Miles Ogrady

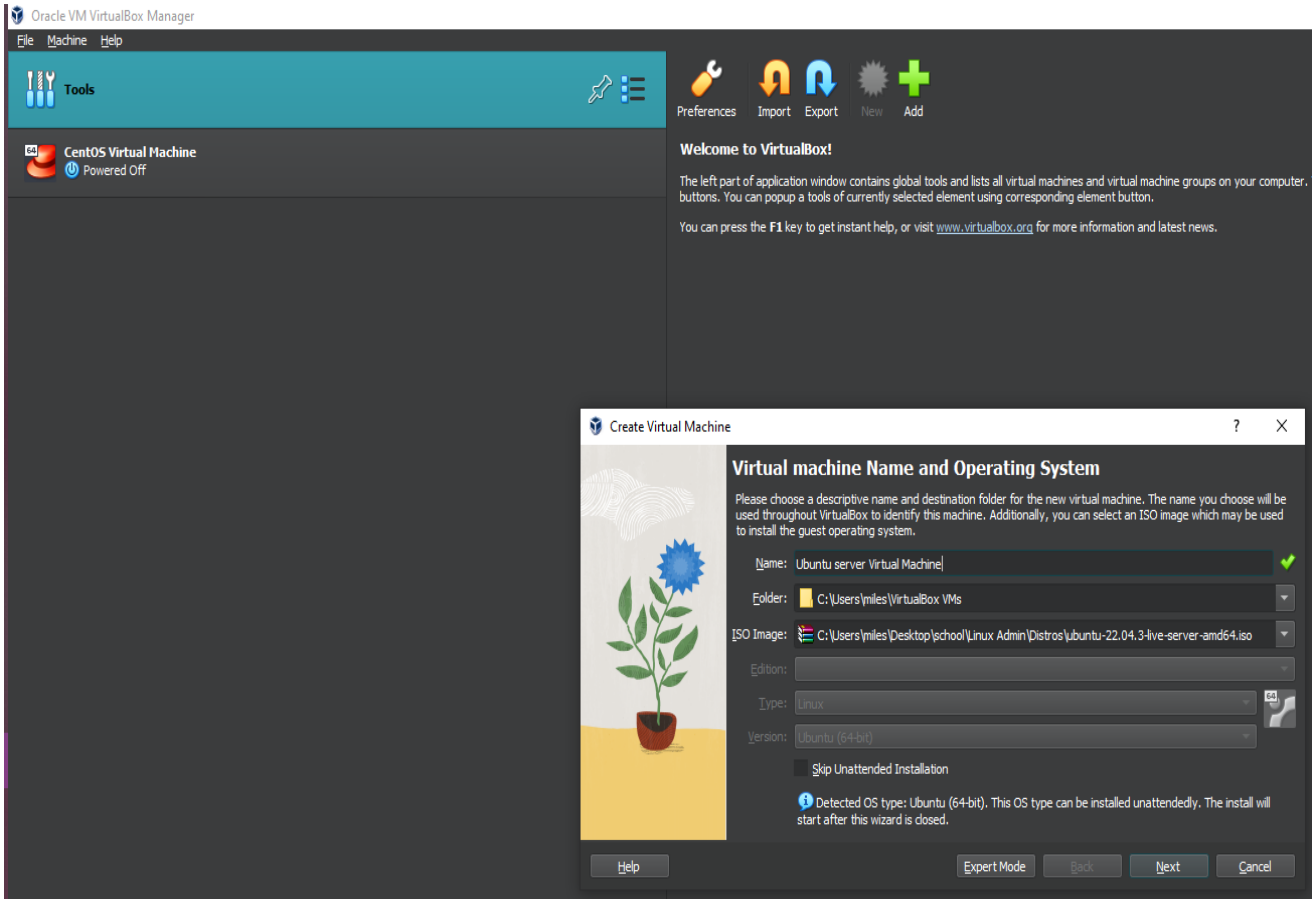
Server Setup

Intro: A virtual machine lets you use another operating sytem in your operating system.
First download virtual box https://www.virtualbox.org/

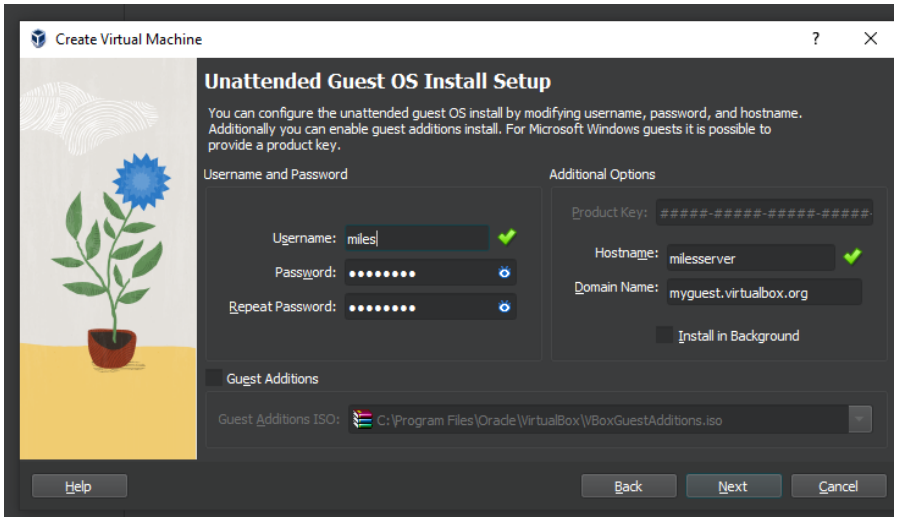
Ubuntu server setup:

Step 1: go to https://ubuntu.com/download/server and download the ubuntu server iso.
Step 2: open virtual box and then select new
Step 3: add the ubuntu vm

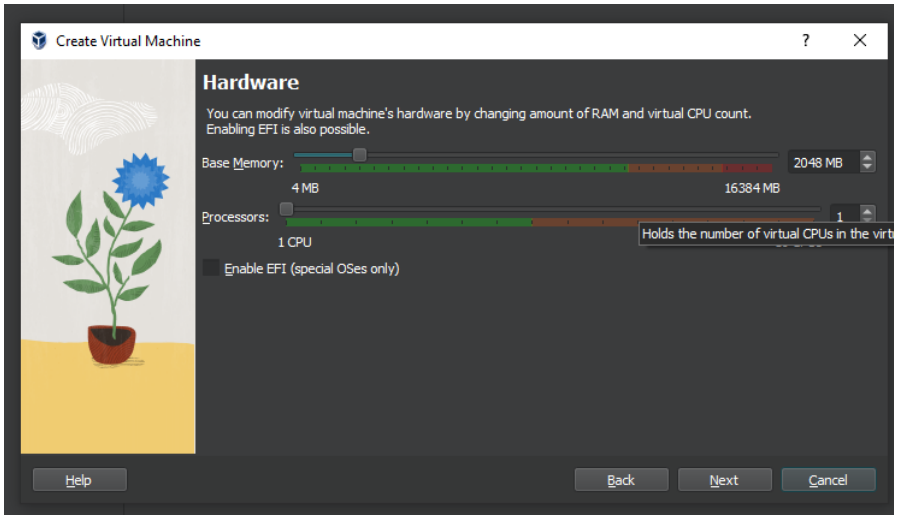
Under “Iso Image” select the ubuntu server iso you just downloaded and name it appropriately then click next.



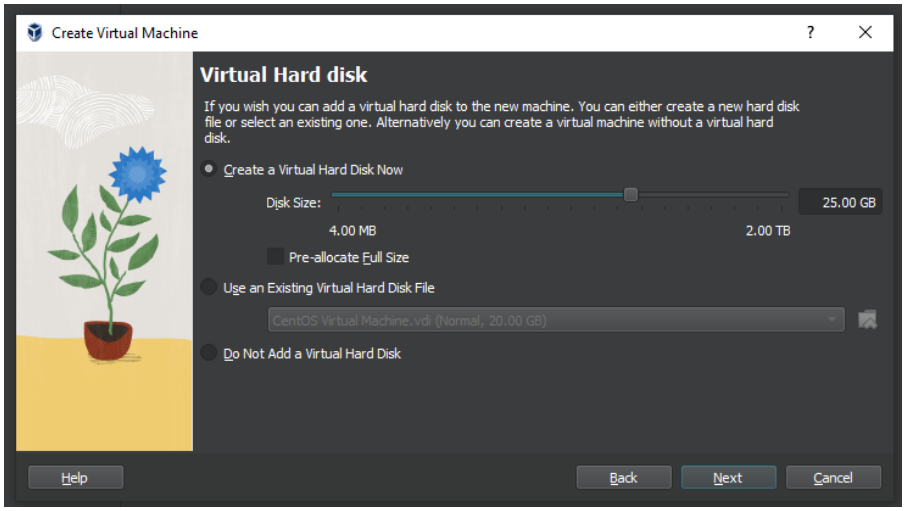
Next make a username/password and hostname and then click next



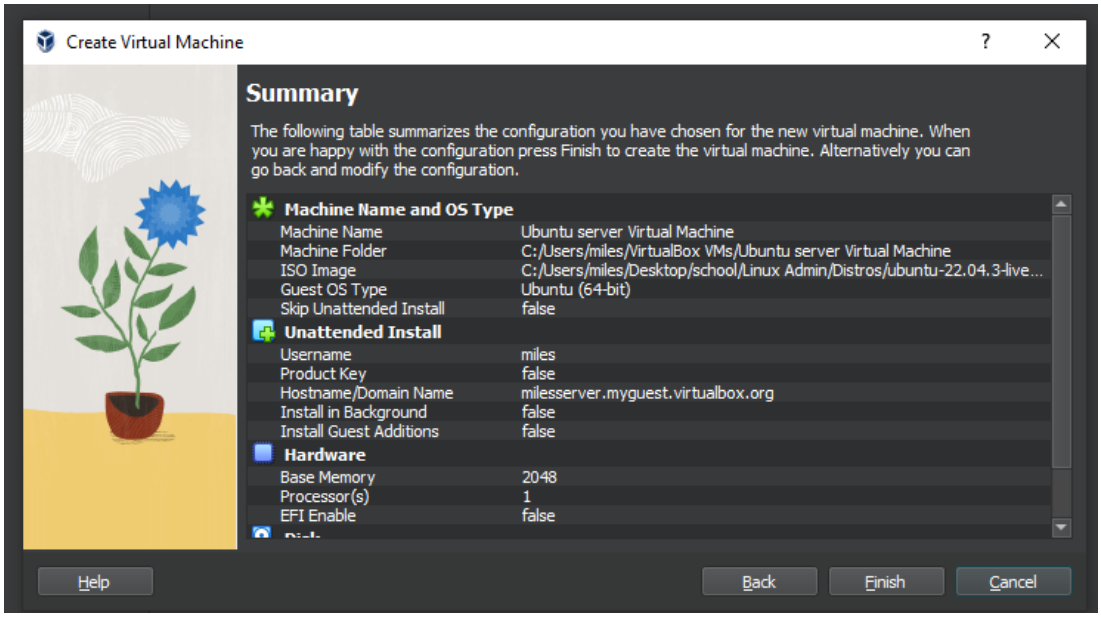
You can click next here.



You can leave this as default as well and click next.



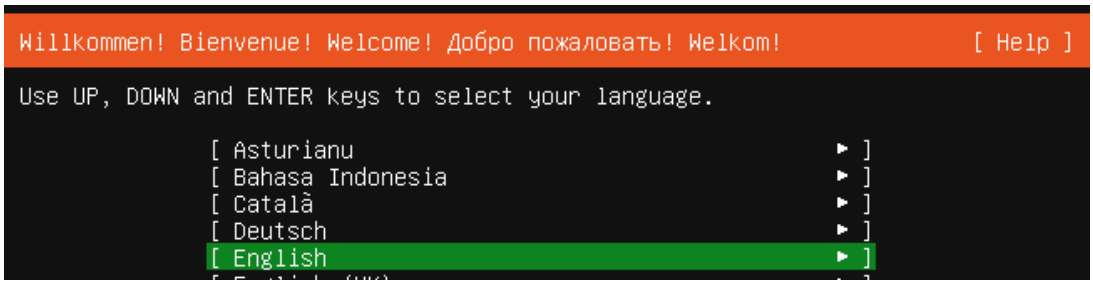
Now click finish



Step 4: start ubuntu server by clicking start.

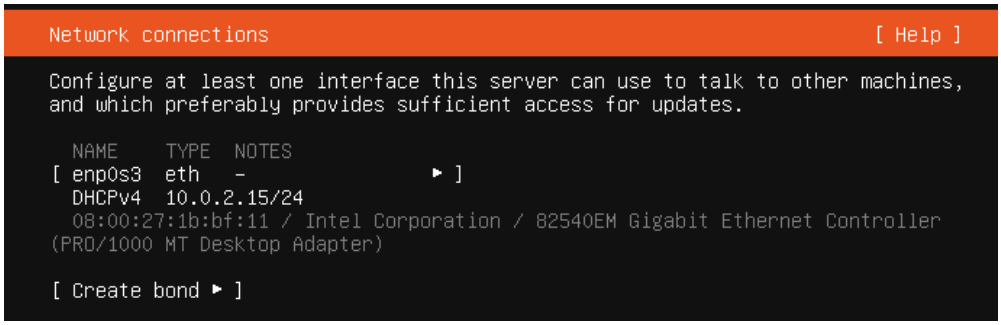
Step 5: Install ubuntu server

First select the language you want to use and then press enter on done.



Next select your keyboard language and press enter on done.

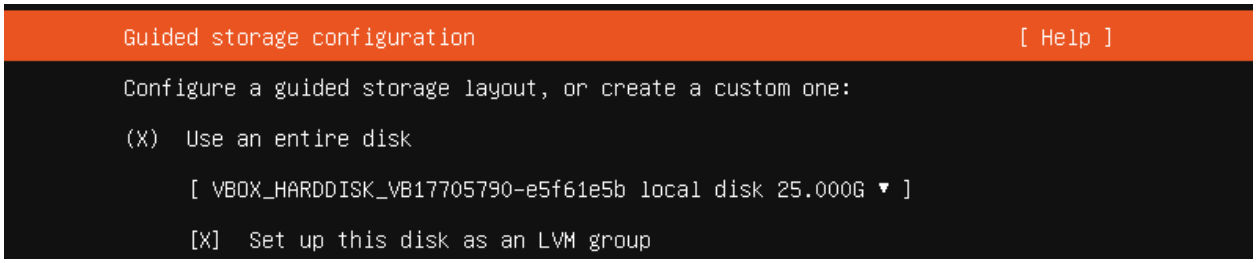
Next make sure your network shows up and then press enter on done



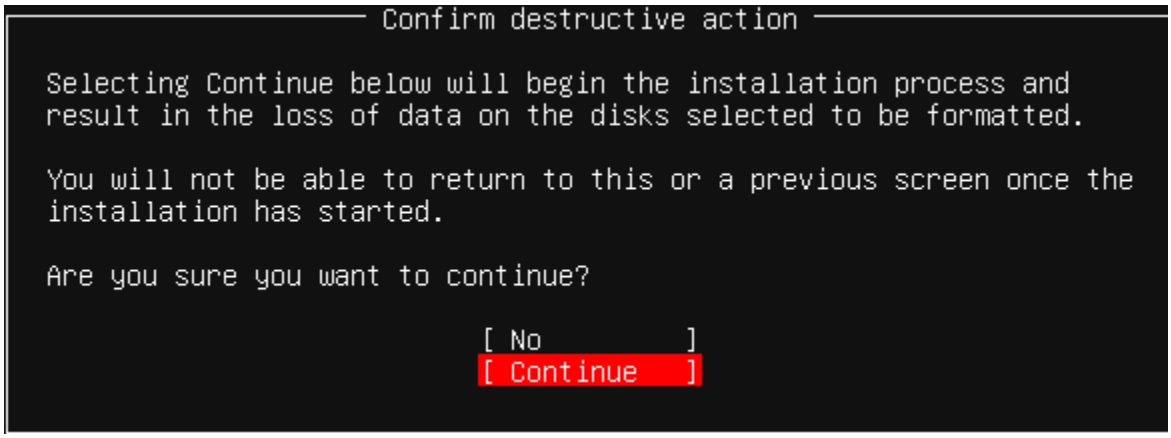
Next on the “configure proxy” page you can leave it default and press enter on done.

Next on the “configure ubuntu archive mirror” page you can leave it as default and press enter.

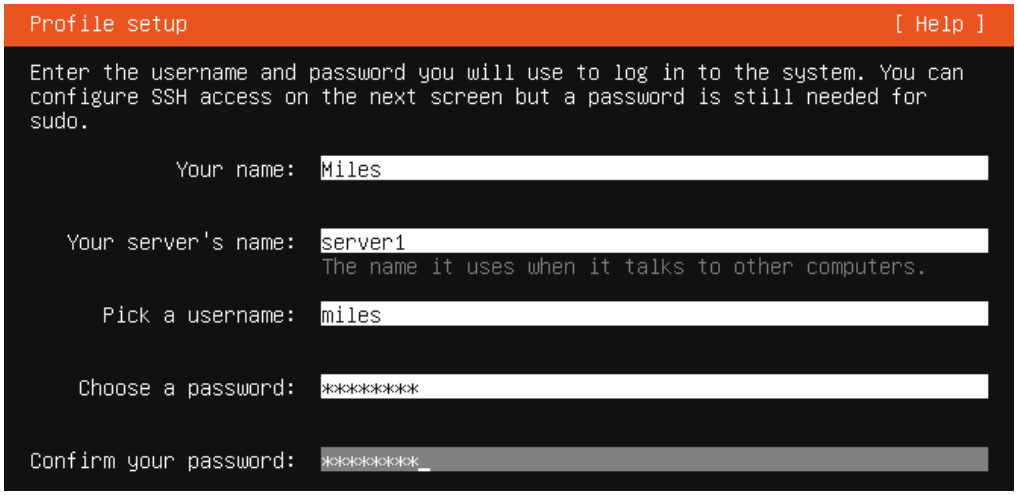
Next you can leave the guided storage default and on the next page leave storage configuration default as well.



When this message pops up after you select done, select continue.

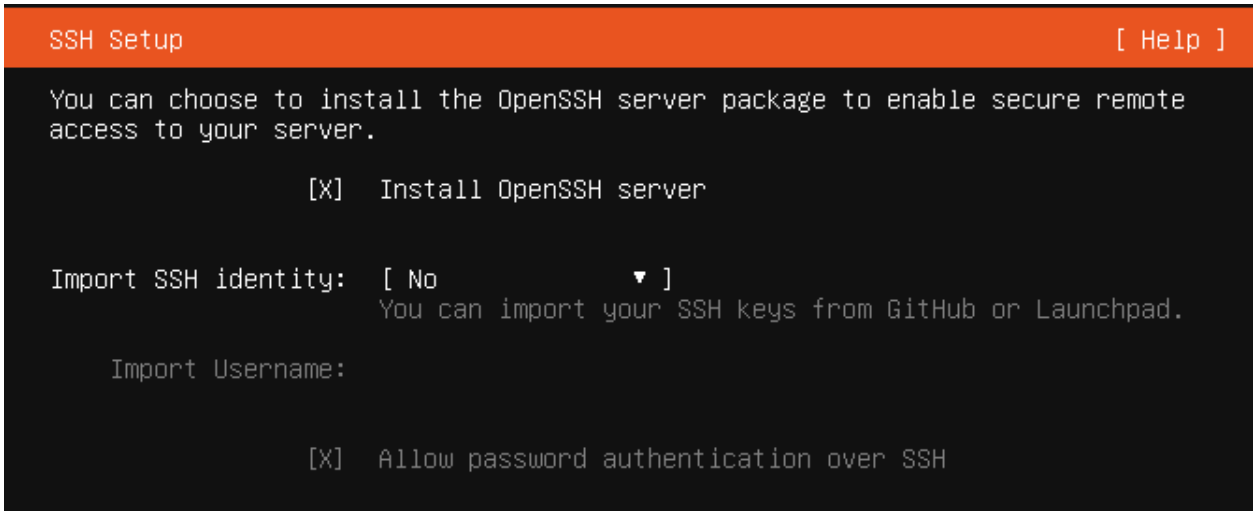


Next create a username and password



Next on the “ubuntu pro” page you can leave it default an select done.

Next you can select install openssh server because we will be using it.



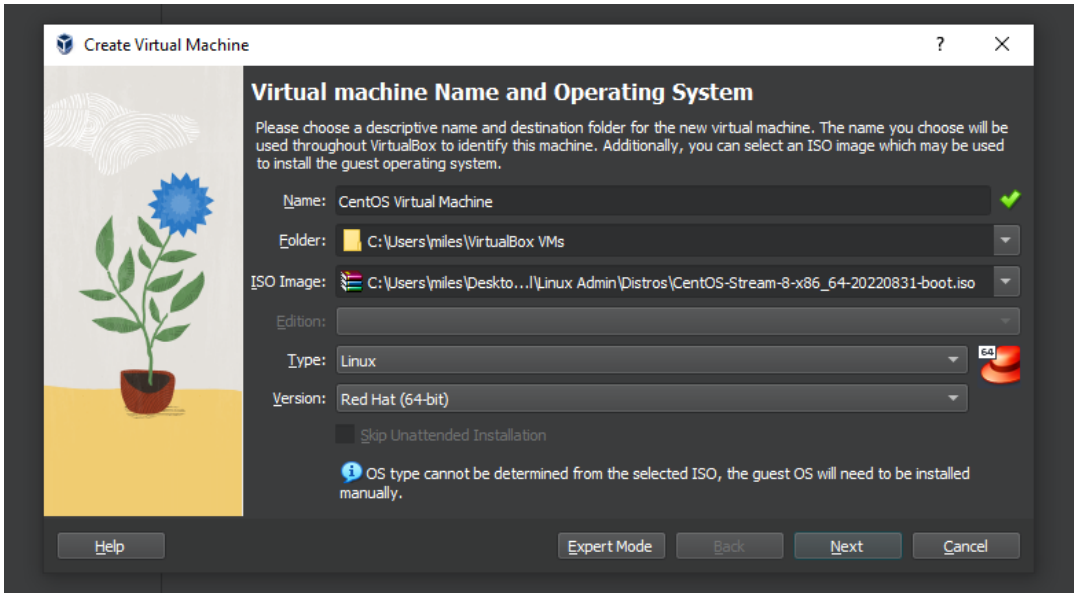
Next on the “featured server snaps” page you can leave everything default for now and select done.

Next install the operating system and when it finishes select “reboot now”

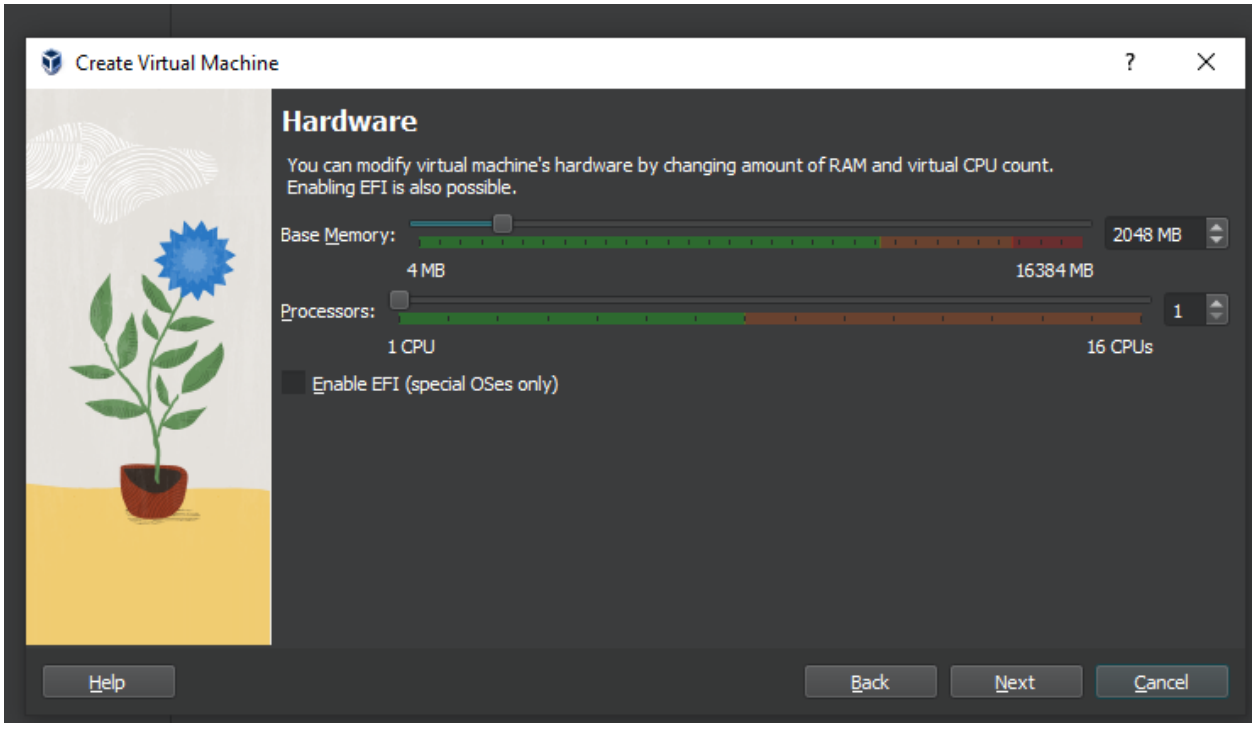
centOS server setup:

Step 1: download a centOS iso at https://www.centos.org/download/
Step 2: open virtual box and then select new
Step 3: add the centOS vm

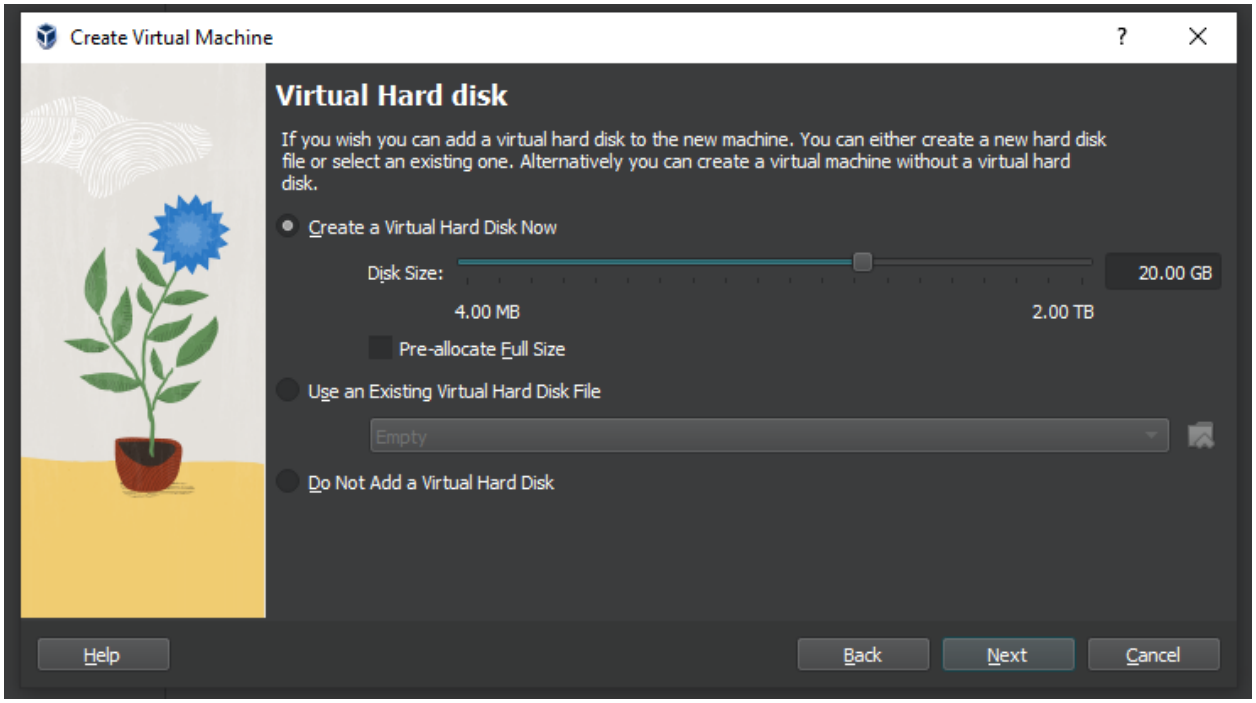
Under “Iso Image” select the centOS server you just downloaded and name it appropriately then click next.



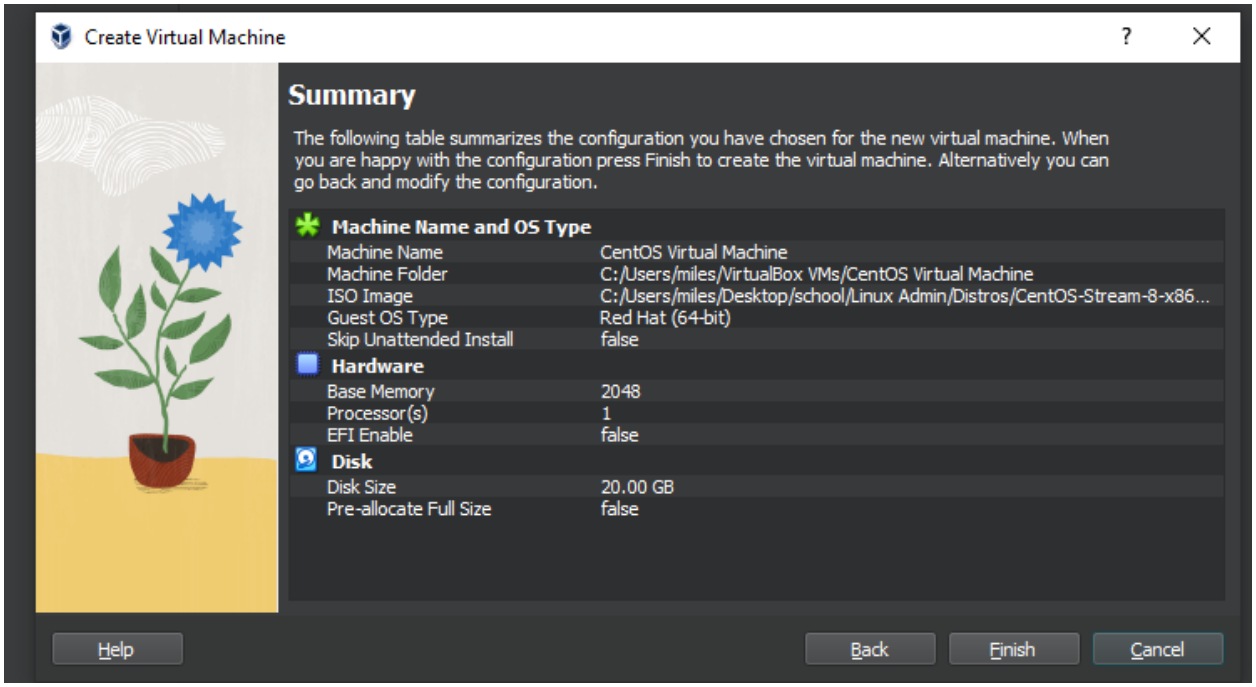
Next you can leave this default and click next



You can also leave this default and click next.

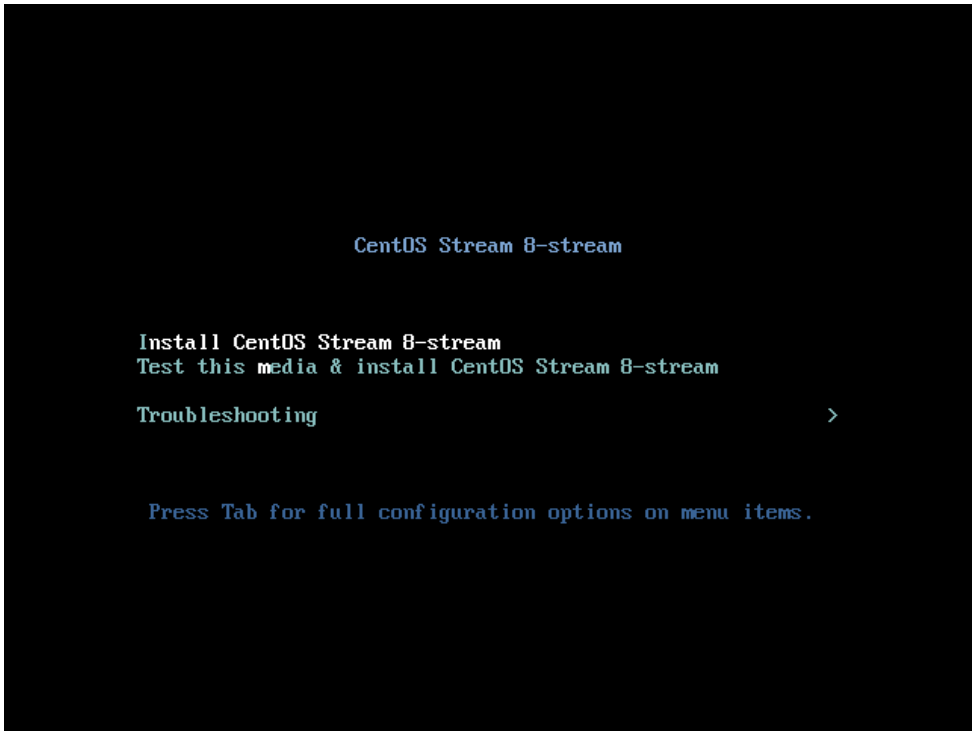


Now you can click finish.

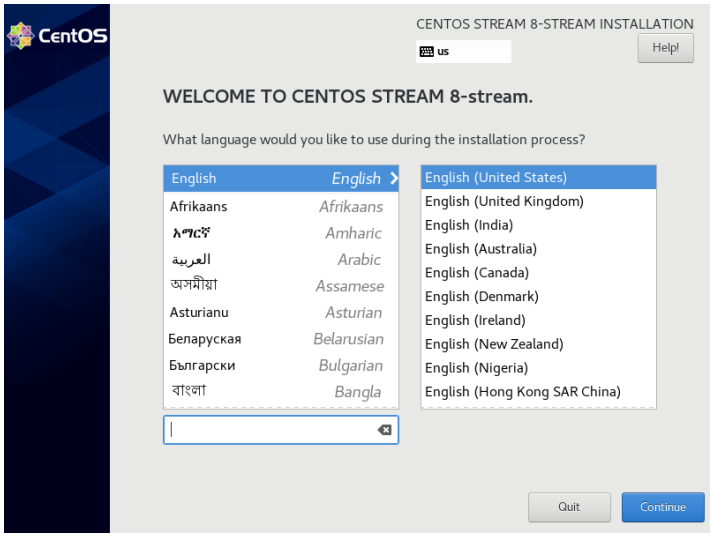


Step 4: start the centOS server by clicking start.
Step 5: Install the centOS server

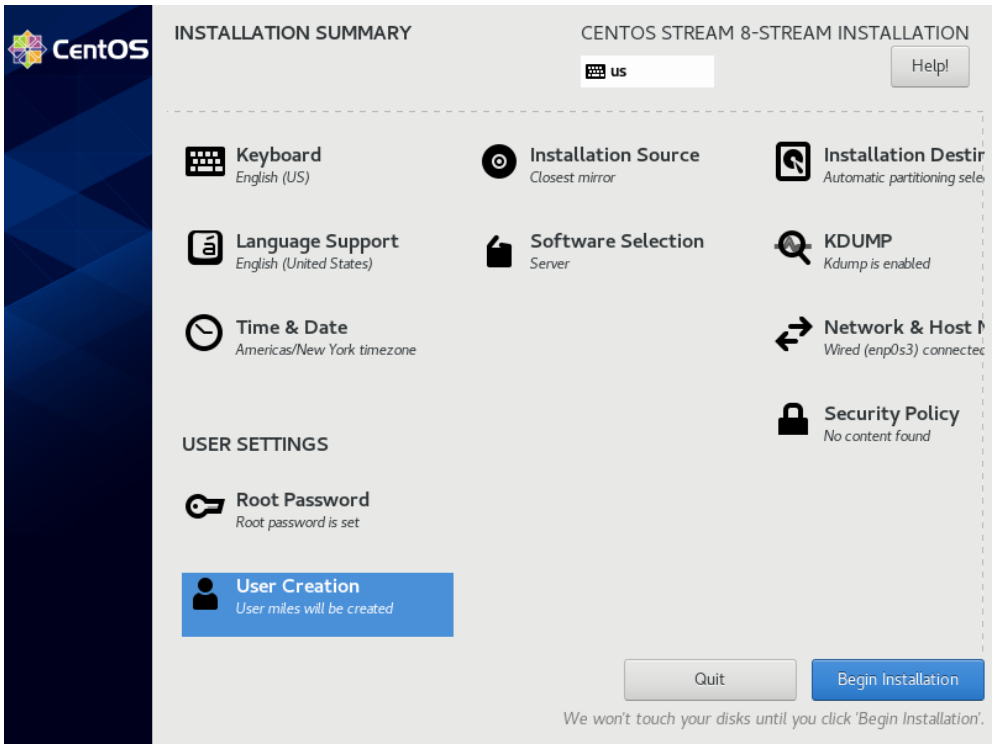
Select install



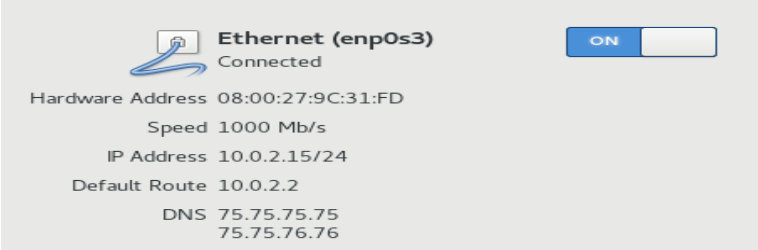
Next, choose the language you will be using and click continue.



Now you will have all these options you need to click on



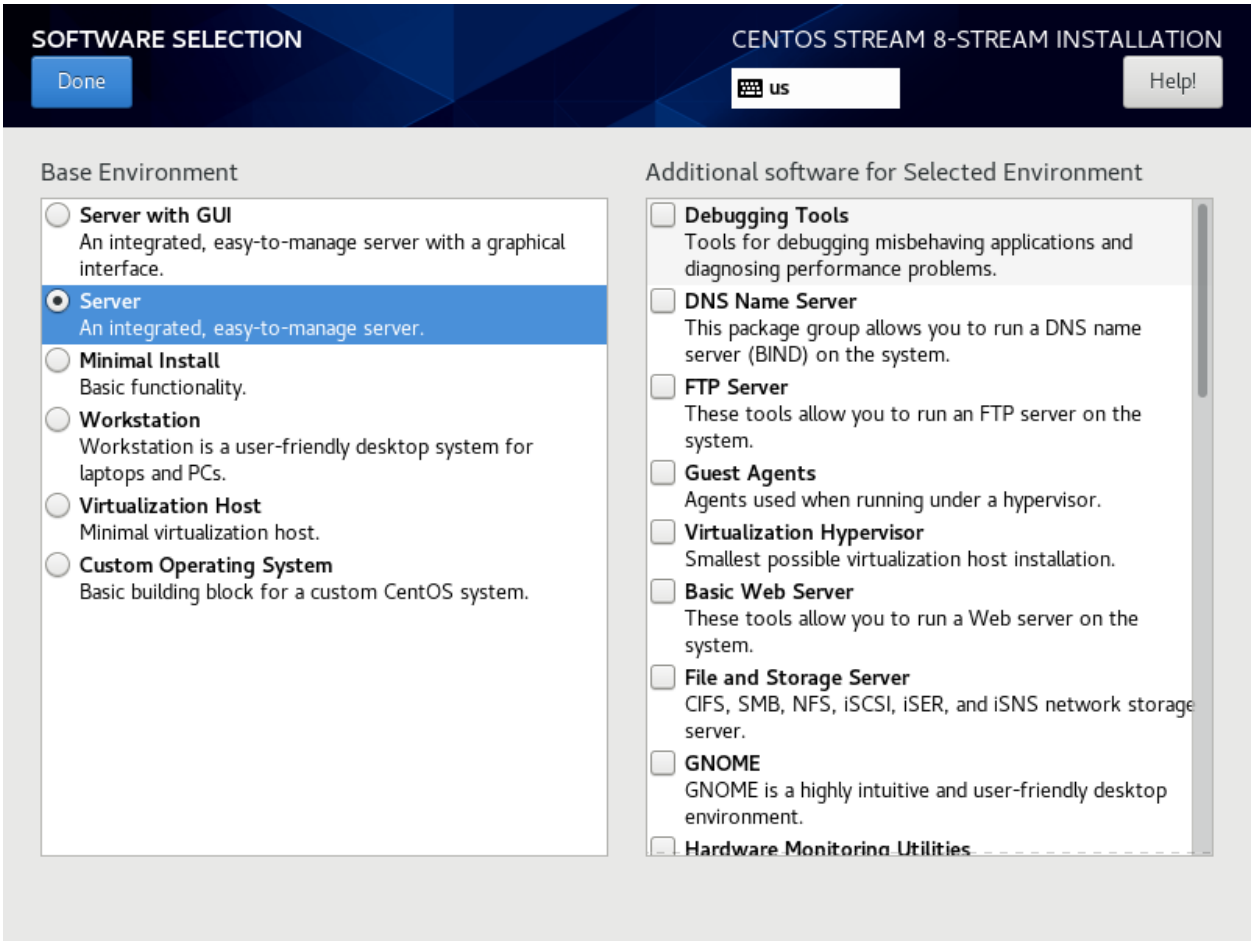
On network select on and click done.



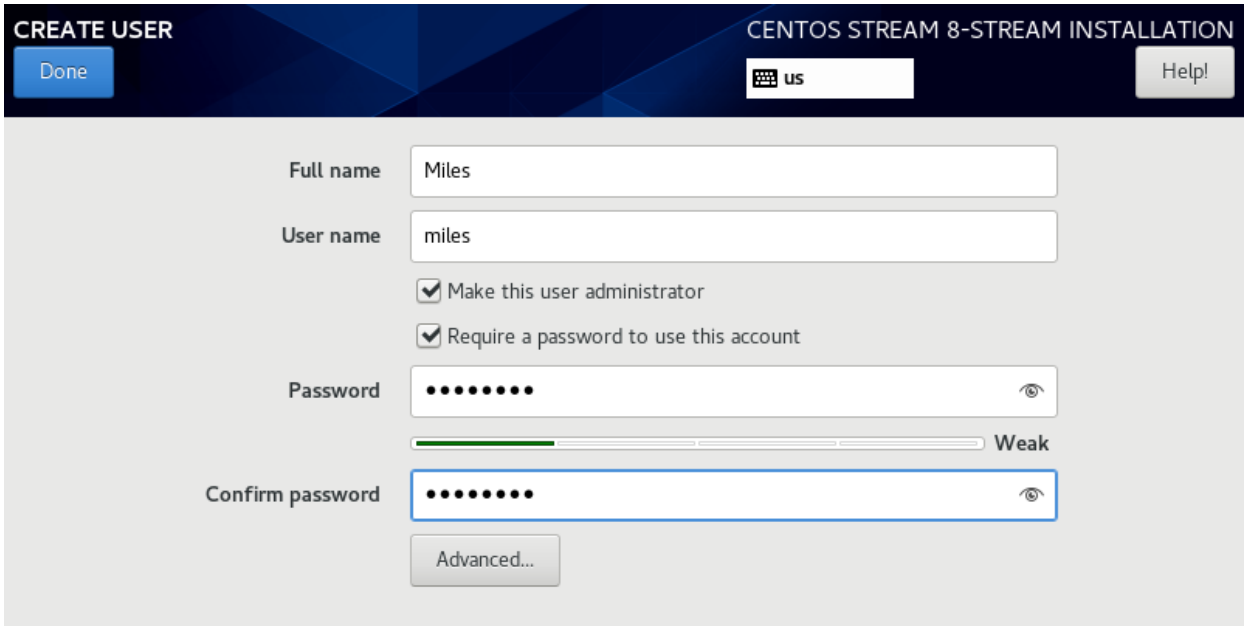
Then click installation destination, you can leave everything default and click done.

Next, on installation source you can leave everything default and click done

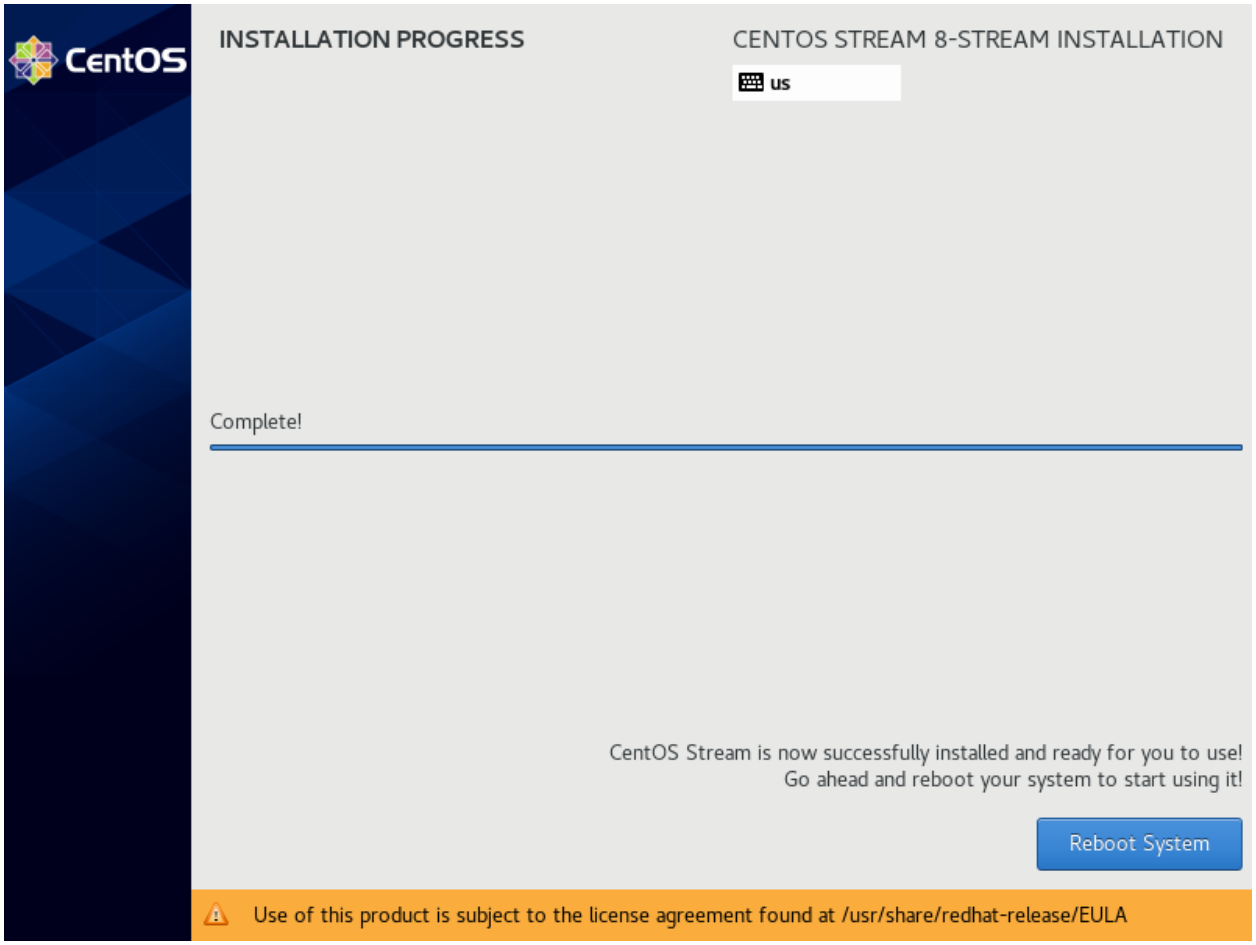
Next, on software selection make sure you select “server” and not ‘server with gui” and click done



Next create a root password.
Then create a user and password and check the “Make this user administrator” box



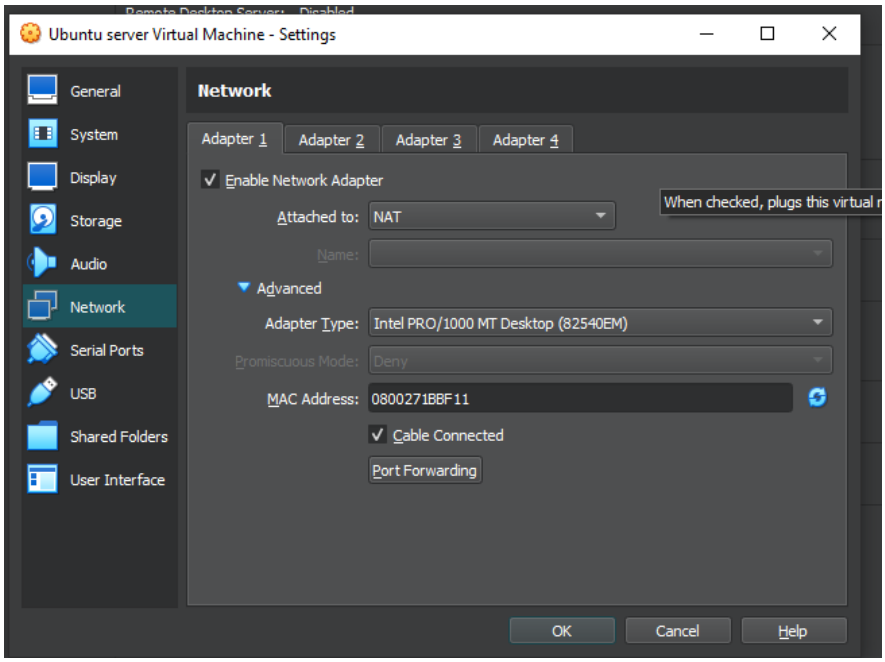
Now Begin the instillation and when it’s finished reboot the system.



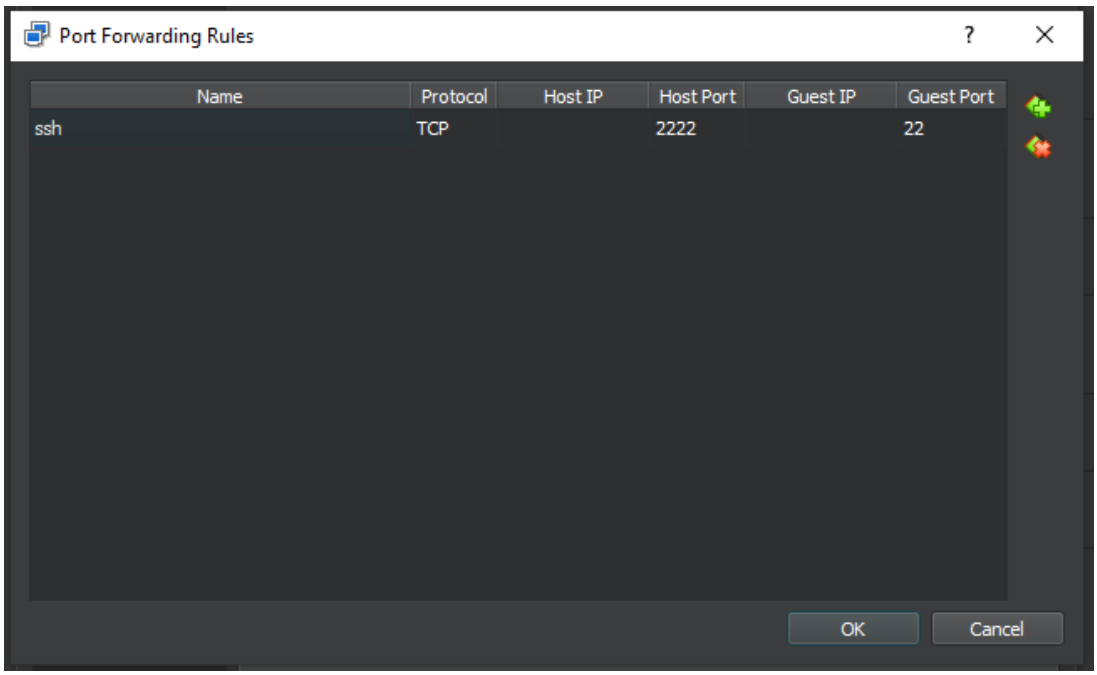
Setting up File sharing(Winscp)

Win scp download: https://winscp.net/eng/index.php

First on both virtual machines you want to go into virtual box and select the settings for them and go to network. Click “advanced and go to “port forwarding”



Next click the green plus icon and add that ssh works on a port, I did port 2222.



Now In ubuntu we already downloaded ssh but to download it first login, then you can use sudo apt get openssh-server and then enter your password to download it. To make sure it is running use systemctl sshd

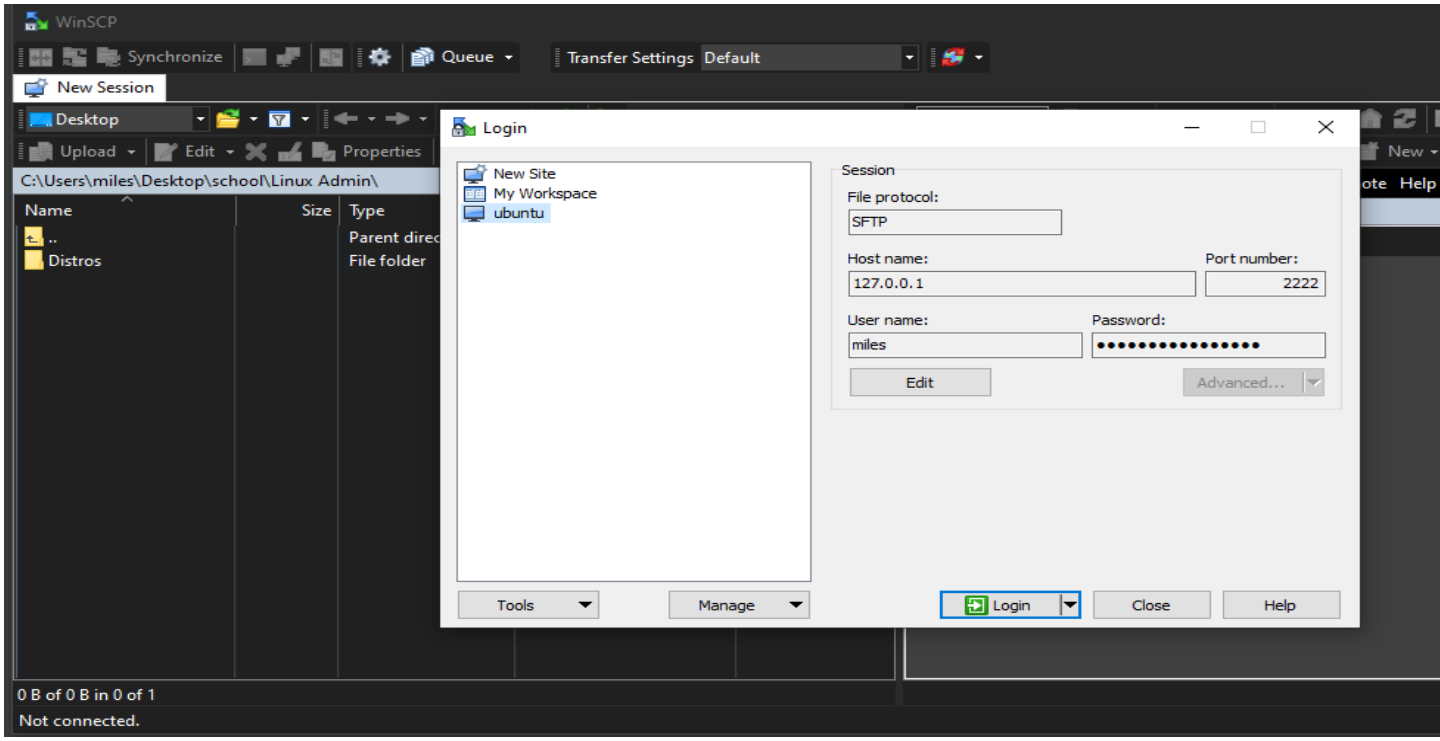
Next use the command “ifconfig to find your ip address” for me it is (127.0.0.1)

```
miles@server1:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::a00:27ff:fe1b:bf11  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:1b:bf:11  txqueuelen 1000  (Ethernet)
        RX packets 232  bytes 290606 (290.6 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 117  bytes 10333 (10.3 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 96  bytes 7624 (7.6 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 96  bytes 7624 (7.6 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

miles@server1:~$ _
```

Now open WinSCP. Select “New Session” then enter the ip address in “host name” then enter in the port number you are using, and then enter your user name for the server and your password, now click login.



For centOS these steps are exactly the same except in WinSCP instead of the ip address in “Host Name” you can type in “localhost”