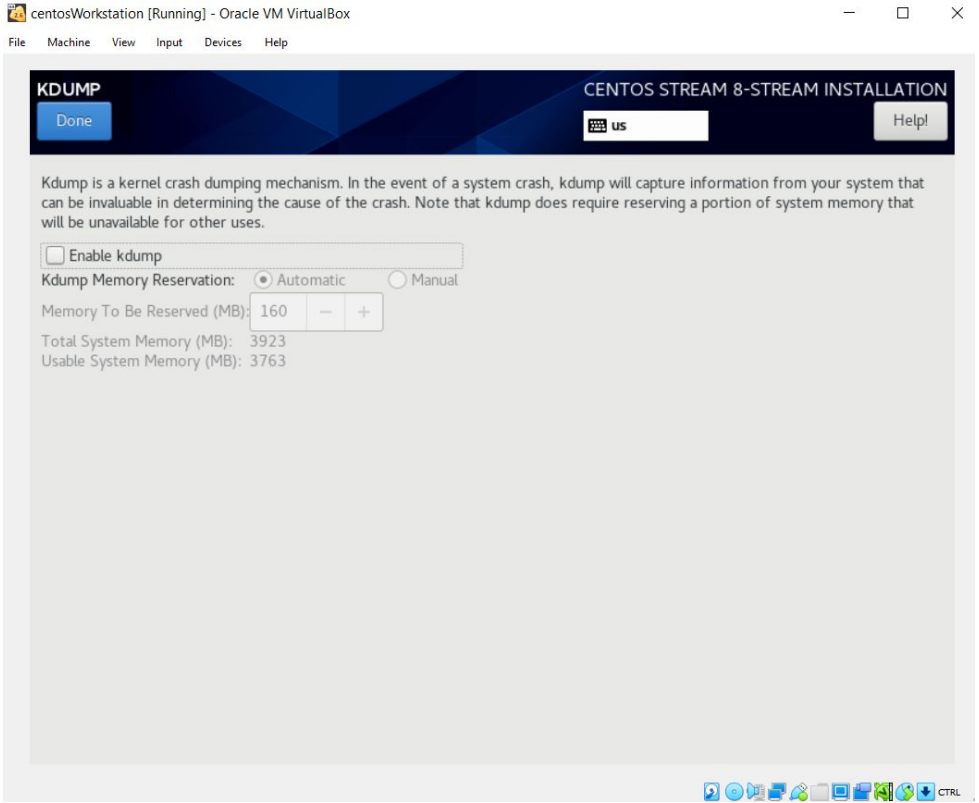
Click on Software Selection => select as shown below



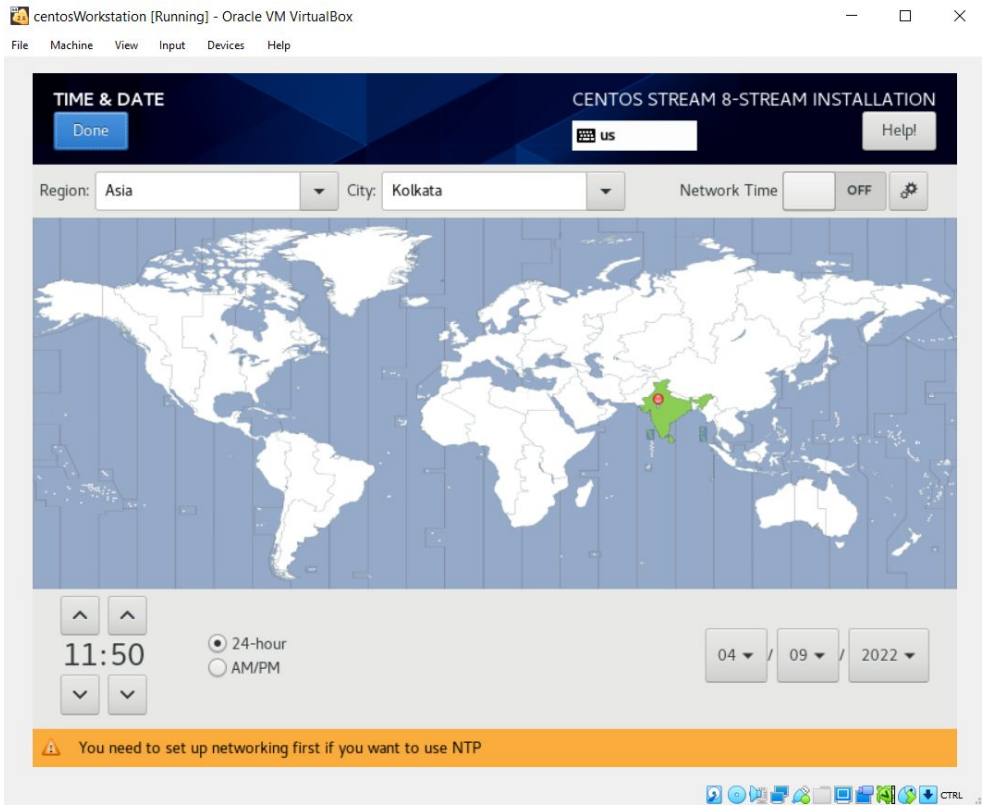
Choose Workstation => Additional Software => Choose the following

- Container Management
- Development Tools
- Graphical Administration Tools

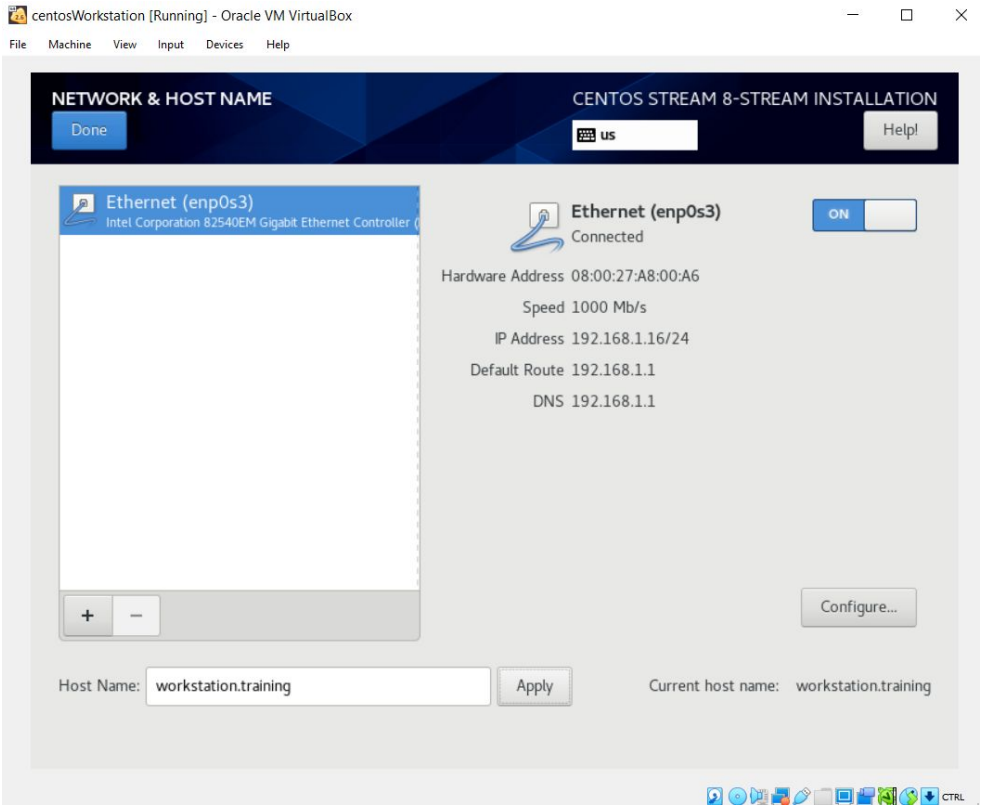
Disable the kdump as shown below and Click Done



Choose the Time zone and Click Done



Choose Network and Hostname

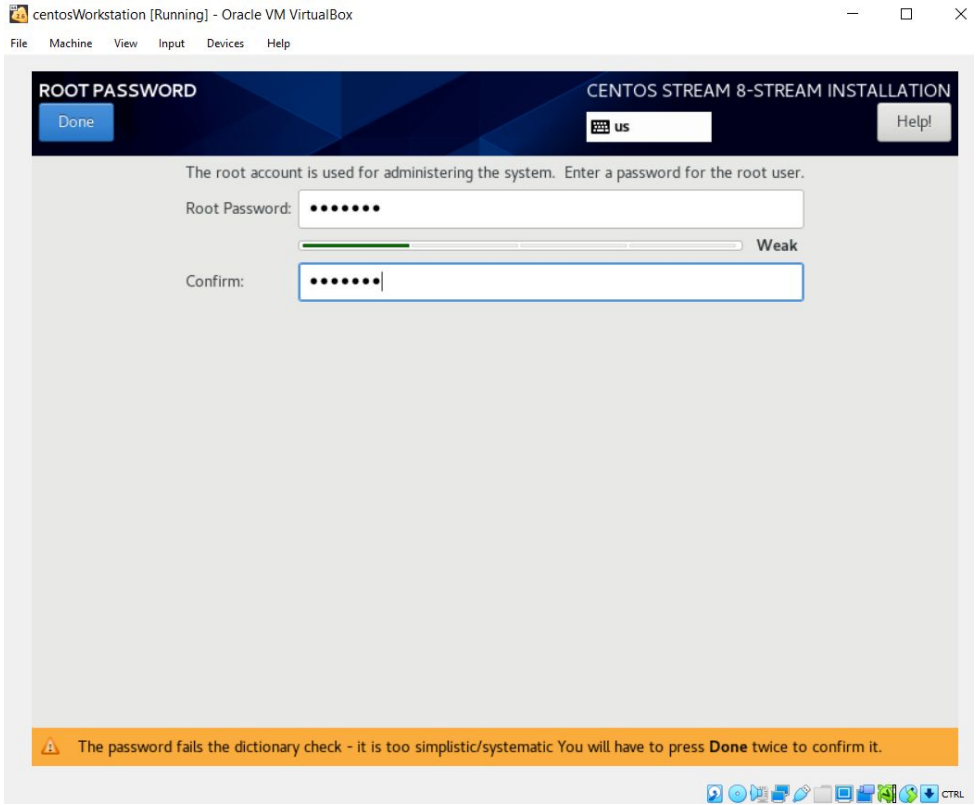


Enable the Ethernet

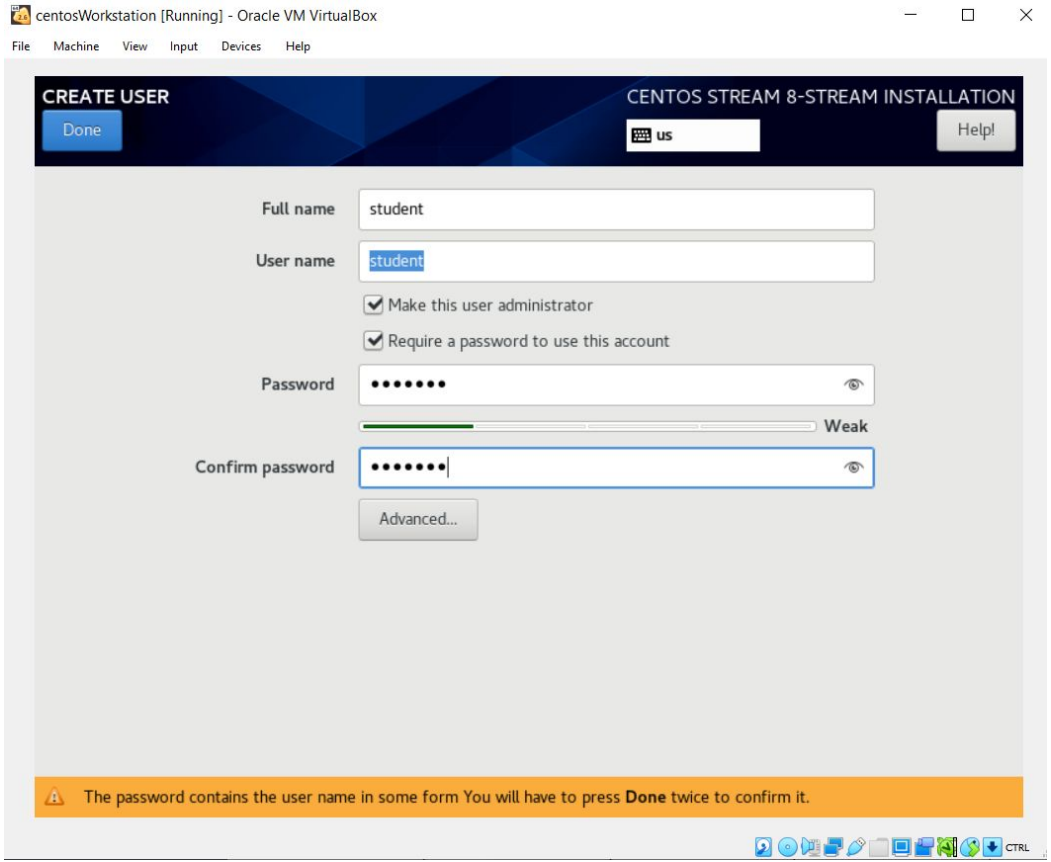
Choose the Host Name at the bottom

Click Done

Choose the Root Password , Click Done



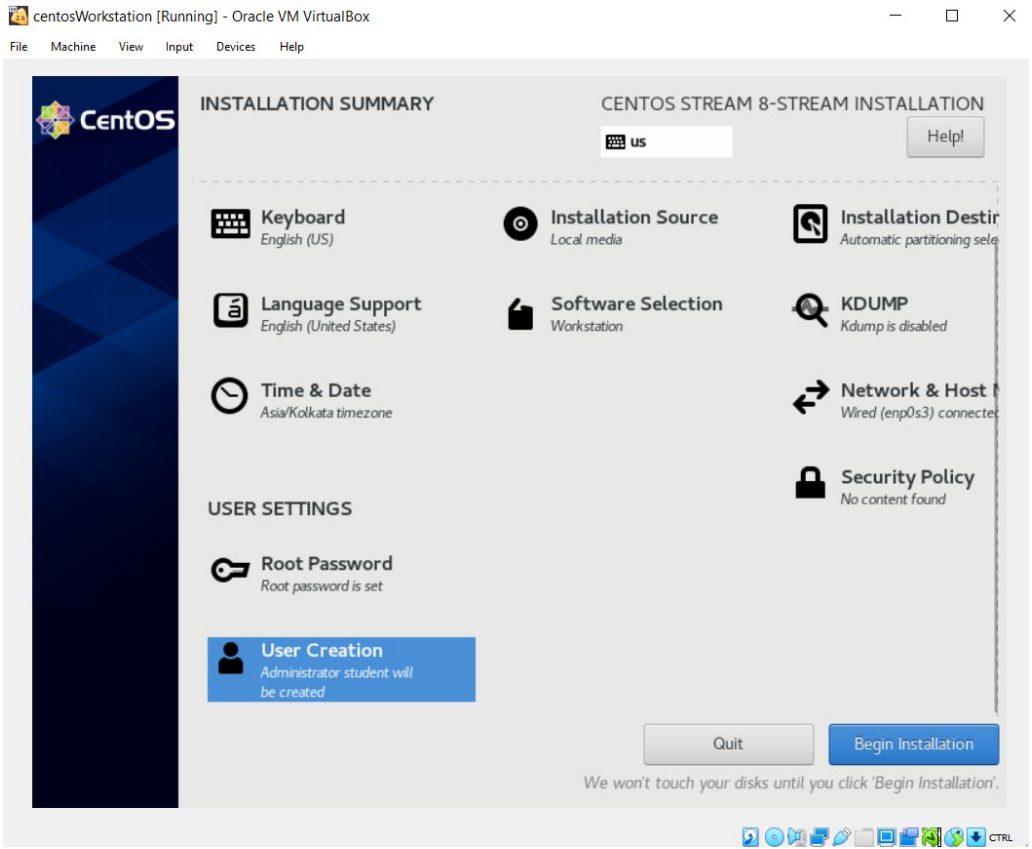
Create User as shown below



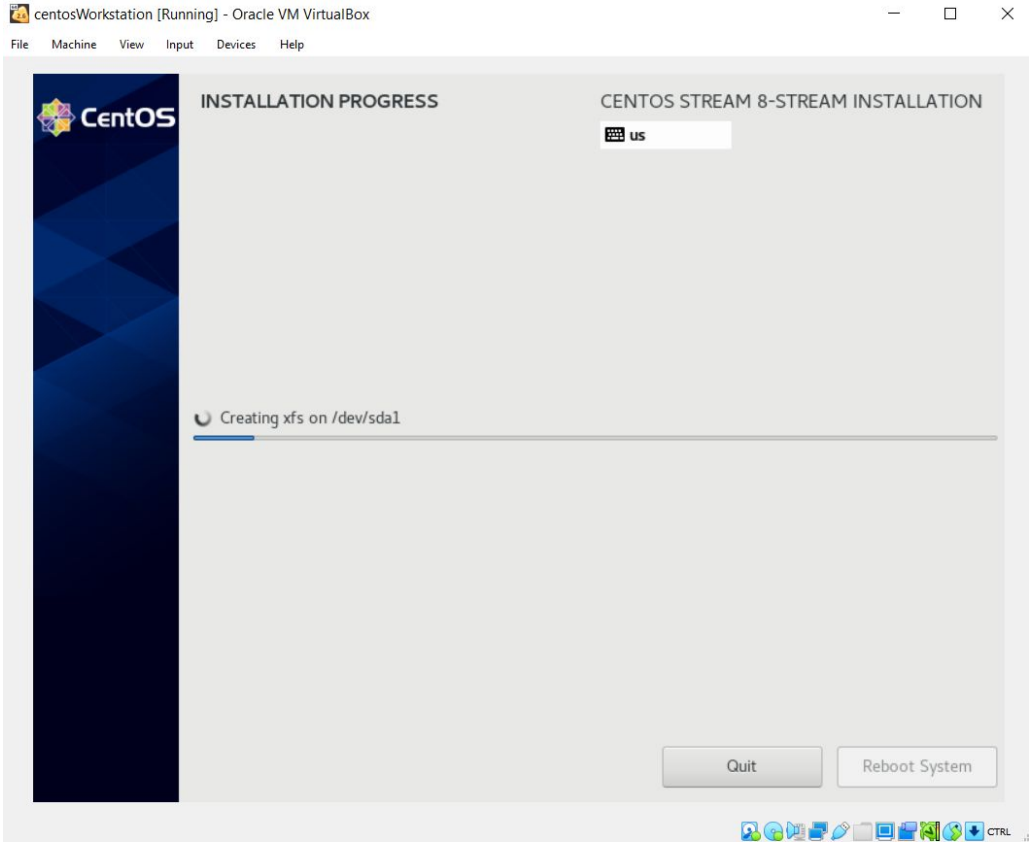
Select Make this user administrator

Set the password for this user

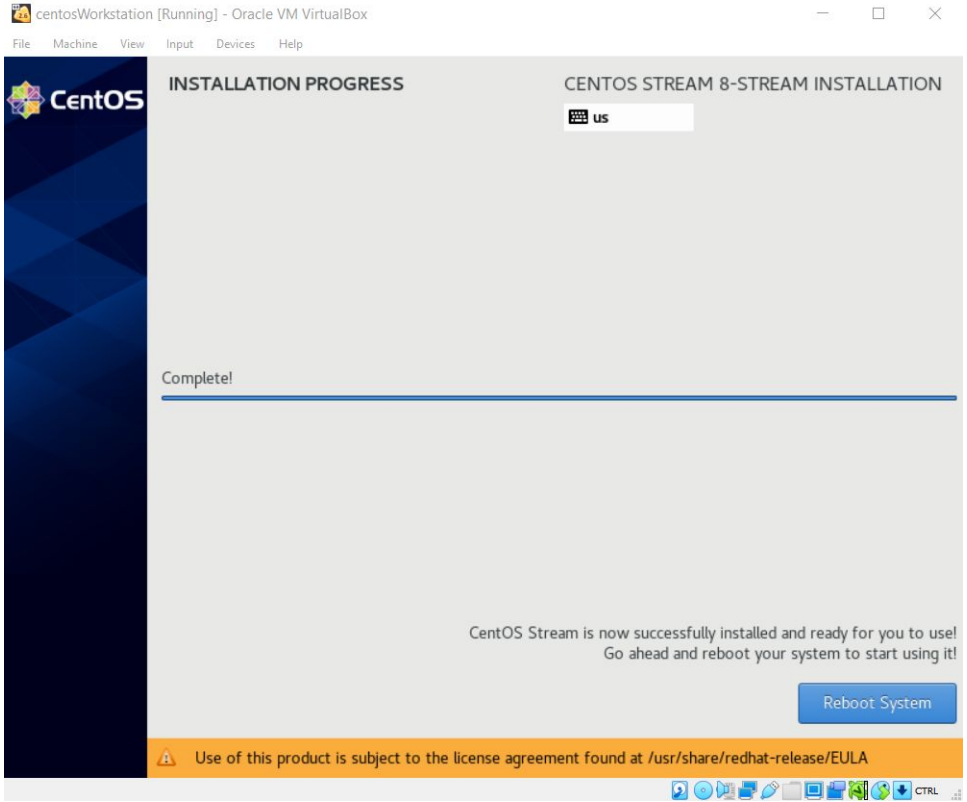
Review all the changes and then Click Begin Installation



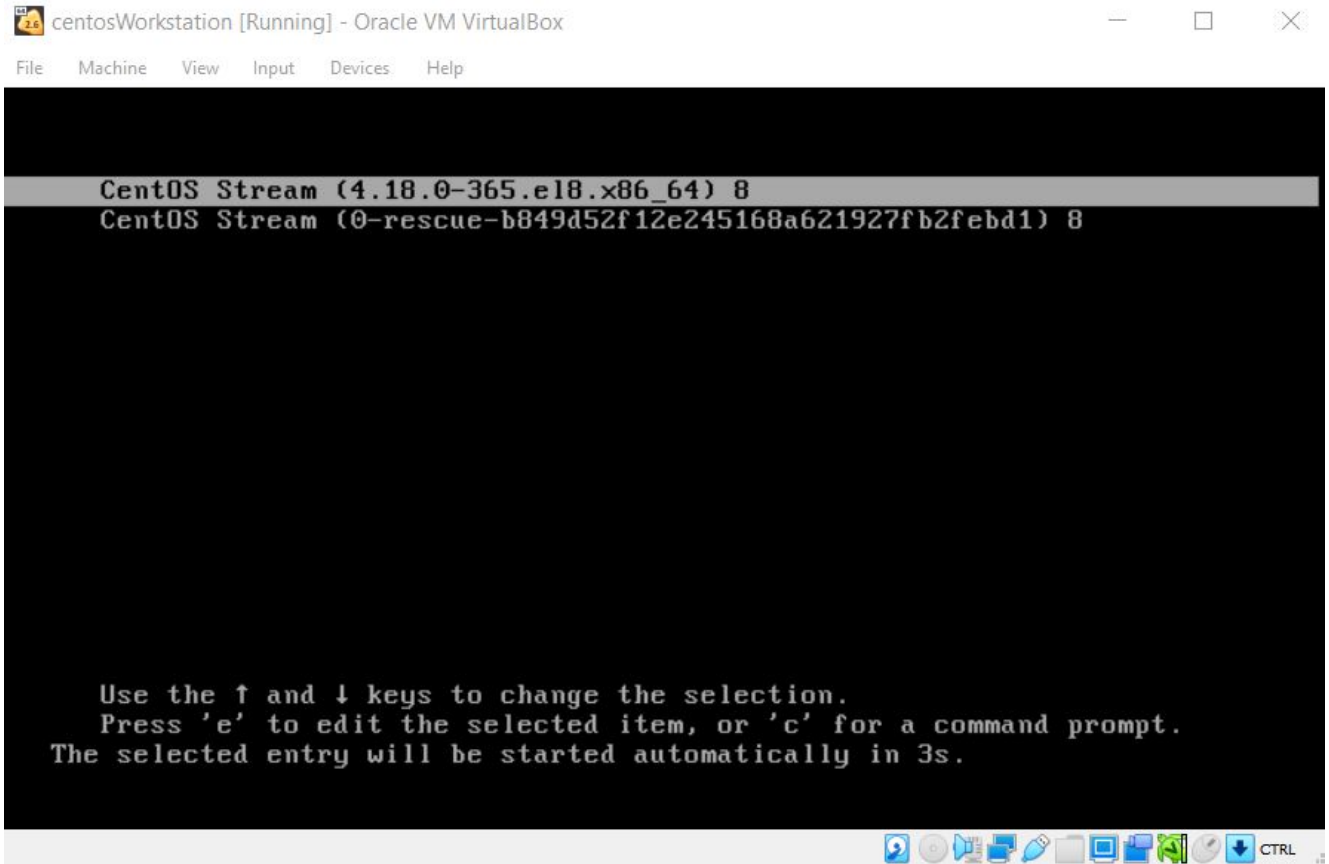
Wait for the Installation to Complete



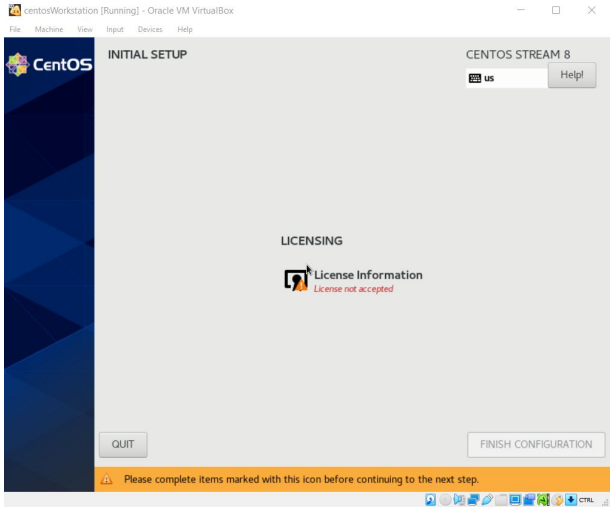
Click Reboot once the installation finishes

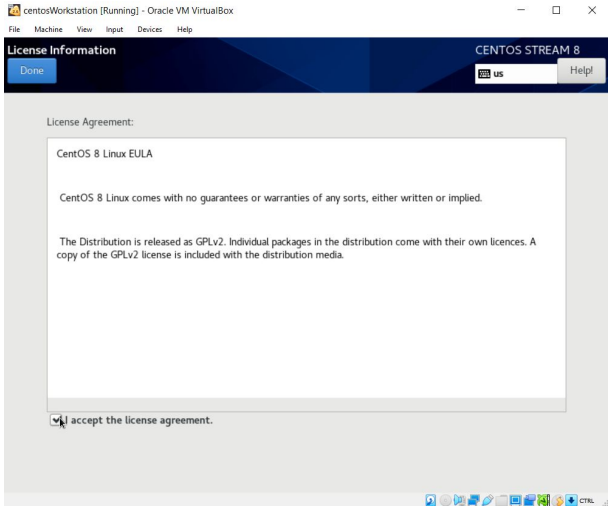


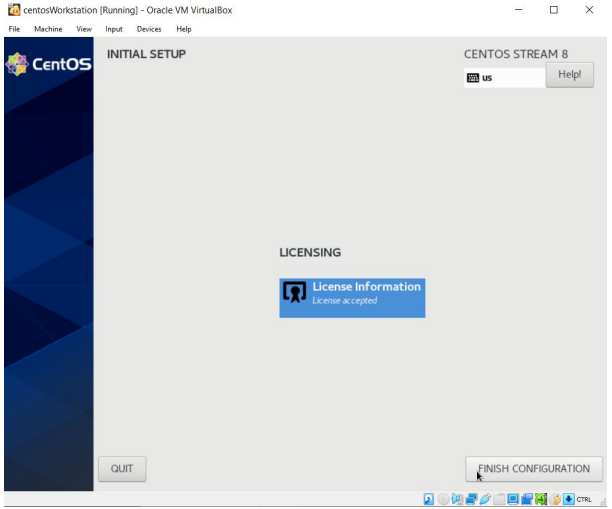
These are the linux kernels, hit enter



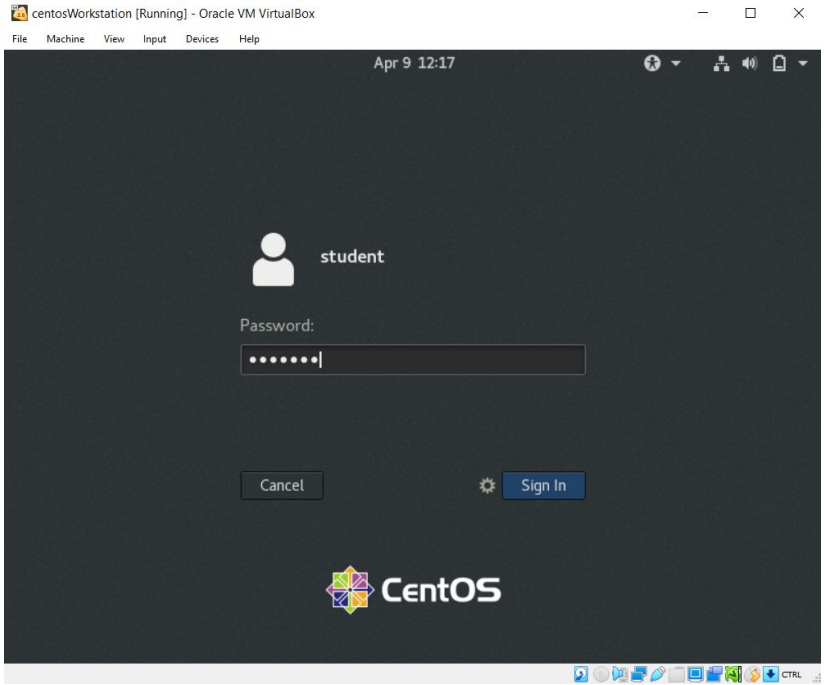
Accept the license agreement and Finish Configuration

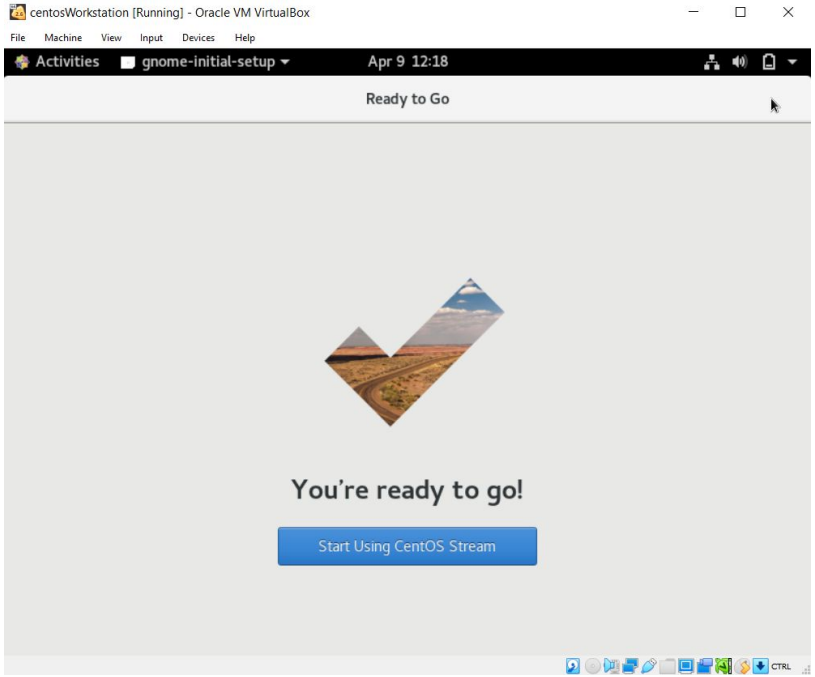






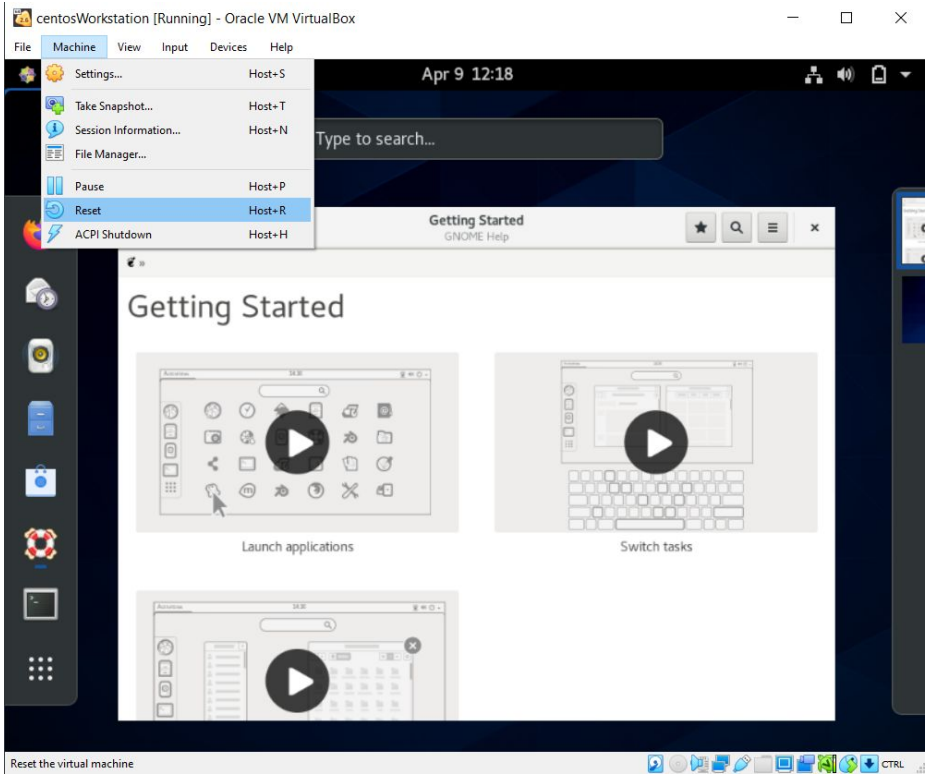
Login with the student credentials and complete the initial screen prompts





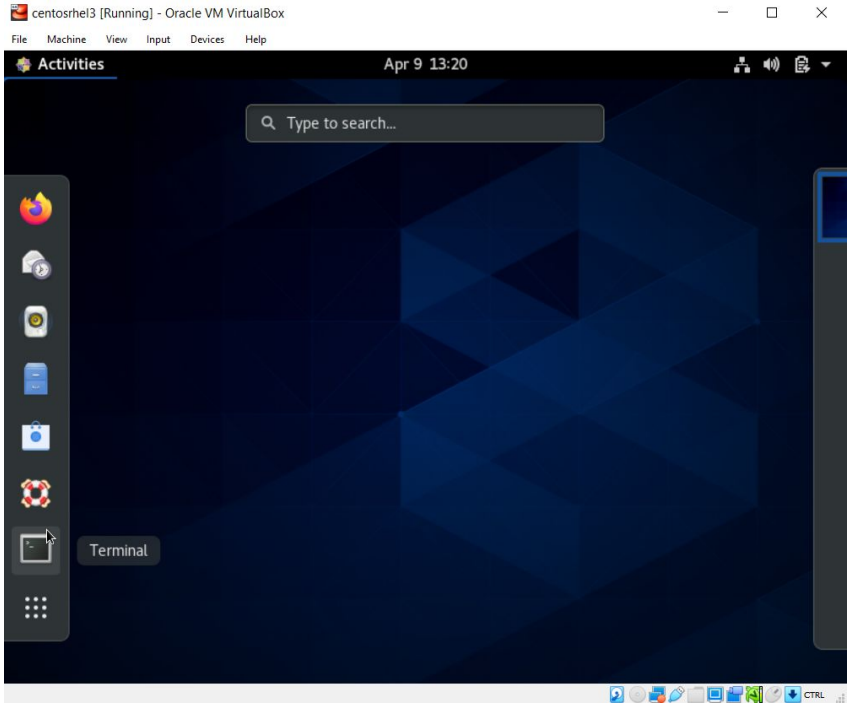
Reboot the machine

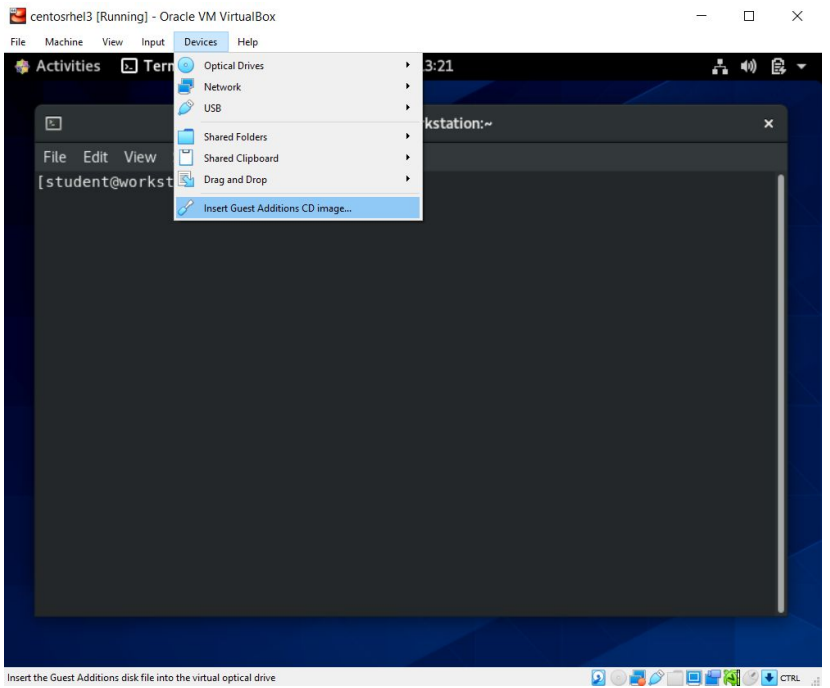
Reboot the machine - If it hangs



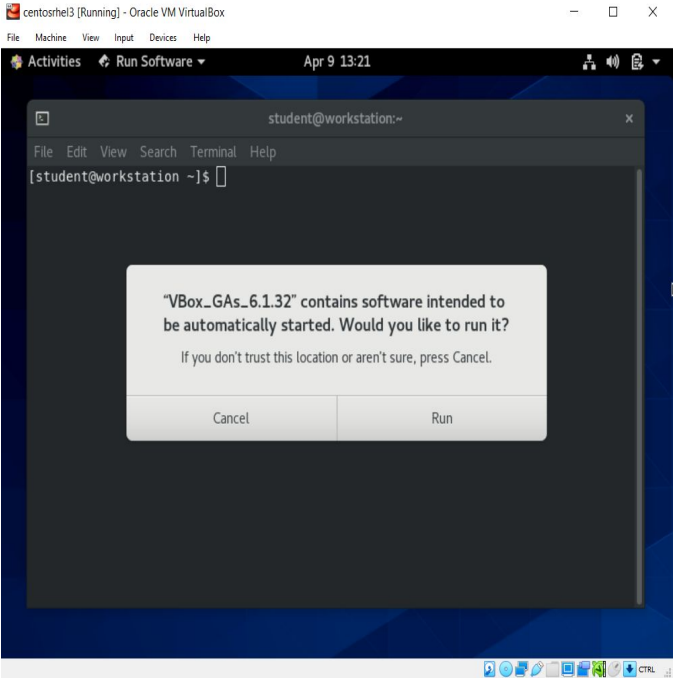
Machine => Reset

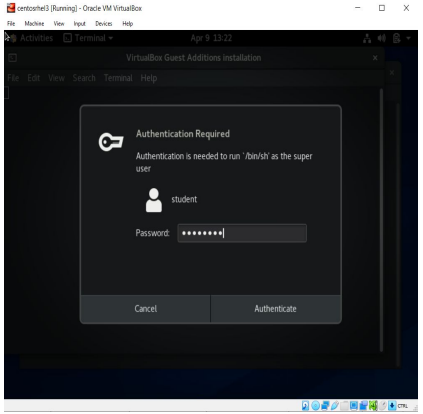
Install the VirtualBox guest install so we can adjust screen size and mouse cursor will not be locked to the VM

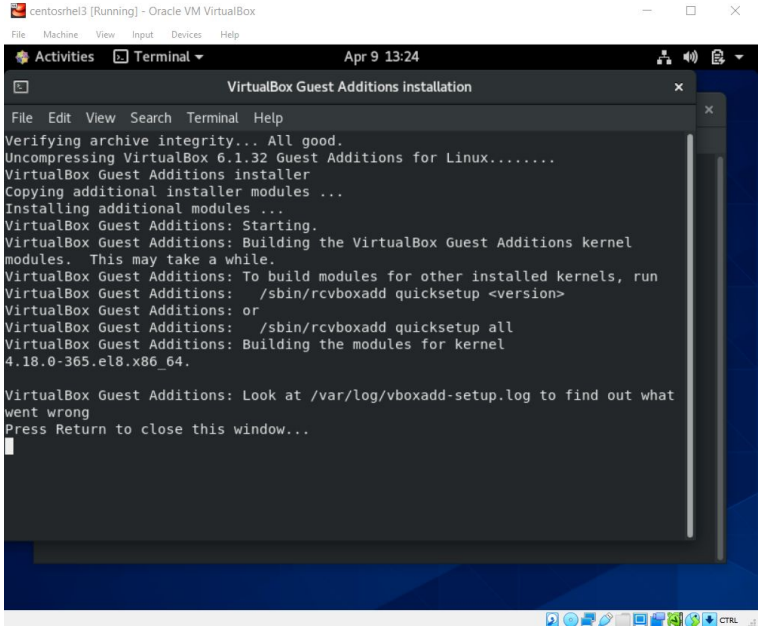




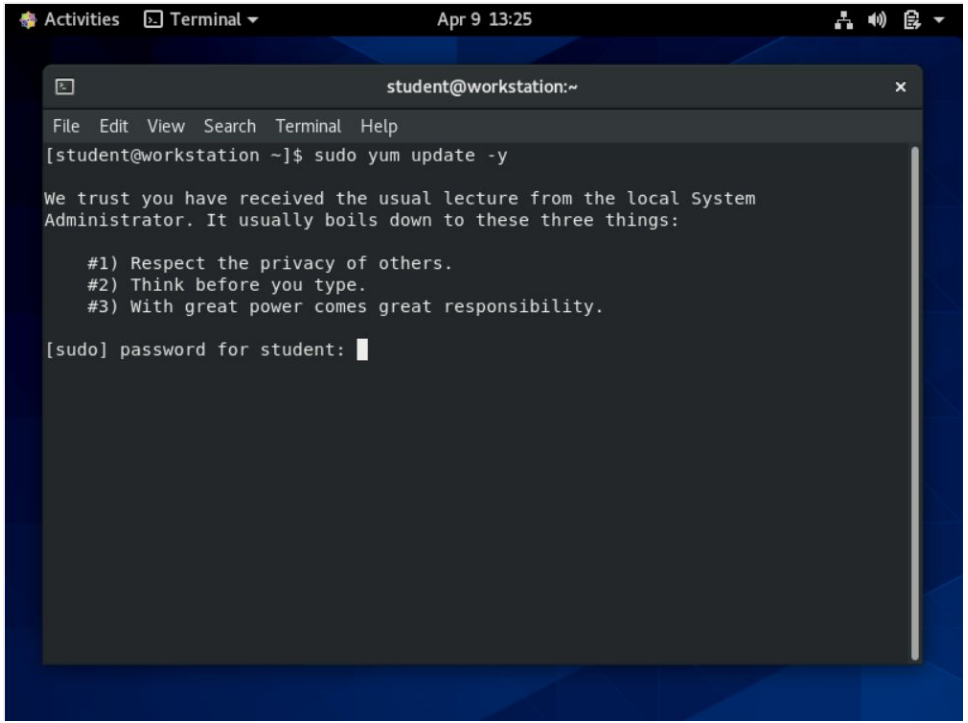
Click Run, enter Student credentials

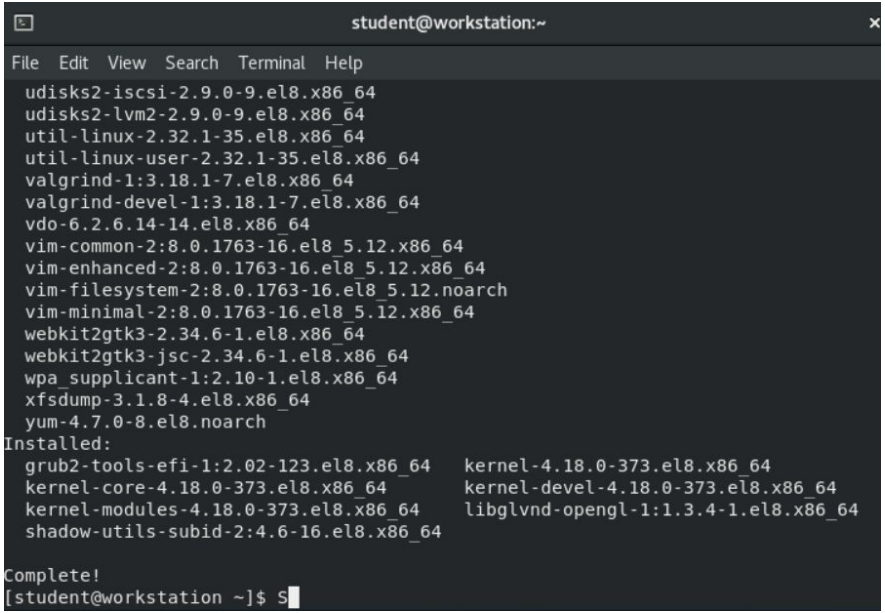




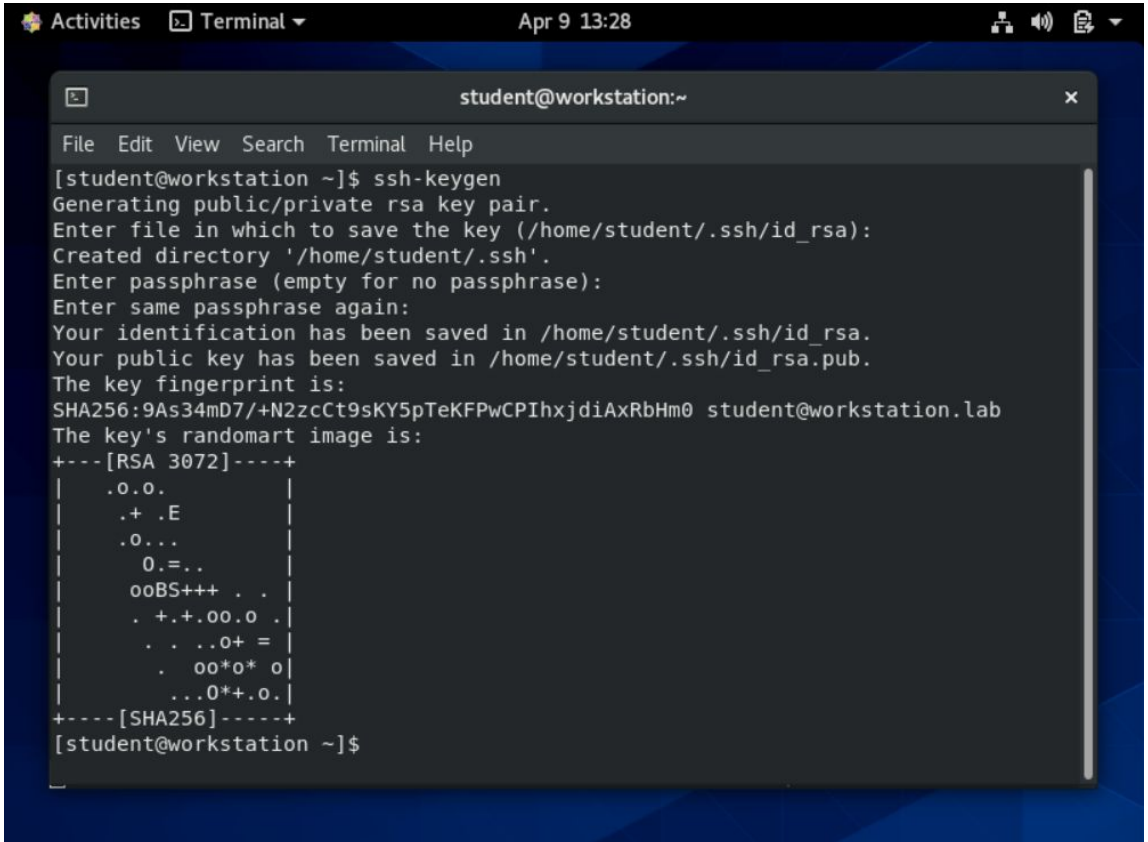


Install the latest updates as shown below





Enter the command for generating ssh-keypair



ssh-keygen
Hit enter
Hit enter again
Hit enter again

Enter the following command

```
[student@workstation ~]$ ssh-copy-id localhost
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter
out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompt
ed now it is to install the new keys
student@localhost's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'localhost'"
and check to make sure that only the key(s) you wanted were added.

[student@workstation ~]$
```

ssh-copy-id localhost

enter student password