

Miles Ogrady

Server Setup

Intro: A virtual machine lets you use another operating system in your operating system.

First download virtual box <https://www.virtualbox.org/>

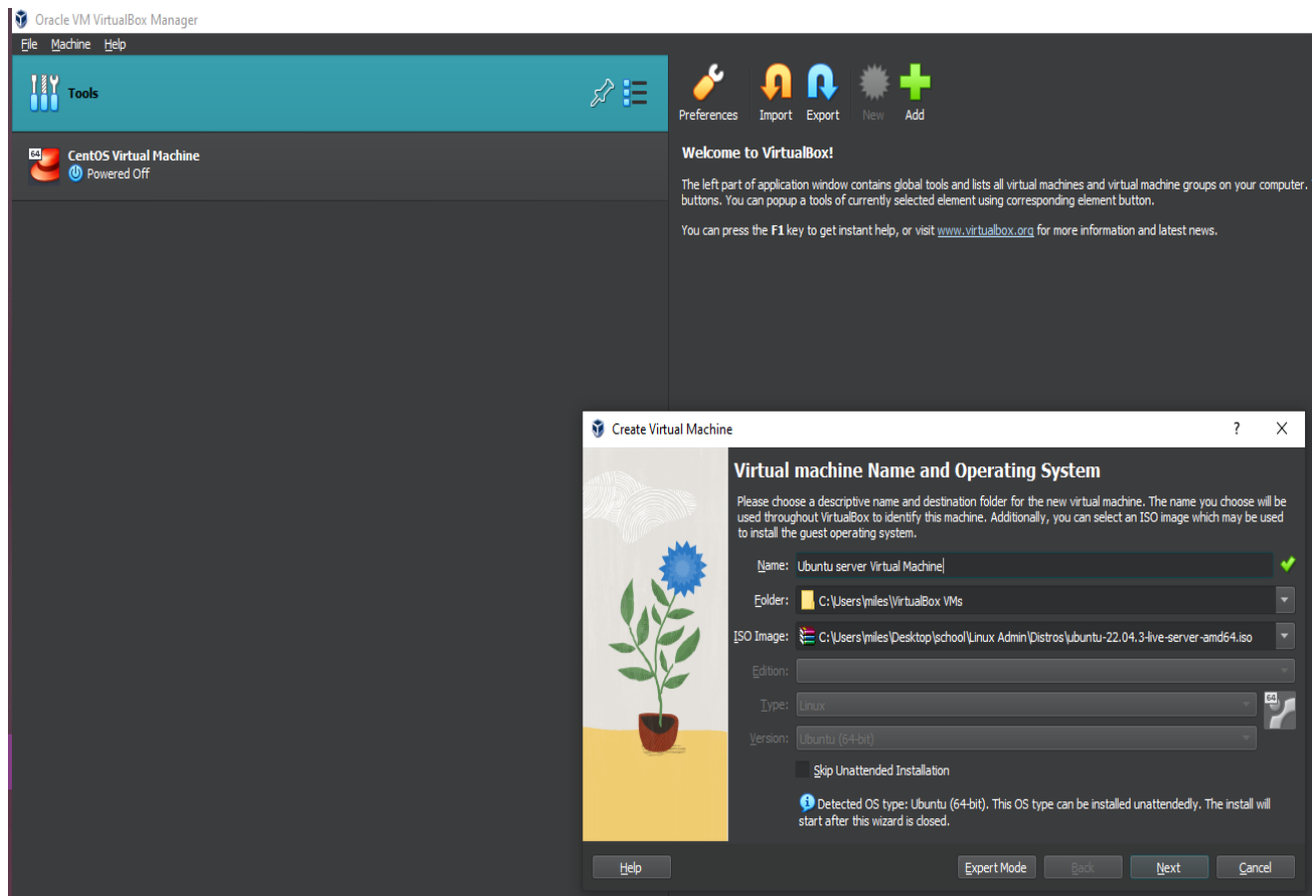
Ubuntu server setup:

Step 1: go to <https://ubuntu.com/download/server> and download the ubuntu server iso.

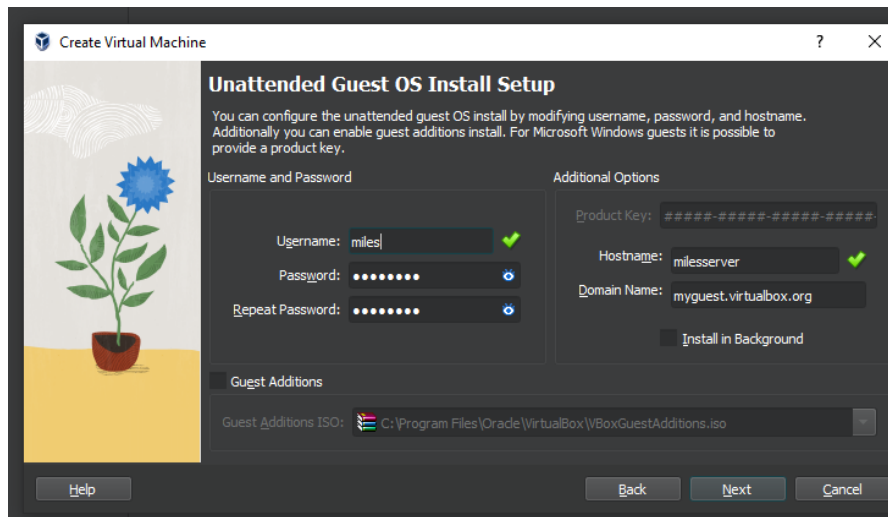
Step 2: open virtual box and then select new

Step 3: add the ubuntu vm

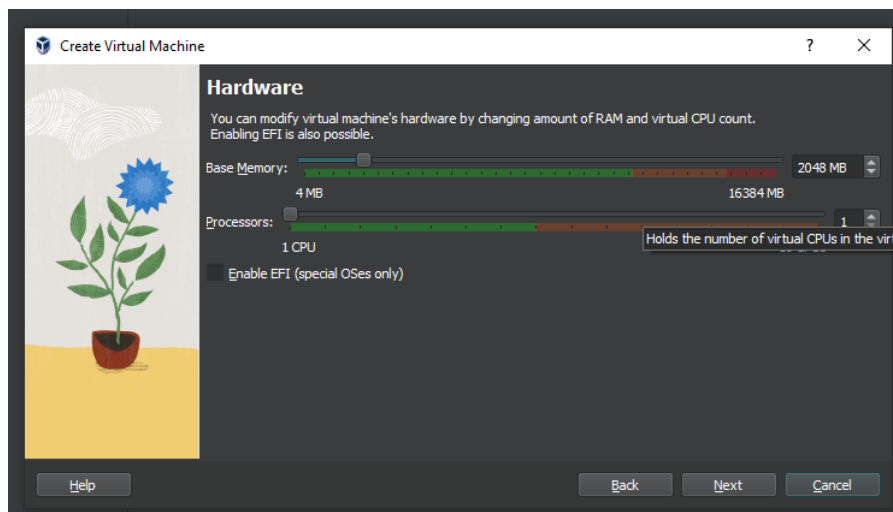
Under “Iso Image” select the ubuntu server iso you just downloaded and name it appropriately then click next.



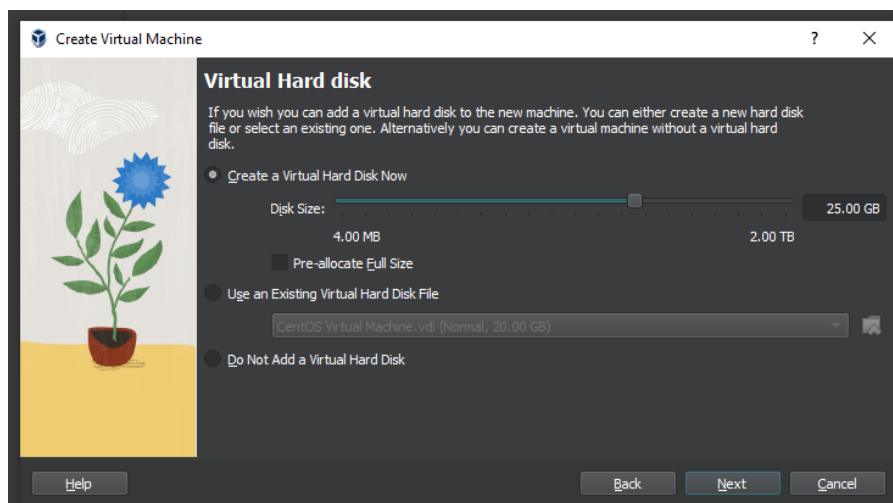
Next make a username/password and hostname and then click next



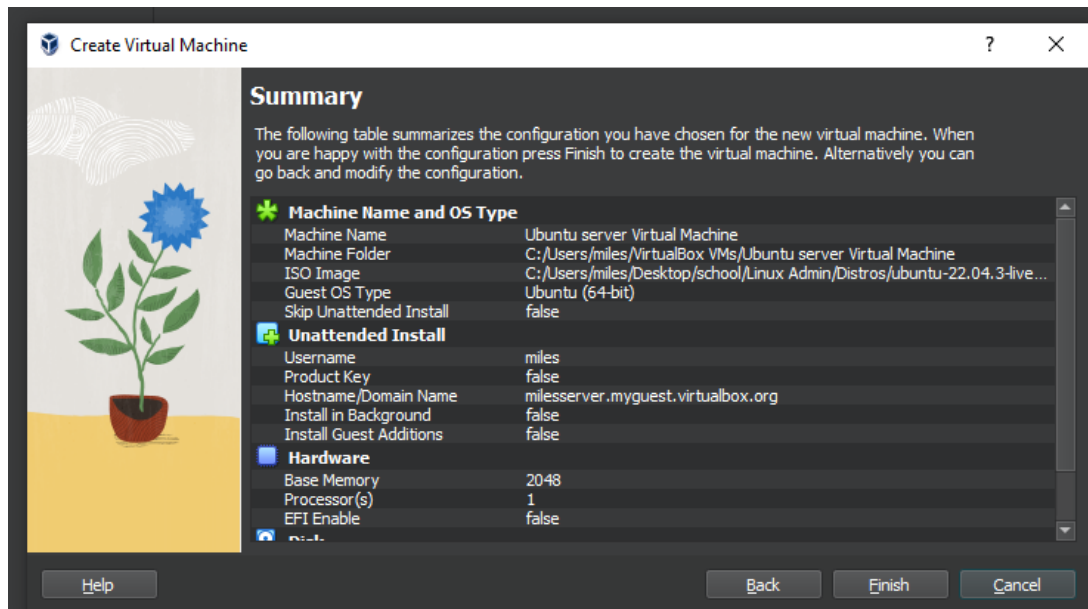
You can click next here.



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



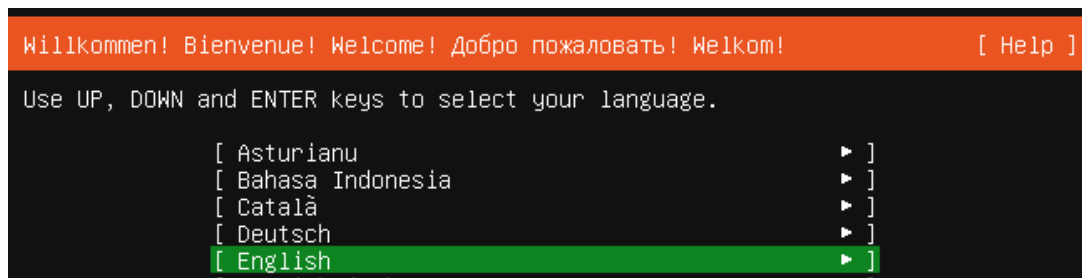
Now click finish



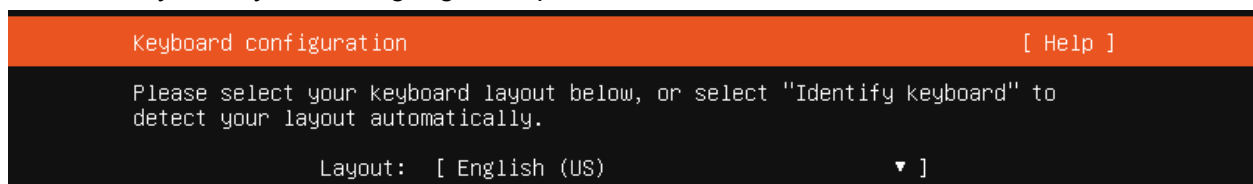
Step 4: start ubuntu server by clicking start.

Step 5: Install ubuntu server

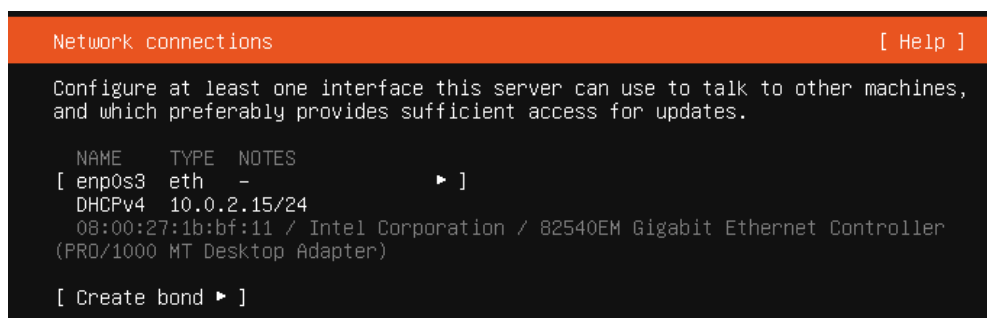
First select the language you want to use and then press enter on done.



Next select your keyboard language and press enter on done.



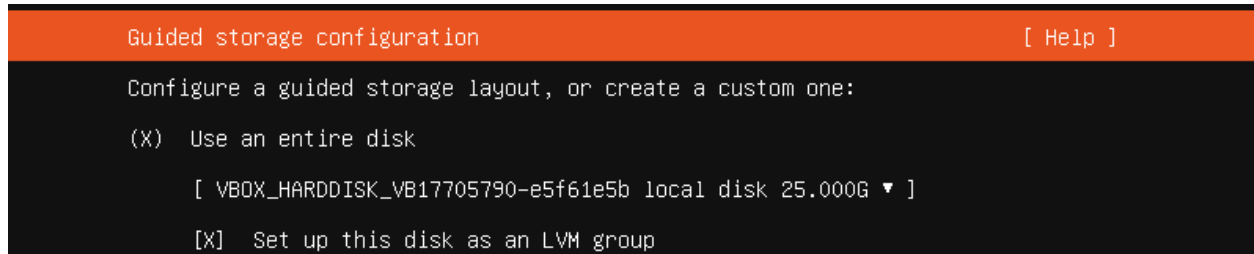
Next make sure your network shows up and then press enter on done



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.



Guided storage configuration [Help]

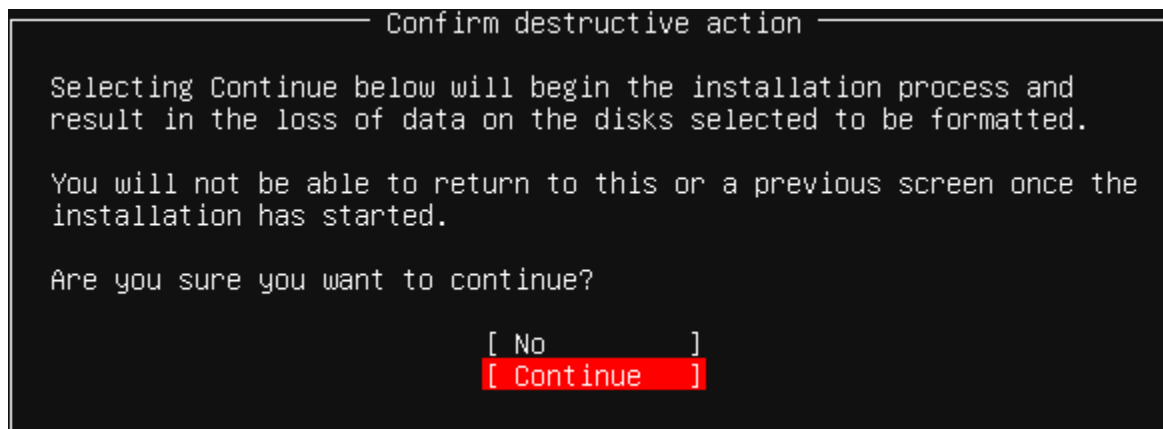
Configure a guided storage layout, or create a custom one:

(X) Use an entire disk

[VBOX_HARDDISK_VB17705790-e5f61e5b local disk 25.000G ▼]

[X] Set up this disk as an LVM group

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



Confirm destructive action

Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the installation has started.

Are you sure you want to continue?

[No]

[Continue]

Next create a username and password



Profile setup [Help]

Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.

Your name: Miles

Your server's name: server1
The name it uses when it talks to other computers.

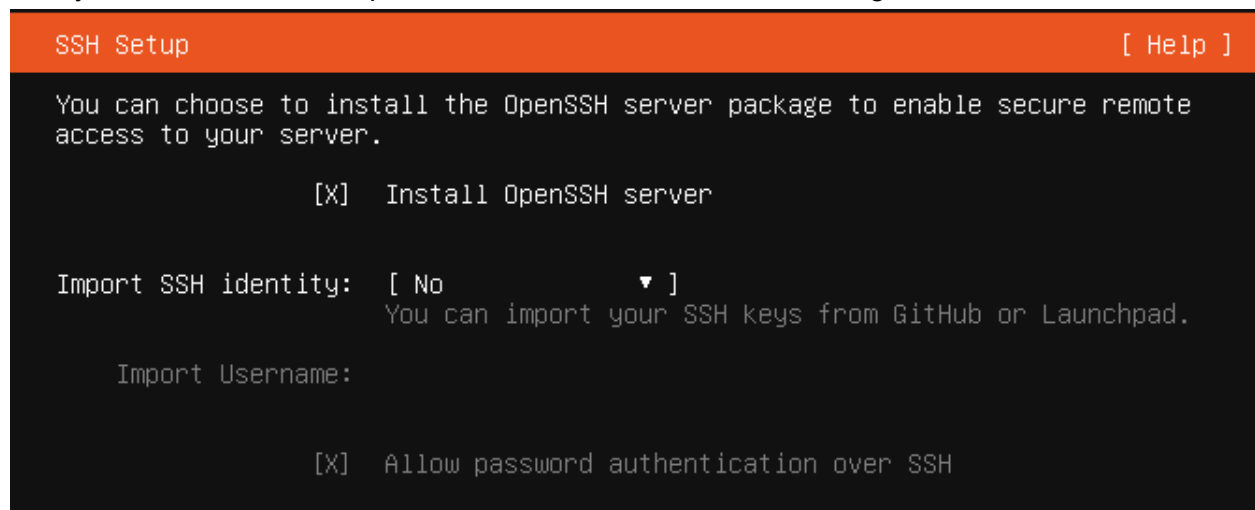
Pick a username: miles

Choose a password: *****

Confirm your 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”

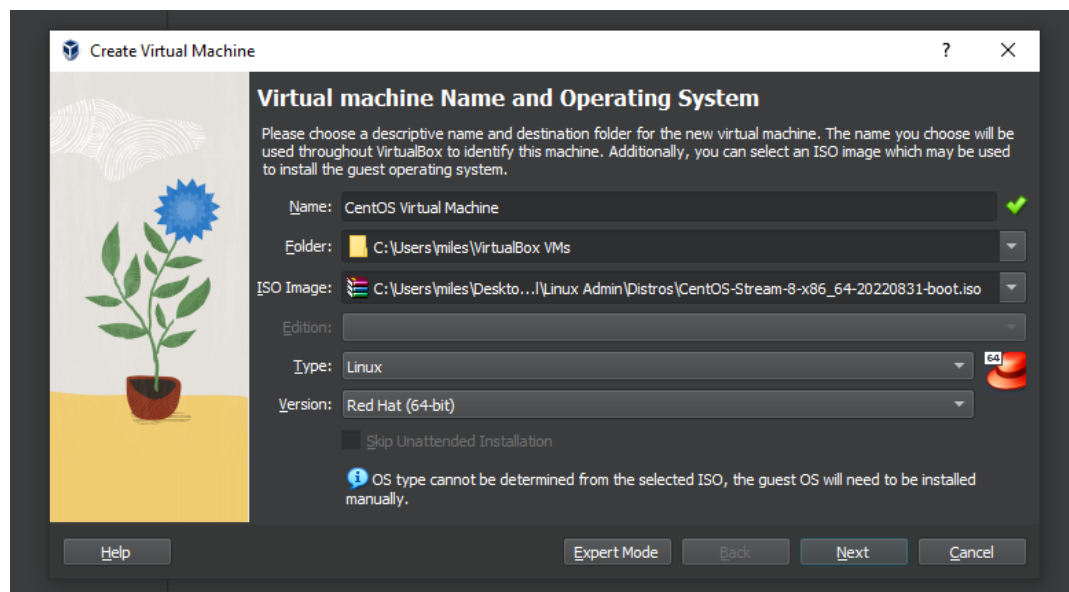
centOS server setup:

Step 1: download a CentOS iso at <https://www.centos.org/download/>

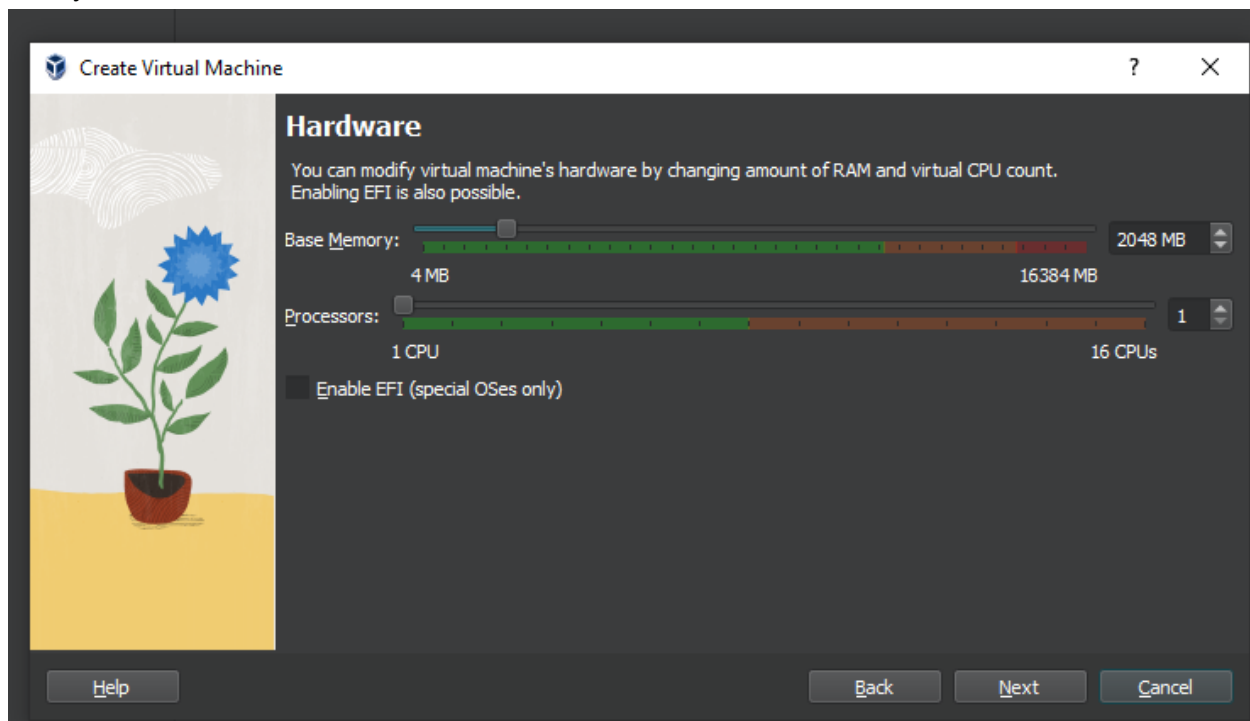
Step 2: open virtual box and then select new

Step 3: add the CentOS vm

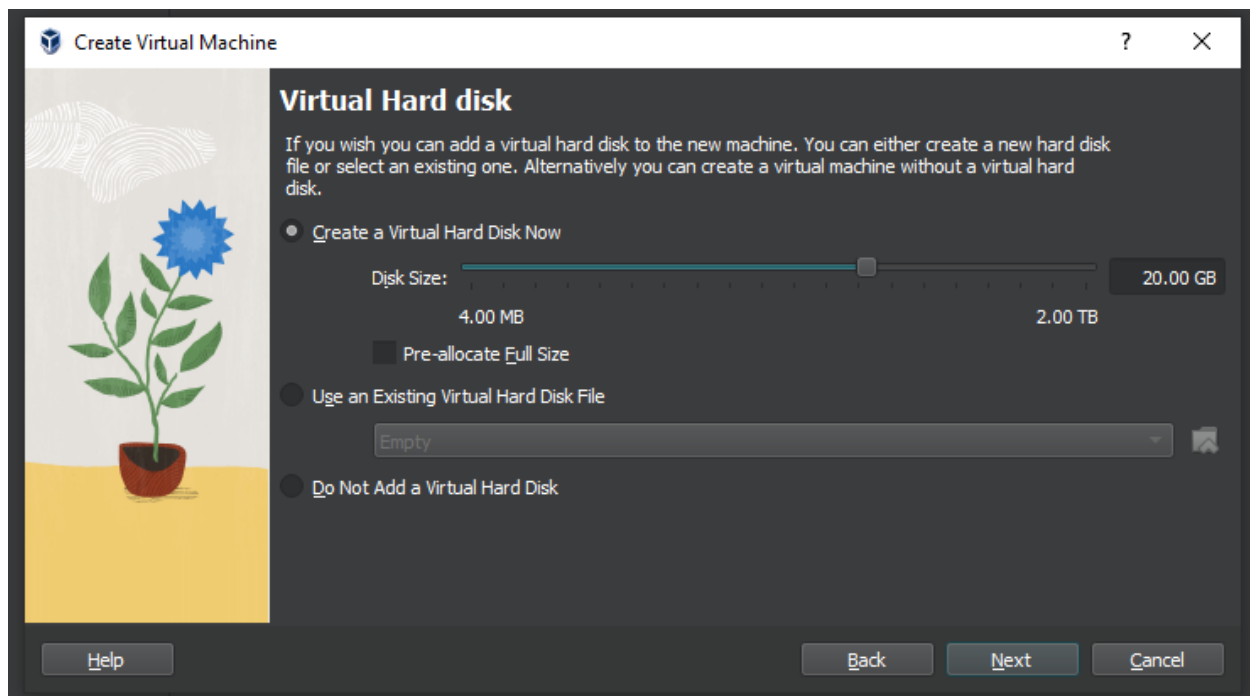
Under “Iso Image” select the CentOS server you just downloaded and name it appropriately then click next.



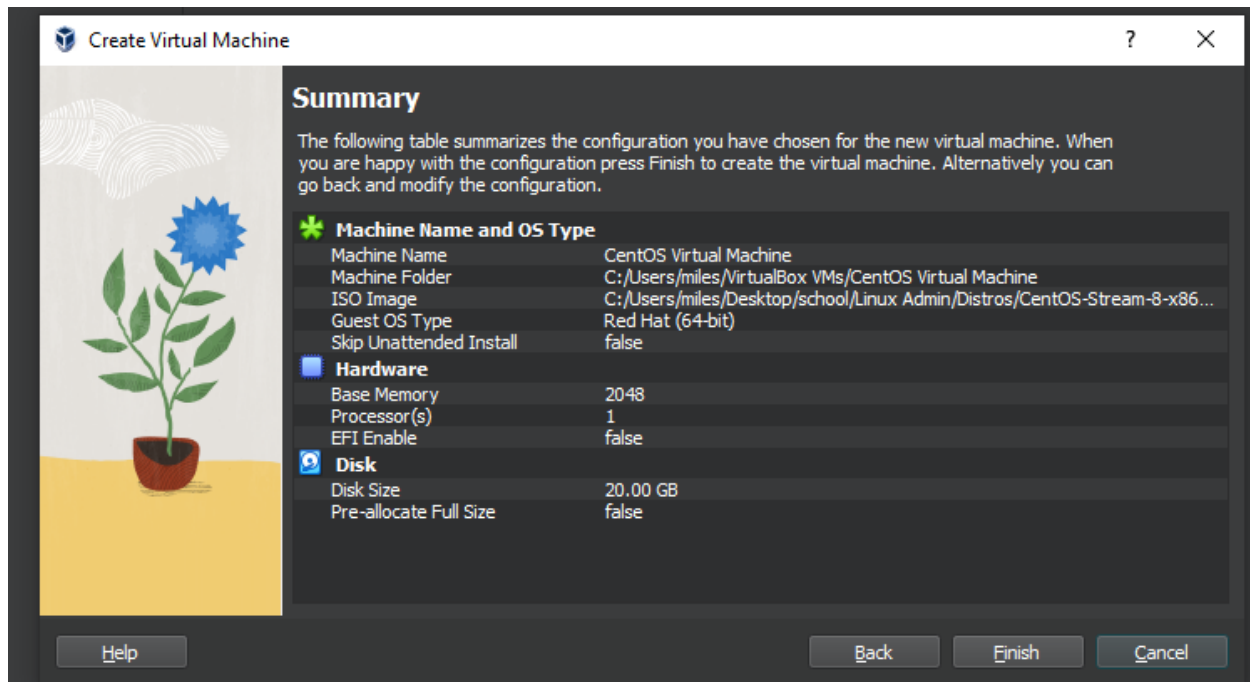
Next you can leave this default and click next



You can also leave this default and click next.



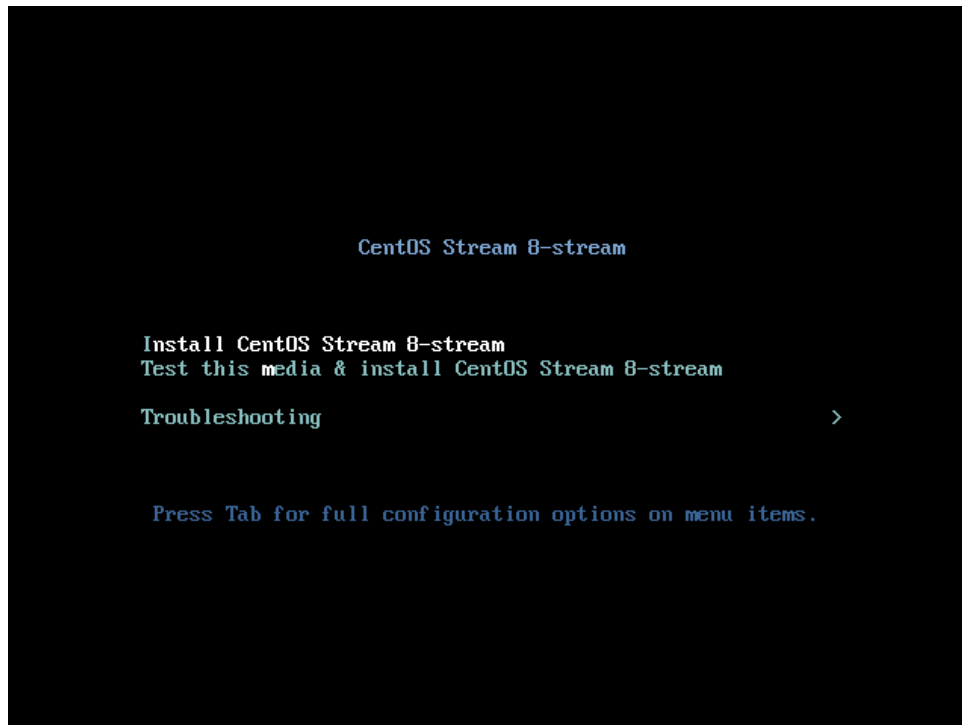
Now you can click finish.



Step 4: start the CentOS server by clicking start.

Step 5: Install the CentOS server

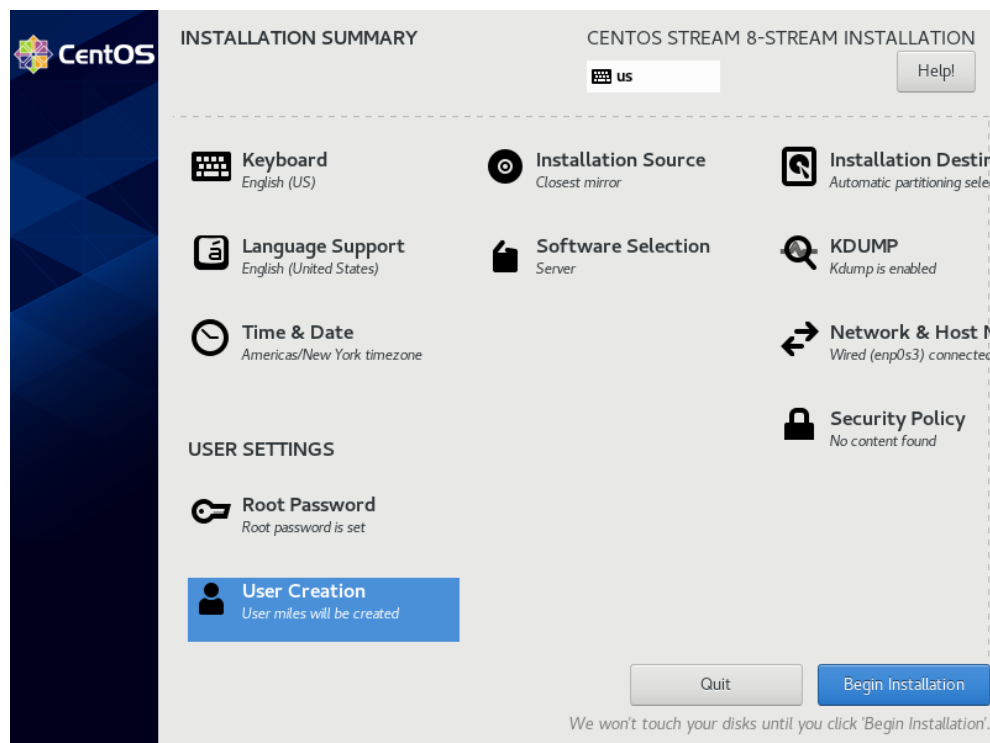
Select install



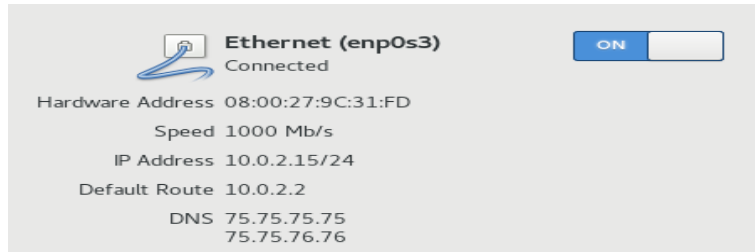
Next, choose the language you will be using and click continue.



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



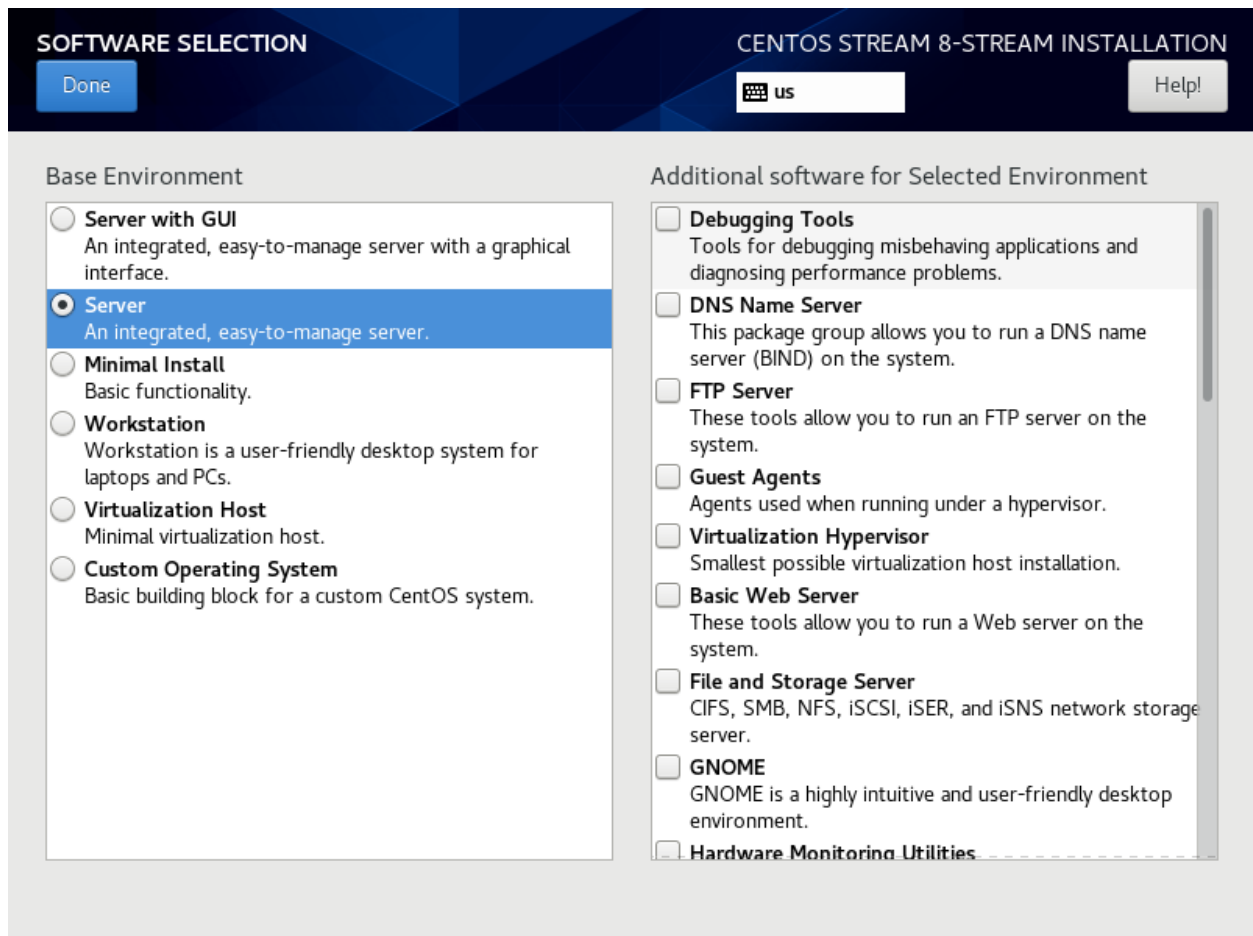
On network select on and click done.



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

CREATE USER

Done

CENTOS STREAM 8-STREAM INSTALLATION

us

Help!

Full name

Miles

User name

miles

☒ Make this user administrator

☒ Require a password to use this account

Password

••••••••


Weak

Confirm password

••••••••

Advanced...

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

 CentOS

INSTALLATION PROGRESS


CENTOS STREAM 8-STREAM INSTALLATION

us

Complete!

CentOS Stream is now successfully installed and ready for you to use!
Go ahead and reboot your system to start using it!

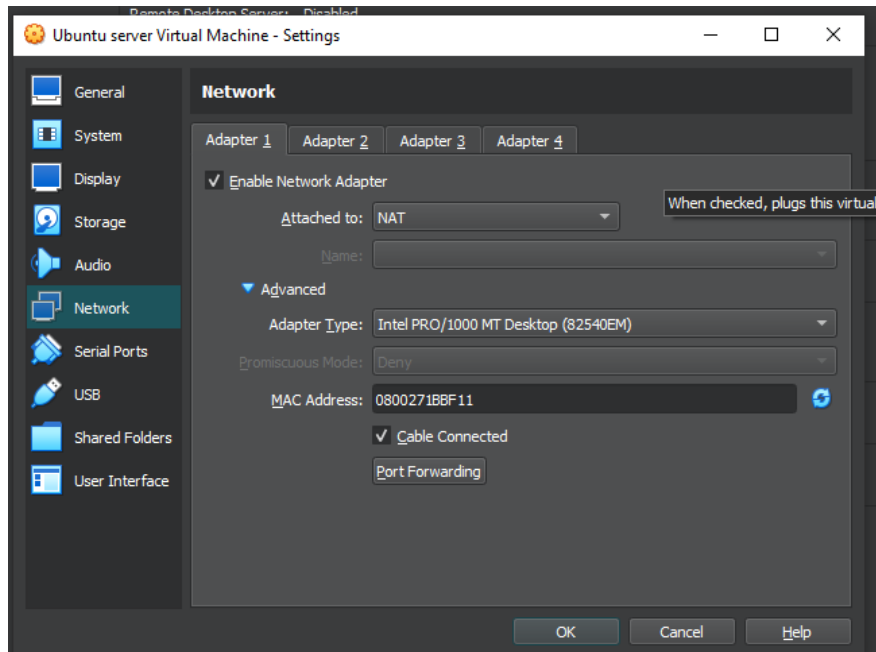
Reboot System

 Use of this product is subject to the license agreement found at </usr/share/redhat-release/EULA>

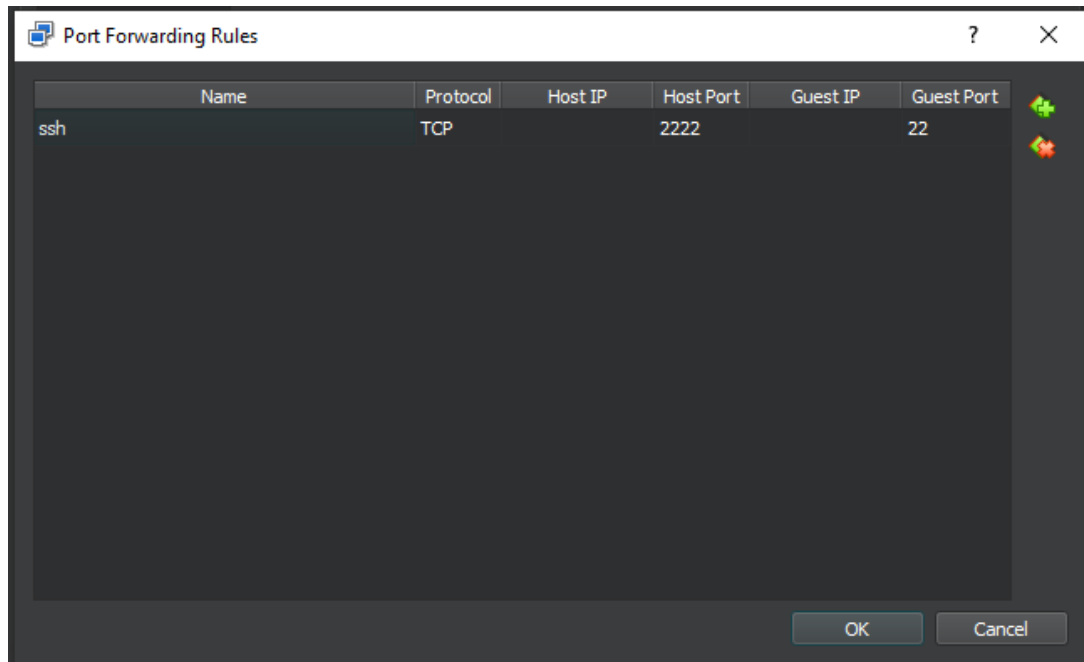
Setting up File sharing(Winscp)

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

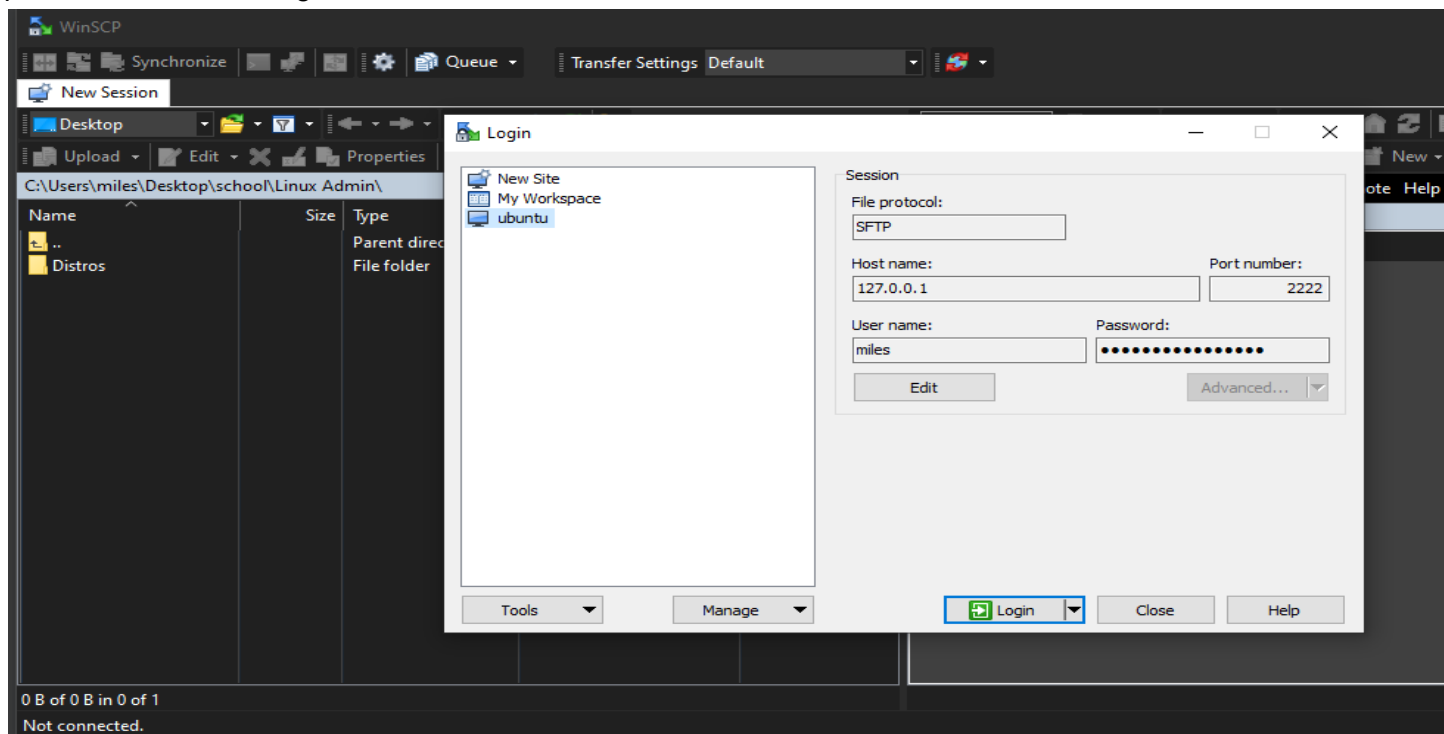
Next use the command “ifconfig to find your ip address” for me it is (127.0.0.1)

```
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"

