

Ubuntu Server Install

The following will be instructions on installing Ubuntu Server on a virtual machine.

1. To start we want to download an iso image from the following site

<https://ubuntu.com/download/server>

Download 24.04.1 LTS

2.6GB

2. Download VM software such as VirtualBox at the following site

<https://www.virtualbox.org/wiki/Downloads>

VirtualBox Platform Packages

VirtualBox 7.1.2 platform packages



Windows hosts



macOS / Intel hosts



macOS / Apple Silicon hosts



Linux distributions



Solaris hosts

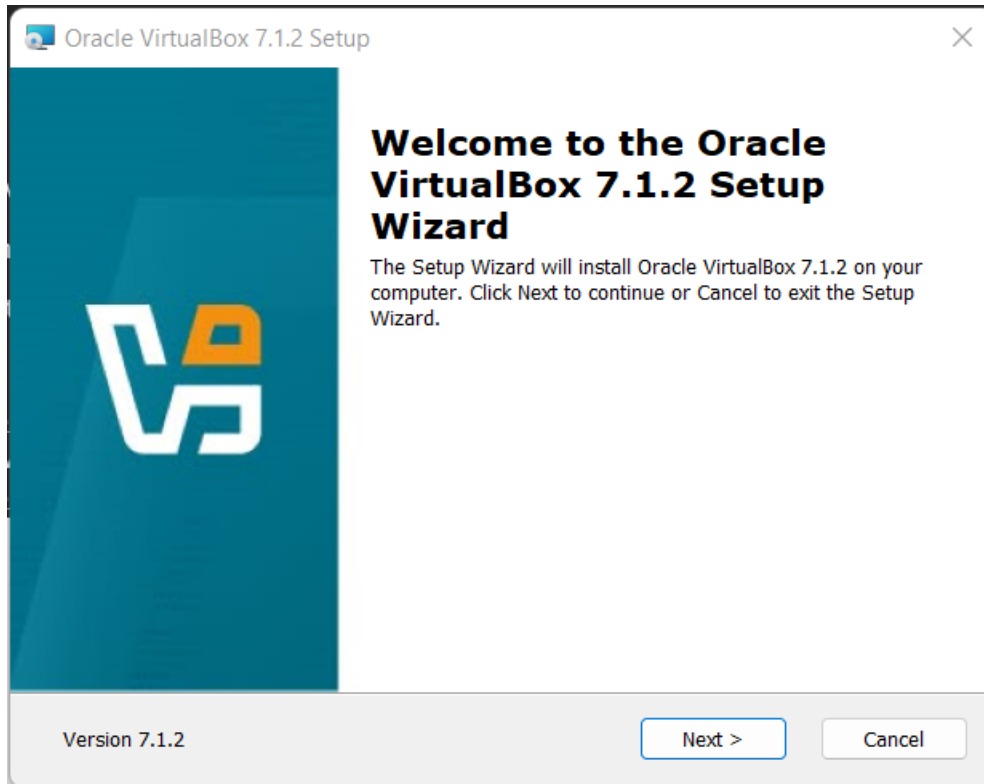


Solaris 11 IPS hosts

Platform packages are released under the terms of the [GPL version 3](#)

I will use Windows hosts as I am installing it on Windows 11.

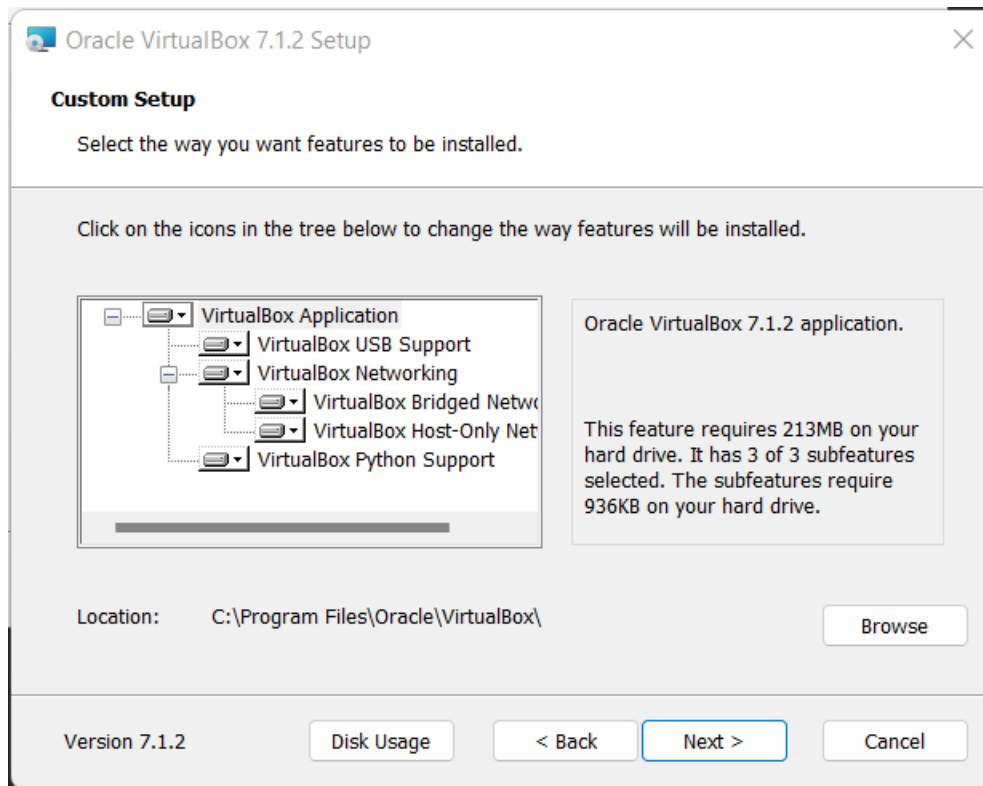
3. Click on Next



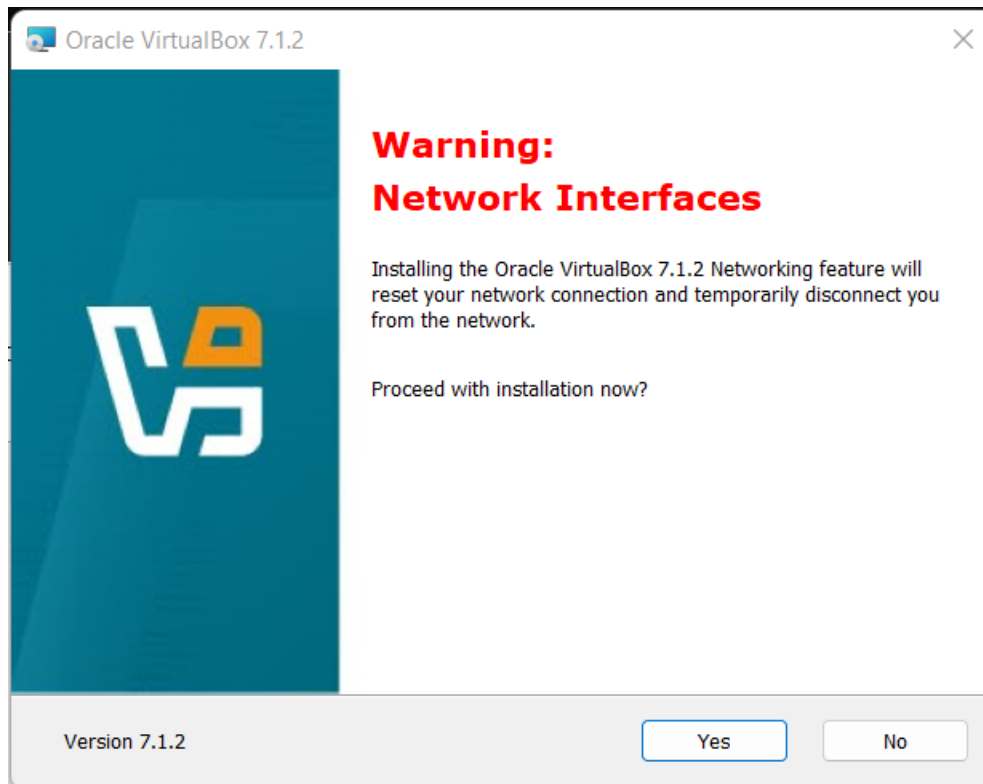
4. Click on I accept the terms in the License Agreement



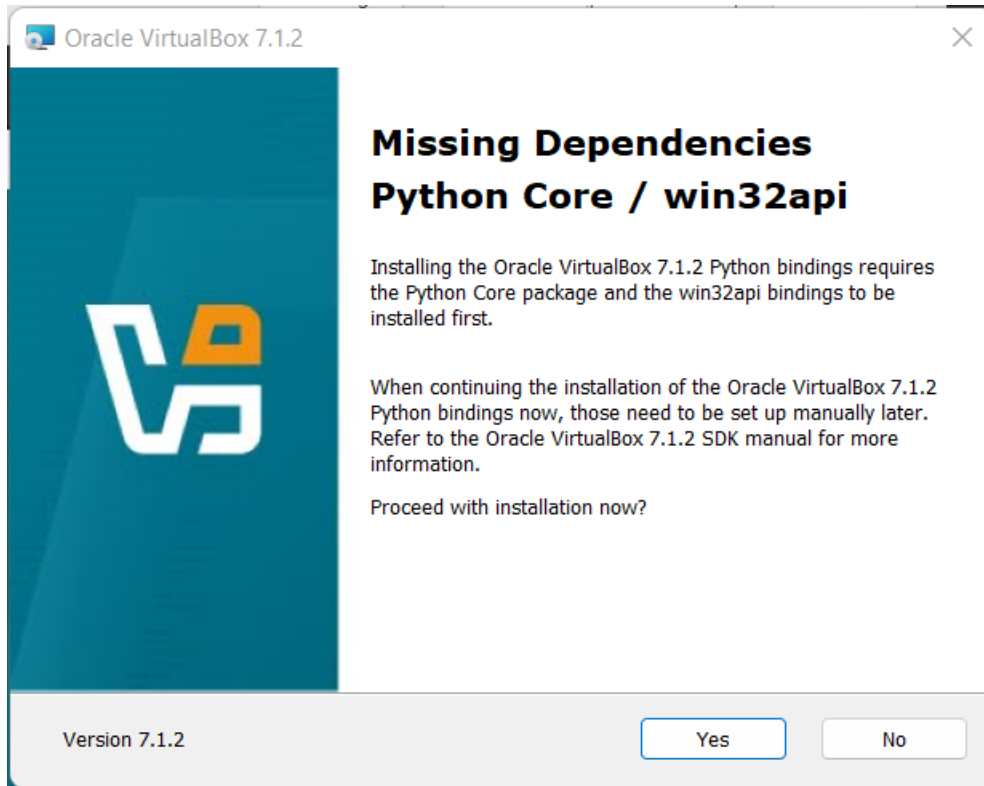
5. Click on Next



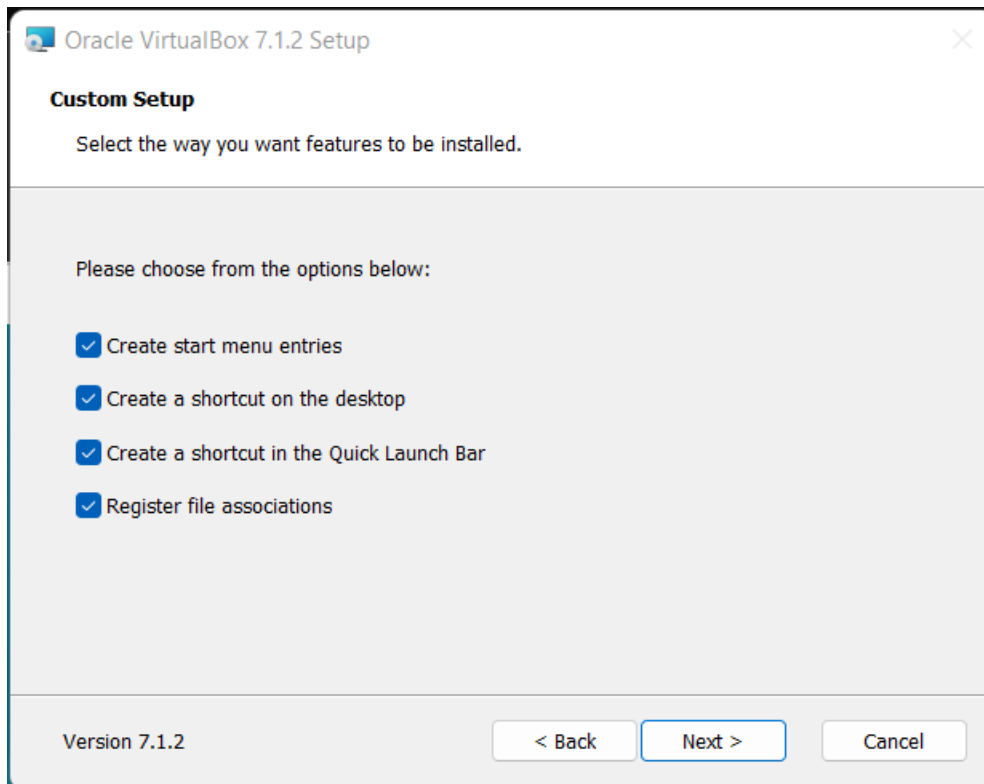
6. Click on Yes



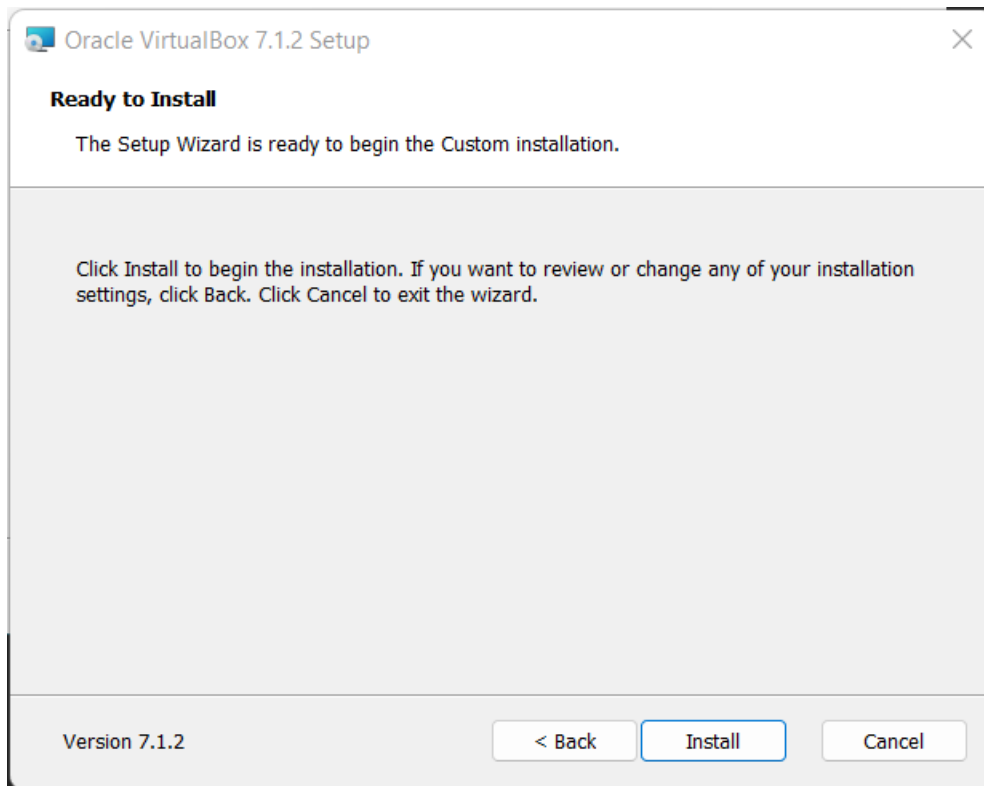
7. Click on Yes



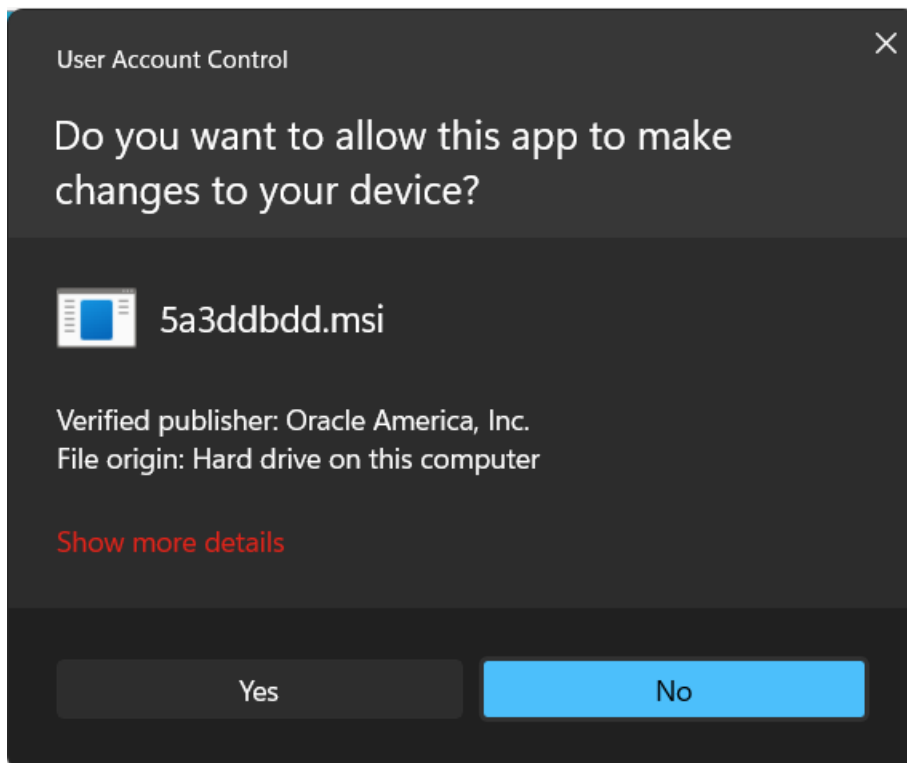
8. Click on Next



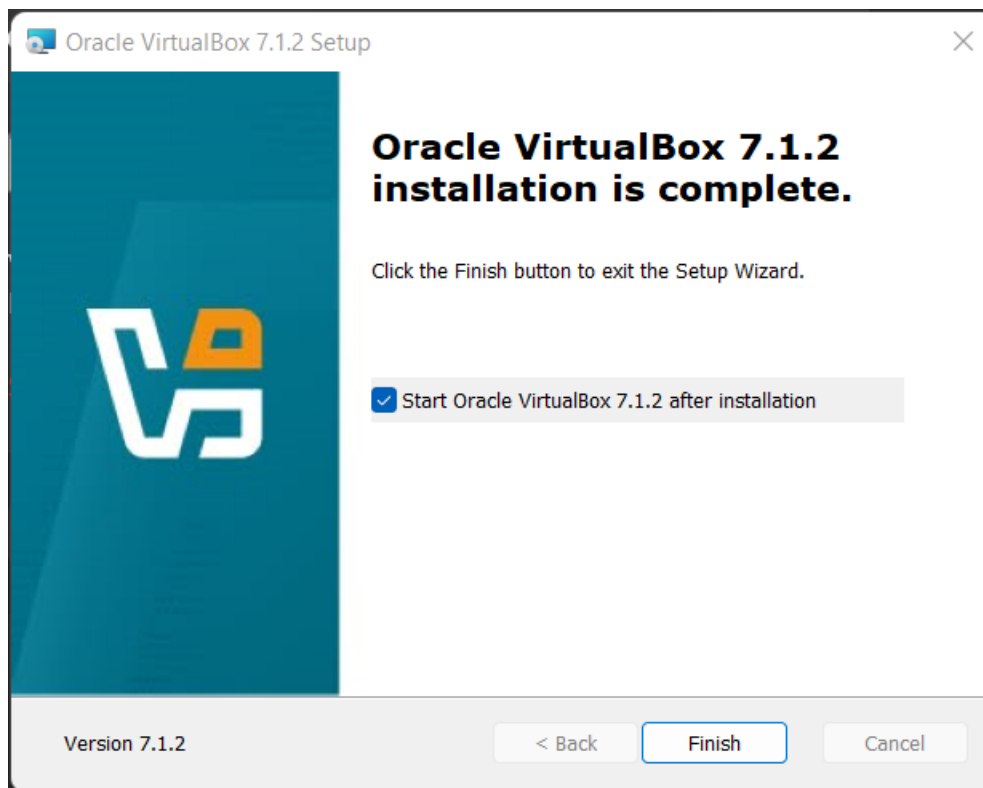
9. Click on Install



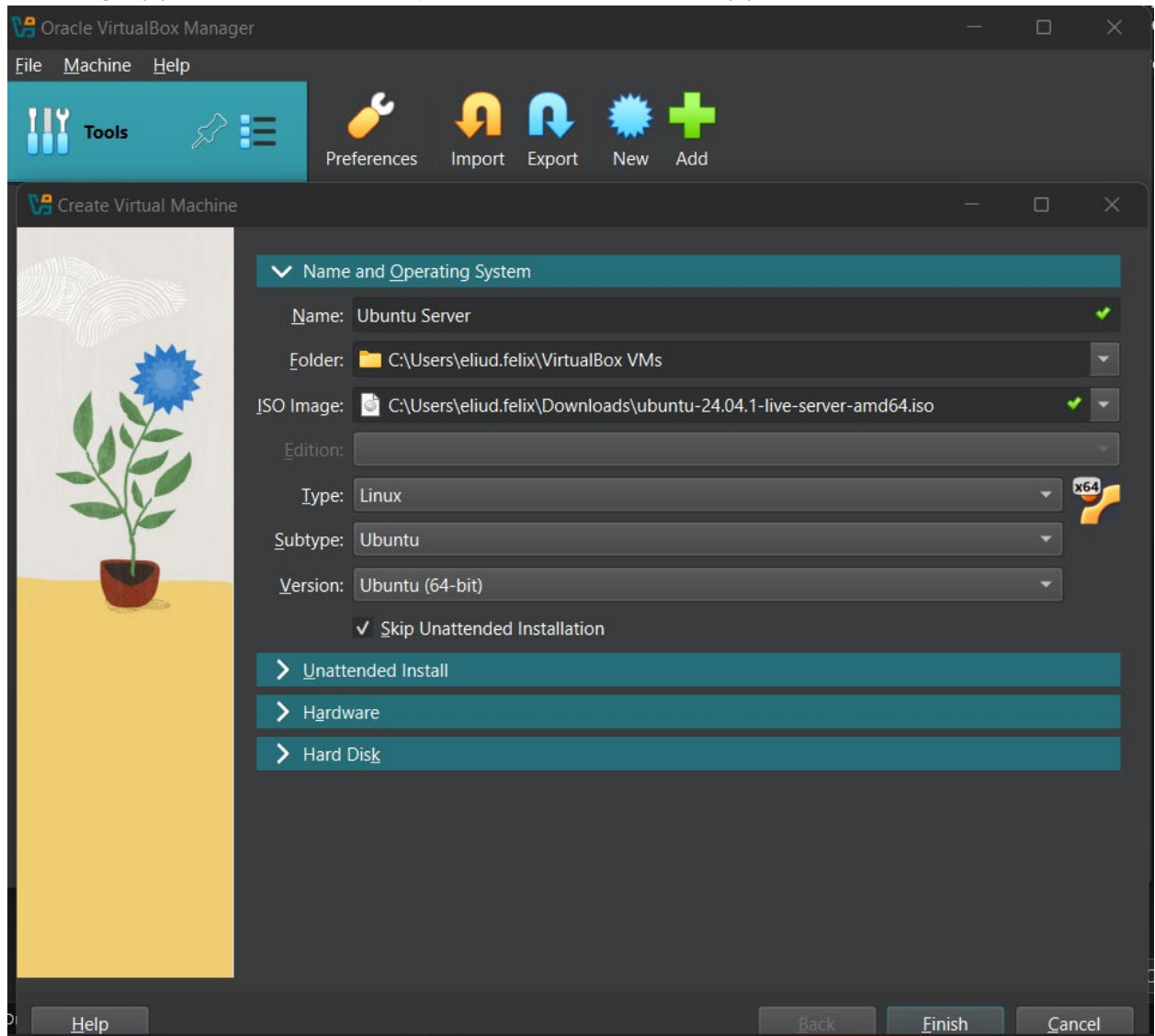
10. Click on Yes



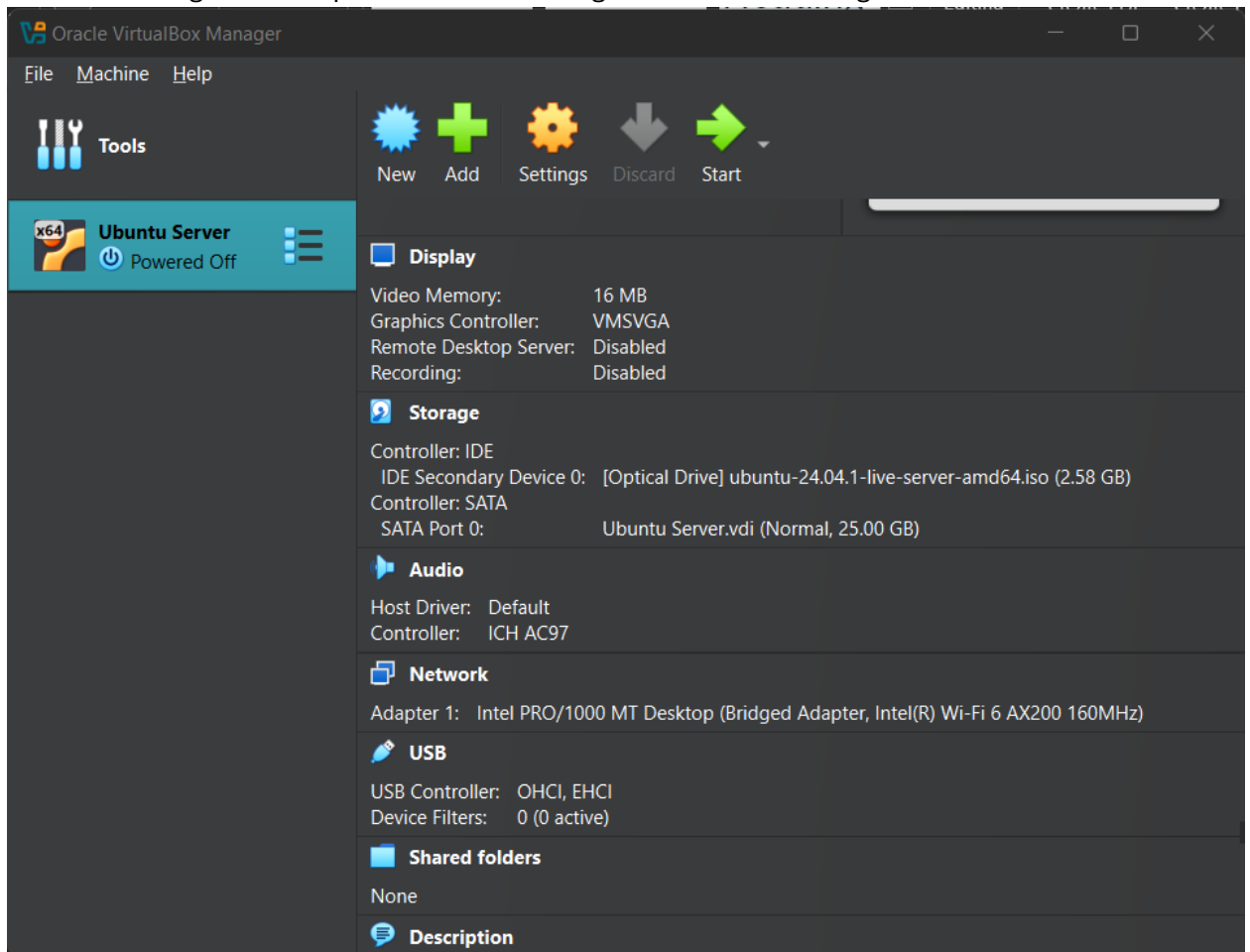
11. Leave the box checked and click on Finish



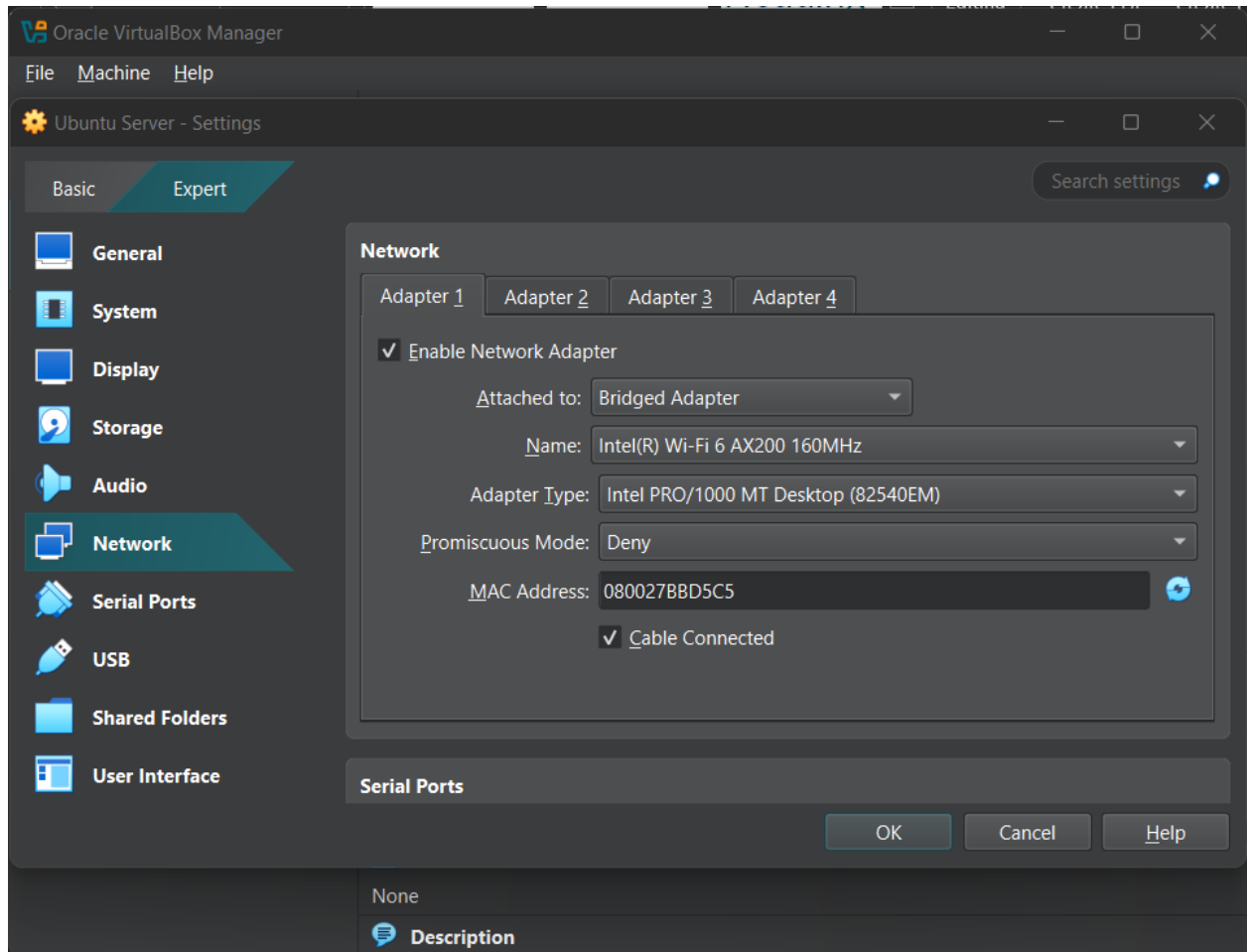
12. Once VirtualBox opens (1) click on New... (2) Choose a Name for your server. (3) Find your ISO Image. (4) Check the box for Skip Unattended Installation. (5) Click on Finish.



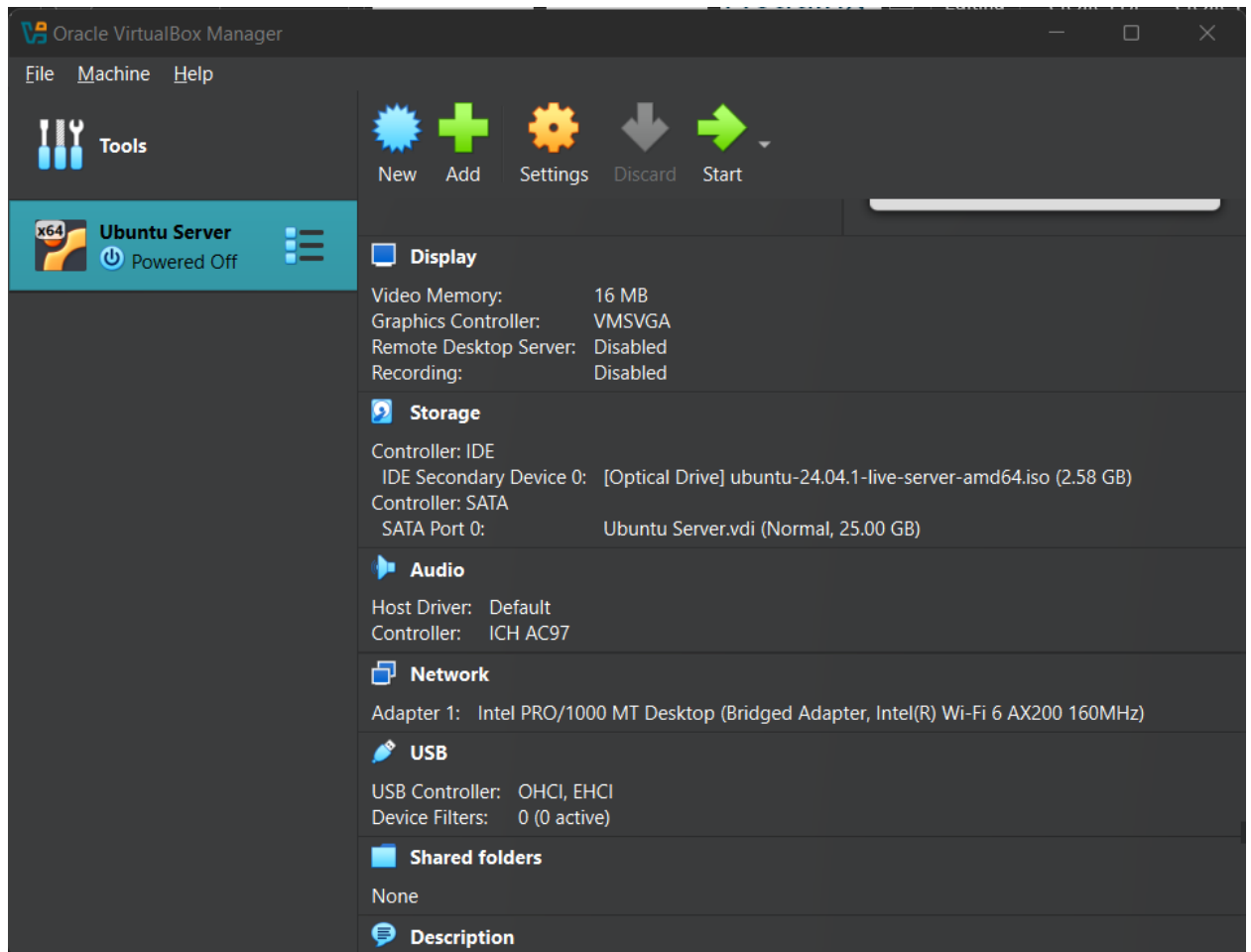
13. Click on Settings on the top bar as we will change the Network settings



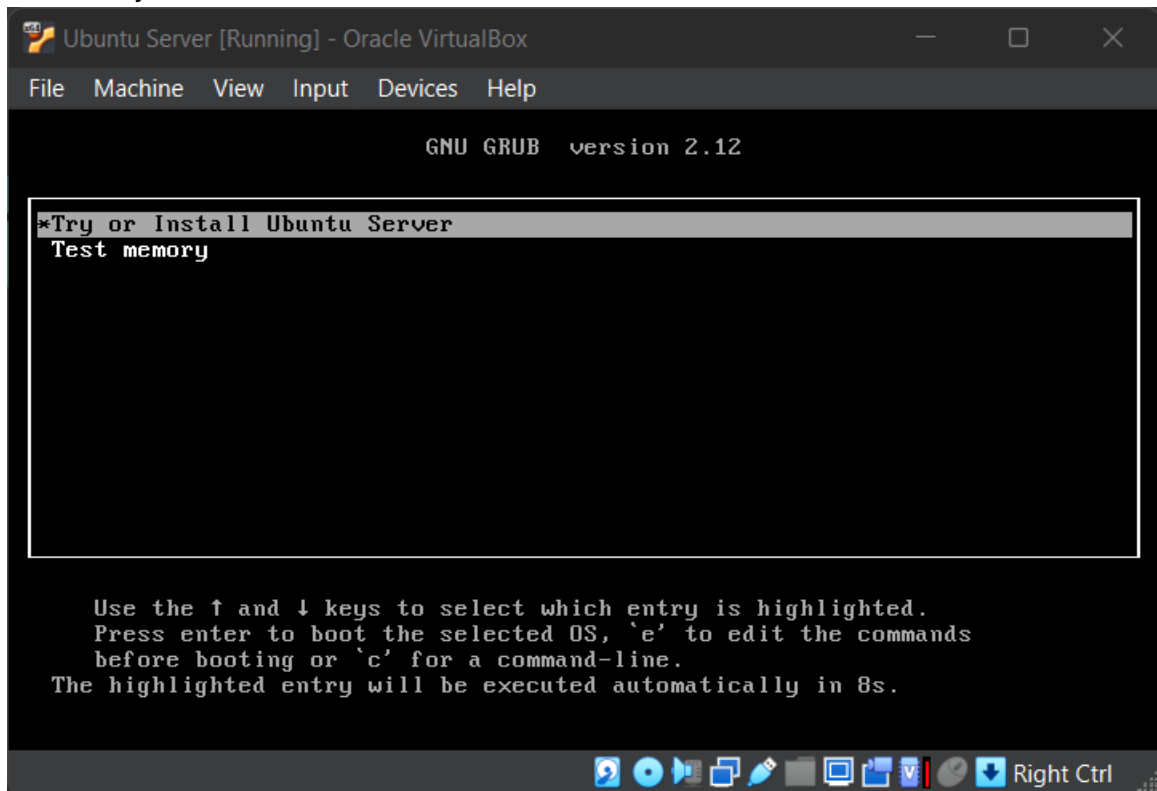
14. Click on Network. Under Adapter 1, change the Attached to: to Bridged Adapter. Click on Ok.



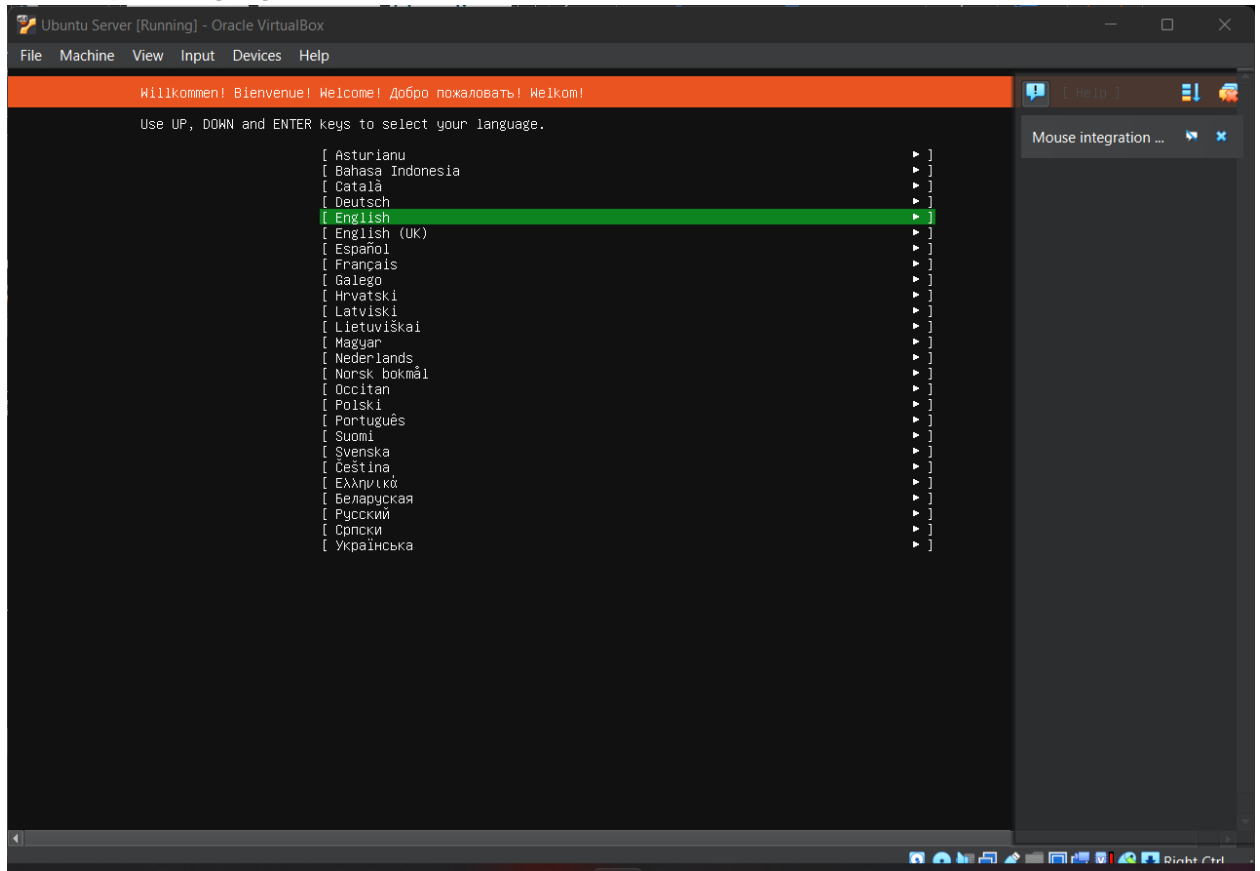
15. Click on Start



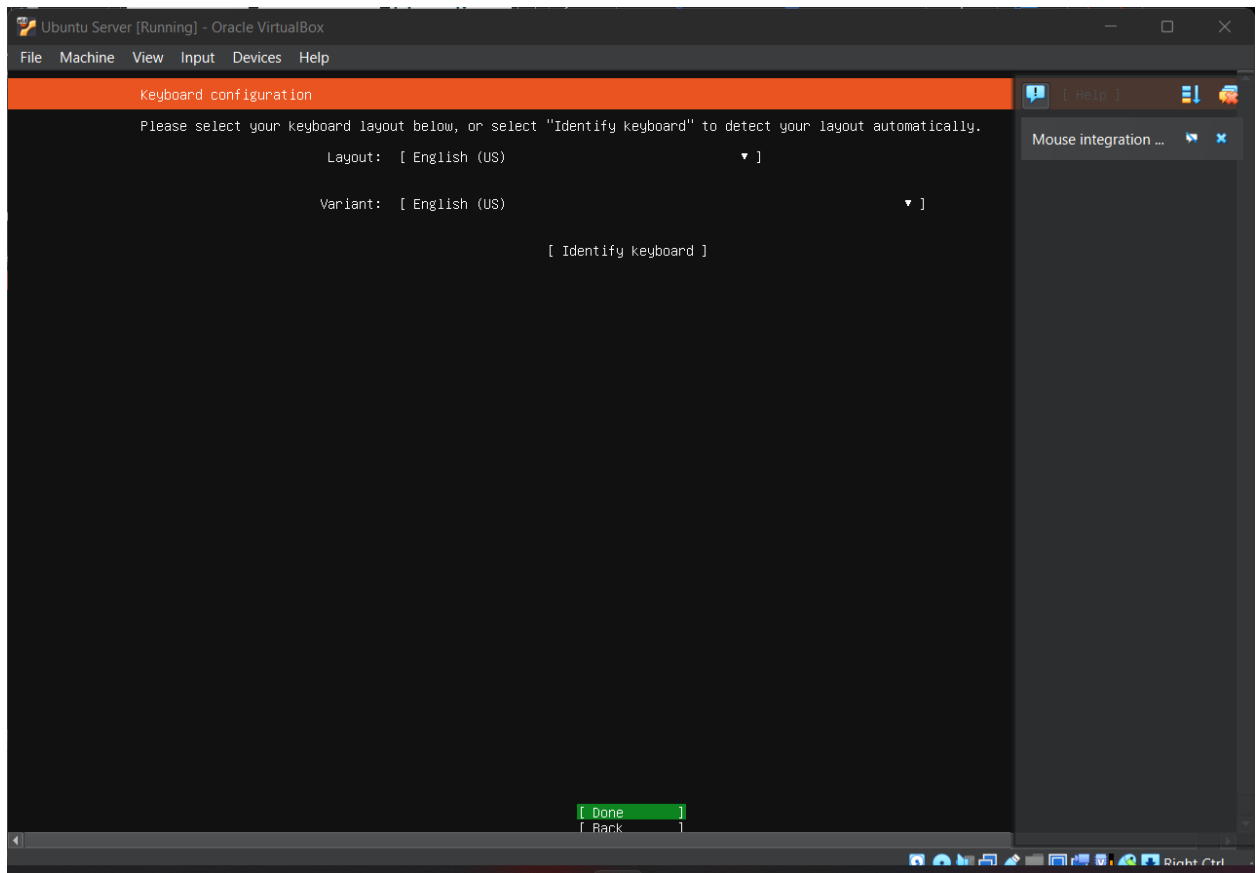
16. Choose Try or Install Ubuntu Server



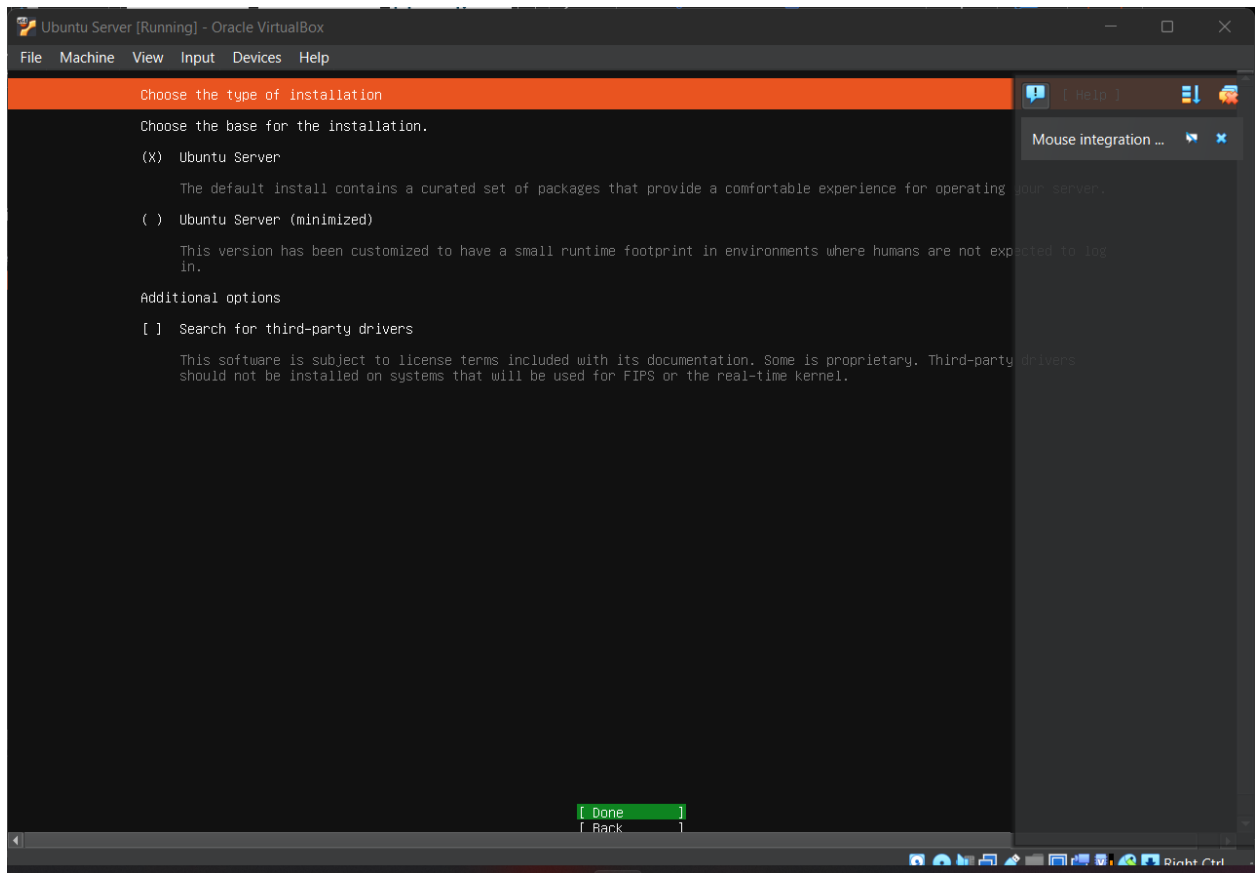
17. Choose your language



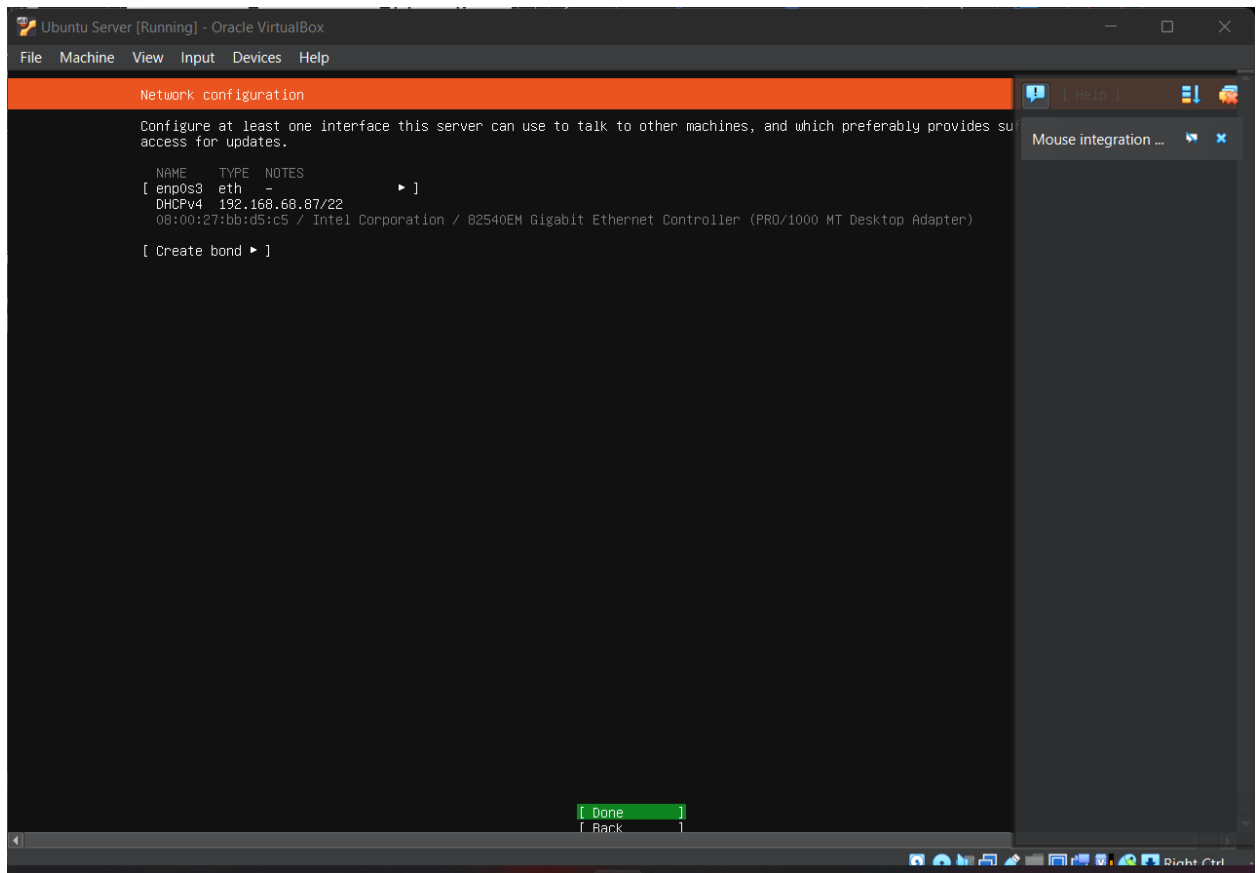
18. Click on Done



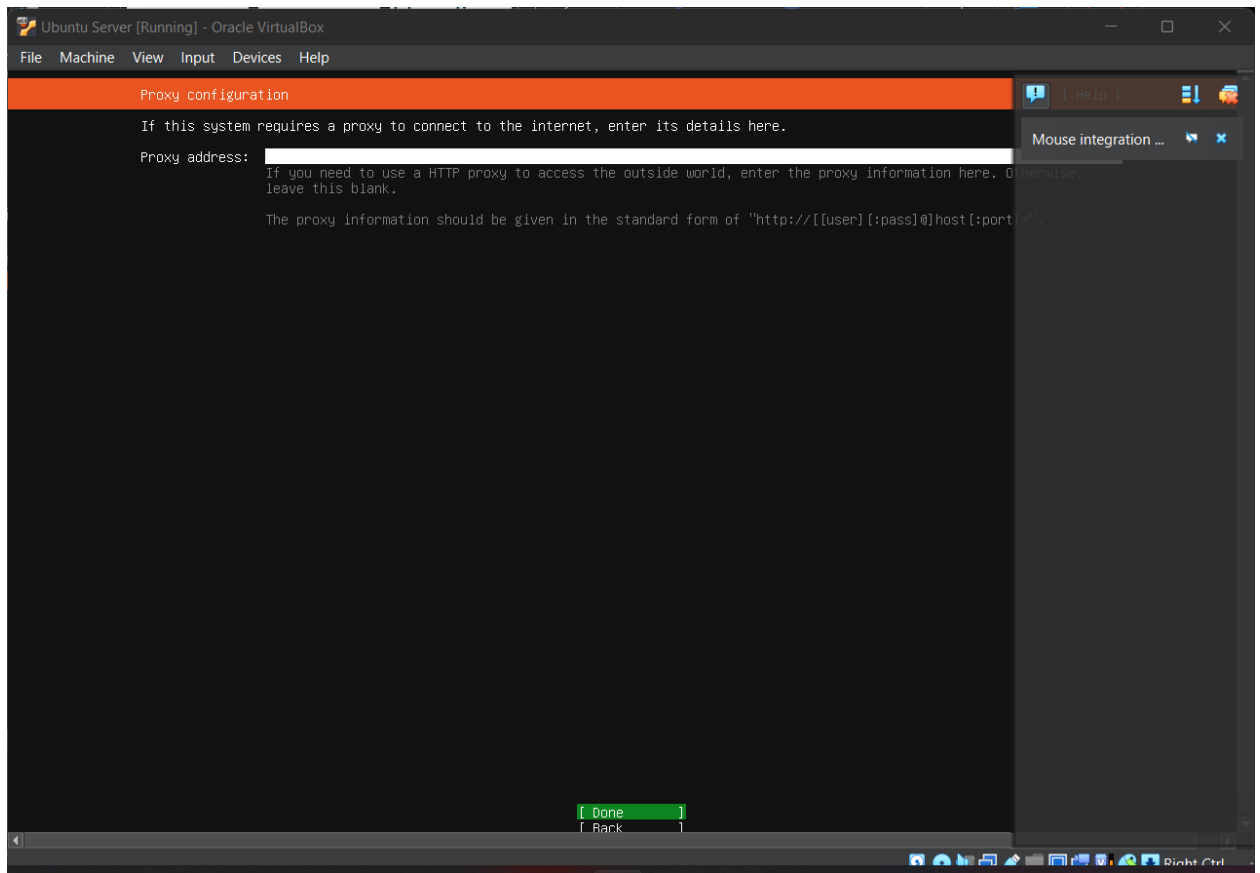
19. Click on Done



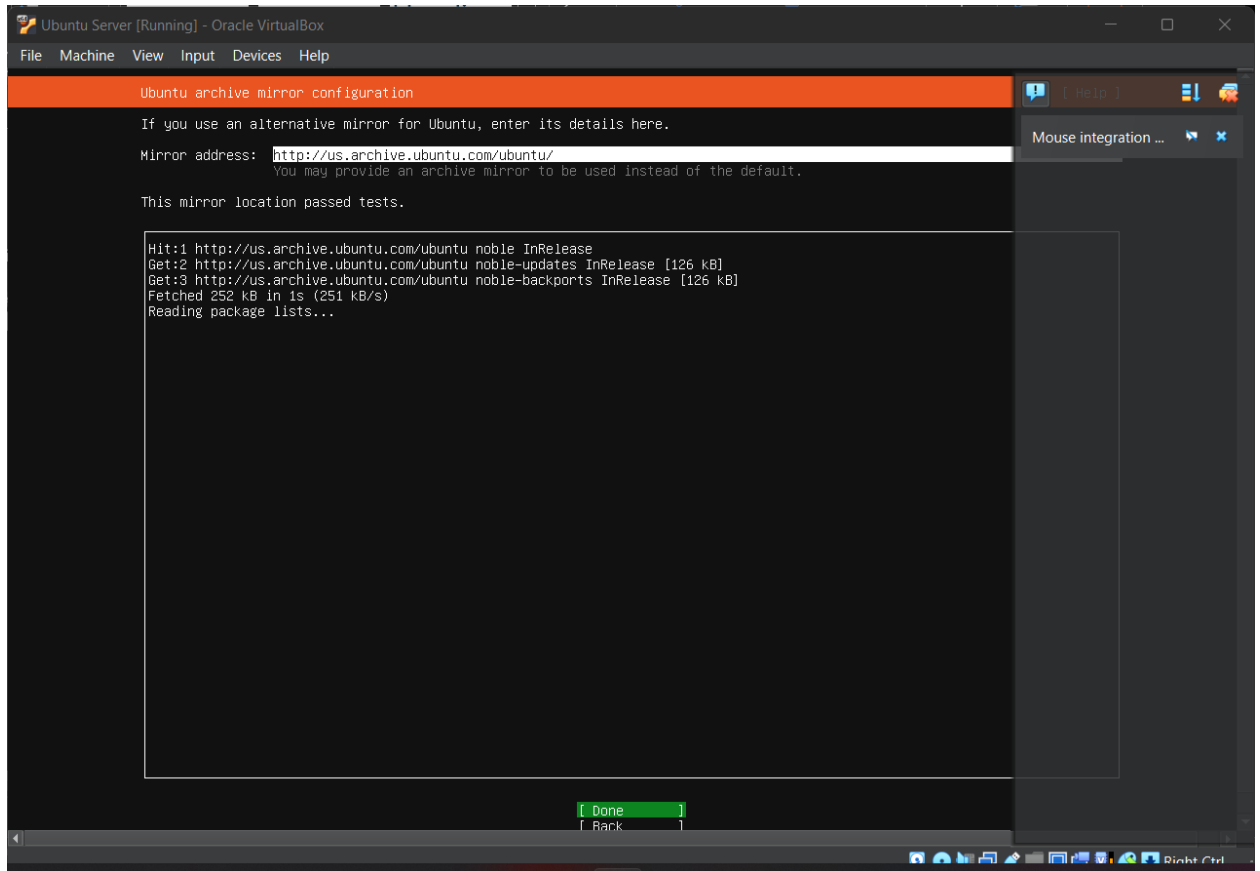
20. Click on Done



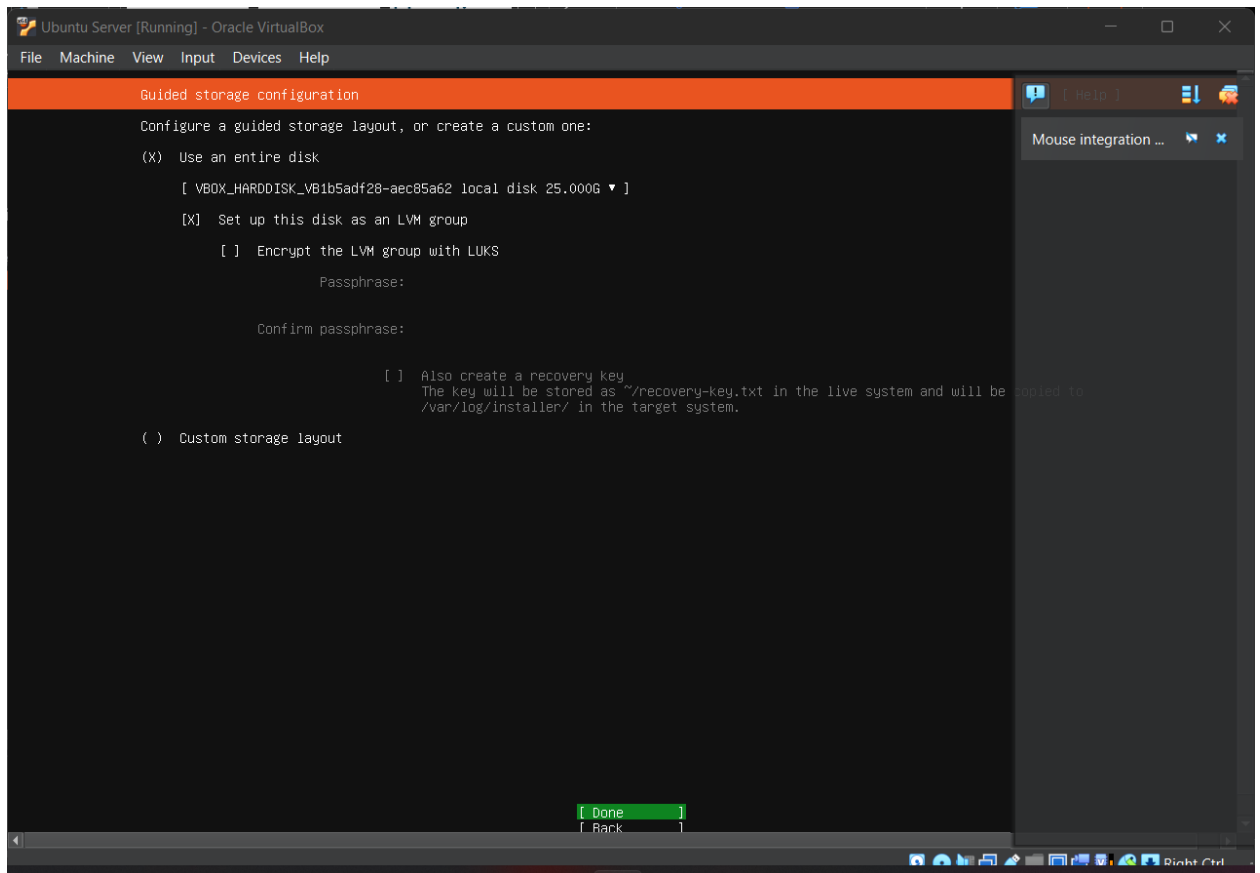
21. Click on Done



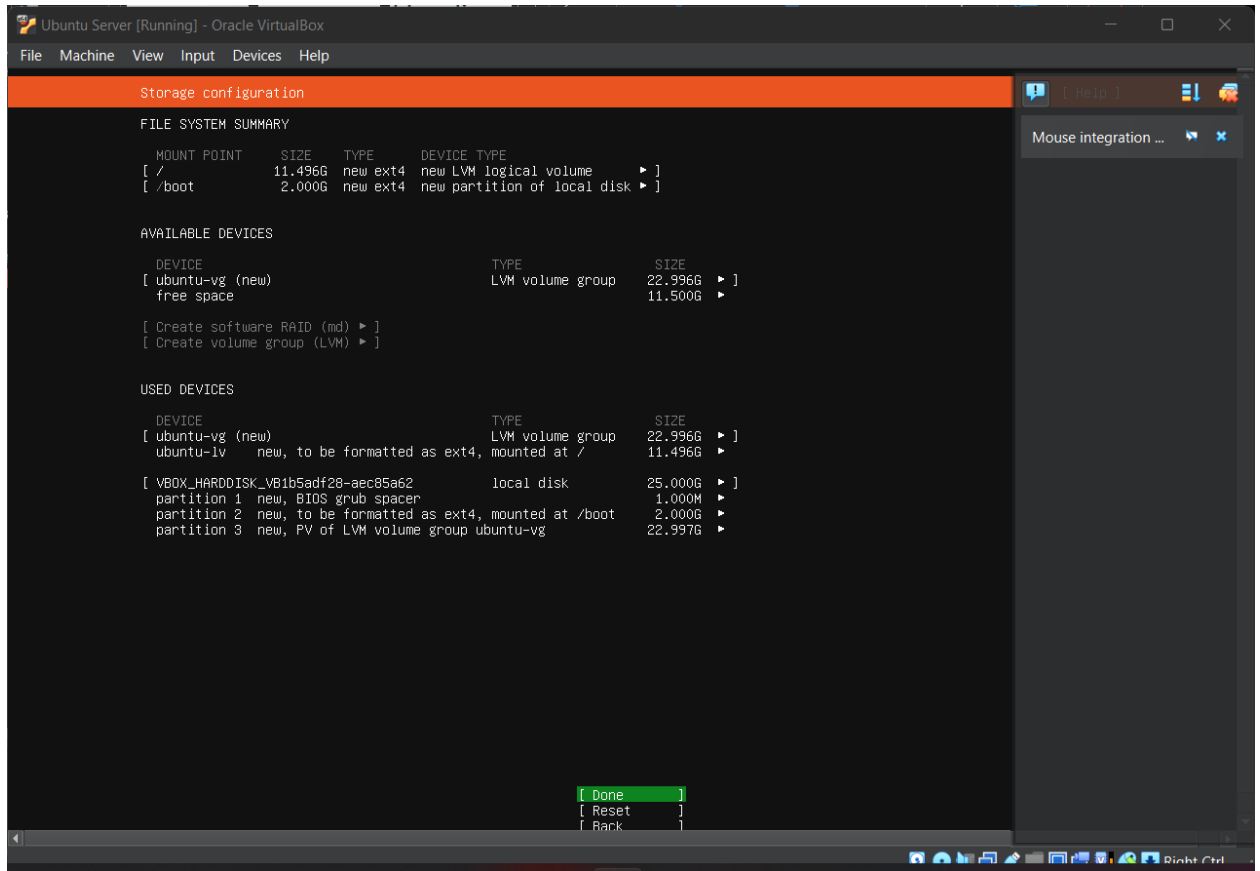
22. Click on Done



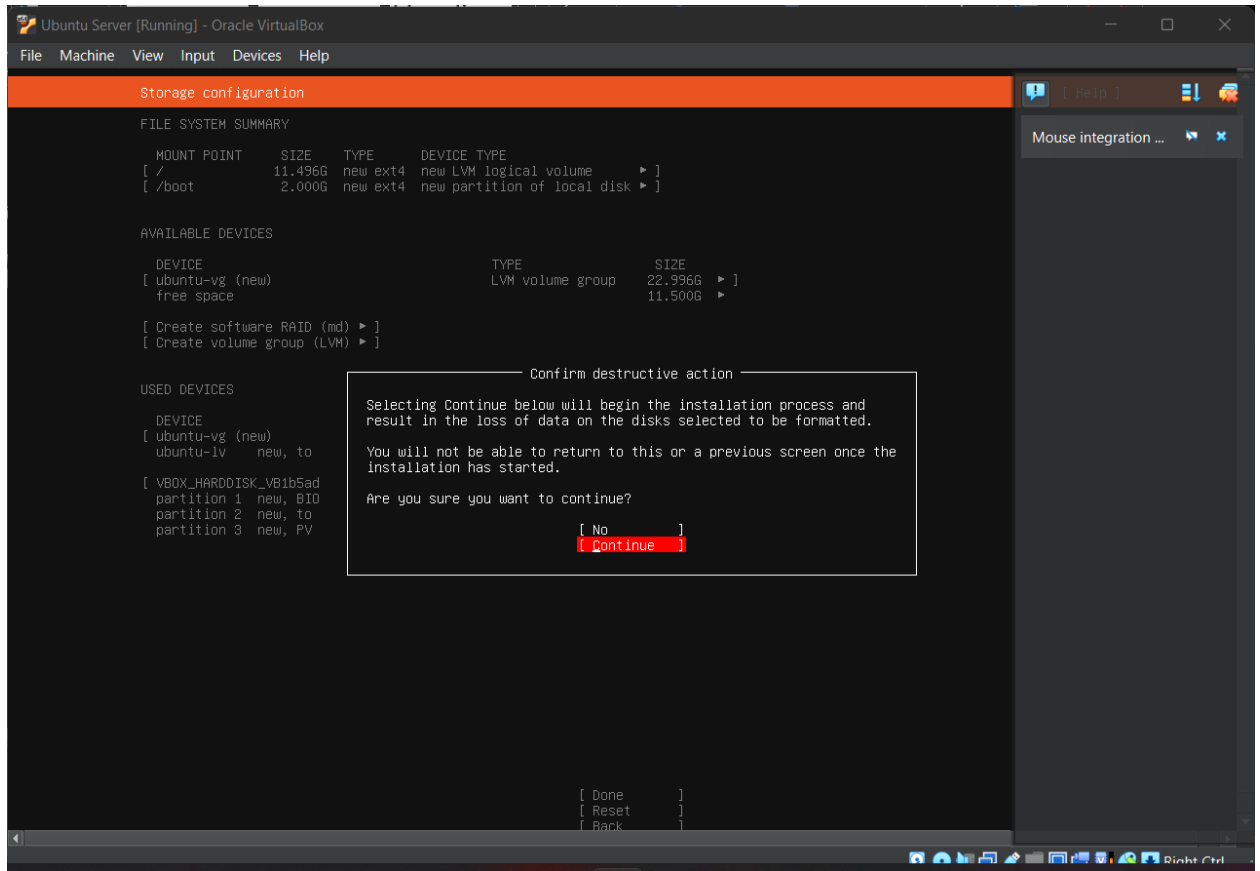
23. Leave the defaults and click on Done



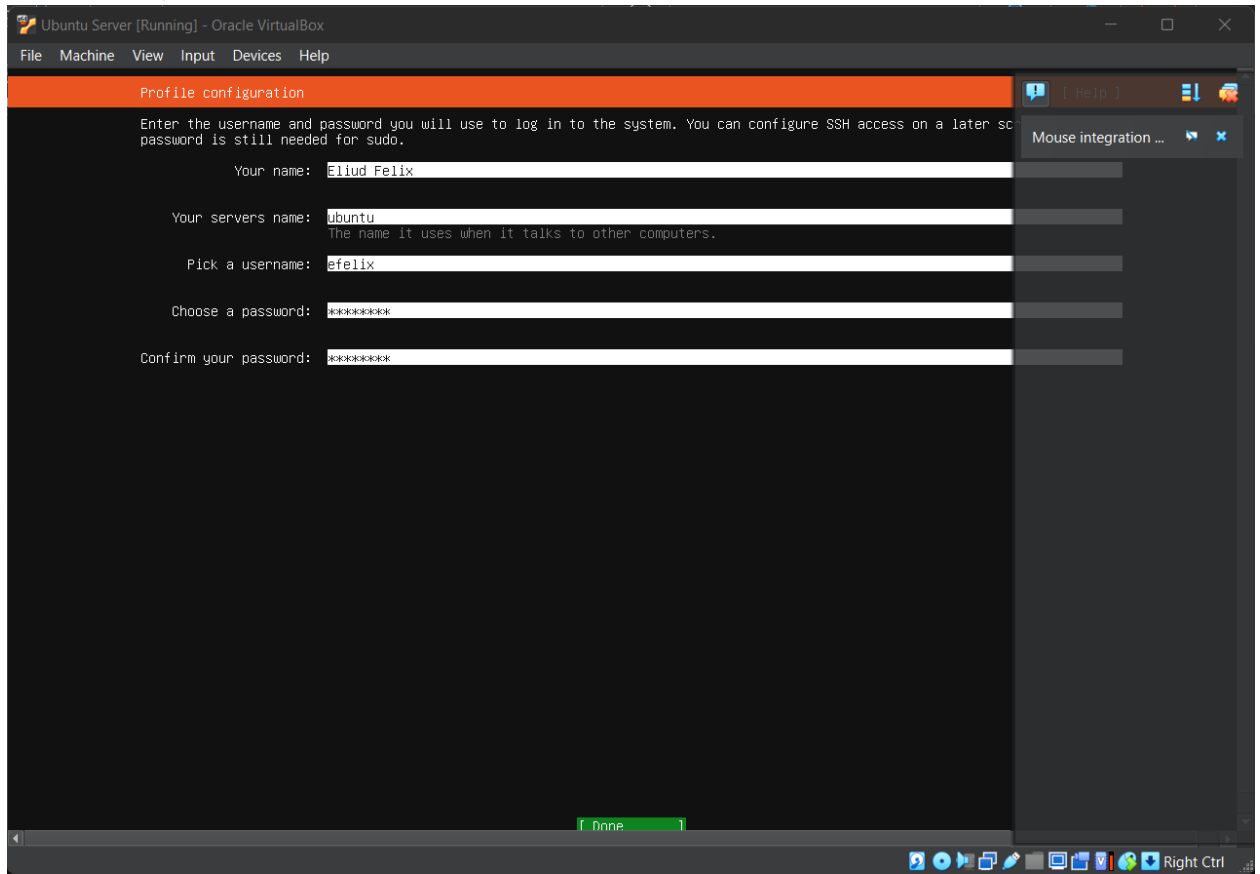
24. Click on Done



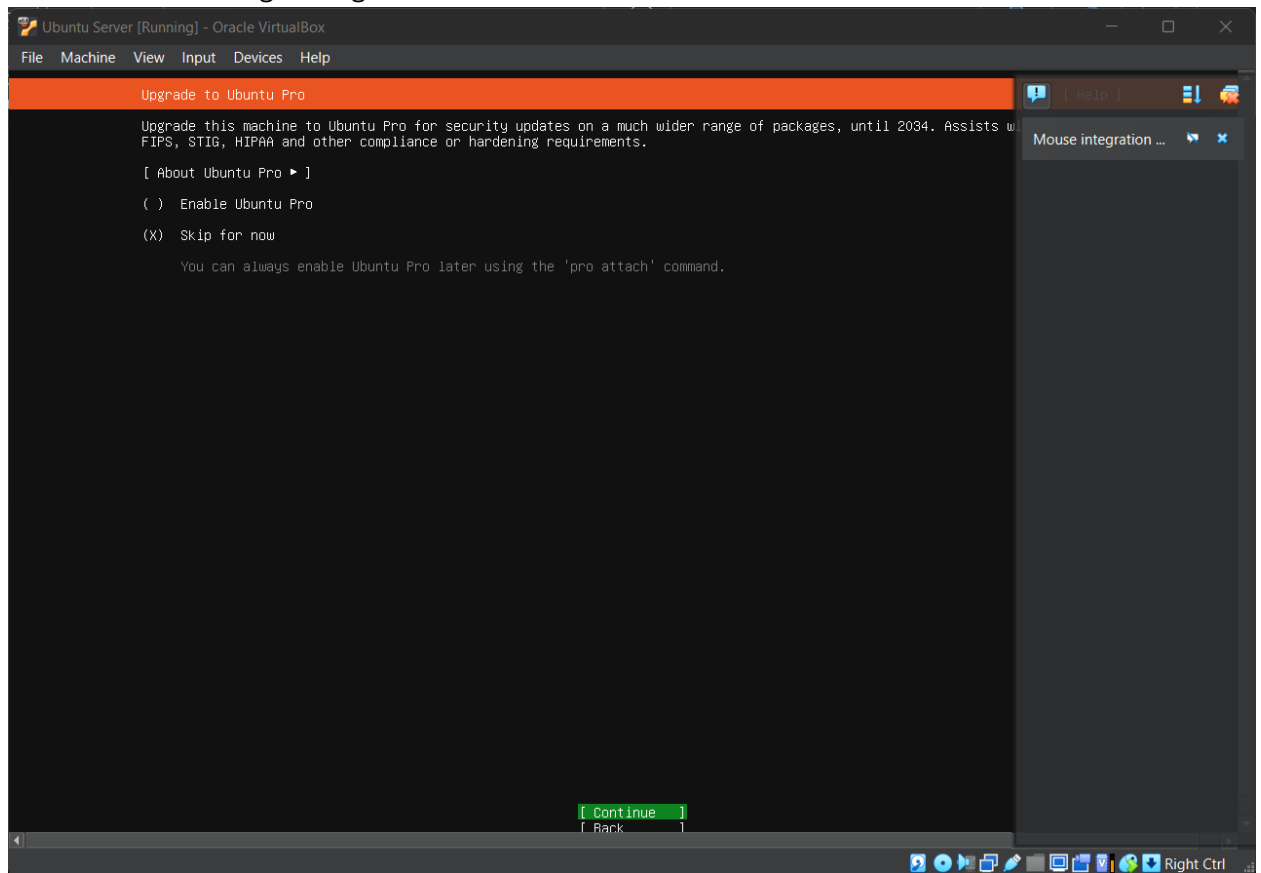
25. Click on Continue



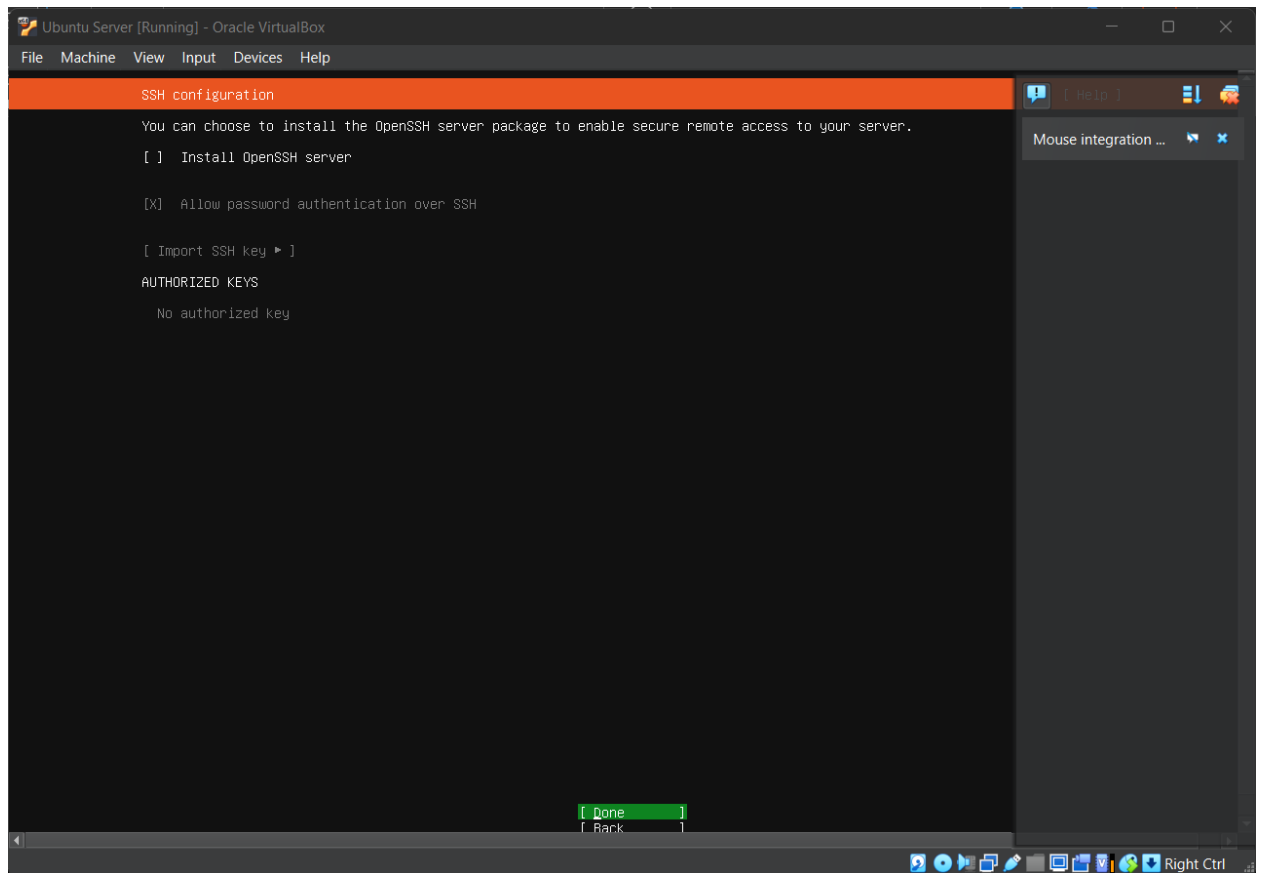
26. Fill in the requested fields as shown below



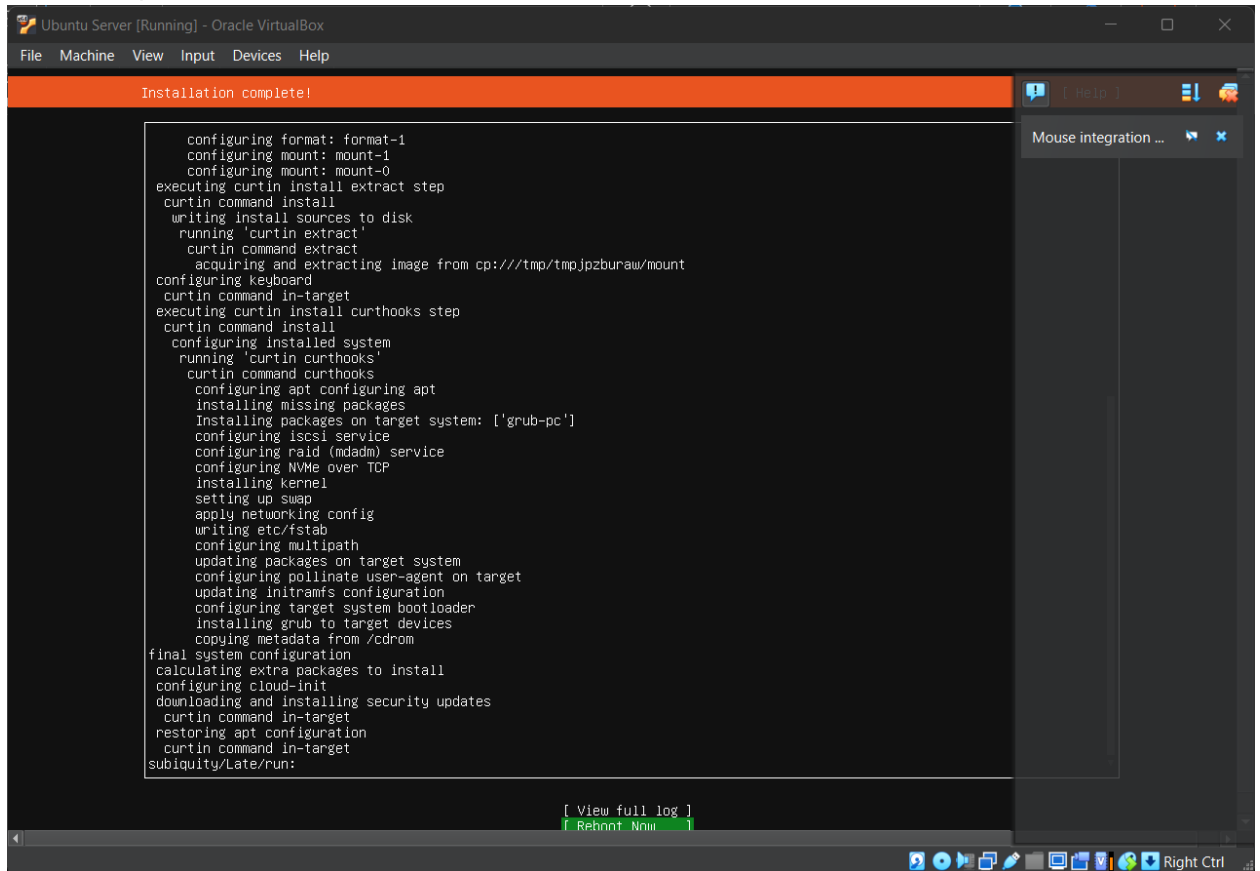
27. Choose the following settings



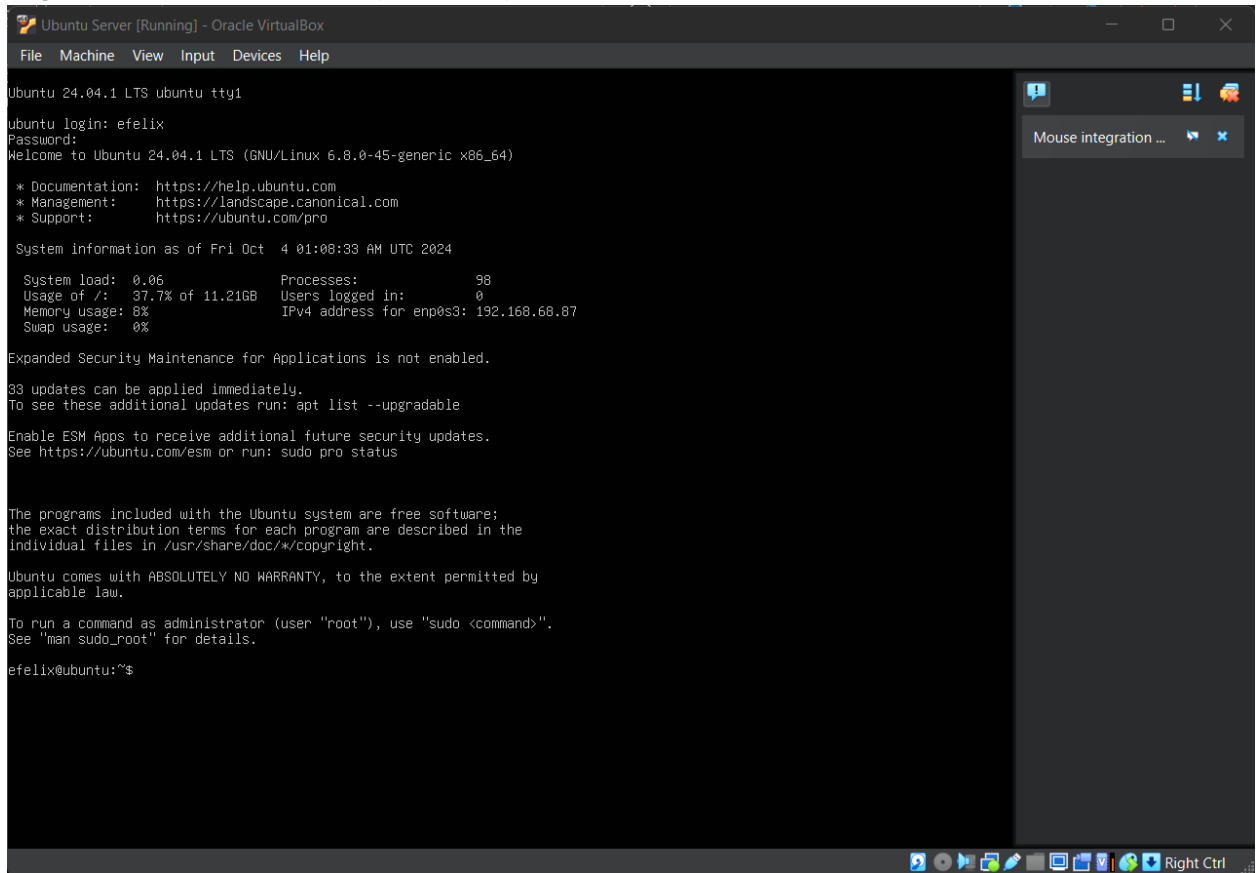
28. We will install SSH server afterwards via a command line. Click on Done



29. Once completed, click on Reboot Now



30. Login with the username and password you had created



```
Ubuntu Server [Running] - Oracle VirtualBox
File Machine View Input Devices Help

Ubuntu 24.04.1 LTS ubuntu tty1
ubuntu login: efelix
Password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-45-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

System information as of Fri Oct  4 01:08:33 AM UTC 2024

System load:  0.06               Processes:    98
Usage of /:   37.7% of 11.21GB   Users logged in: 0
Memory usage: 8%                IPv4 address for enp0s3: 192.168.68.87
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

33 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

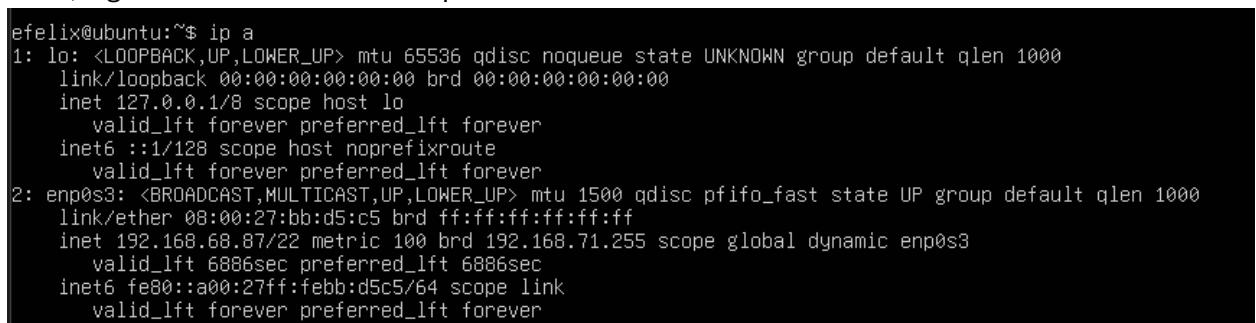
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

efelix@ubuntu:~$
```

31. Let's test internet access by 1st seeing with get an ip address by typing **ip a**. If done correctly, the adapter that you are using should grab an ip address from your network. If you notice on mine, it grabbed 192.168.68.87 on port 22



```
efelix@ubuntu:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:bb:d5:c5 brd ff:ff:ff:ff:ff:ff
    inet 192.168.68.87/22 metric 100 brd 192.168.71.255 scope global dynamic enp0s3
        valid_lft 6886sec preferred_lft 6886sec
    inet6 fe80::a00:27ff:febb:d5c5/64 scope link
        valid_lft forever preferred_lft forever
```

32. Let's see if could reach the internet by testing Google.com by typing the following... ping www.google.com

```
efelix@ubuntu:~$ ping www.google.com
PING www.google.com (142.251.40.132) 56(84) bytes of data.
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=1 ttl=54 time=30.5 ms
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=2 ttl=54 time=28.7 ms
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=3 ttl=54 time=29.3 ms
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=4 ttl=54 time=24.2 ms
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=5 ttl=54 time=26.9 ms
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=6 ttl=54 time=25.2 ms
64 bytes from lga25s80-in-f4.1e100.net (142.251.40.132): icmp_seq=7 ttl=54 time=23.5 ms
^C
--- www.google.com ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6006ms
rtt min/avg/max/mdev = 23.497/26.898/30.512/2.507 ms
```

33. Let's ping our CentOS server

```
efelix@ubuntu:~$ ping 192.168.68.59
PING 192.168.68.59 (192.168.68.59) 56(84) bytes of data.
64 bytes from 192.168.68.59: icmp_seq=1 ttl=64 time=0.755 ms
64 bytes from 192.168.68.59: icmp_seq=2 ttl=64 time=0.726 ms
64 bytes from 192.168.68.59: icmp_seq=3 ttl=64 time=0.707 ms
64 bytes from 192.168.68.59: icmp_seq=4 ttl=64 time=0.799 ms
^C
```

34. Let's install ssh by using the command **sudo apt install openssh-server** Use your password and click on Y to continue.

```
efelix@ubuntu:~$ sudo apt install openssh-server
[sudo] password for efelix:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libwrap0 ncurses-term openssh-sftp-server ssh-import-id
Suggested packages:
  molly-guard monkeysphere ssh-askpass
The following NEW packages will be installed:
  libwrap0 ncurses-term openssh-server openssh-sftp-server ssh-import-id
0 upgraded, 5 newly installed, 0 to remove and 35 not upgraded.
Need to get 879 kB of archives.
After this operation, 6,857 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```