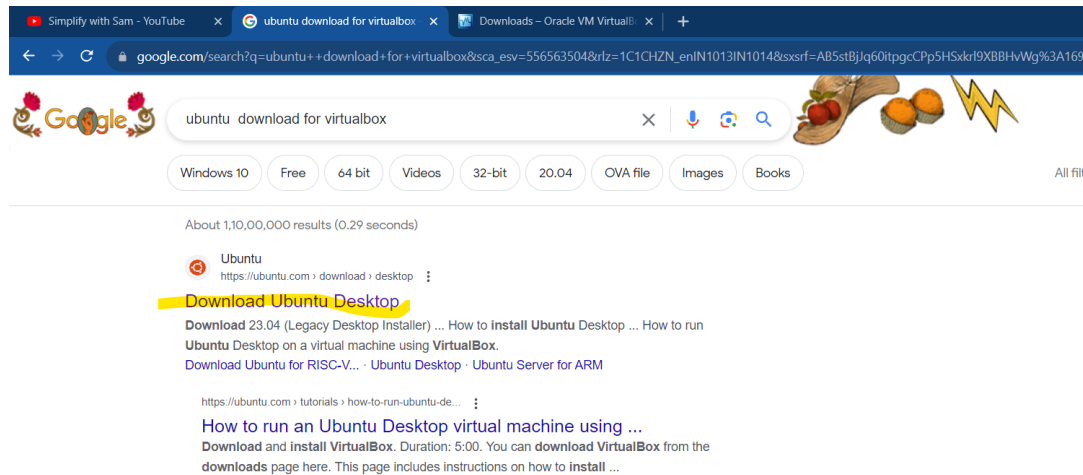
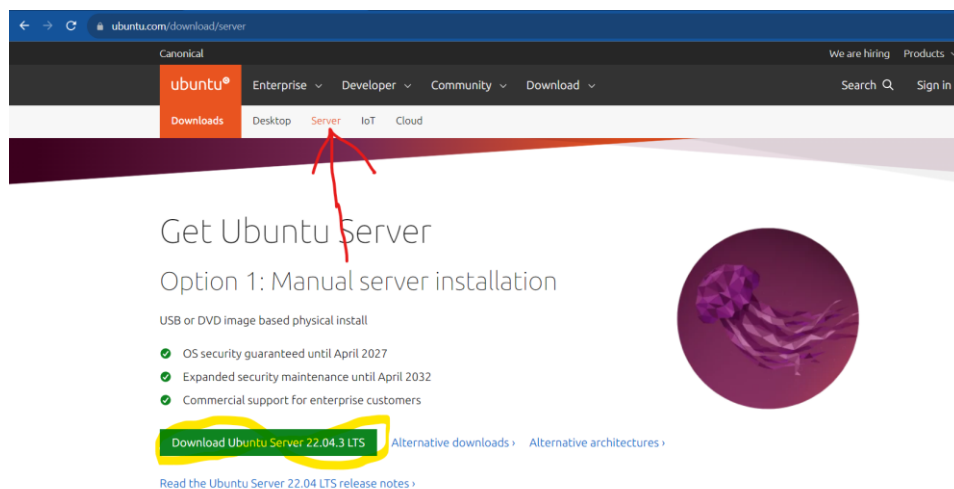


Install Ubuntu 22.04.3 LTS on Oracle virtual box 7.0.10

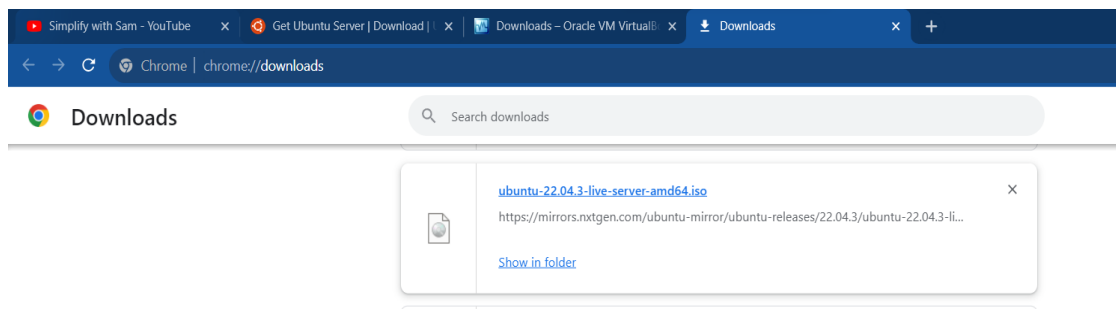
Search for “ubuntu download for virtual box” in google.com



Click on the “server” tab on the Ubuntu downloads page and click “Download Ubuntu Server 22.04.3 LTS” as shown below.

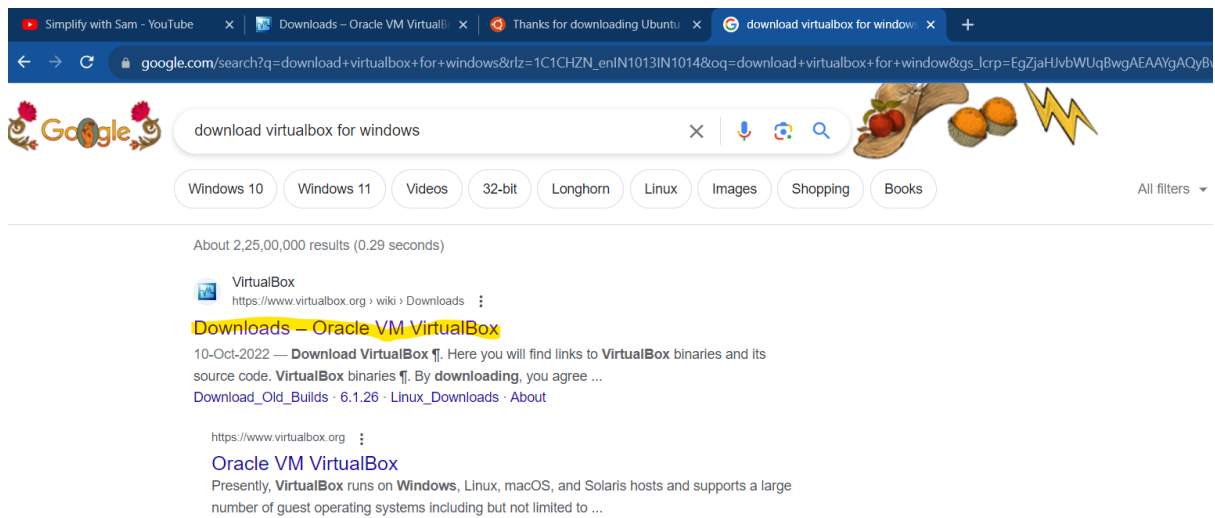


Download will start. And it will be in your downloads page.





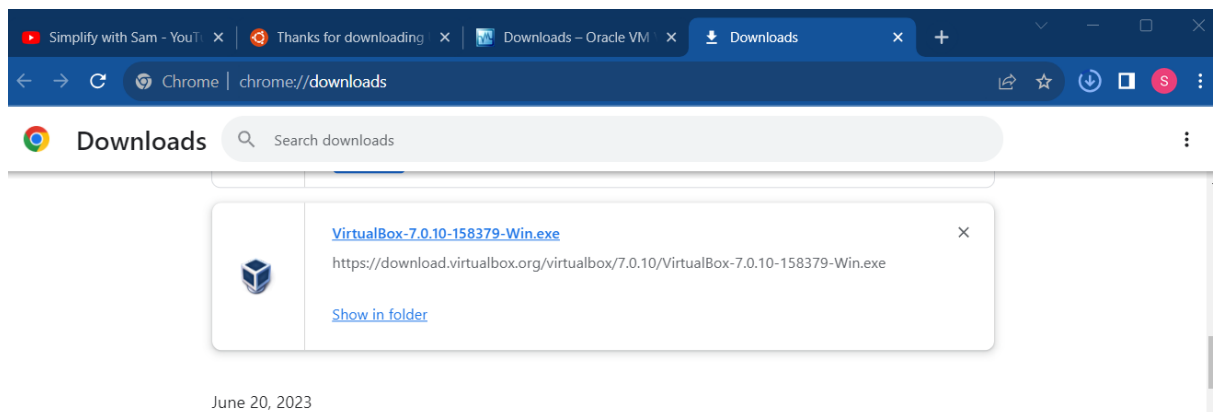
Search for “download Oracle Virtual Box for Windows” in google.com



Go to the webpage shown below and click on “windows hosts”

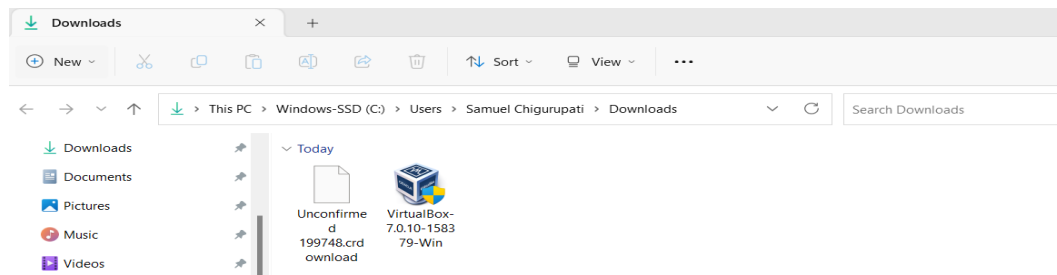


Virtual box .exe file will be downloaded

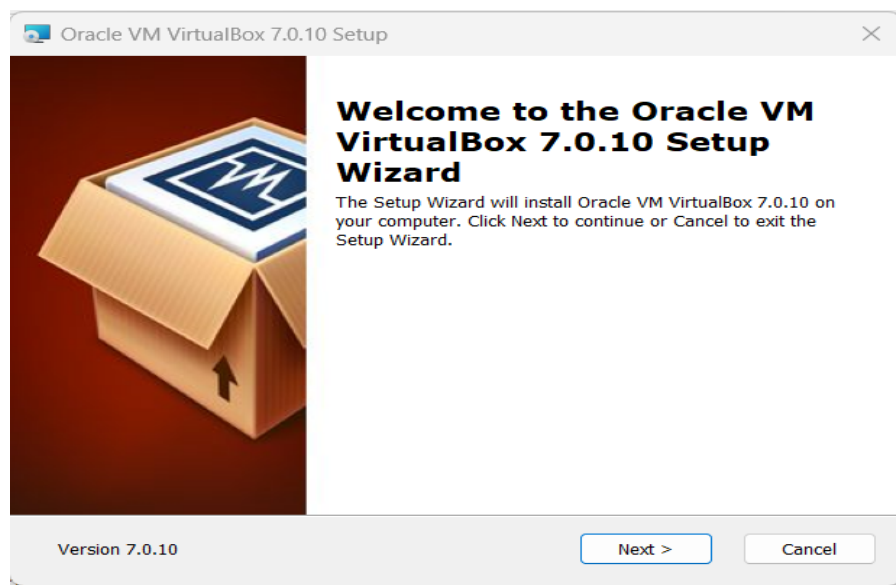




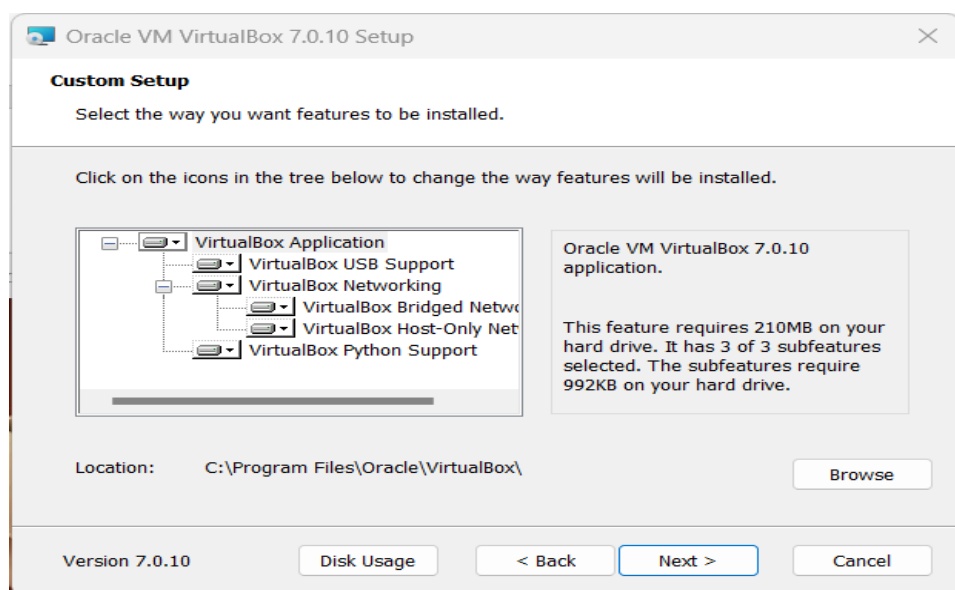
Double-click on the .exe file



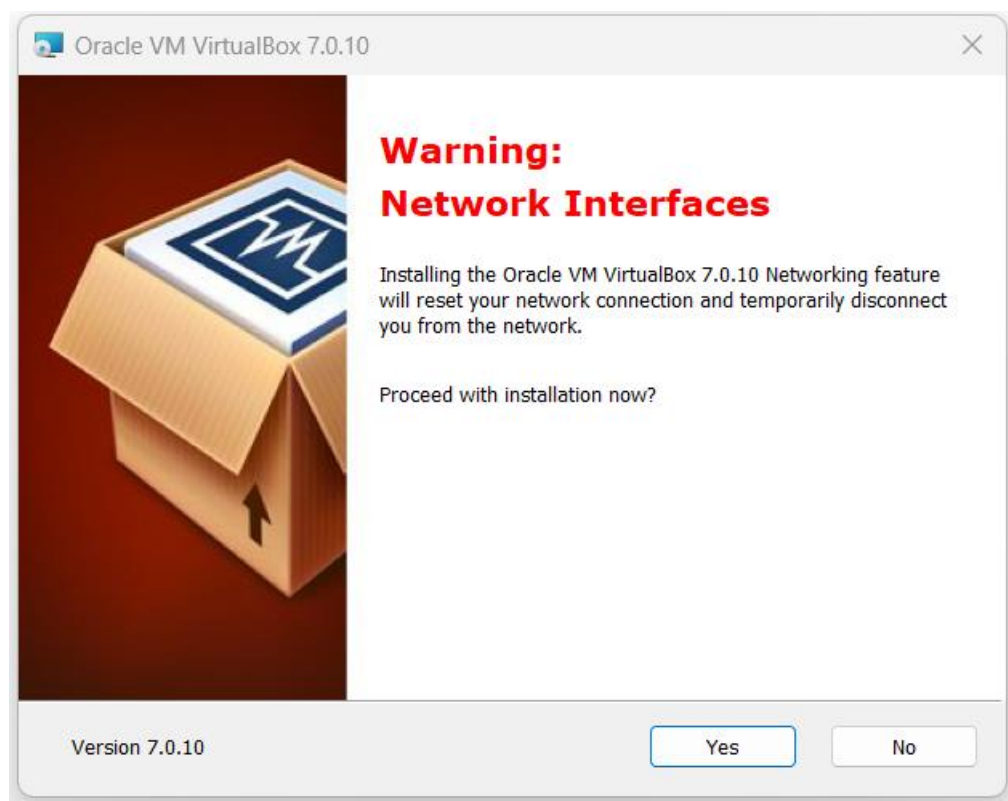
Installation wizard will be opened → click on Next



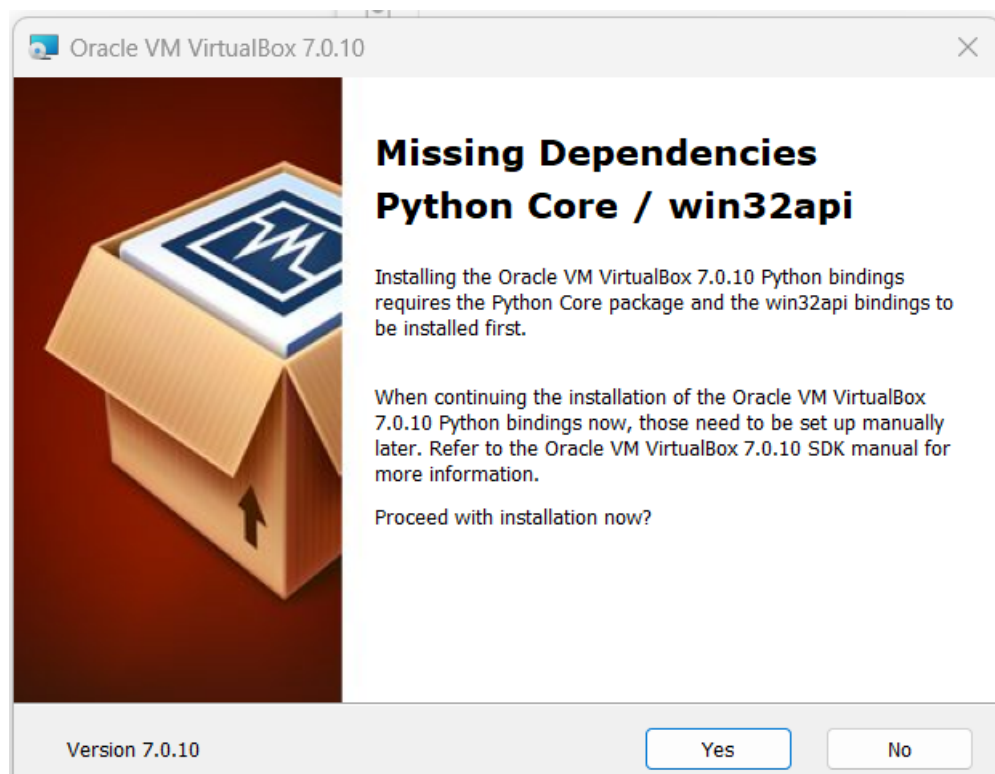
Don't modify anything. → Click on Next



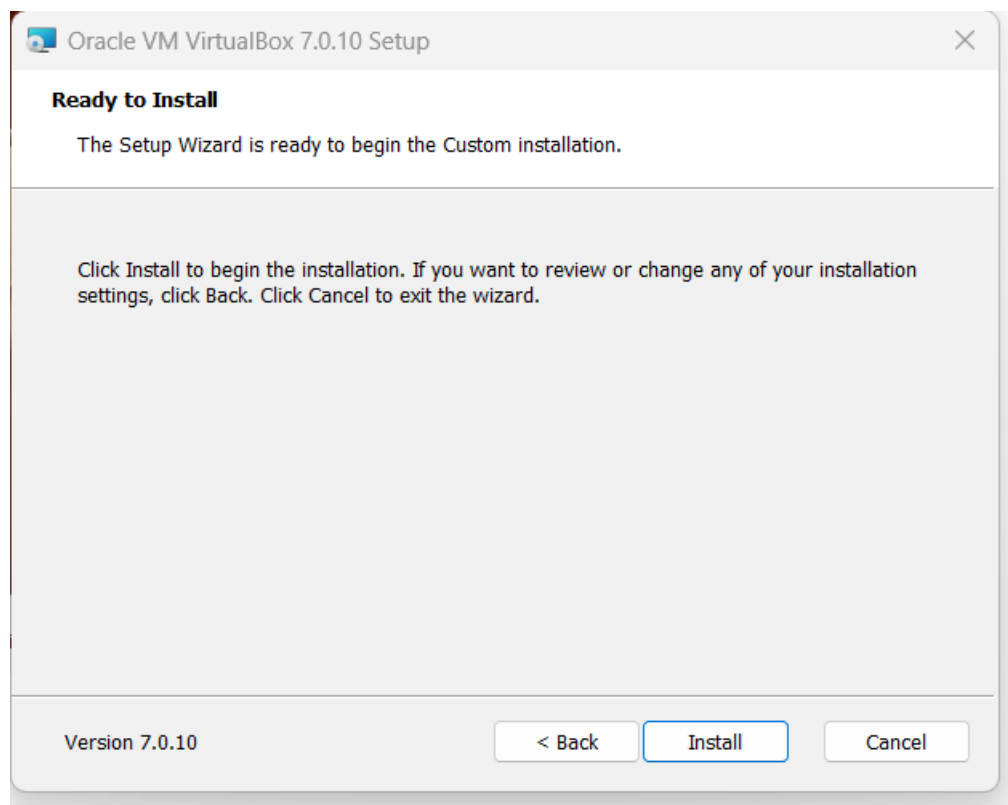
Click Yes



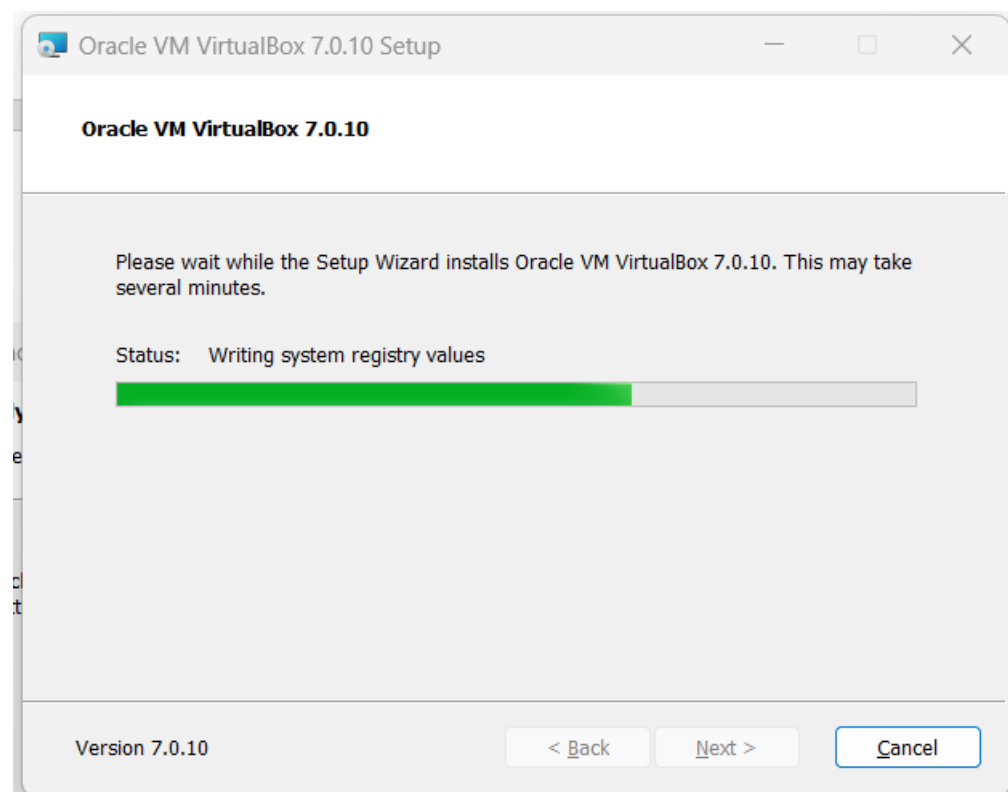
Click Yes



Click Install



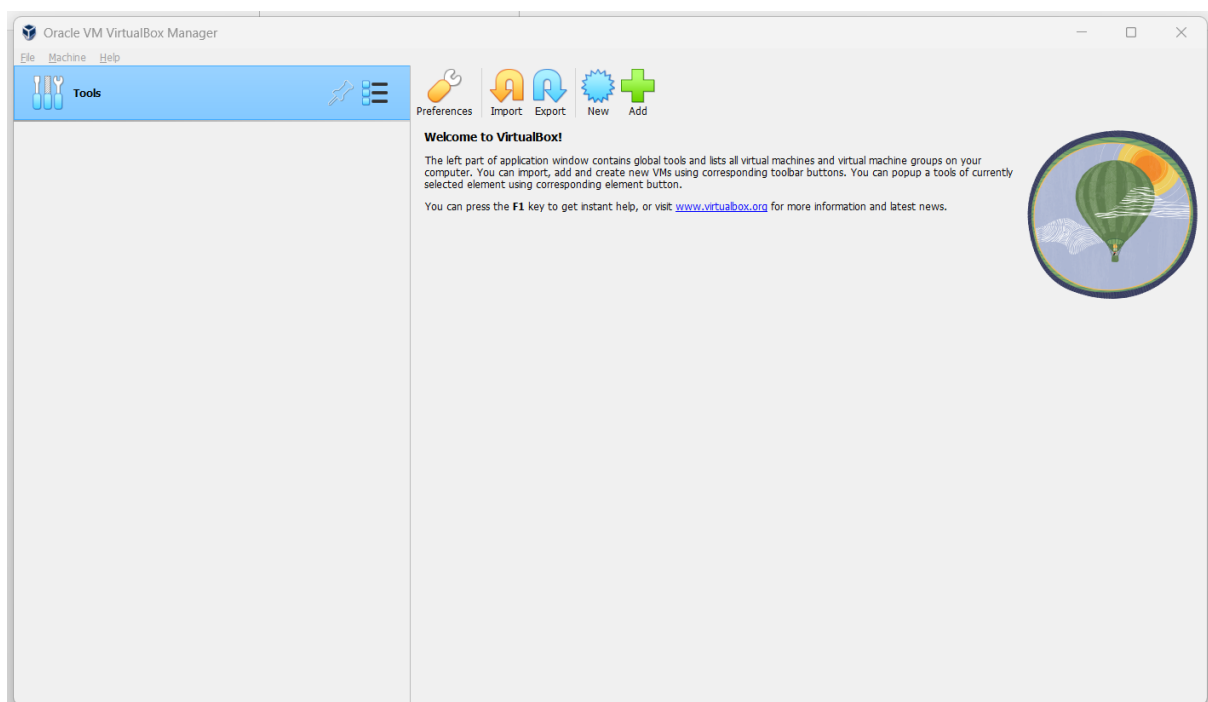
Installation is In-progress.....



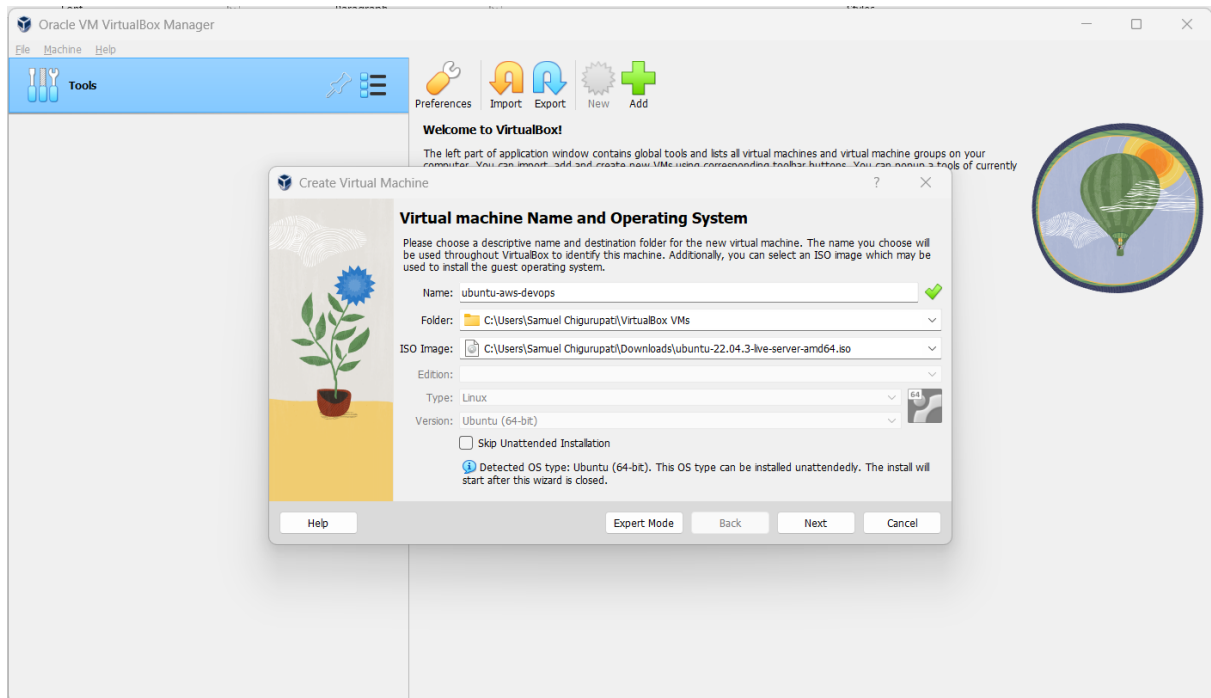
Click on Finish



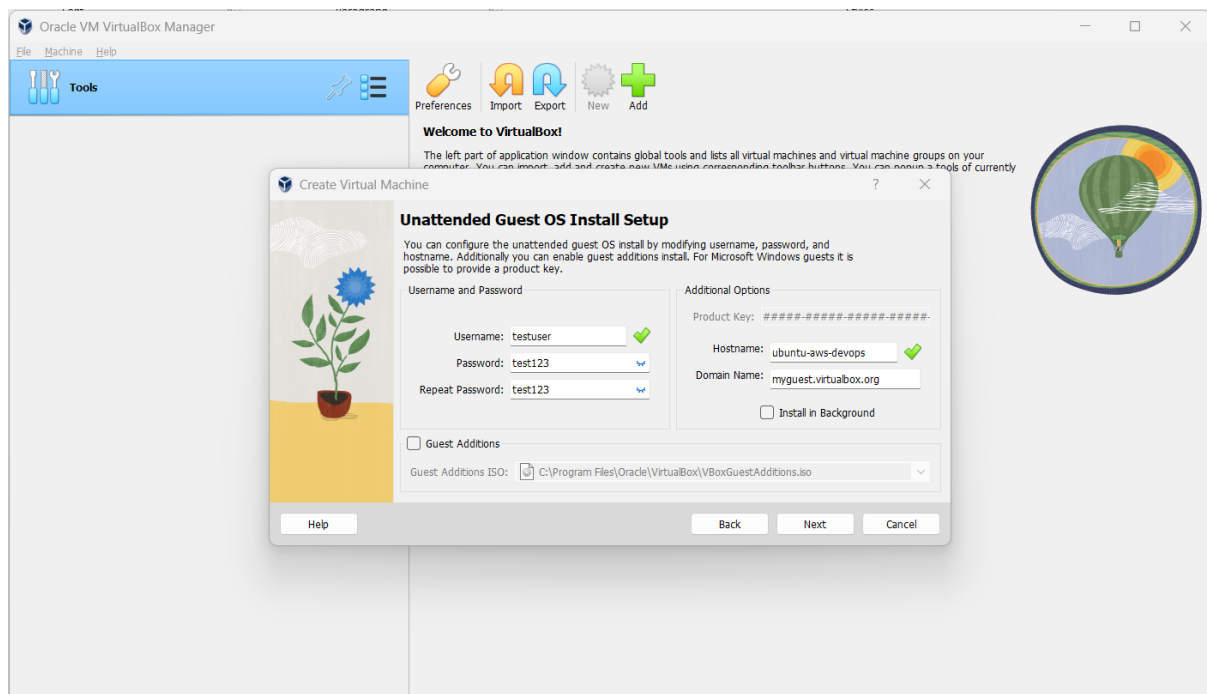
Click on New



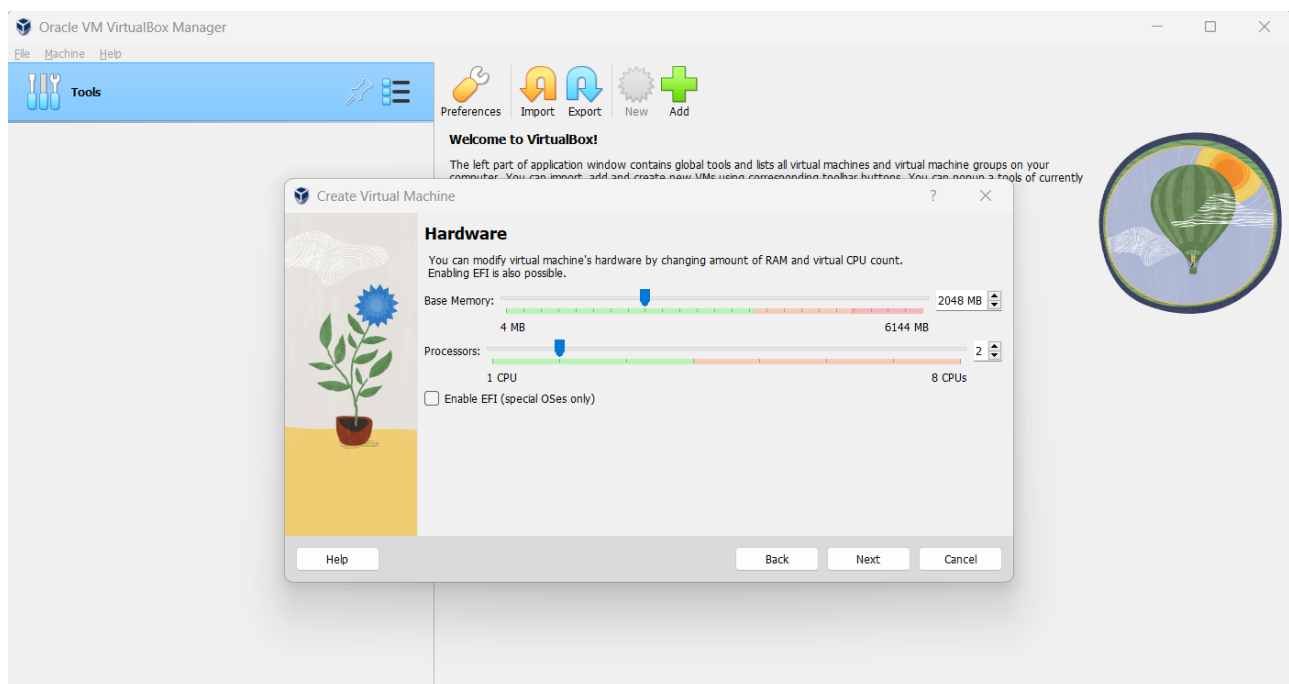
Provide Name and ISO image downloaded path as shown below. And click on Next



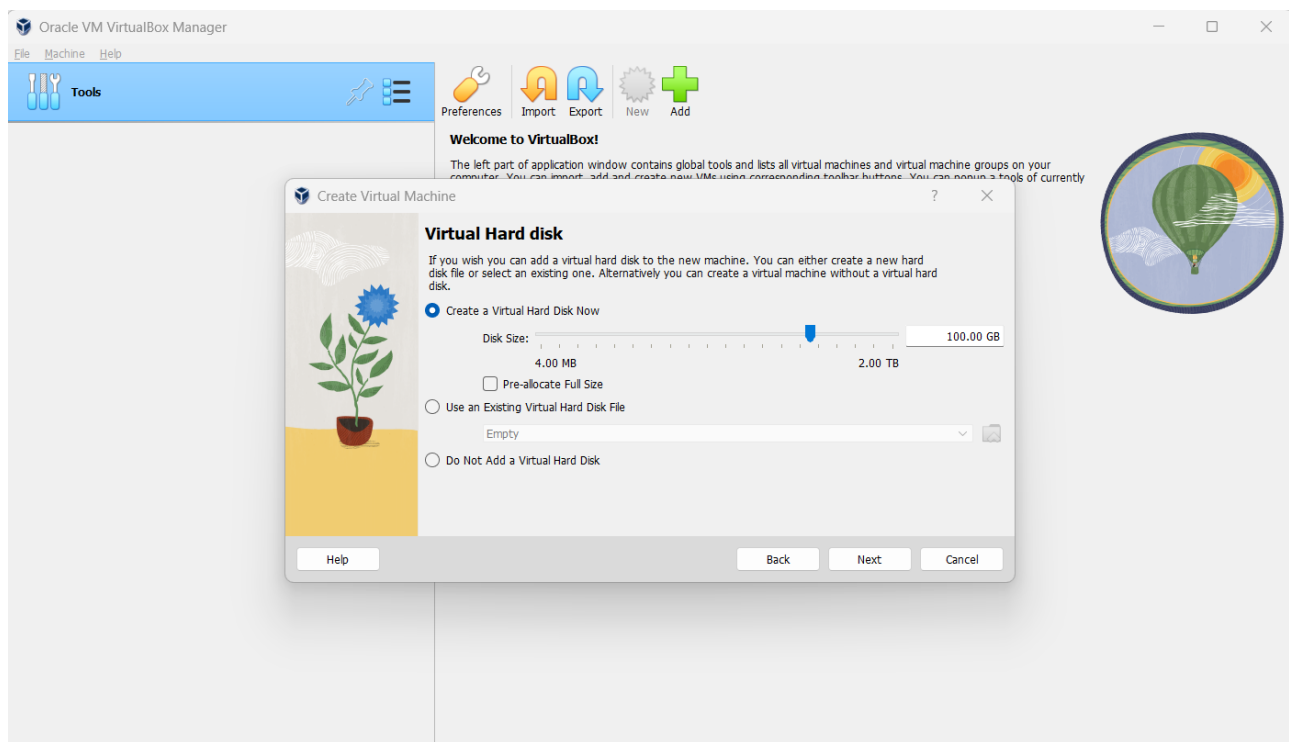
Provide Username, password and hostname as shown below. And click on Next



Provide 2GB (2048 MB) Memory and 2 CPUs as shown below. And click on Next.

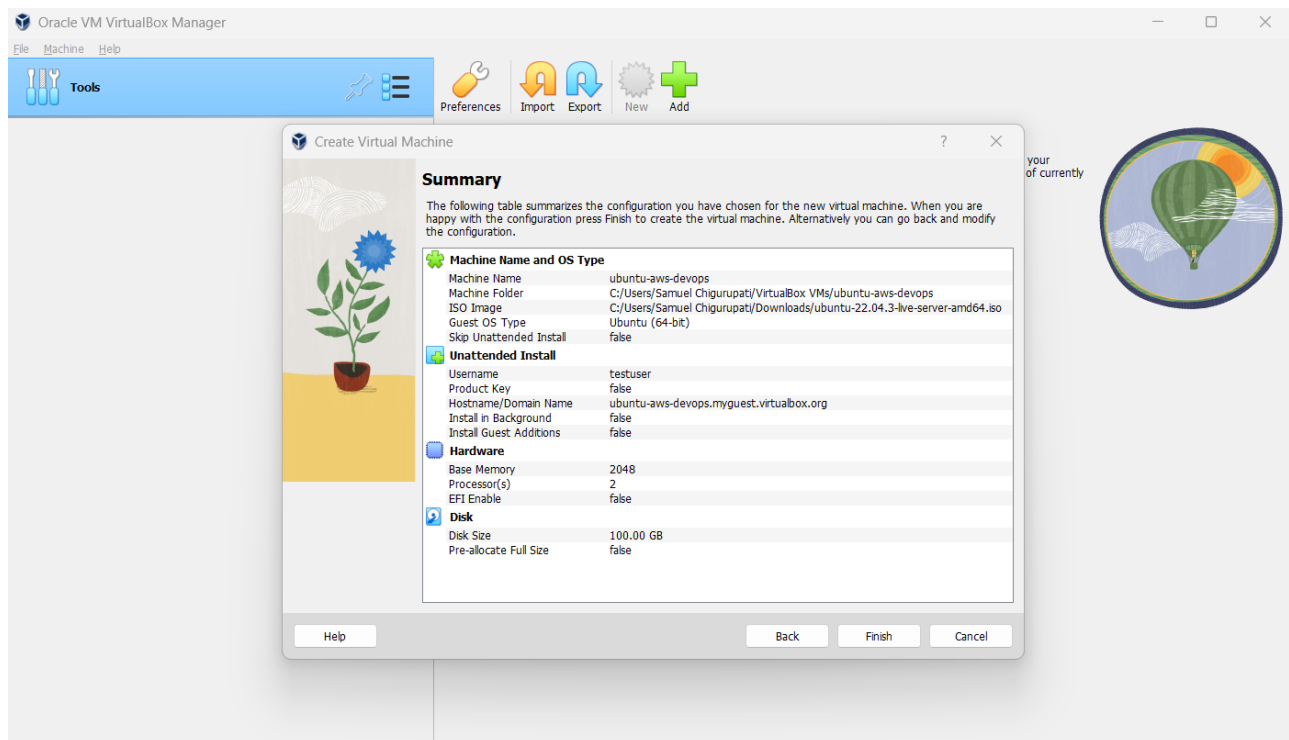


Provide 100 GB Dynamic virtual hard disk as shown below. And click on Next.

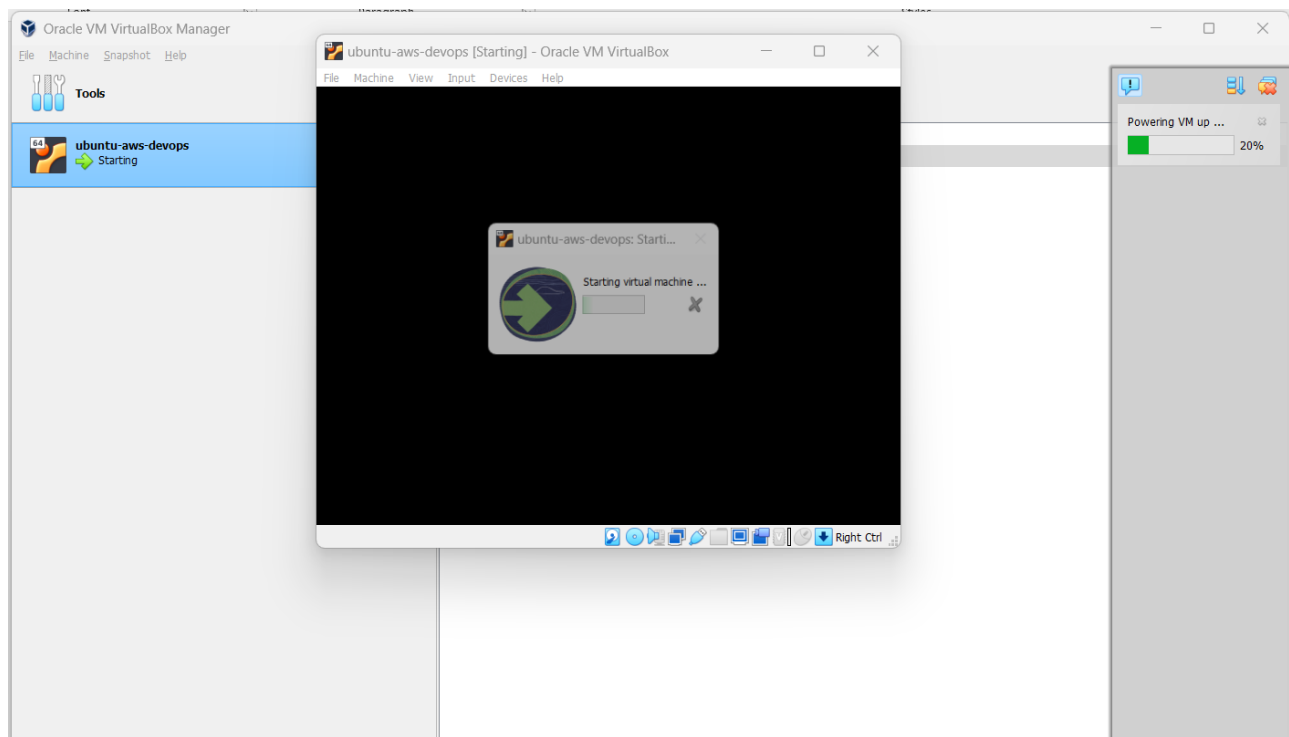


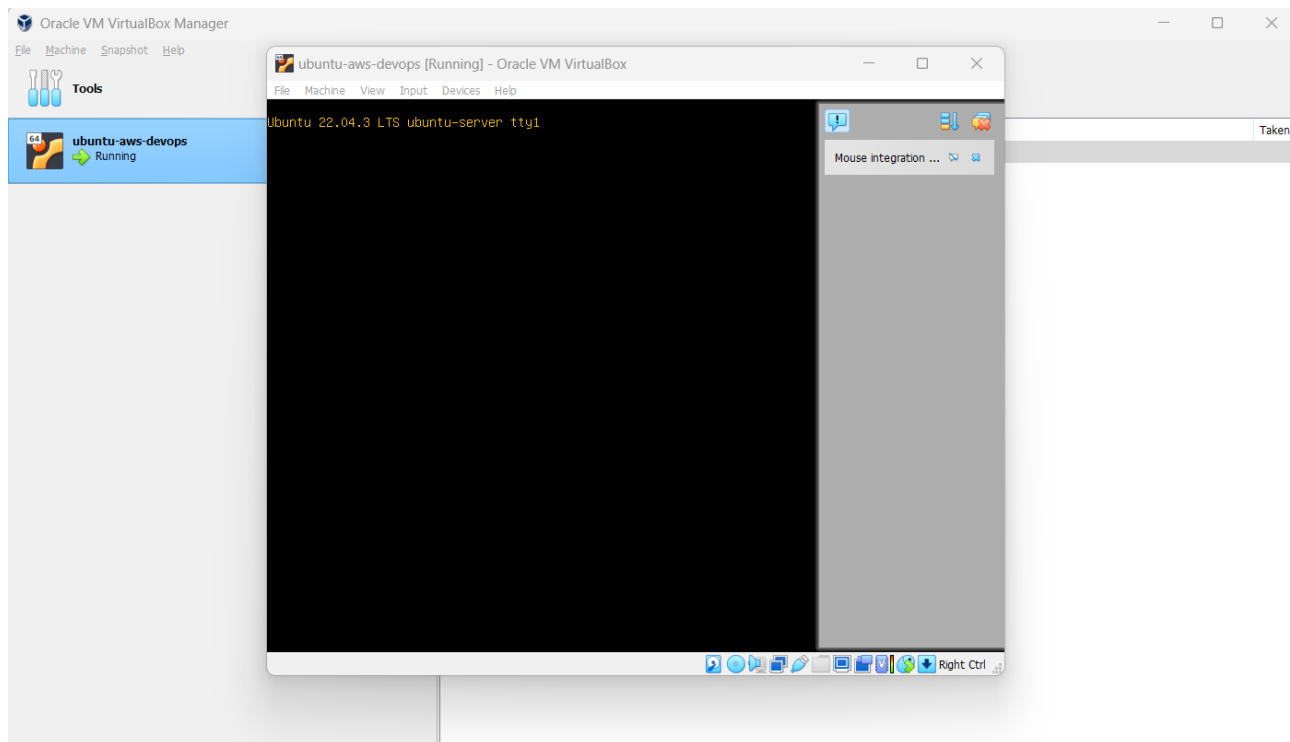


Check the all the details you have provided. And click on Finish.

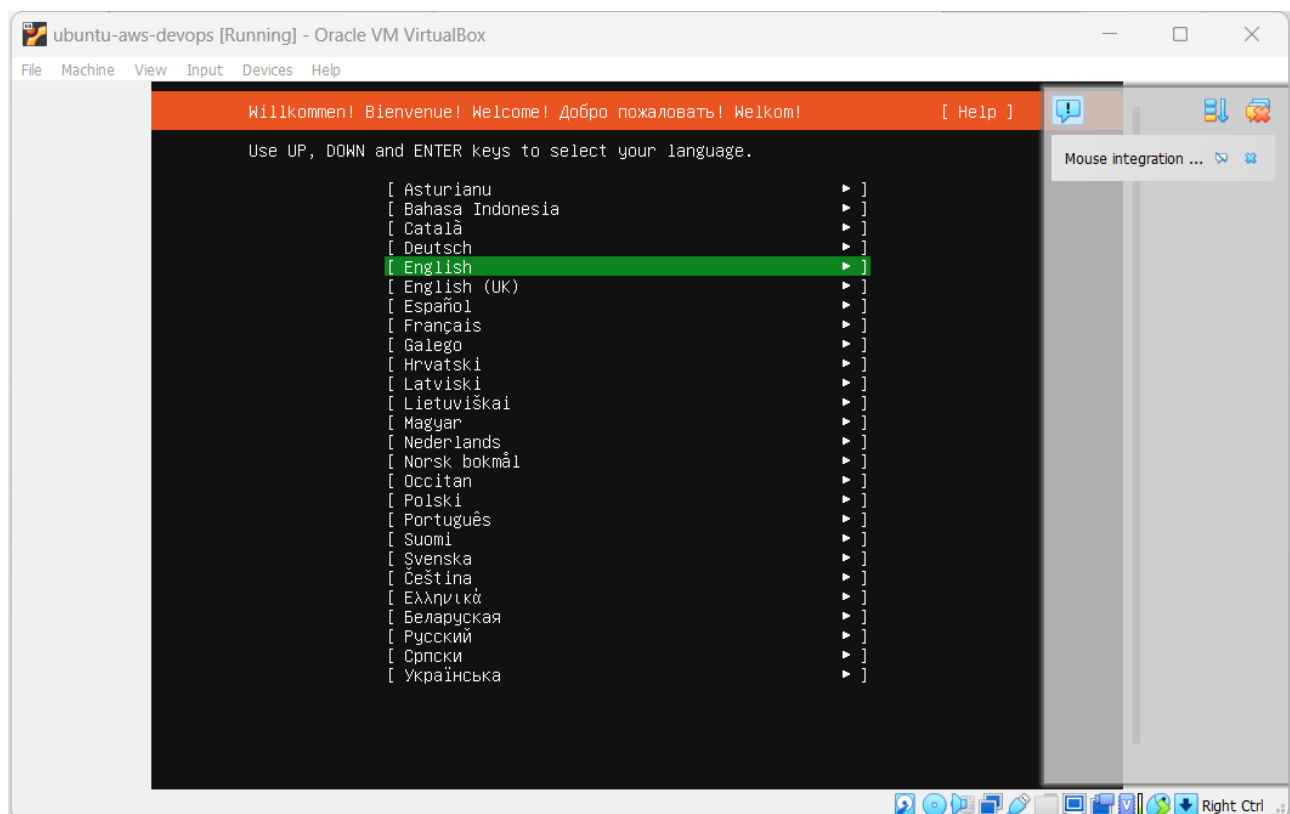


Ubuntu server will ask for inputs before install.



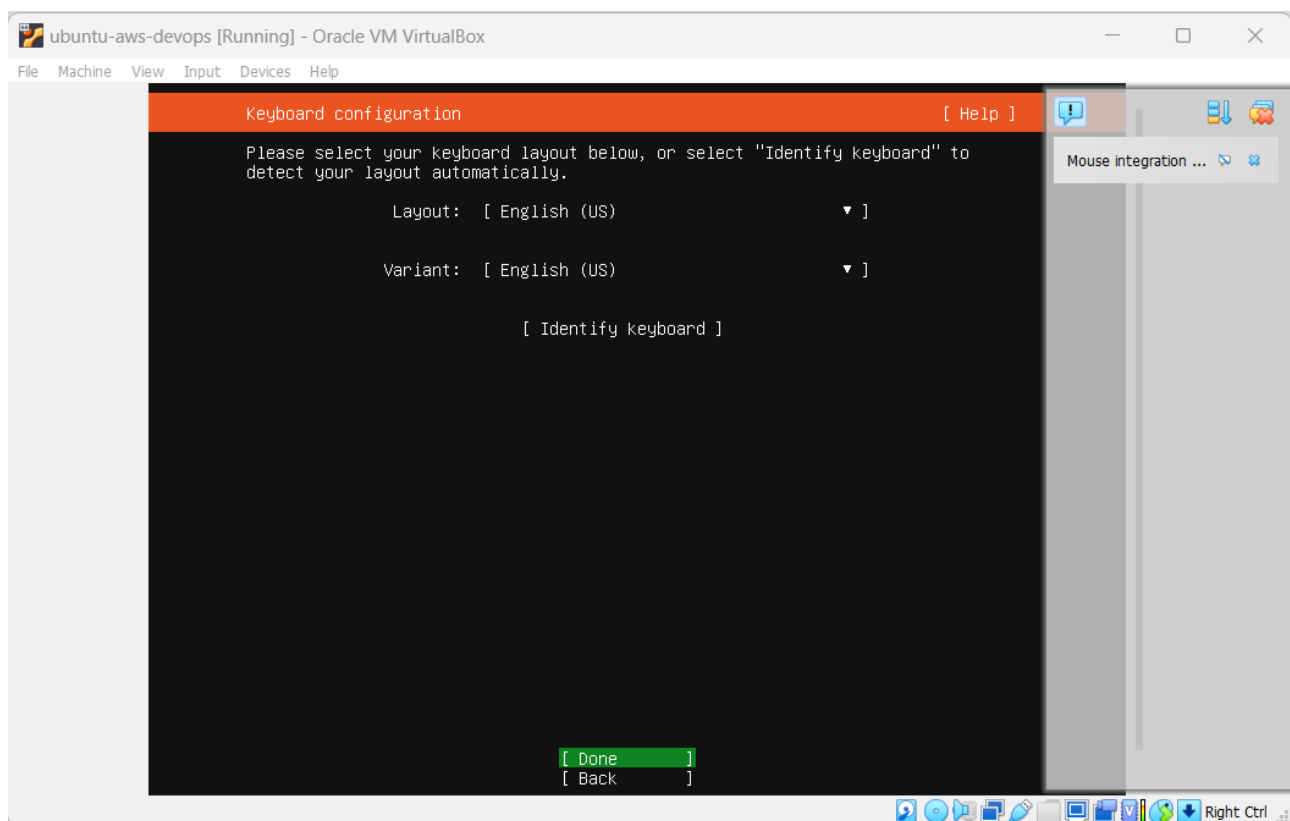


Press Enter to select English.

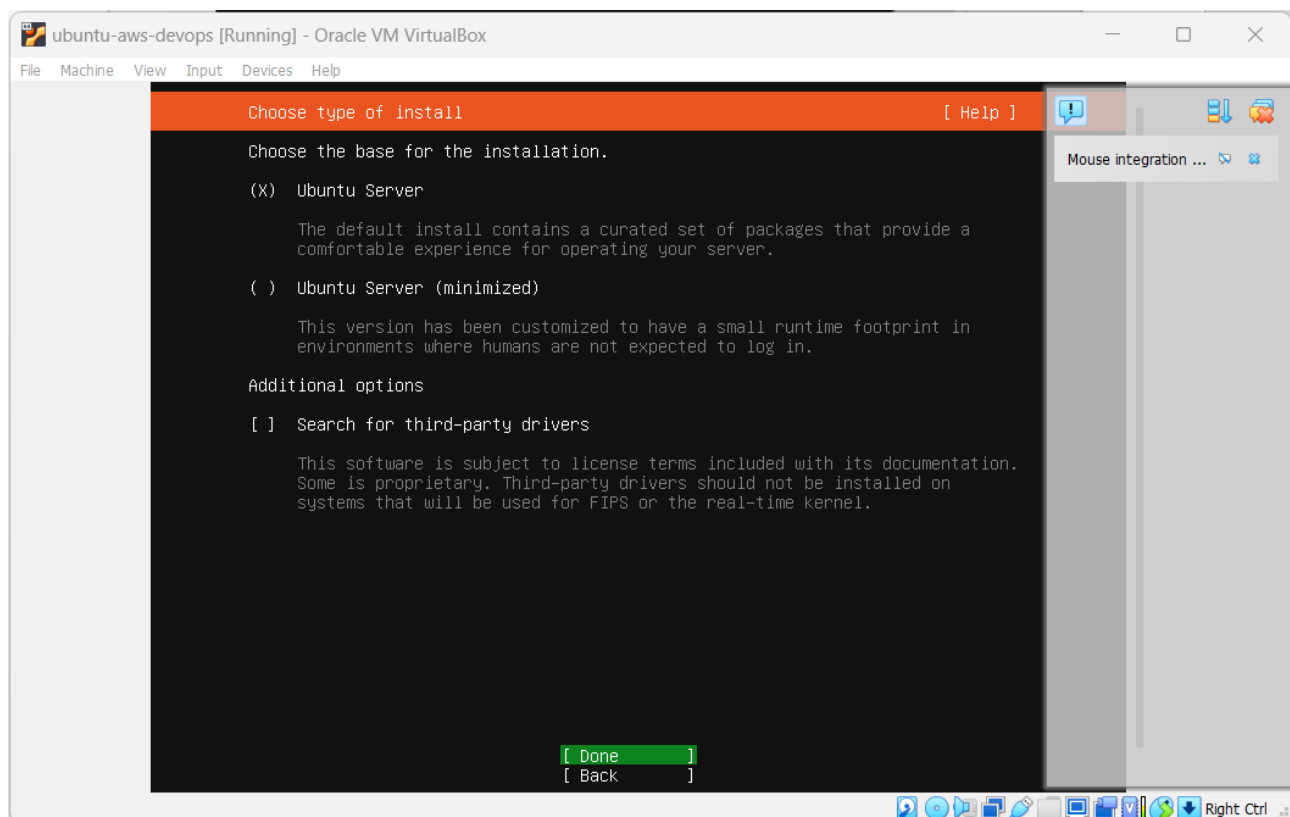




Press Enter to click Done.

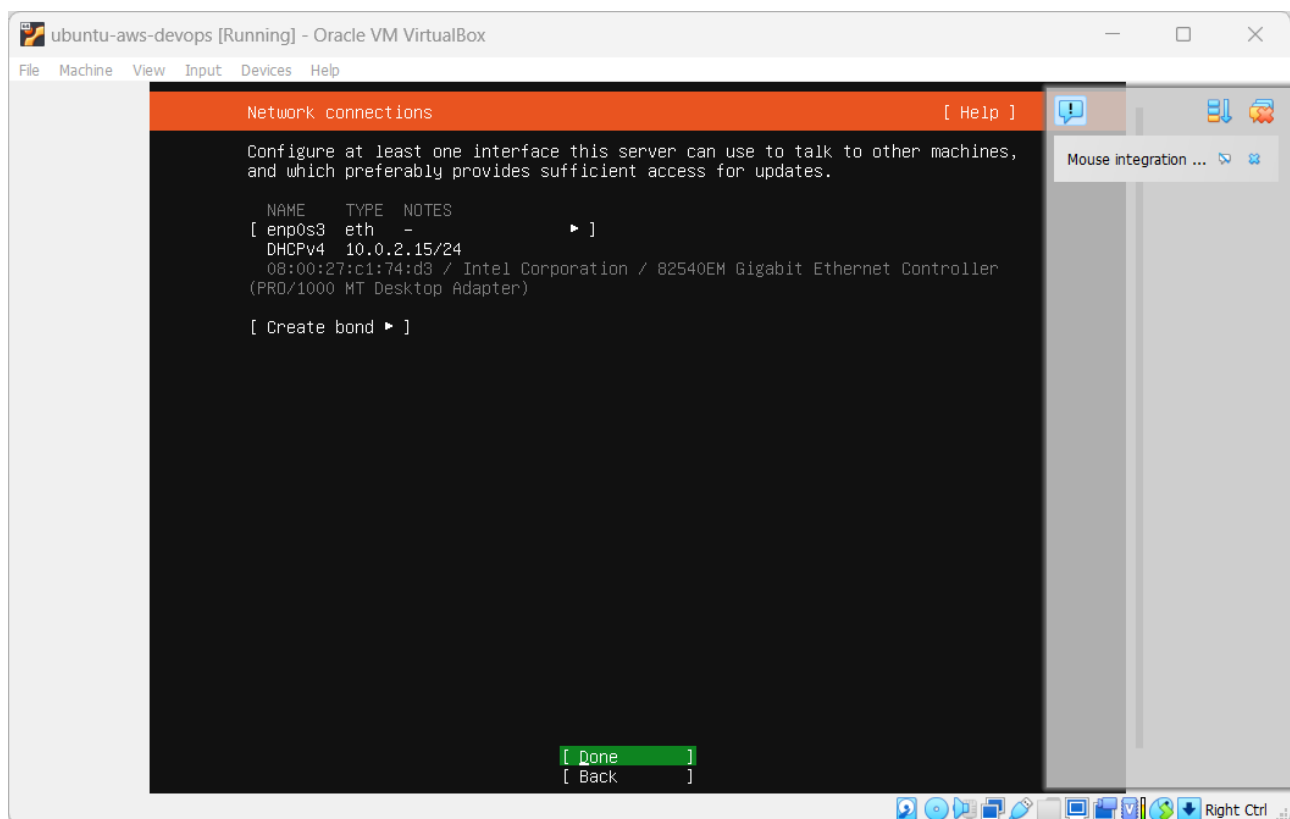


Press Enter to click Done.

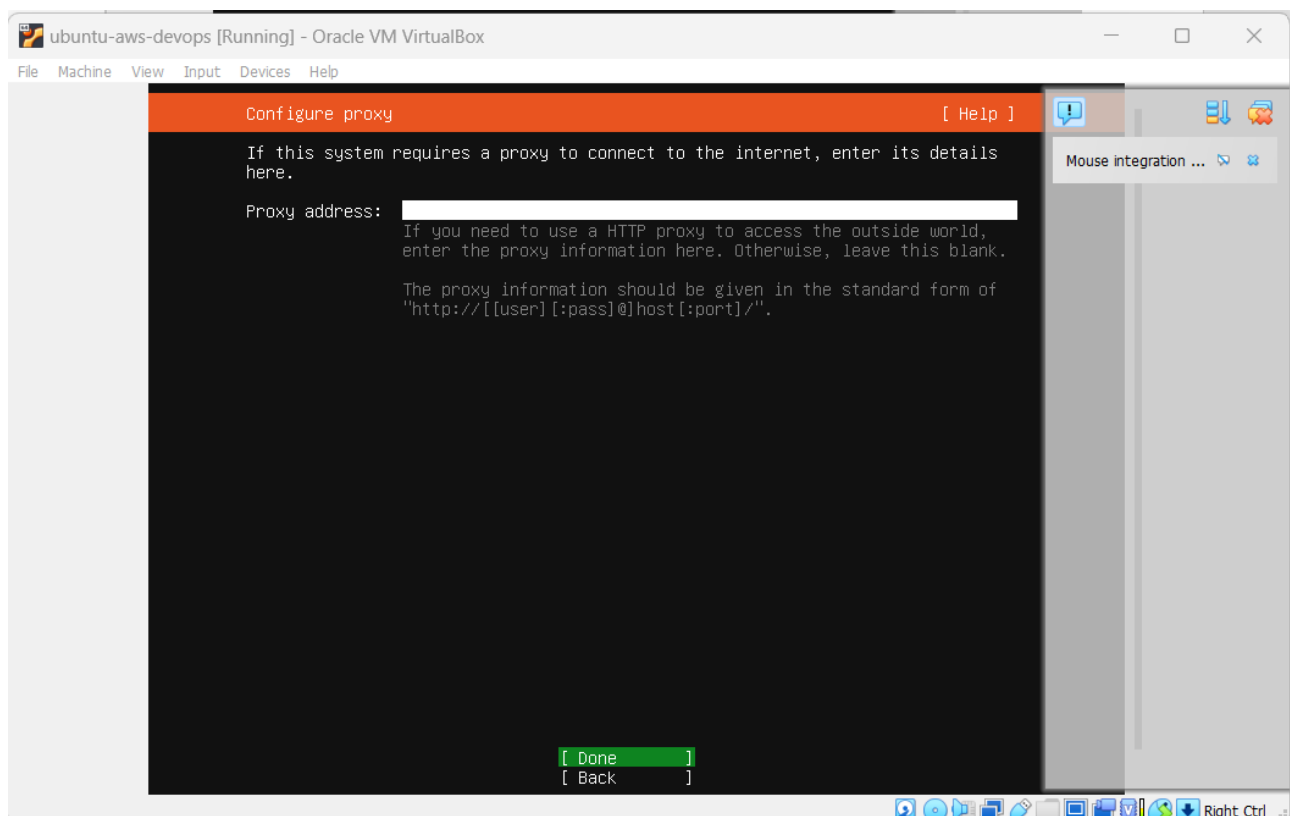




Press Enter to click Done.

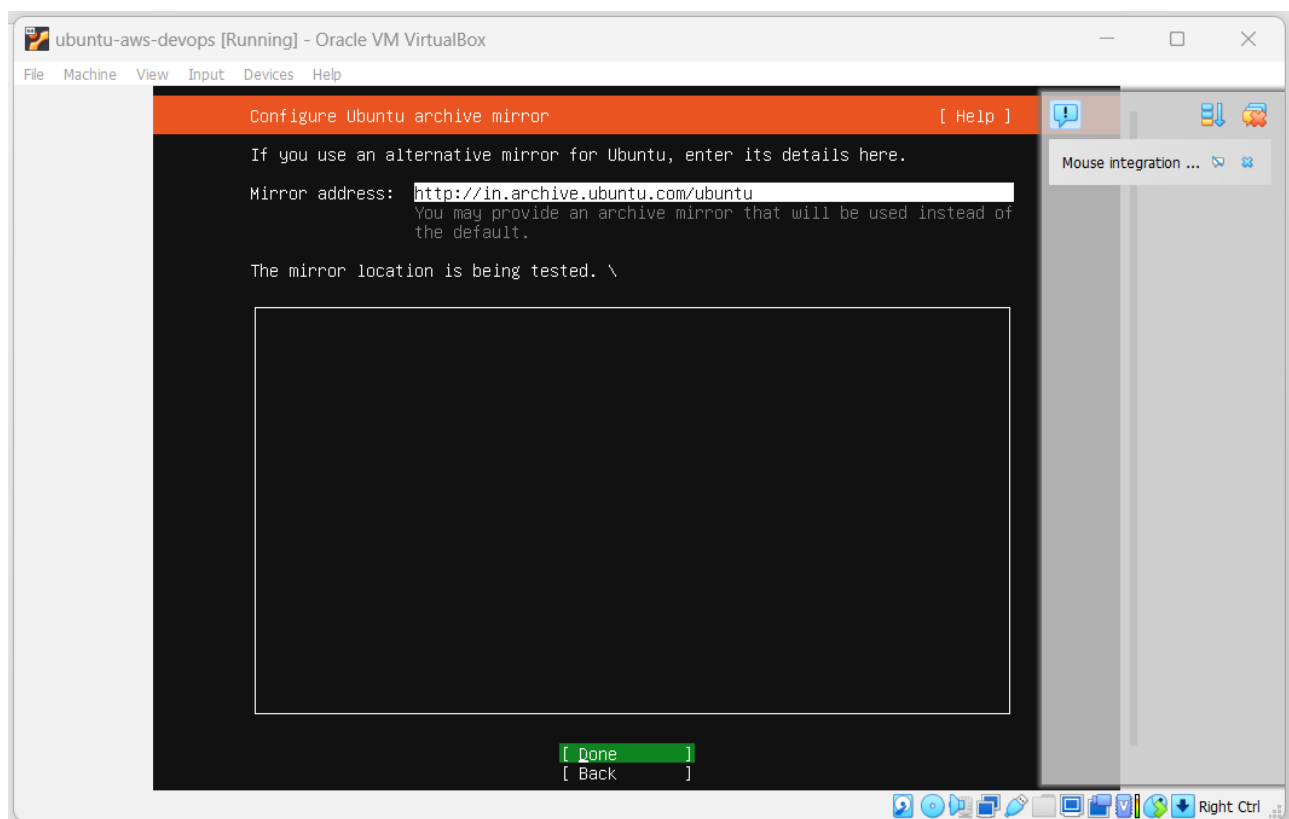


Don't modify anything. Press Enter to click Done.

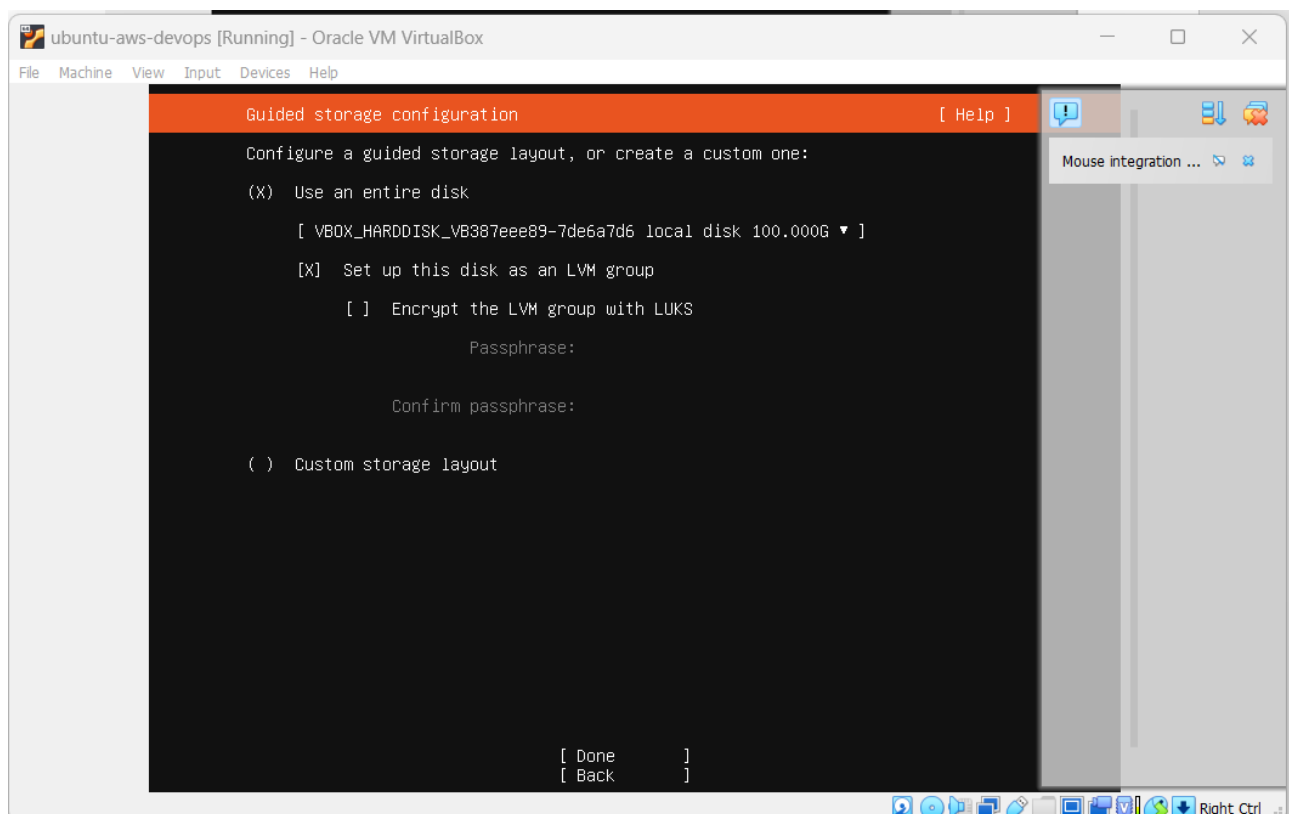




Don't modify anything. Press Enter to click Done.

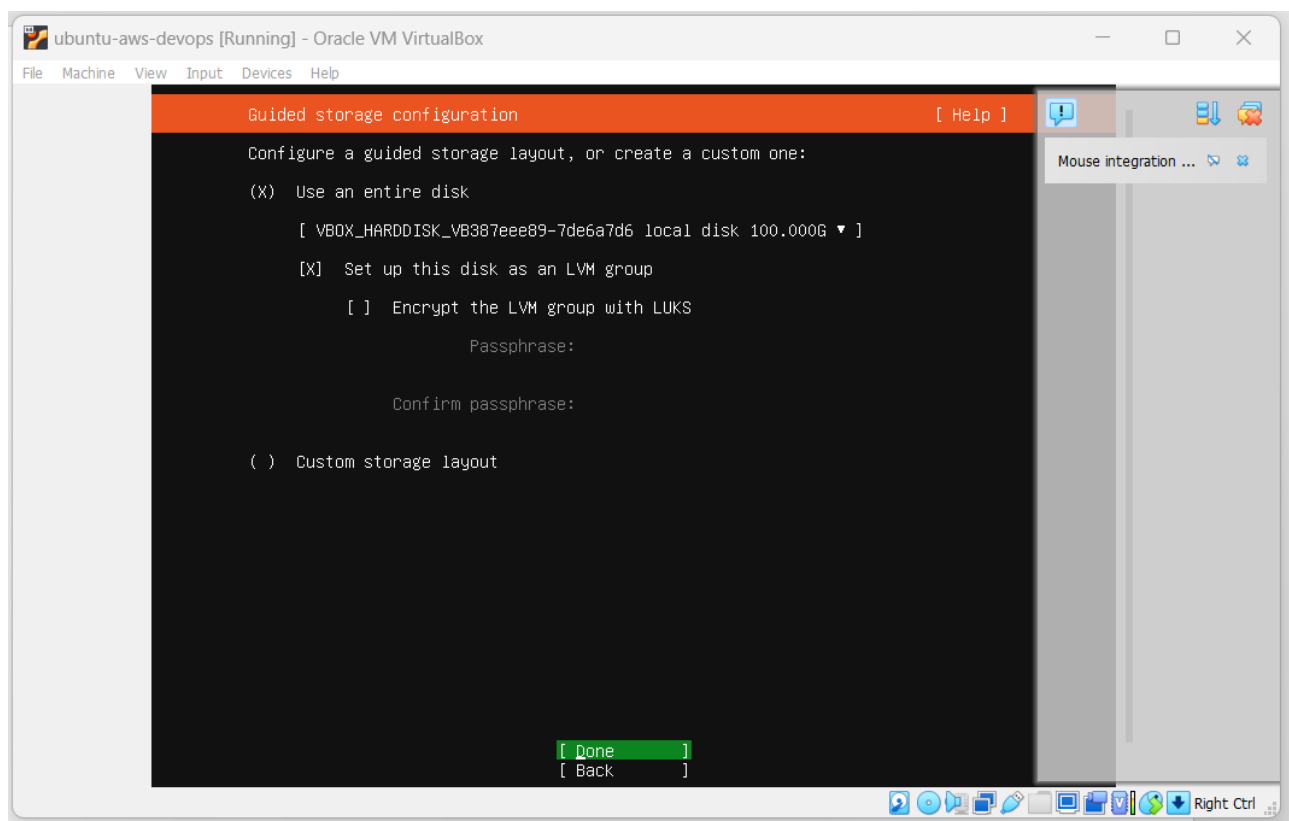


Don't modify anything. Using down arrow key select Done and press enter.

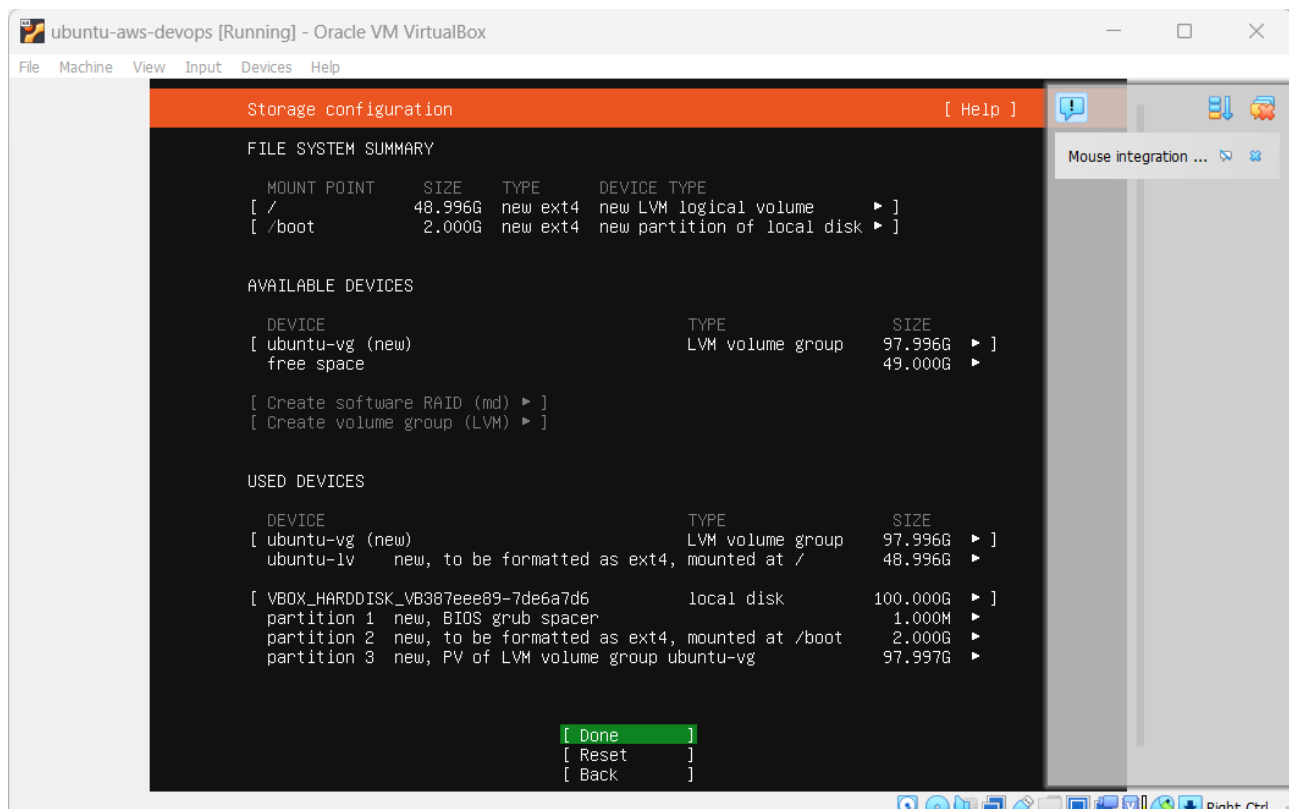




Click Enter to select done.

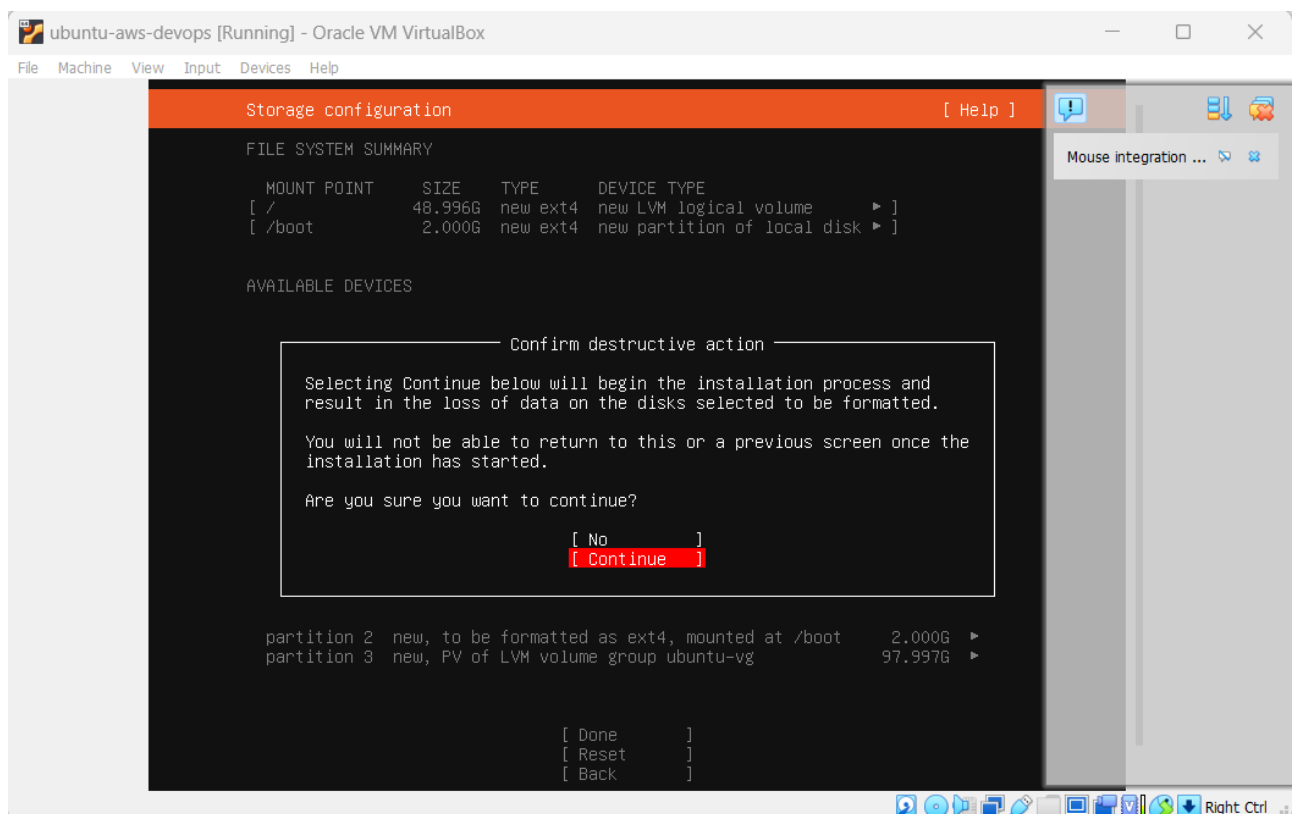


Don't modify anything, click enter to select Done.

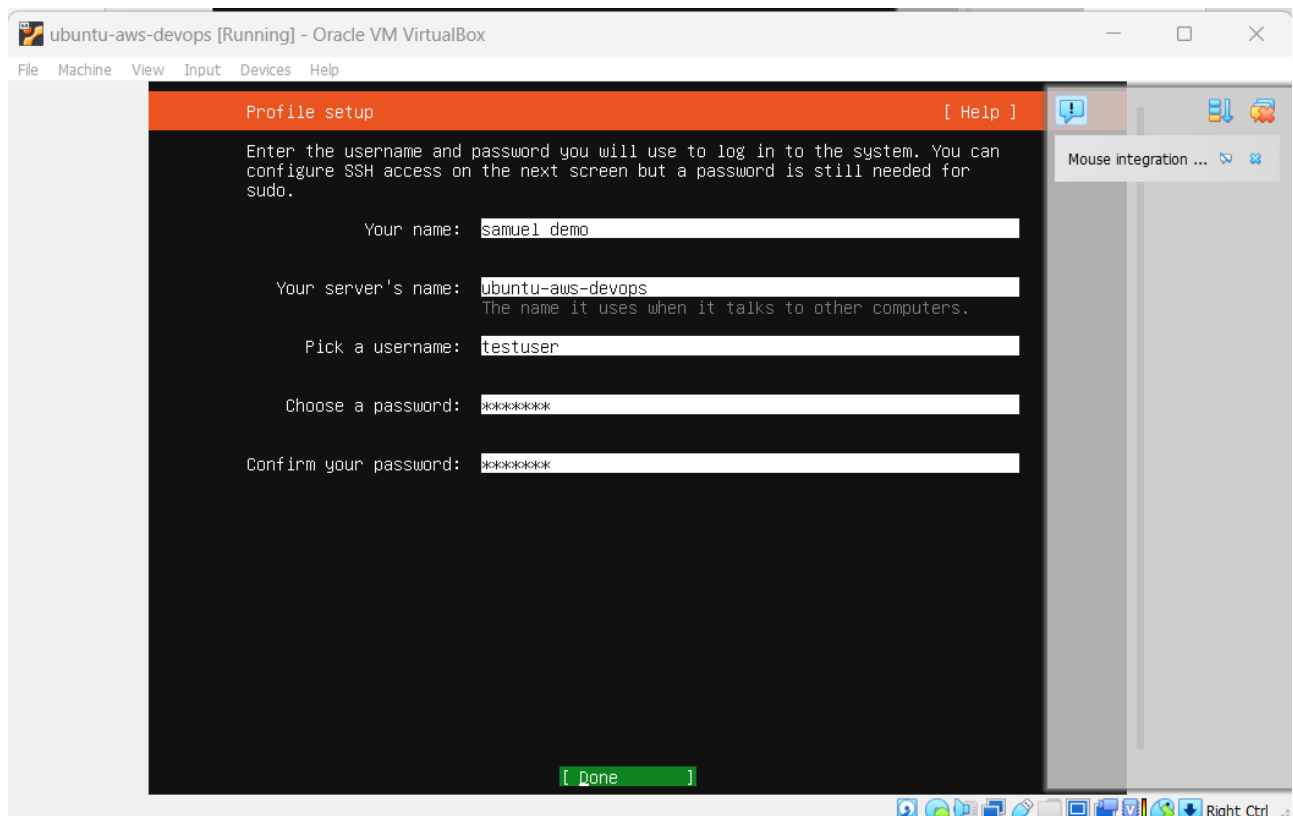




Use the down arrow key to select Continue and press enter.

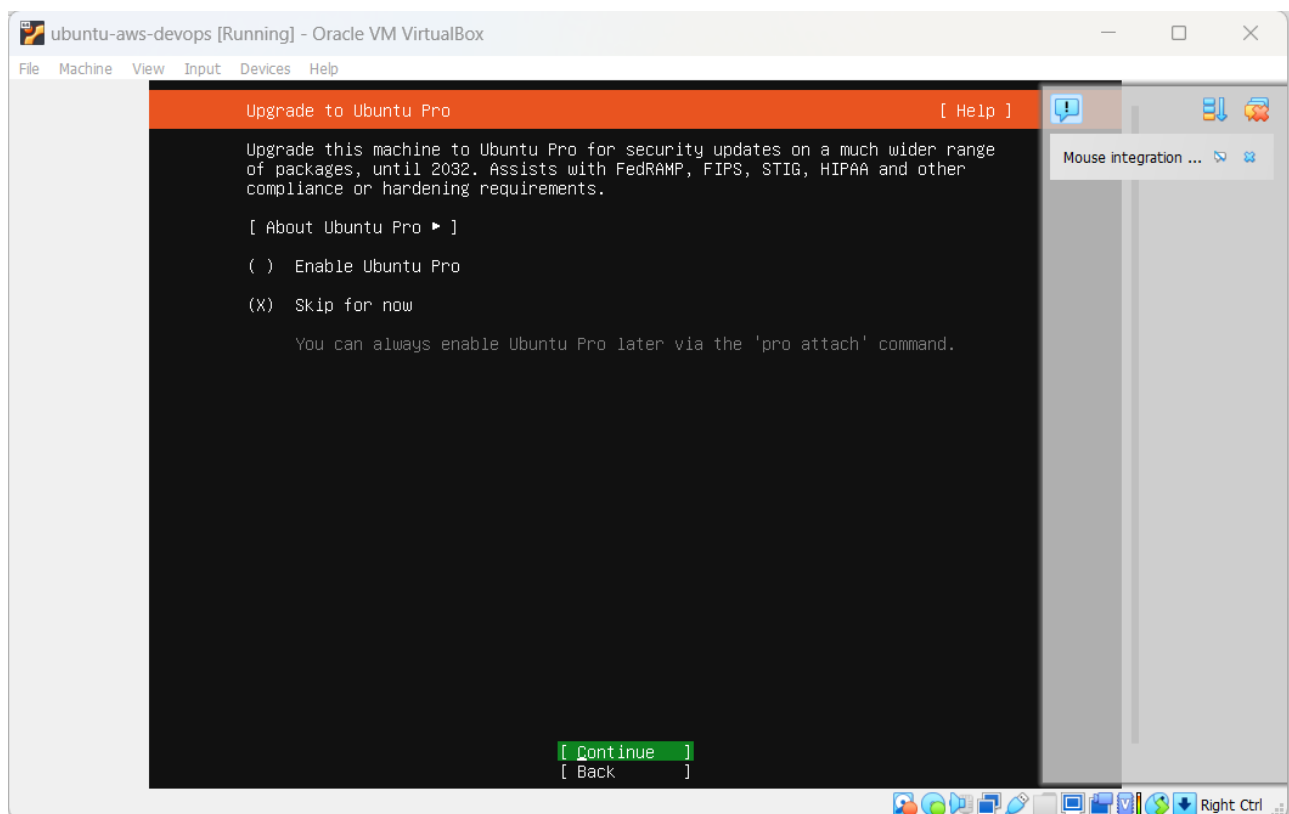


Provide your Name, server name, username and password details as shown below. And press enter to select Done.

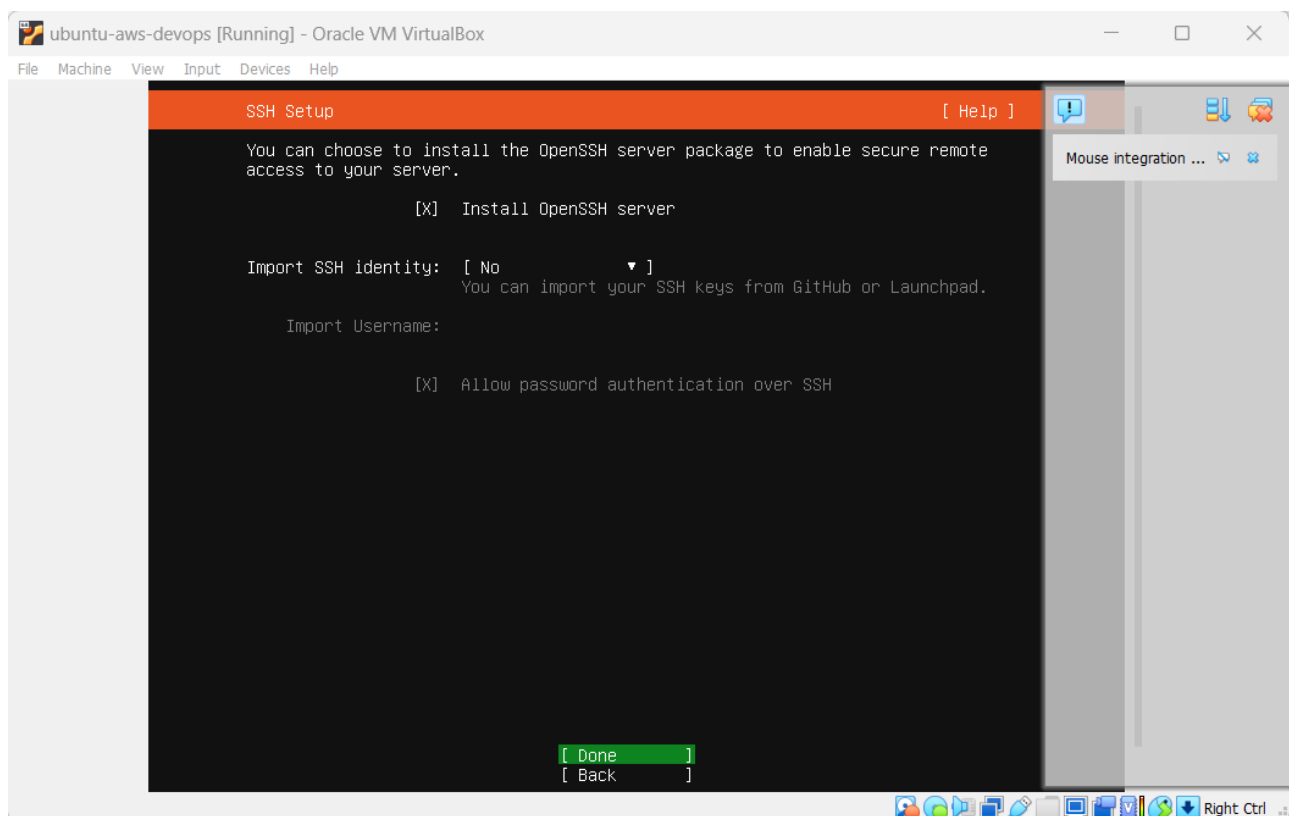




Don't modify anything, press enter to select Continue.



Use the spacebar to select the option “Install OpenSSH server” and select Done using the down arrow key and press enter.





Don't select any option using down arrow key select Done and press enter.

The screenshot shows a terminal window titled 'ubuntu-aws-devops [Running] - Oracle VM VirtualBox'. The terminal displays a list of 'Featured Server Snaps' with their descriptions. At the bottom, there are two options: '[Done]' and '[Back]'. The '[Done]' option is highlighted with a green background. The terminal text is as follows:

```
Featured Server Snaps [ Help ]

These are popular snaps in server environments. Select or deselect with SPACE,
press ENTER to see more details of the package, publisher and versions
available.

[ ] microk8s           Kubernetes for workstations and appliances
[ ] nextcloud          Nextcloud Server - A safe home for all your data
[ ] wekan              The open-source kanban
[ ] kata-containers    Build lightweight VMs that seamlessly plug into the c
[ ] docker             Docker container runtime
[ ] canonical-livepatch Canonical Livepatch Client
[ ] rocketchat-server  Rocket.Chat server
[ ] mosquitto          Eclipse Mosquitto MQTT broker
[ ] etcd               Resilient key-value store by CoreOS
[ ] powershell        PowerShell for every system!
[ ] stress-ng          tool to load and stress a computer
[ ] sabnzbd            SABnzbd
[ ] wormhole           get things from one computer to another, safely
[ ] aws-cli            Universal Command Line Interface for Amazon Web Servi
[ ] google-cloud-sdk   Google Cloud SDK
[ ] slcli              Python based SoftLayer API Tool.
[ ] doctl              The official DigitalOcean command line interface
[ ] conjure-up          Package runtime for conjure-up spells
[ ] postgresql10       PostgreSQL is a powerful, open source object-relatio
[ ] heroku             CLI client for Heroku
[ ] keepalived          High availability VRRP/BFD and load-balancing for Lin
[ ] prometheus          The Prometheus monitoring system and time series data
[ ] juju               Juju - a model-driven operator lifecycle manager for

[ Done ]
[ Back ]
```

Installation is in-progress.....

The screenshot shows the same terminal window, now displaying the 'Installing system' progress. The terminal text is as follows:

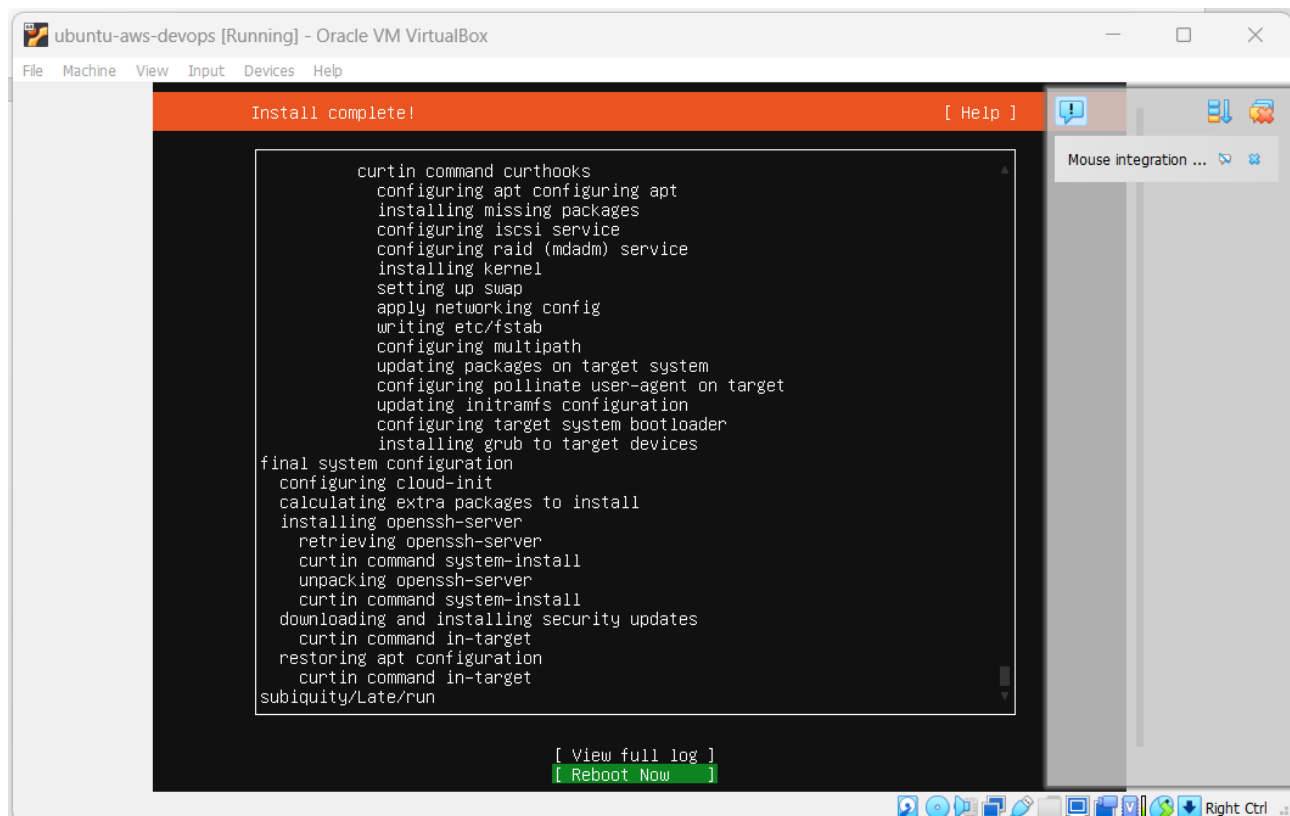
```
Installing system [ Help ]

configuring mount: mount-1
configuring mount: mount-0
executing curtin install extract step
  curtin command install
    writing install sources to disk
    running 'curtin extract'
    curtin command extract
    acquiring and extracting image from cp:///tmp/tmpfy60vhz0/mount
executing curtin install curthooks step
  curtin command install
    configuring installed system
    running 'curtin in-target -- setupcon --save-only'
    curtin command in-target
    running 'curtin curthooks'
    curtin command curthooks
      configuring apt
      installing missing packages
      configuring iscsi service
      configuring raid (mdadm) service
      installing kernel
      setting up swap
      apply networking config
      writing etc/fstab
      configuring multipath
      updating packages on target system
      configuring pollinate user-agent on target
      updating initramfs configuration
      configuring target system bootloader
      installing grub to target devices

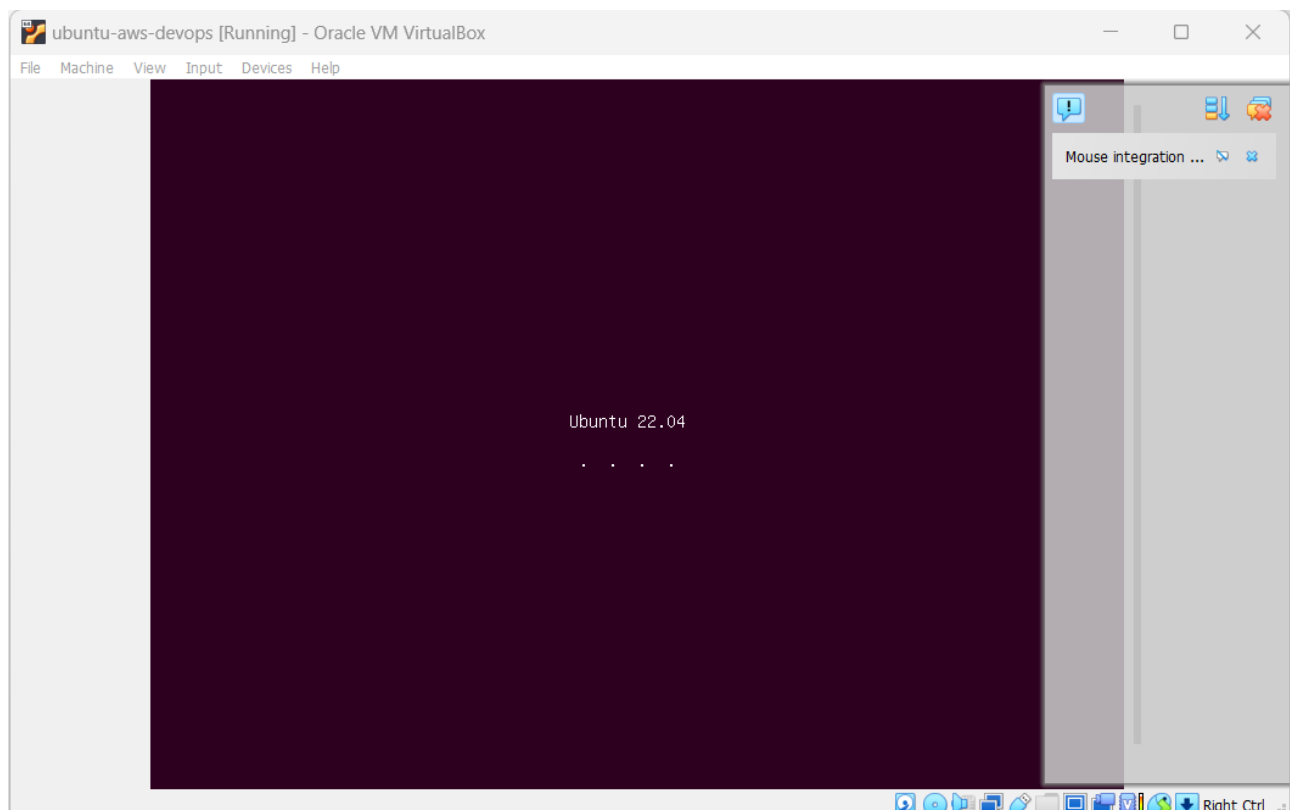
[ View full log ]
```



It will ask for “Reboot Now”, just press enter.



Reboot is In-progress.....



```

ubuntu-aws-devops [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[ 12.393838] cloud-init[646]: ci-info: | enp0s3 | True | 10.0.2.15 | 255.255.255.0 | global | 08:00:27:c1:74:d3 |
[ 12.397405] cloud-init[646]: ci-info: | enp0s3 | True | fe80::a00:27ff:fe00:0000 | 255.255.255.255 | link | 08:00:27:c1:74:d3 |
[ 12.400425] cloud-init[646]: ci-info: | lo | True | 127.0.0.1 | 255.0.0.0 | host |
[ 12.403440] cloud-init[646]: ci-info: | lo | True | ::1 | 128.0.0.0 | host |
[ 12.408001] cloud-init[646]: ci-info: +-----+-----+-----+-----+
[ 12.421710] cloud-init[646]: ci-info: +-----+-----+-----+-----+Route IPv4 info+-----+-----+
[ 12.424787] cloud-init[646]: ci-info: +-----+-----+-----+-----+
+-----+-----+-----+-----+
[ 12.427468] cloud-init[646]: ci-info: | Route | Destination | Gateway | Genmask | Inter
face | Flags |
[ 12.430401] cloud-init[646]: ci-info: +-----+-----+-----+-----+
+-----+-----+-----+-----+
[ 12.432950] cloud-init[646]: ci-info: | 0 | 0.0.0.0 | 10.0.2.2 | 0.0.0.0 | enp
0s3 | UG |
[ 12.435983] cloud-init[646]: ci-info: | 1 | 10.0.2.0 | 0.0.0.0 | 255.255.255.0 | enp
0s3 | U |
[ 12.452921] cloud-init[646]: ci-info: | 2 | 10.0.2.2 | 0.0.0.0 | 255.255.255.255 | enp
0s3 | UH |
[ 12.456684] cloud-init[646]: ci-info: | 3 | 192.168.29.1 | 10.0.2.2 | 255.255.255.255 | enp
0s3 | UGH |
[ 12.459882] cloud-init[646]: ci-info: +-----+-----+-----+-----+
+-----+-----+-----+-----+
[ 12.462346] cloud-init[646]: ci-info: +-----+-----+-----+-----+Route IPv6 info+-----+-----+
[ 12.463705] cloud-init[646]: ci-info: +-----+-----+-----+-----+
[ 12.465243] cloud-init[646]: ci-info: | Route | Destination | Gateway | Interface | Flags |
[ 12.466584] cloud-init[646]: ci-info: +-----+-----+-----+-----+
+-----+-----+-----+-----+
[ 12.468095] cloud-init[646]: ci-info: | 1 | fe80::/64 | :: | enp0s3 | U |
[ 12.469701] cloud-init[646]: ci-info: | 3 | local | :: | enp0s3 | U |
[ 12.471406] cloud-init[646]: ci-info: | 4 | multicast | :: | enp0s3 | U |
[ 12.473021] cloud-init[646]: ci-info: +-----+-----+-----+-----+
+-----+-----+-----+-----+

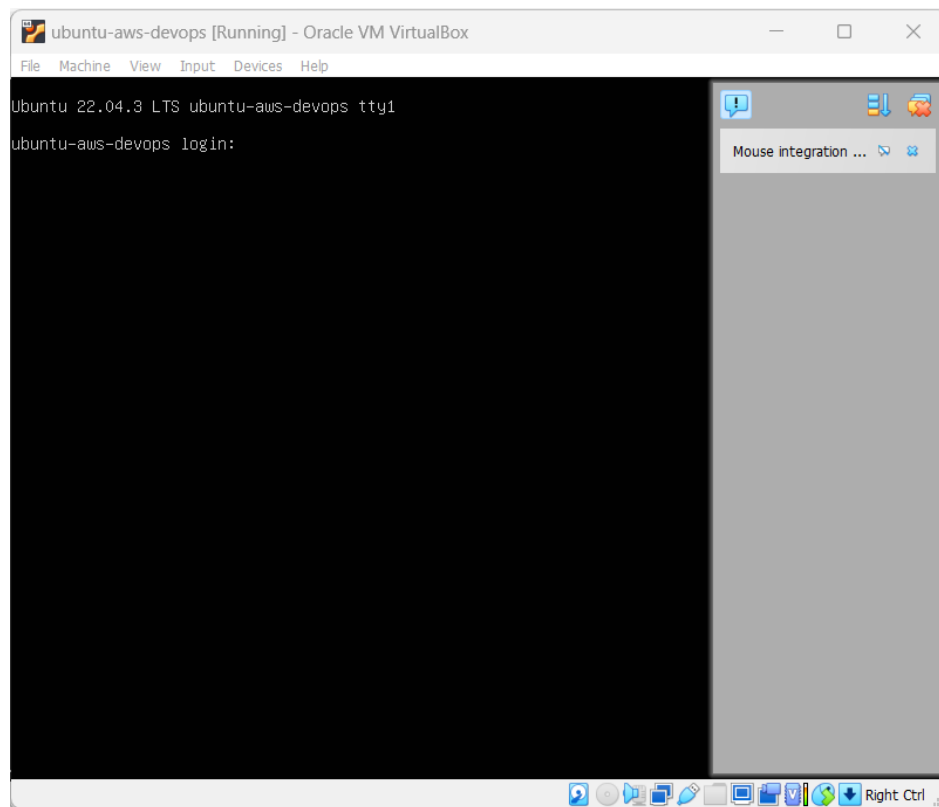
```

Just press enter once you see the below screen. Then it will ask for login details.

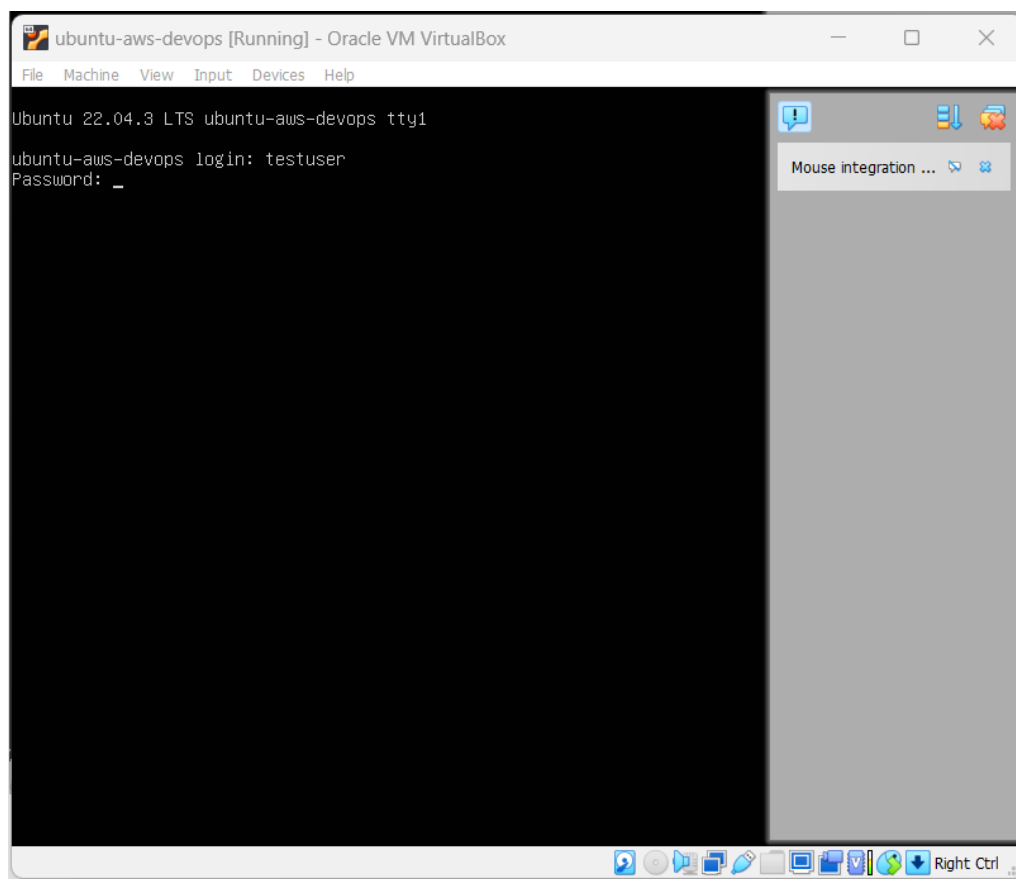
```

ubuntu-aws-devops [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Starting Execute cloud user/final scripts...
Starting Record Runlevel Change in UTM...
[ OK ] Finished Record Runlevel Change in UTM.
[ 31.151415] cloud-init[1344]: Cloud-init v. 23.2.1-0ubuntu0~22.04.1 running on Sun, 13 Aug 2023 18:51:51 +0000. Up 31.09 seconds.
ci-info: no authorized SSH keys fingerprints found for user testuser.
<14>Aug 13 18:51:52 cloud-init: #####
<14>Aug 13 18:51:52 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Aug 13 18:51:52 cloud-init: 1024 SHA256:SE6PAkbEWEJqvU7Vb1wX8DF7Unr7MaYAS5fg+EMrhno root@ubuntu-aws-devops (DSA)
<14>Aug 13 18:51:52 cloud-init: 256 SHA256:6vrJhuyam3HoG7/pCP9pN+pA+mGe1VTe/kbQQF2L9Sg root@ubuntu-aws-devops (ECDSA)
<14>Aug 13 18:51:52 cloud-init: 256 SHA256:+UGmKn8FaqPUHDYpqcRzgFmSz3LgeM/cjR5AG/yHU/g root@ubuntu-aws-devops (ED25519)
<14>Aug 13 18:51:52 cloud-init: 3072 SHA256:w9ylnHfvcn7rT/YMYq3Ebyg90jpT6LCZ/pG6RgyVIw root@ubuntu-aws-devops (RSA)
<14>Aug 13 18:51:52 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Aug 13 18:51:52 cloud-init: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBIrviXEkYHjDRgYVjPrk1PVEDIoE9K3B2ccsk8mYITrdcEhN751r2YH55BXRQgyEwMXmkElp86cLX2mPFIXPbJc= root@ubuntu-aws-devops
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIH1kpuFO+0TWRI+5DIHJzFrE4/QqV50GA1B7rL+y5L2v root@ubuntu-aws-devops
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCNCJczGBKh8Nuhvem1f040tabzXd0e0+++H01cXaVHZc8AG0HrJf23dkLp6QUf3urtzBNHMEjfrEba2D6mBTTH7f65LCBY/eW2EFf1I/xUgcVESA/IA66z5p4RHavymGsvmXS9Z29JogOkAJF2h0j8kz2bJ6IU8LFN1Pf2If60BGcg7KphDrIxZAIWuK8Hd17nYuYAbUbyjgqexaaX5g2b2kvELAAoz+193Pr9r12bIbrAMCn8HBW6T1f72h/NQ0IKuJ7+VGy4Qhkp32mUX78m4W5ASz1twf0JzYgGFpdsPK1L8TfwJbK+RCaVuE38dzgeARbwtQFPvxSmX3/fC2g41F+B2bD+HIVk11WSGB1buJrESk6QbK1LB8aTbCNDqgb5LIJ1ezmF2T1Gqg5vQqpnF8RdU/maB5yasX+Nuhbnu1FX4VI/S7fsVwXc1L+zVDEF5fEDPBd2MngJtdXiNP1SPJvf0VswQ3g4hmNfAfEAs+BxeN7uzYpNgBUMvr1jLA0Sc= root@ubuntu-aws-devops
-----END SSH HOST KEY KEYS-----
[ 31.404073] cloud-init[1344]: Cloud-init v. 23.2.1-0ubuntu0~22.04.1 finished at Sun, 13 Aug 2023 18:51:52 +0000. Datasource DataSourceNone. Up 31.39 seconds
[ 31.408103] cloud-init[1344]: 2023-08-13 18:51:52,198 - cc_final_message.py[WARNING]: Used fallback check datasource
[ OK ] Finished Execute cloud user/final scripts.
[ OK ] Reached target Cloud-init target.

```



Provide the username and password that we provided at the installation time as shown below.





We can see the below screen after login.

```
ubuntu-aws-devops [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

ubuntu-aws-devops login: testuser
Password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-78-generic x86_64)

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

System information as of Sun Aug 13 06:54:23 PM UTC 2023

System load:  0.0595703125   Processes:            116
Usage of /:   10.1% of 47.93GB Users logged in:          0
Memory usage: 11%           IPv4 address for enp0s3: 10.0.2.15
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

3 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.

testuser@ubuntu-aws-devops:~$
```

Congratulations! We have successfully installed the Ubuntu server.

```
ubuntu-aws-devops [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

System load:  0.0595703125   Processes:            116
Usage of /:   10.1% of 47.93GB Users logged in:          0
Memory usage: 11%           IPv4 address for enp0s3: 10.0.2.15
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

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

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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.

testuser@ubuntu-aws-devops:~$ whoami
testuser
testuser@ubuntu-aws-devops:~$ ping google.com
PING google.com (142.250.195.238) 56(84) bytes of data:
64 bytes from maa03s43-in-f14.1e100.net (142.250.195.238): icmp_seq=1 ttl=52 time=52.2 ms
64 bytes from maa03s43-in-f14.1e100.net (142.250.195.238): icmp_seq=2 ttl=52 time=256 ms
64 bytes from maa03s43-in-f14.1e100.net (142.250.195.238): icmp_seq=3 ttl=52 time=46.4 ms
^C
--- google.com ping statistics ---
4 packets transmitted, 3 received, 25% packet loss, time 3142ms
rtt min/avg/max/mdev = 46.376/118.130/255.836/97.401 ms
testuser@ubuntu-aws-devops:~$
```