

TEAM: CCK-03

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Red Hat Enterprise Linux operating system

what is open-source software?

- ⇒ Open-source software is computer software that allows anyone to use, study, change and distribute it for any purpose without additional cost.

What is Linux?

- ⇒ Linux is an **open-source operating system** (OS). An operating system is the software that directly manages a system's hardware and resources, like CPU, memory, and storage. The OS sits between applications and hardware and makes the connections between all of your software and the physical resources that do the work.

what is red hat enterprise Linux operating system?

- ⇒ Red Hat Enterprise Linux (RHEL) is a Linux-based operating system (OS) designed for enterprise-class environments. It is built on top of the open-source Linux kernel and includes a range of software tools and applications to support business operations.

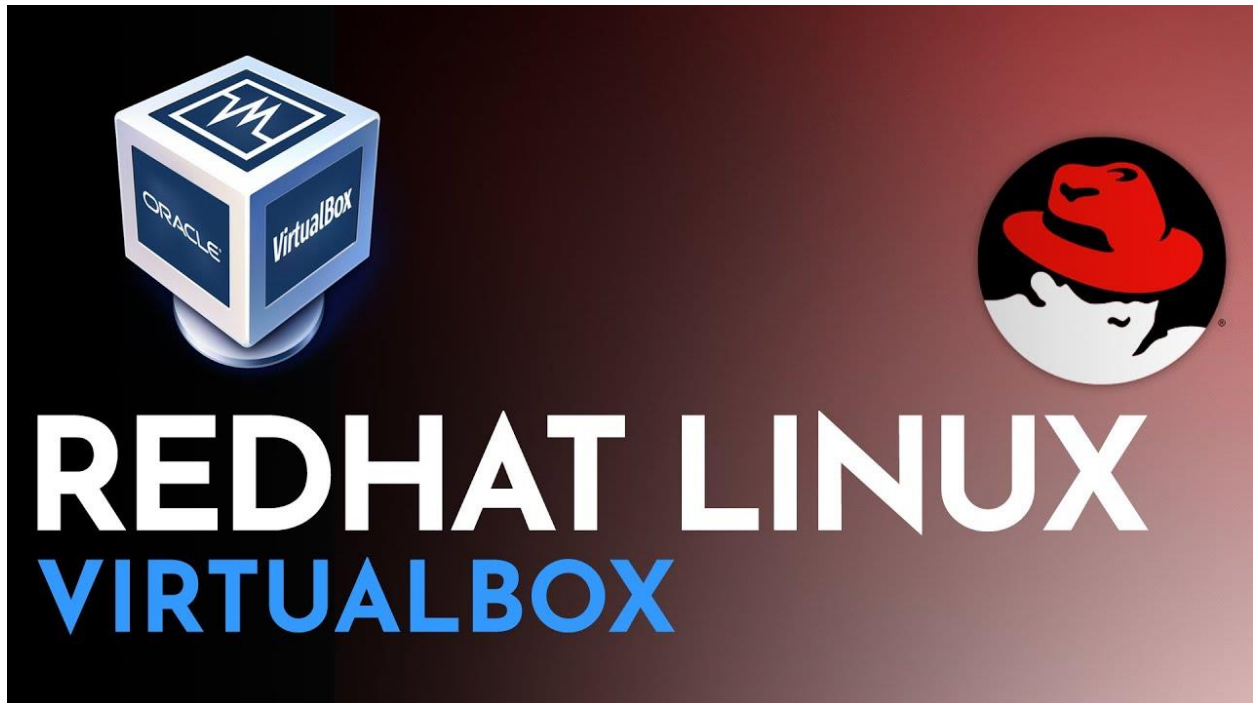
- ⇒ RHEL provides a stable and secure platform for running mission-critical applications and services. It offers features such as advanced security controls, system management tools, and high availability options, which are critical for enterprise environments where downtime can have severe consequences.

what is virtual box?

- ⇒ Oracle VM VirtualBox is a free and open-source virtualization platform that enables users to run multiple operating systems (OS) simultaneously on a single computer. It is a type 2 hypervisor, meaning it is installed on top of a host operating system and allows guest OS to be run in isolated virtual environments.

What is ISO file?

- ⇒ An ISO file (often called an ISO image) is an archive file that contains an identical copy (or image) of data found on an optical disc, like a CD or DVD.
- ⇒ The idea behind ISO images is that you can archive an exact digital copy of a disc, and then later use that image to burn a new disc that's in turn an exact copy of the original. Most operating systems (and many utilities) also allow you to mount an ISO image as a virtual disc, in which case all your apps treat it as if a real optical disc were inserted.



Step1: Download Virtual Box & Install it.

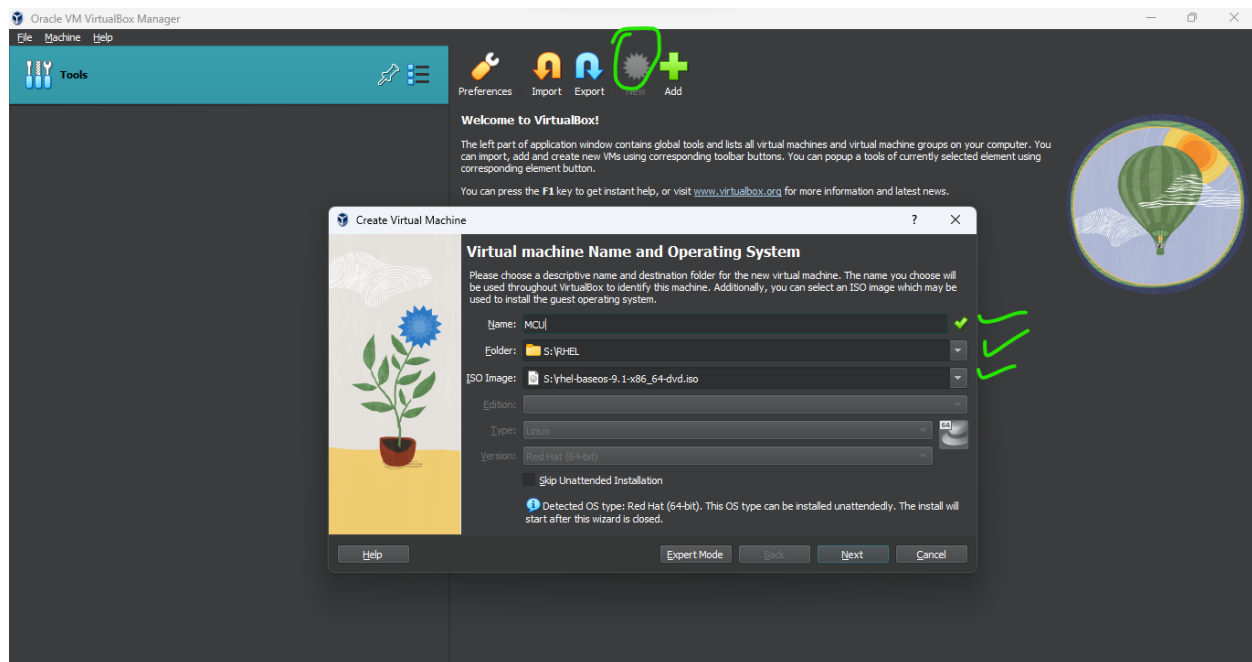
[Oracle VM VirtualBox - Downloads](#) | [Oracle Technology Network](#) | [Oracle](#)

Step2: Download Red Hat Enterprise Linux ISO format.

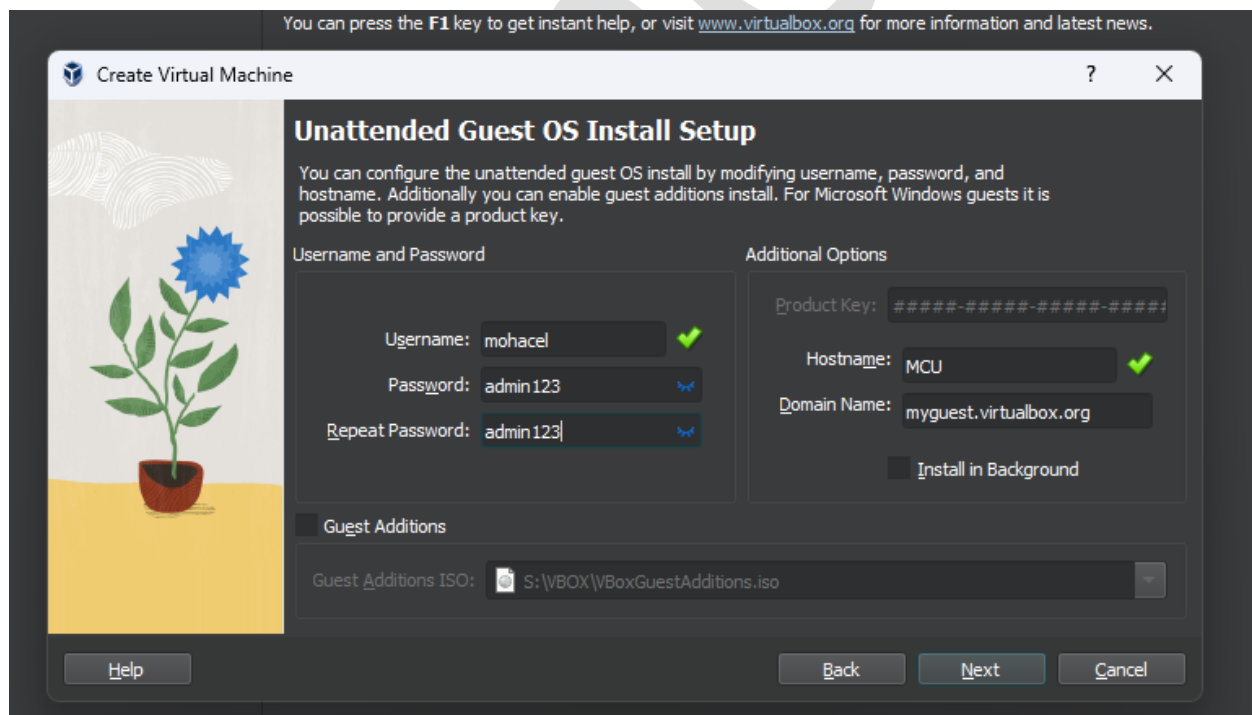
[Red Hat Enterprise Linux Download](#) | [Red Hat Developer](#)



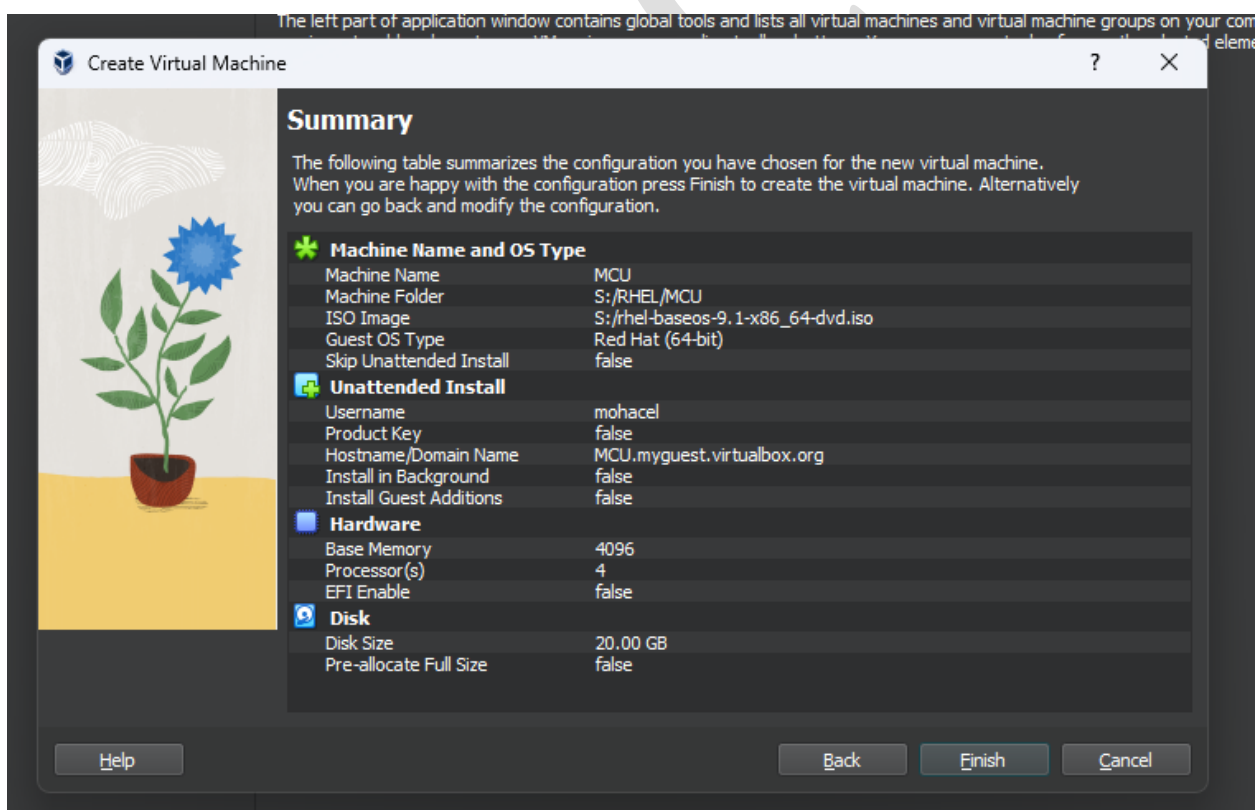
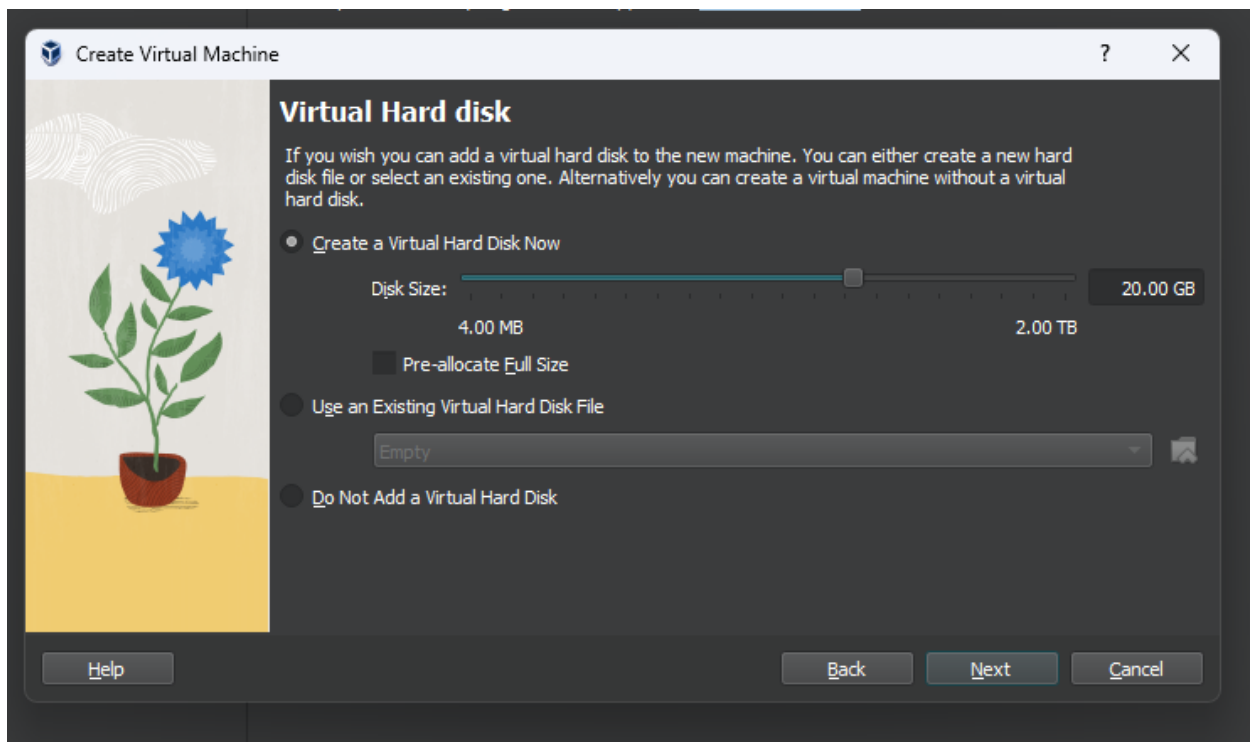
Step3.1: Open Virtual Box and click on “New”. Name your OS , select folder where you want to install and select iso file that you downloaded. Then click “Next.”



Step3.2: Set username and password then click “Next.”



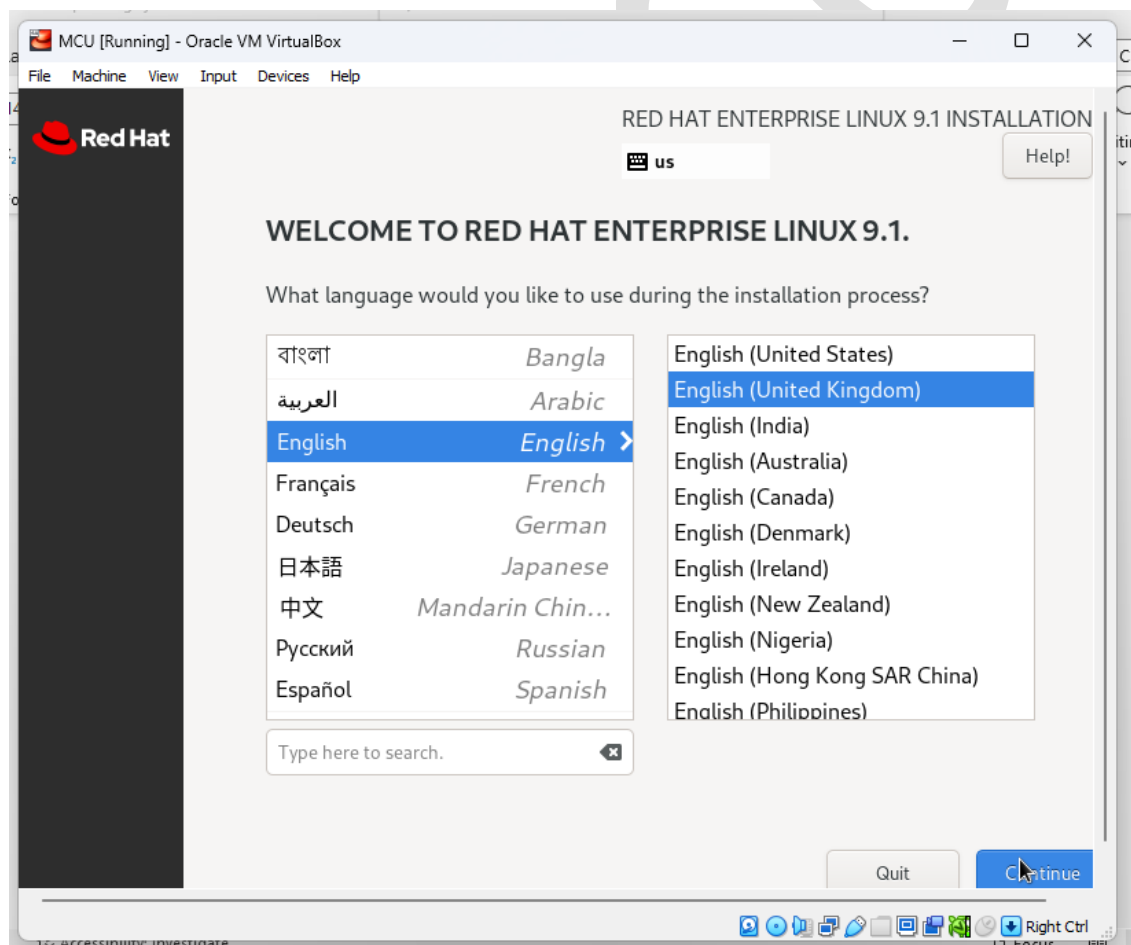
Step 3.3: Disk size Minimum 20 GB & processor 2/4



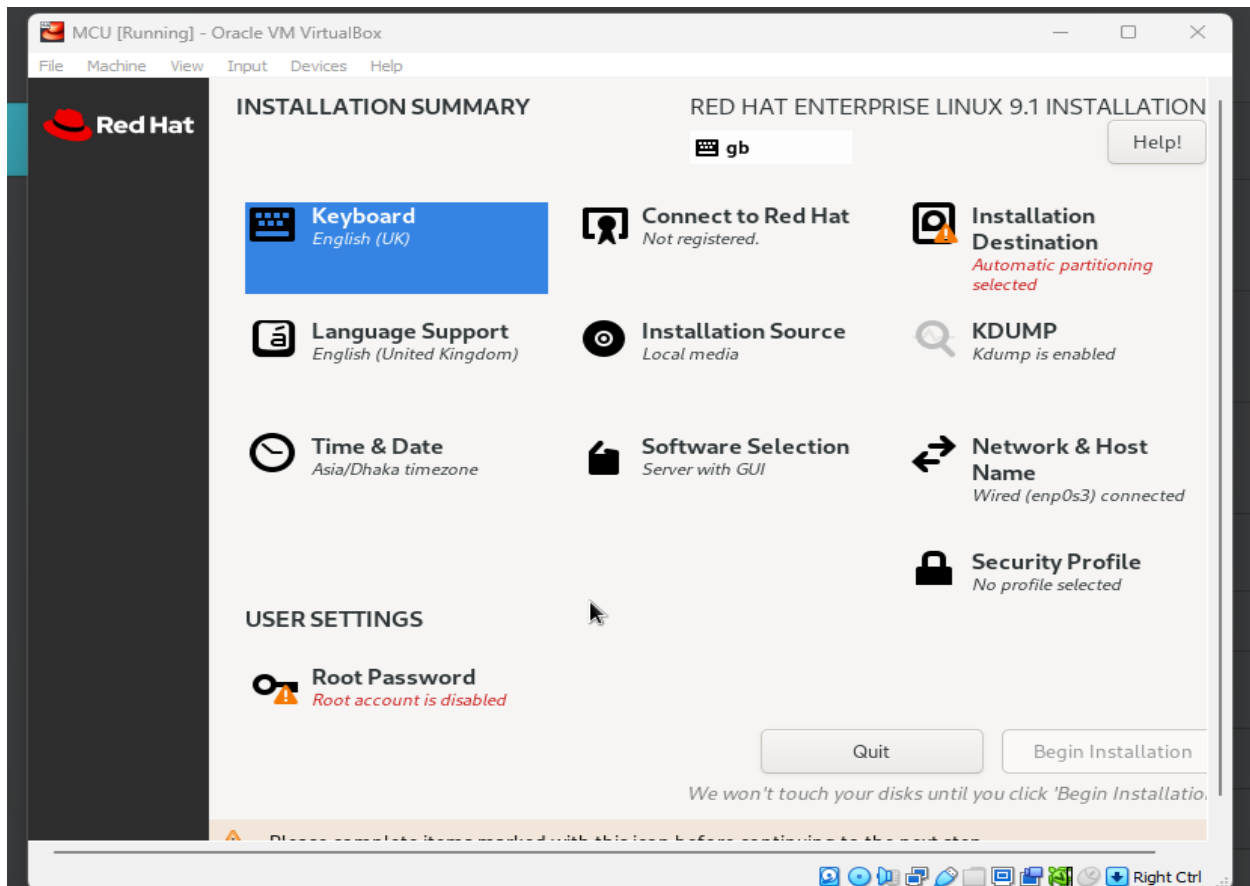
Step 4 : Select First one so that it starts install without media test.



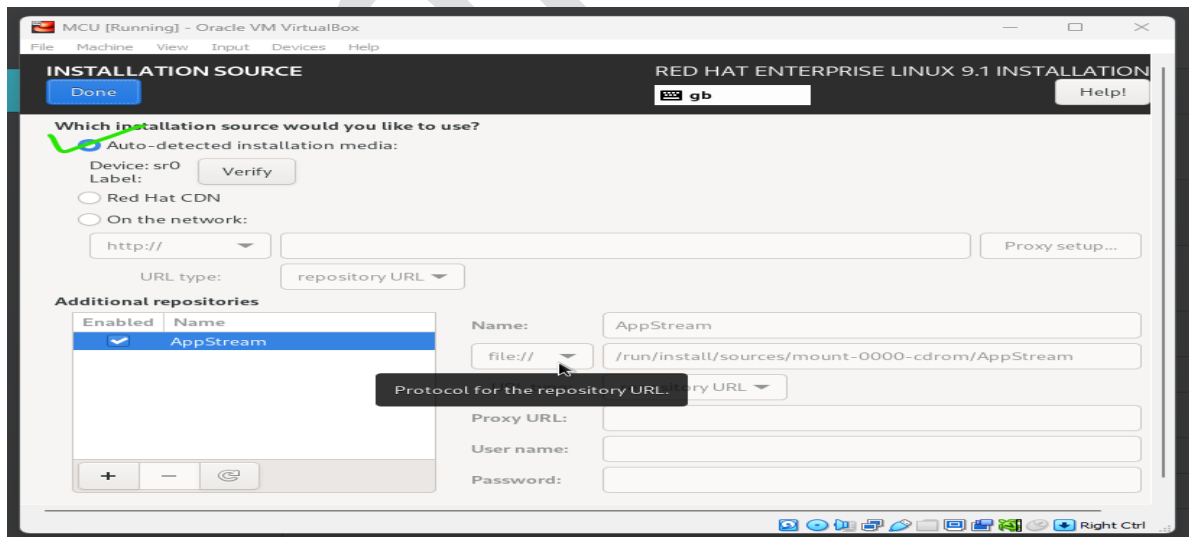
Step 5 : Select language.



Step 6.1 : Set keyboard layout, language, and Date Time.

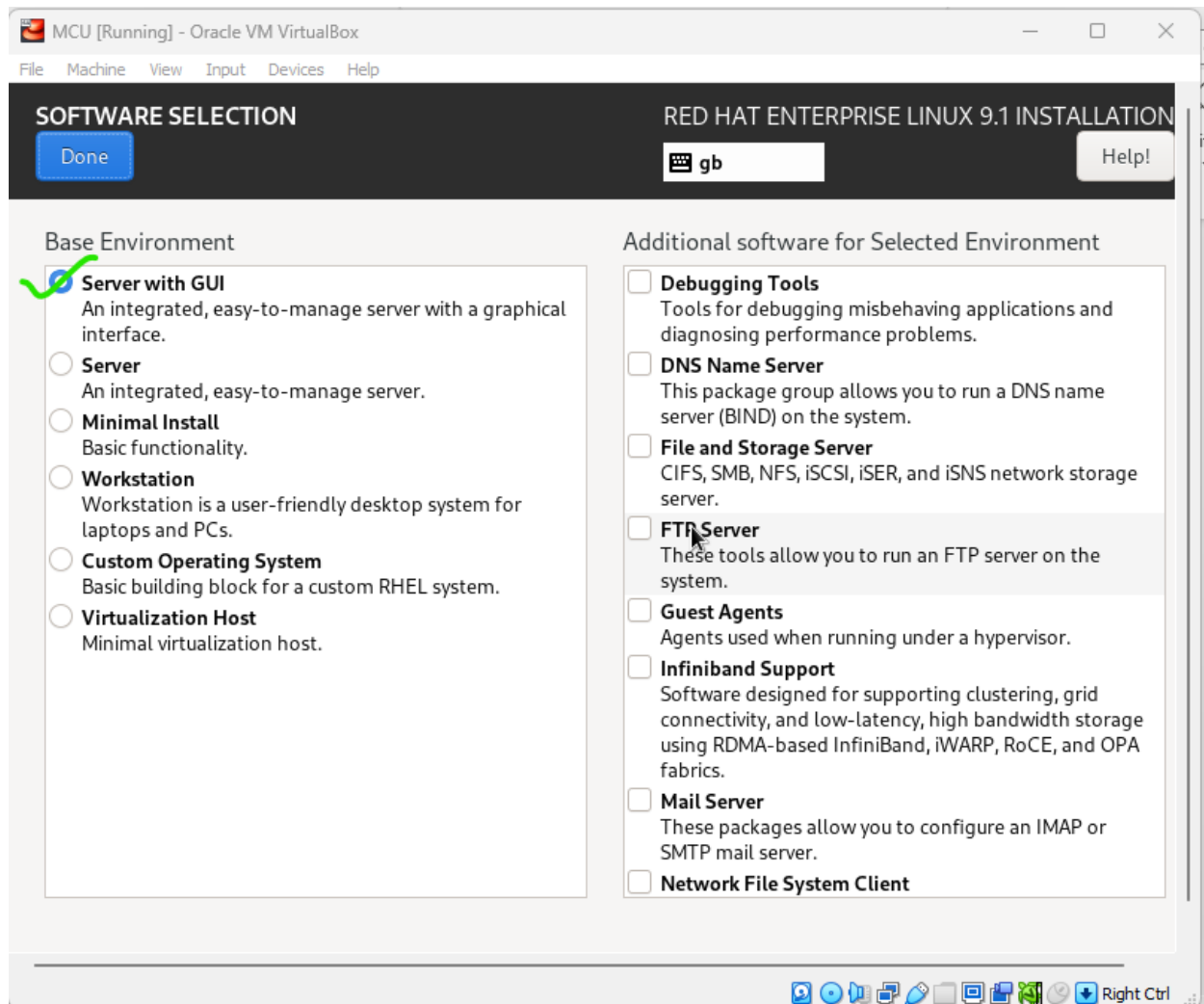


Step 6.2 : Installation source is “Auto” then click on “Done”
[we are installing from local iso]



Step 6.3 : Software Selection Server with GUI and then click on “Done”

[we are getting CLI+GUI]

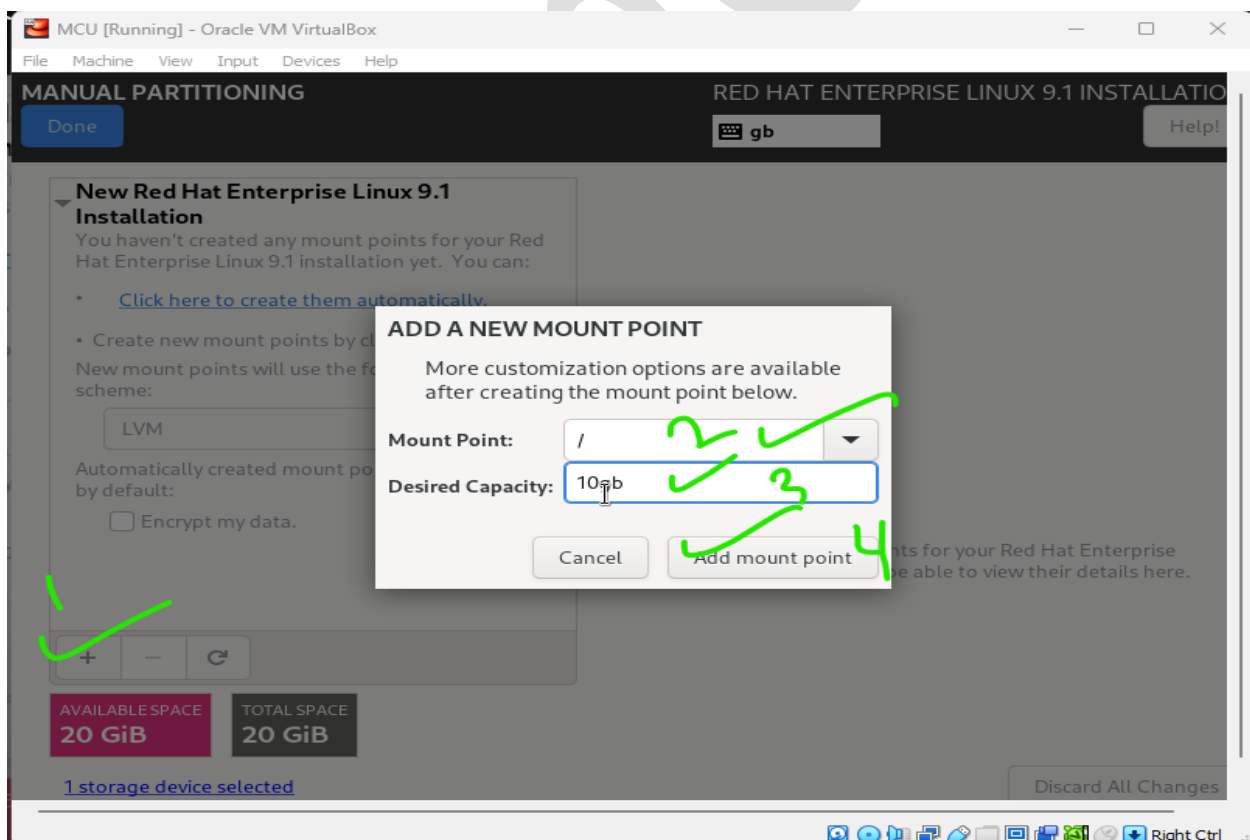
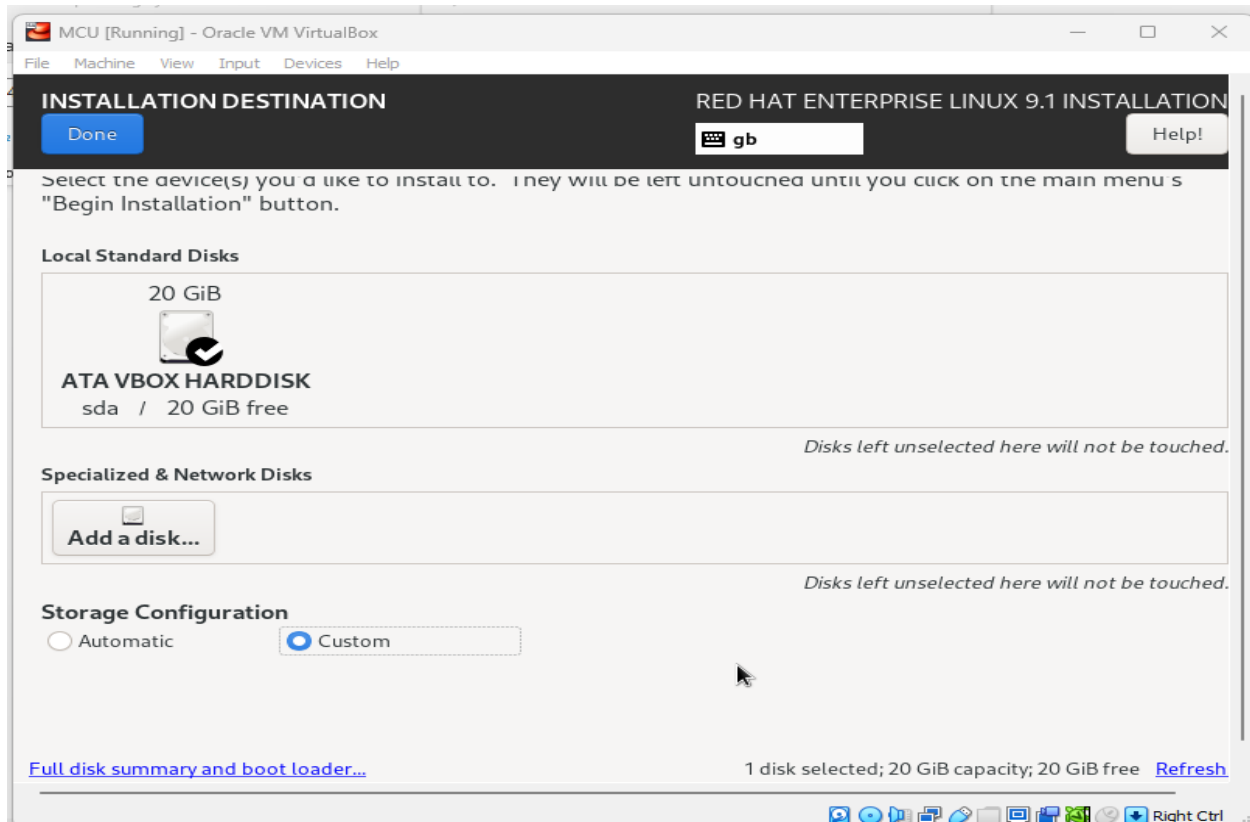


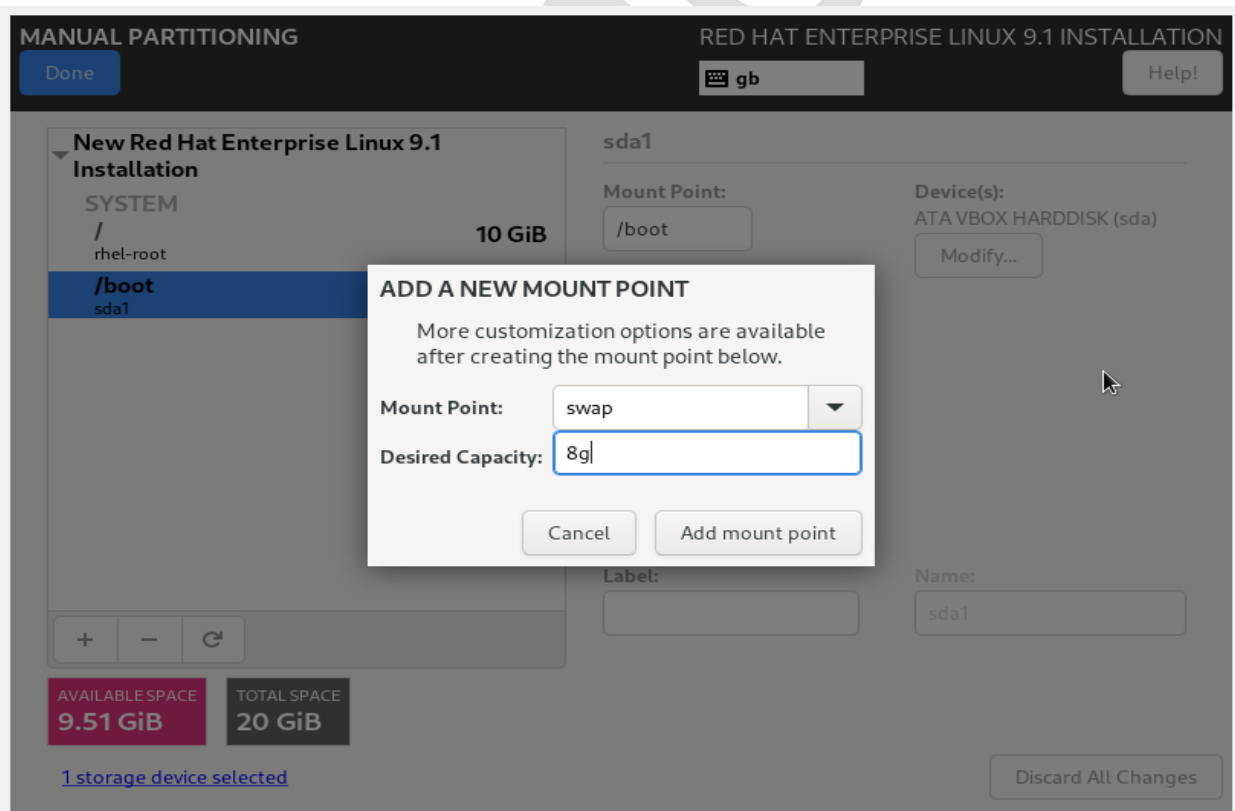
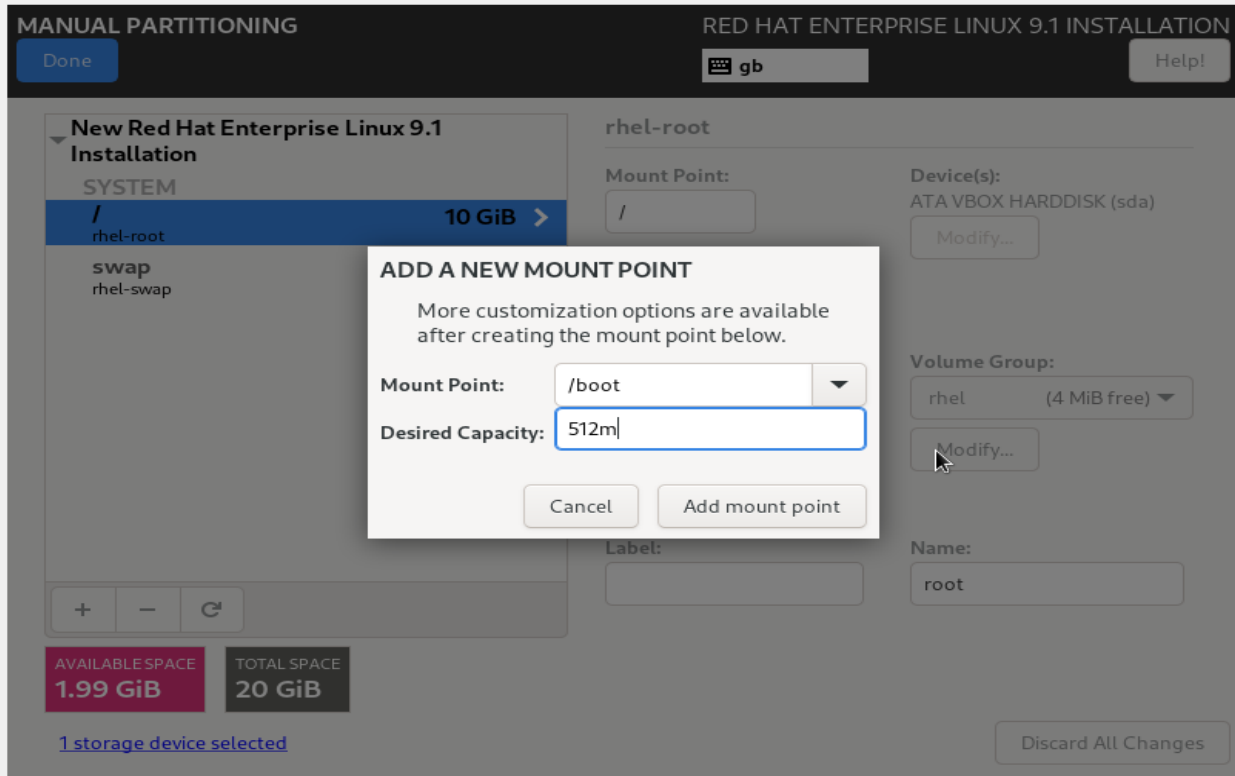
Step 6.4 : Installation Destination will be customs so that we can create our custom directory. Then click on “Done”.

[/= root directory minimum 10GB;

/boot=500mb;

/swap=double of your RAM]





MANUAL PARTITIONING

RED HAT ENTERPRISE LINUX 9.1 INSTALLATION

Done

gb

Help!

New Red Hat Enterprise Linux 9.1
Installation

SYSTEM

/	rhel-root	10 GiB >
/boot	sda1	512 MiB
swap	rhel-swap	8 GiB

+

-

↺

AVAILABLE SPACE

1.49 GiB

TOTAL SPACE

20 GiB

[1 storage device selected](#)

rhel-root

Mount Point:

/

Device(s):

ATA VBOX HARDDISK (sda)

Modify...

Desired Capacity:

10 GiB

Device Type:

LVM

☐ Encrypt

File System:

xfs

☒ Reformat

Volume Group:

rhel (4 MiB free)

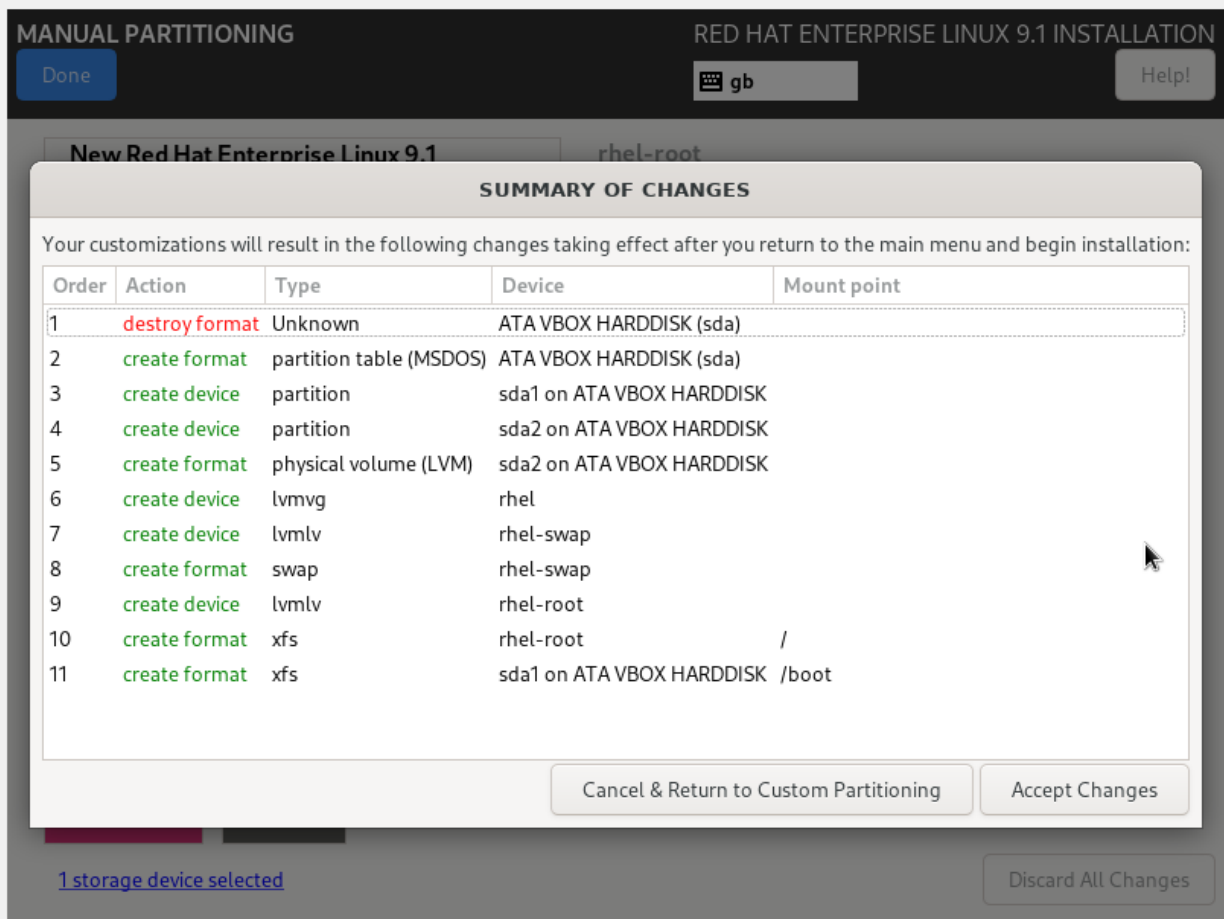
Modify...

Label:

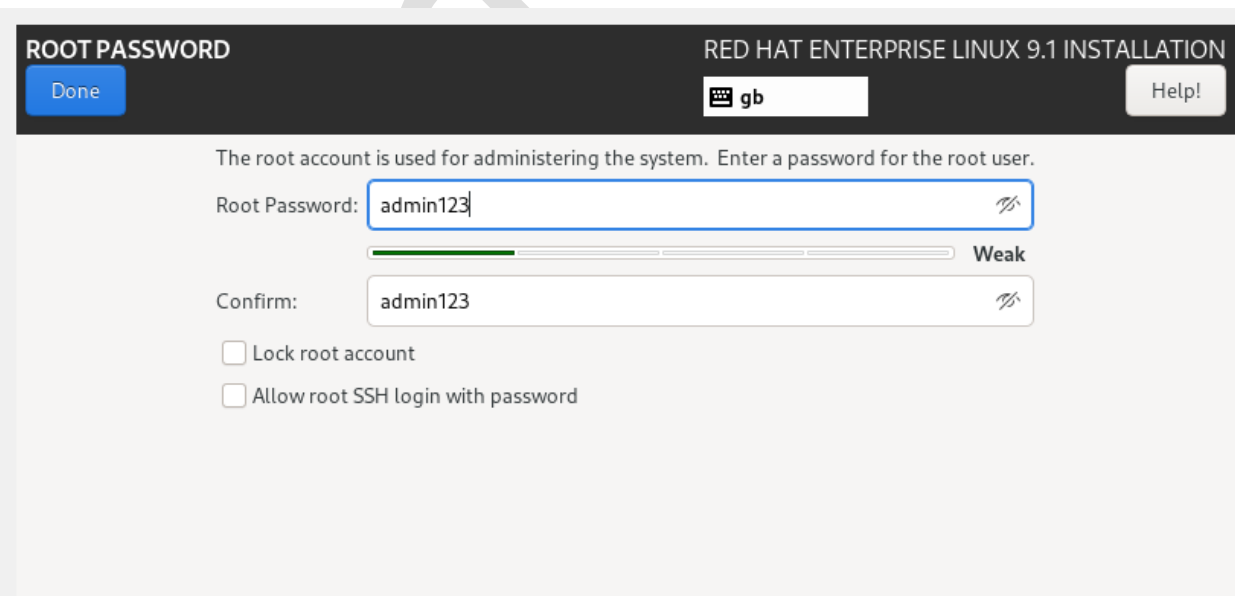
Name:

root

Discard All Changes



[KDUMP = Kernal Dump(in this log file tell us why kernel crash)]



CREATE USER

RED HAT ENTERPRISE LINUX 9.1 INSTALLATION

Done

gb

Help!

Full name

Mohacel Developer

User name

mohacel-dev

☐ Make this user administrator

☒ Require a password to use this account

Password


mohacel123

Good

Confirm password

mohacel123

Advanced...

 Red Hat

INSTALLATION SUMMARY

RED HAT ENTERPRISE LINUX 9.1 INSTALLATION


gb


Help!


LOCALIZATION


SOFTWARE


SYSTEM


 **Keyboard**
English (UK)


 **Connect to Red Hat**
Not registered.


 **Installation Destination**
Custom partitioning selected


 **Language Support**
English (United Kingdom)


 **Installation Source**
Local media

 **KDUMP**
Kdump is enabled


 **Time & Date**
Asia/Dhaka timezone

 **Software Selection**
Server with GUI


 **Network & Host Name**
Wired (enp0s3) connected

 **Security Profile**
No profile selected

USER SETTINGS

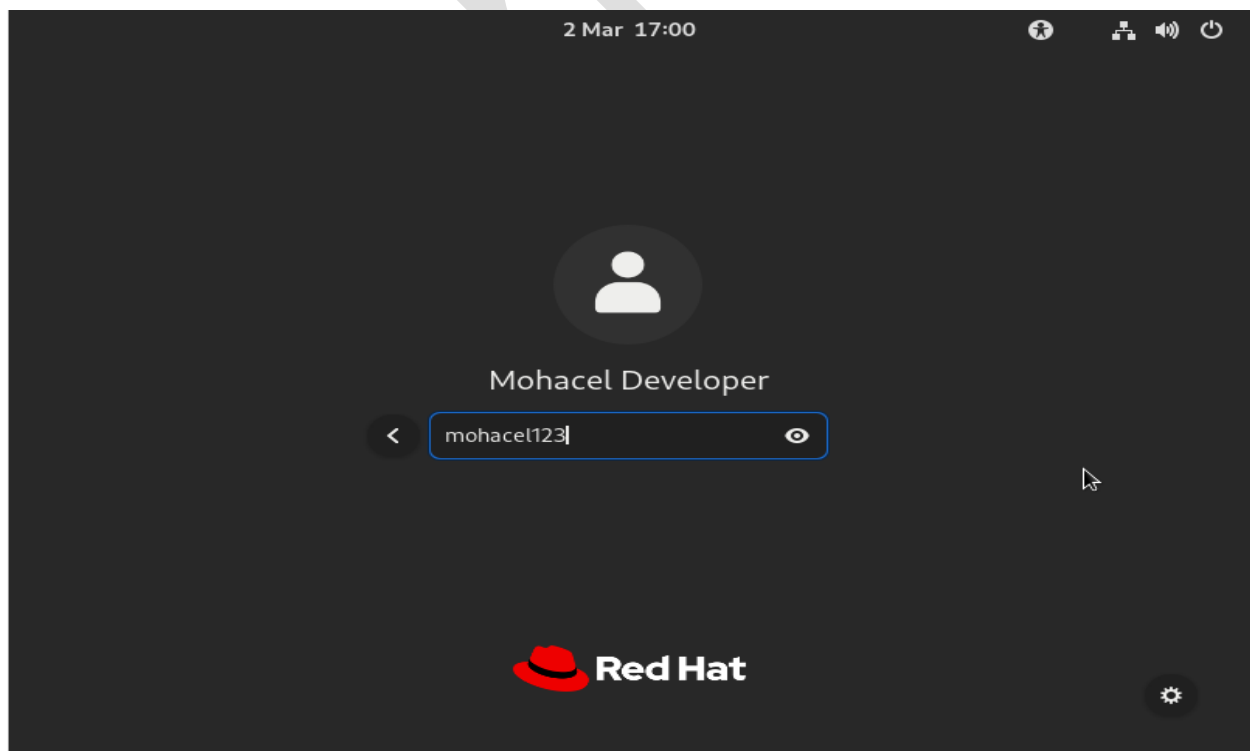
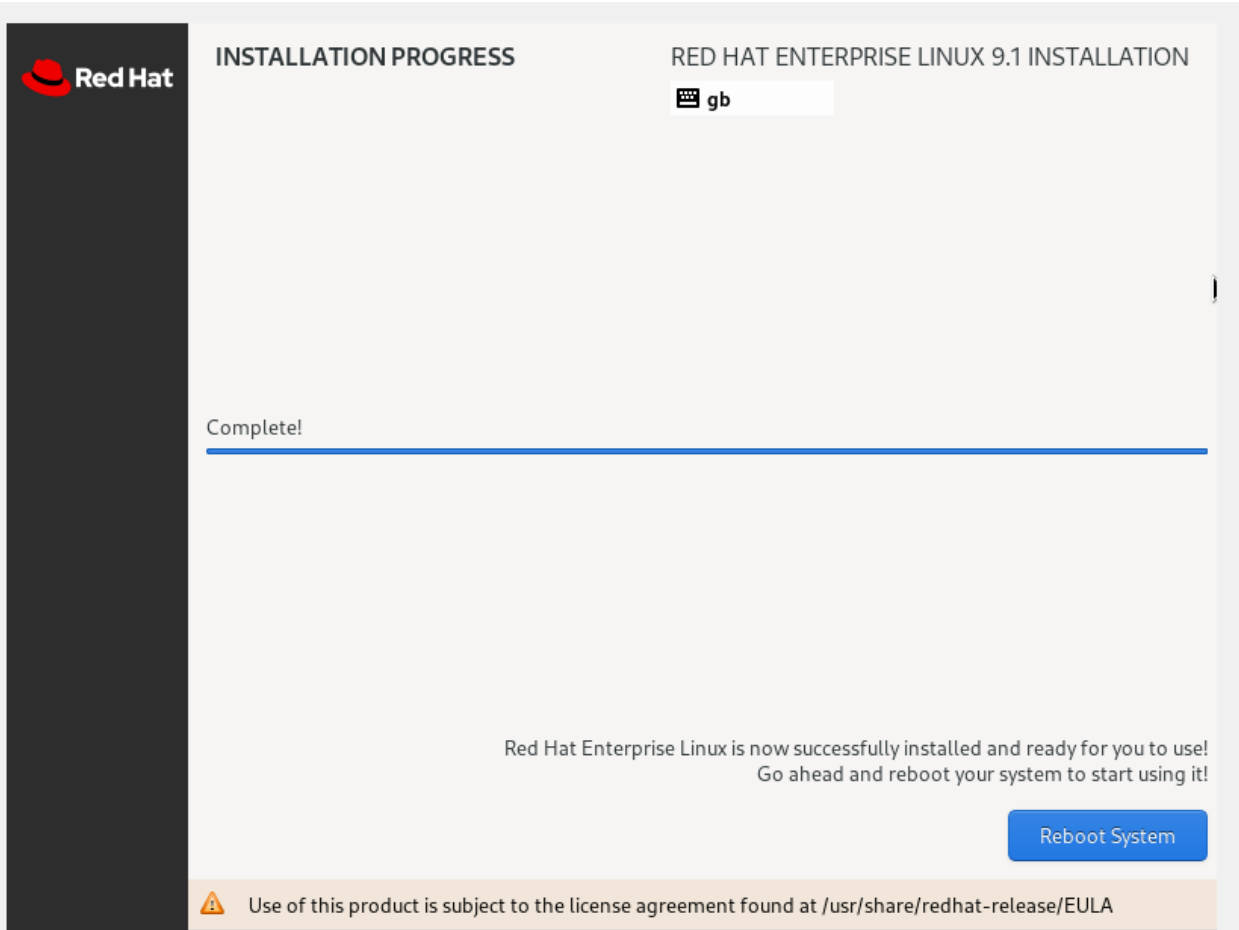
 **Root Password**
Root password is set

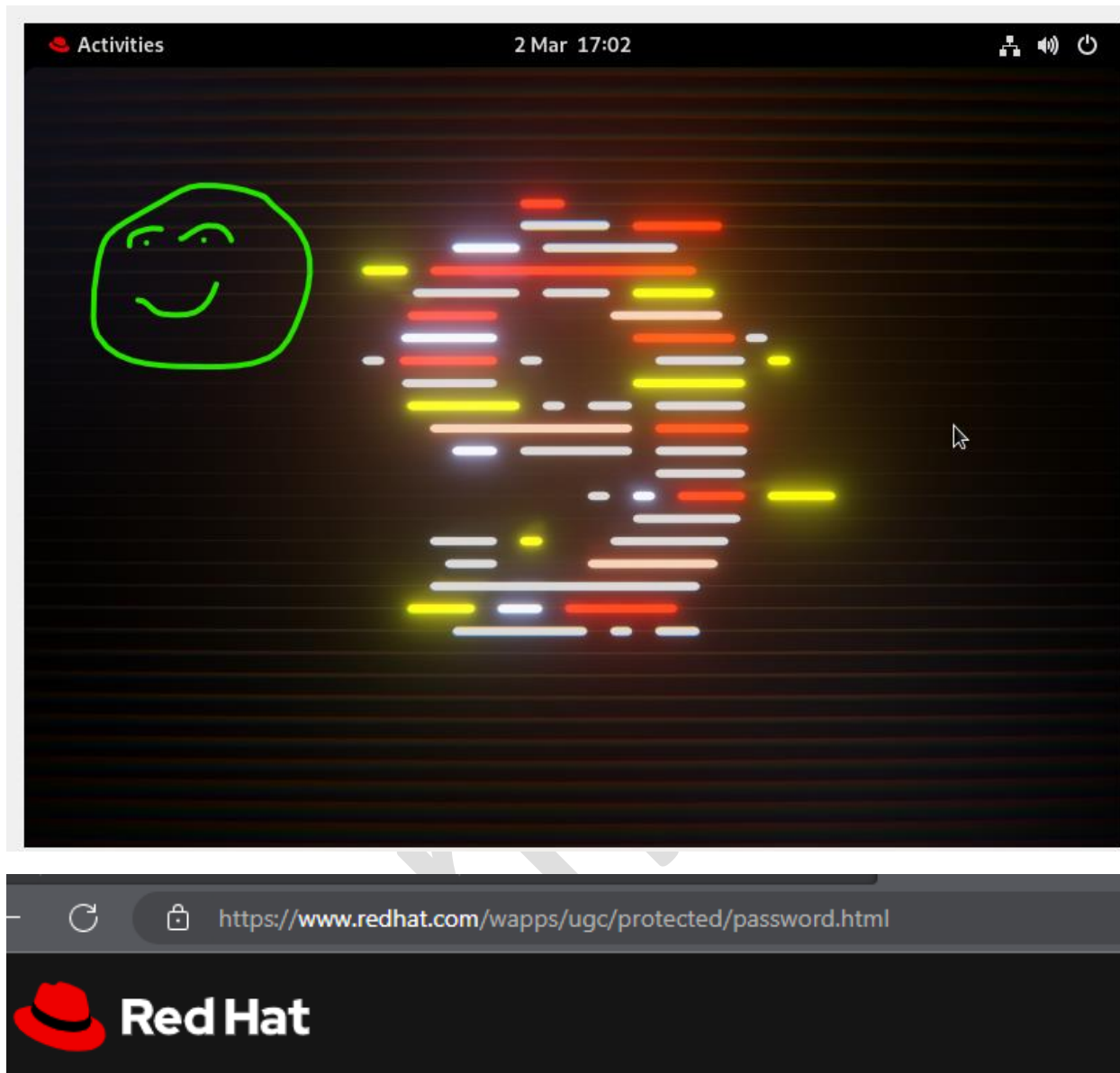
Quit

 **Begin Installation**

We won't touch your disks until you click 'Begin Installation'.

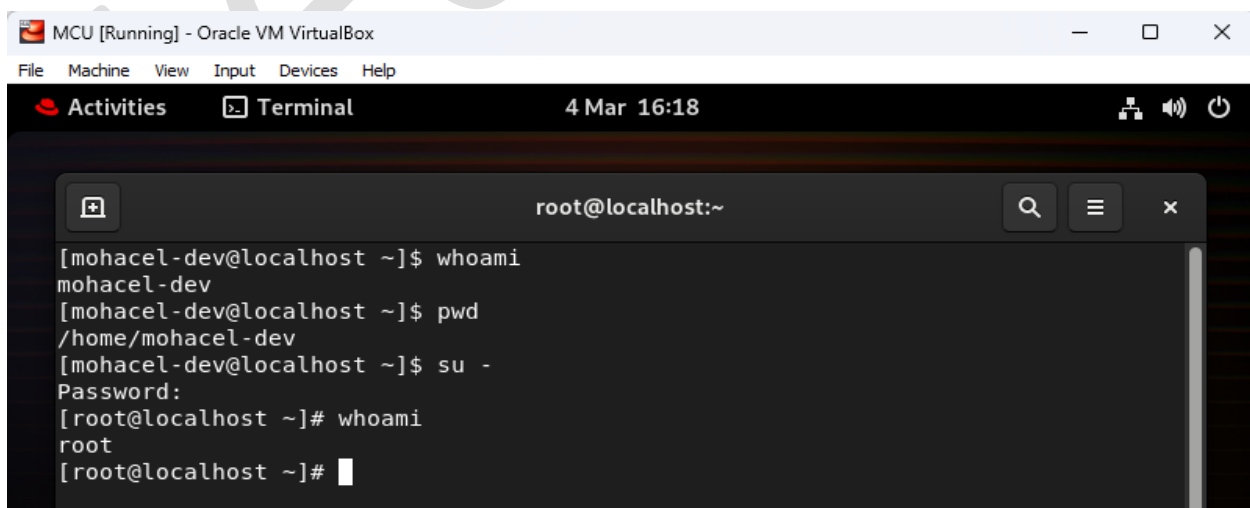
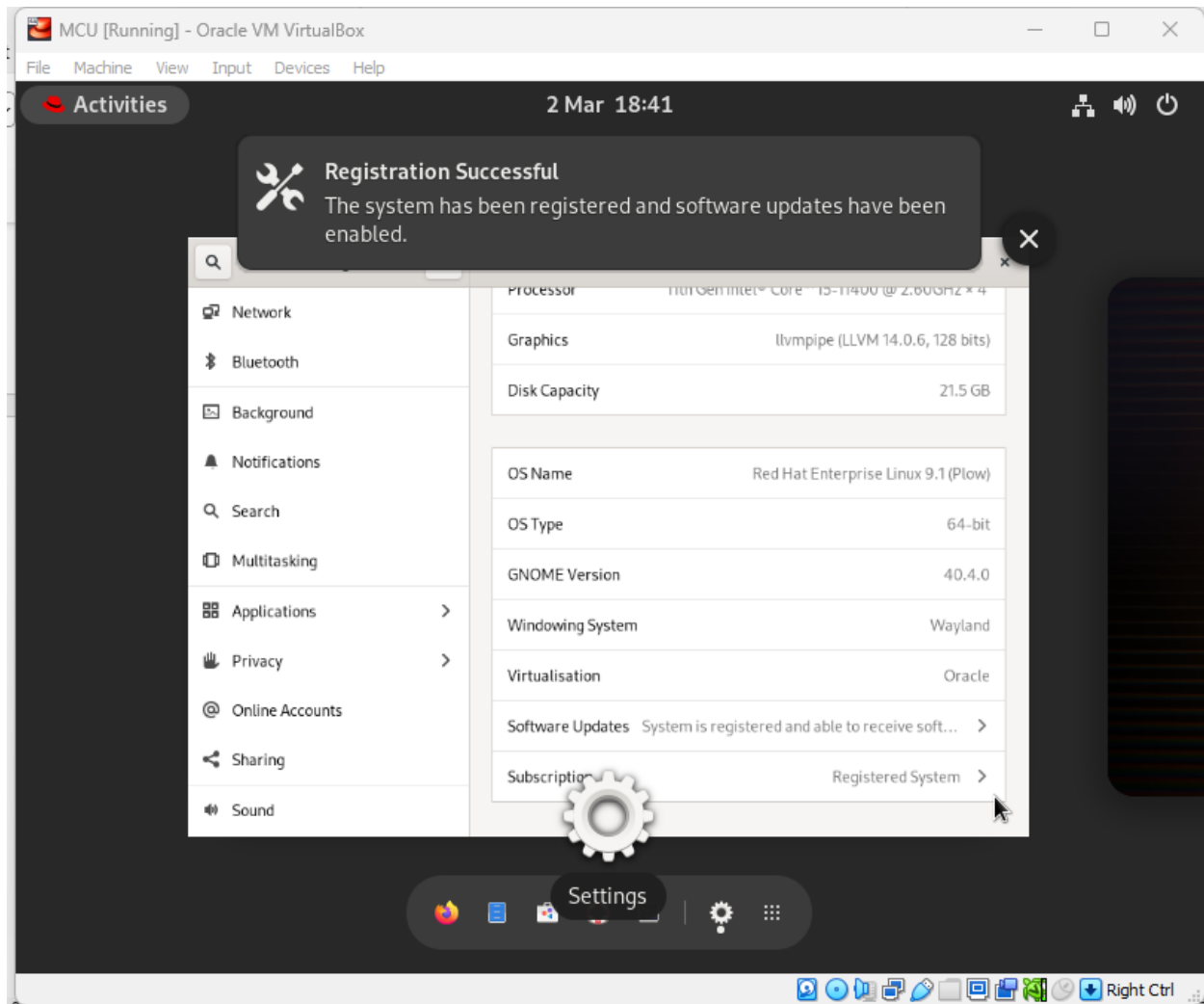
After a sometimes it will ask reboot , click on reboot.

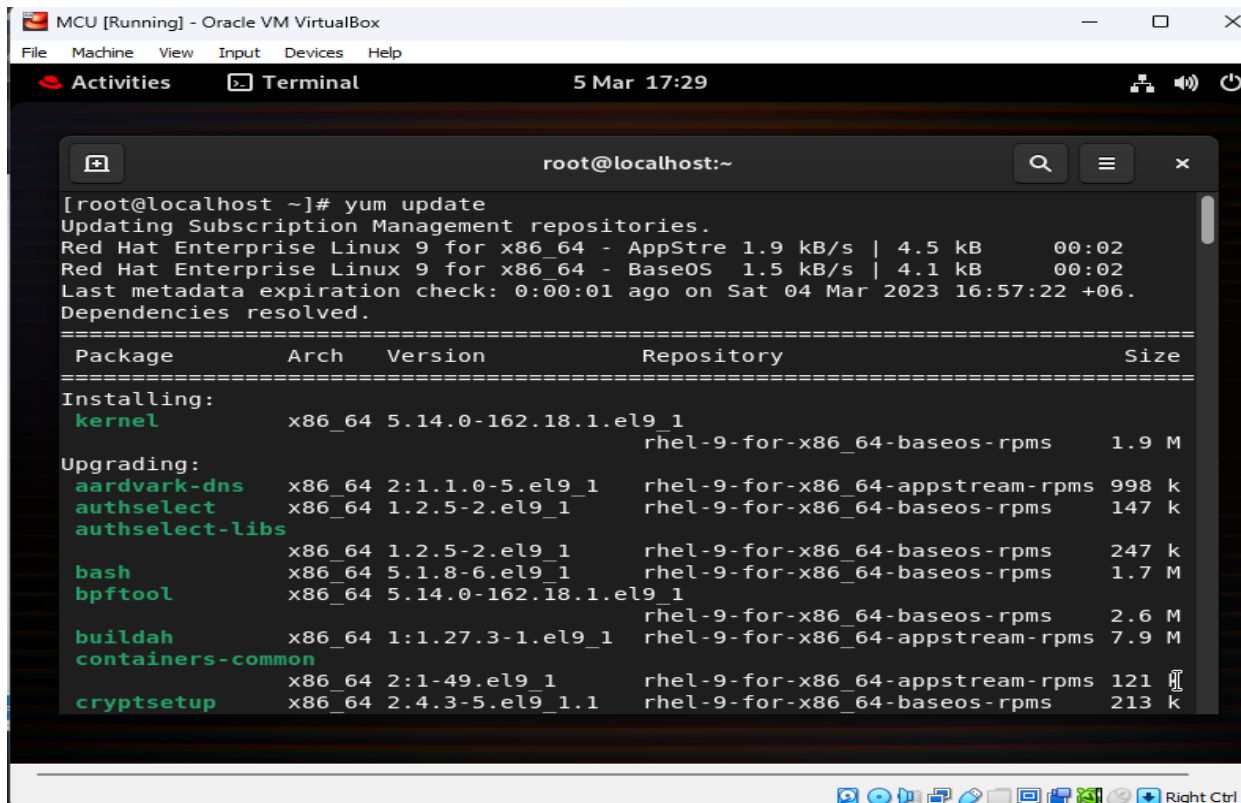




Go to setting then About and then Subscription “use your red hat developer account ”username & password” then click on register. It will ask you root password of Red hat Linux.

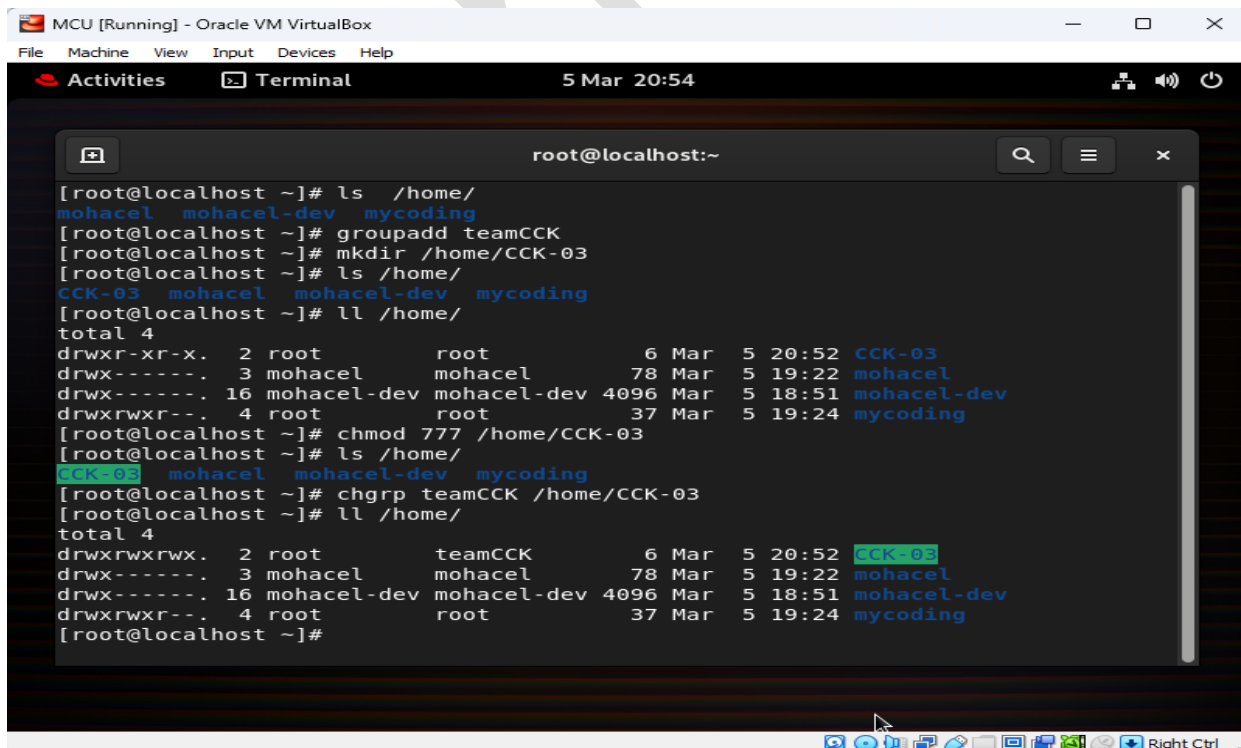
Root Password: **admin123**



A terminal window titled 'MCU [Running] - Oracle VM VirtualBox' with a menu bar (File, Machine, View, Input, Devices, Help) and a toolbar (Activities, Terminal, 5 Mar 17:29). The terminal shows the output of 'yum update', including repository updates and a list of packages to be installed or upgraded. The packages listed are kernel, aardvark-dns, authselect, authselect-libs, bash, bpftool, buildah, containers-common, and cryptsetup.

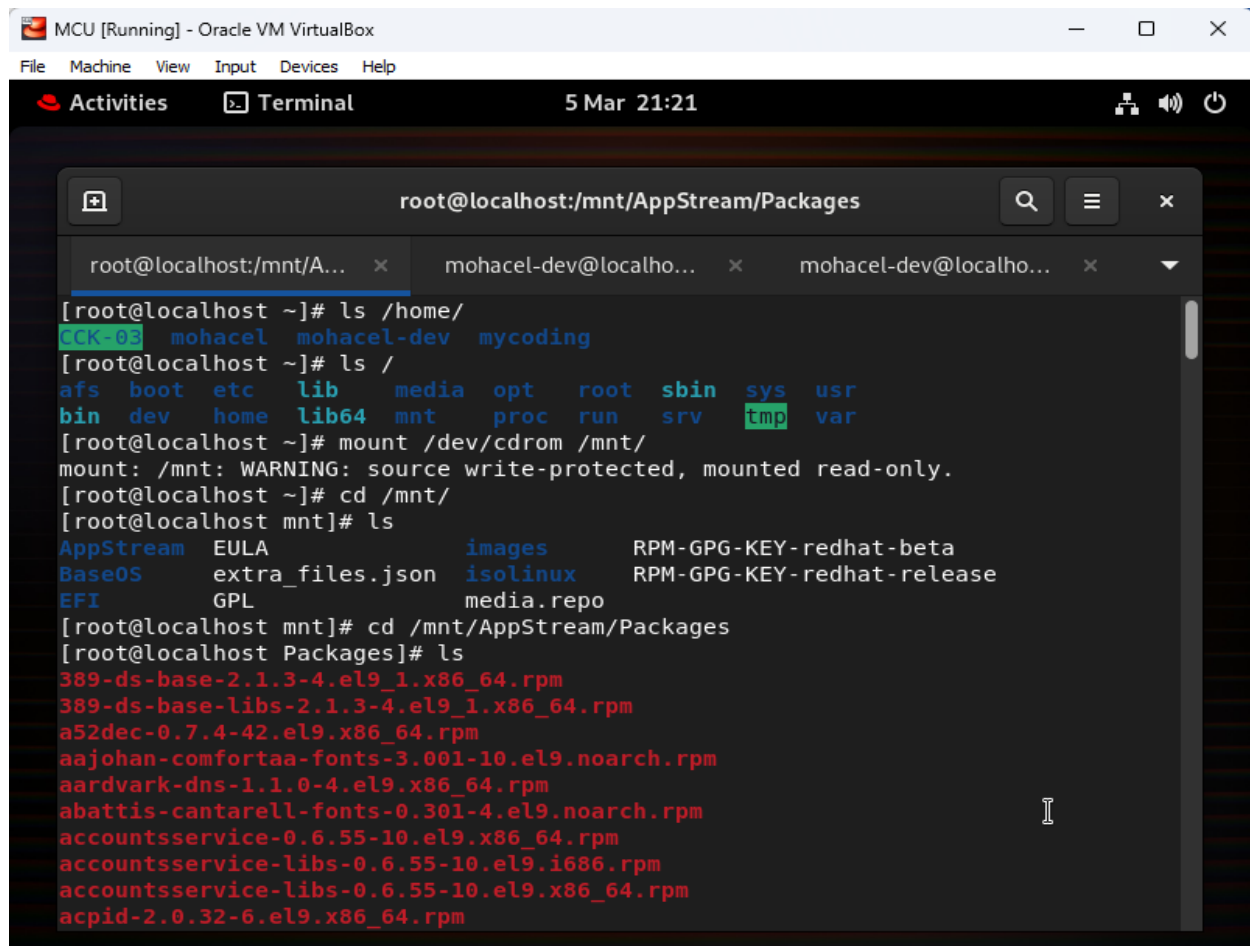
```
root@localhost:~# yum update
Updating Subscription Management repositories.
Red Hat Enterprise Linux 9 for x86_64 - AppStre 1.9 kB/s | 4.5 kB      00:02
Red Hat Enterprise Linux 9 for x86_64 - BaseOS  1.5 kB/s | 4.1 kB      00:02
Last metadata expiration check: 0:00:01 ago on Sat 04 Mar 2023 16:57:22 +06.
Dependencies resolved.
=====
Package           Arch      Version                               Repository                               Size
=====
Installing:
kernel            x86_64    5.14.0-162.18.1.el9_1                rhel-9-for-x86_64-baseos-rpms           1.9 M
Upgrading:
aardvark-dns      x86_64    2:1.1.0-5.el9_1                      rhel-9-for-x86_64-appstream-rpms        998 k
authselect        x86_64    1.2.5-2.el9_1                        rhel-9-for-x86_64-baseos-rpms          147 k
authselect-libs   x86_64    1.2.5-2.el9_1                        rhel-9-for-x86_64-baseos-rpms          247 k
bash              x86_64    5.1.8-6.el9_1                        rhel-9-for-x86_64-baseos-rpms          1.7 M
bpftool           x86_64    5.14.0-162.18.1.el9_1                rhel-9-for-x86_64-baseos-rpms          2.6 M
buildah           x86_64    1:1.27.3-1.el9_1                     rhel-9-for-x86_64-appstream-rpms        7.9 M
containers-common x86_64    2:1-49.el9_1                         rhel-9-for-x86_64-appstream-rpms        121 k
cryptsetup        x86_64    2.4.3-5.el9_1.1                     rhel-9-for-x86_64-baseos-rpms          213 k
=====
```

Step-1: Create a folder , give the permission for group & add the group.

A terminal window titled 'MCU [Running] - Oracle VM VirtualBox' with a menu bar (File, Machine, View, Input, Devices, Help) and a toolbar (Activities, Terminal, 5 Mar 20:54). The terminal shows the execution of commands to create a directory, set permissions, and change the group ownership of the directory.

```
root@localhost:~# ls /home/
mohacel  mohacel-dev  mycoding
root@localhost:~# groupadd teamCCK
root@localhost:~# mkdir /home/CCK-03
root@localhost:~# ls /home/
CCK-03  mohacel  mohacel-dev  mycoding
root@localhost:~# ll /home/
total 4
drwxr-xr-x.  2 root      root      6 Mar  5 20:52 CCK-03
drwx-----.  3 mohacel  mohacel   78 Mar  5 19:22 mohacel
drwx-----. 16 mohacel-dev mohacel-dev 4096 Mar  5 18:51 mohacel-dev
drwxrwxr--.  4 root      root      37 Mar  5 19:24 mycoding
root@localhost:~# chmod 777 /home/CCK-03
root@localhost:~# ls /home/
CCK-03  mohacel  mohacel-dev  mycoding
root@localhost:~# chgrp teamCCK /home/CCK-03
root@localhost:~# ll /home/
total 4
drwxrwxrwx.  2 root      teamCCK   6 Mar  5 20:52 CCK-03
drwx-----.  3 mohacel  mohacel   78 Mar  5 19:22 mohacel
drwx-----. 16 mohacel-dev mohacel-dev 4096 Mar  5 18:51 mohacel-dev
drwxrwxr--.  4 root      root      37 Mar  5 19:24 mycoding
root@localhost:~#
```

Step2: Add RHEL iso and mount it into /mnt/

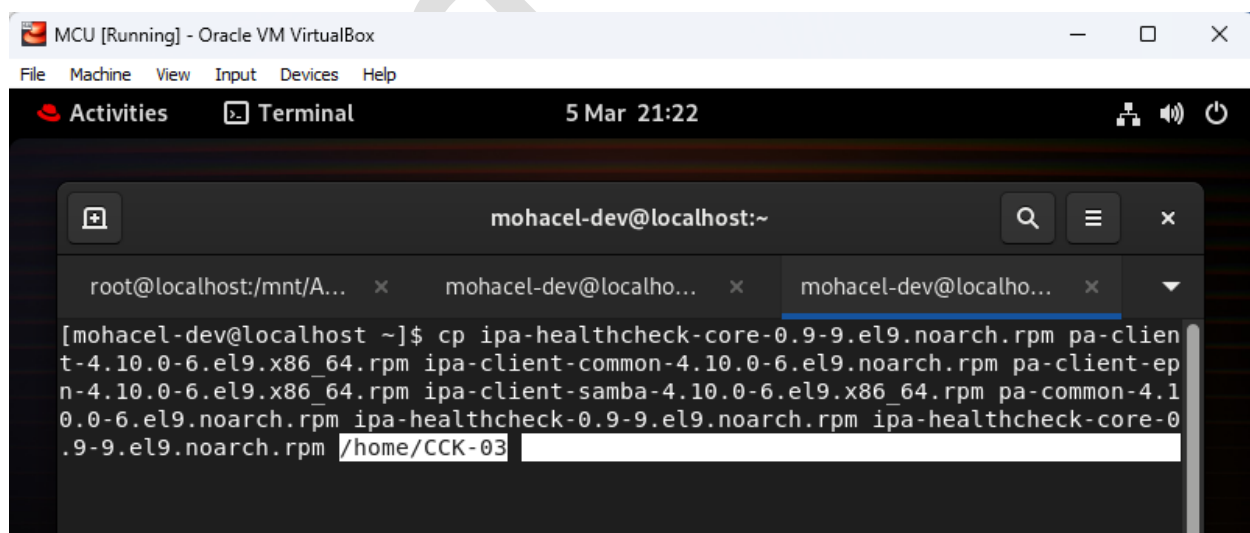


```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 5 Mar 21:21

root@localhost:/mnt/AppStream/Packages

root@localhost:/mnt/A... x mohacel-dev@localho... x mohacel-dev@localho... x
[root@localhost ~]# ls /home/
CCK-03 mohacel mohacel-dev mycoding
[root@localhost ~]# ls /
afs boot etc lib media opt root sbin sys usr
bin dev home lib64 mnt proc run srv tmp var
[root@localhost ~]# mount /dev/cdrom /mnt/
mount: /mnt: WARNING: source write-protected, mounted read-only.
[root@localhost ~]# cd /mnt/
[root@localhost mnt]# ls
AppStream EULA images RPM-GPG-KEY-redhat-beta
BaseOS extra_files.json isolinux RPM-GPG-KEY-redhat-release
EFI GPL media.repo
[root@localhost mnt]# cd /mnt/AppStream/Packages
[root@localhost Packages]# ls
389-ds-base-2.1.3-4.el9_1.x86_64.rpm
389-ds-base-libs-2.1.3-4.el9_1.x86_64.rpm
a52dec-0.7.4-42.el9.x86_64.rpm
aajohan-comfortaa-fonts-3.001-10.el9.noarch.rpm
aardvark-dns-1.1.0-4.el9.x86_64.rpm
abattis-cantarell-fonts-0.301-4.el9.noarch.rpm
accountsservice-0.6.55-10.el9.x86_64.rpm
accountsservice-libs-0.6.55-10.el9.i686.rpm
accountsservice-libs-0.6.55-10.el9.x86_64.rpm
acpid-2.0.32-6.el9.x86_64.rpm
```

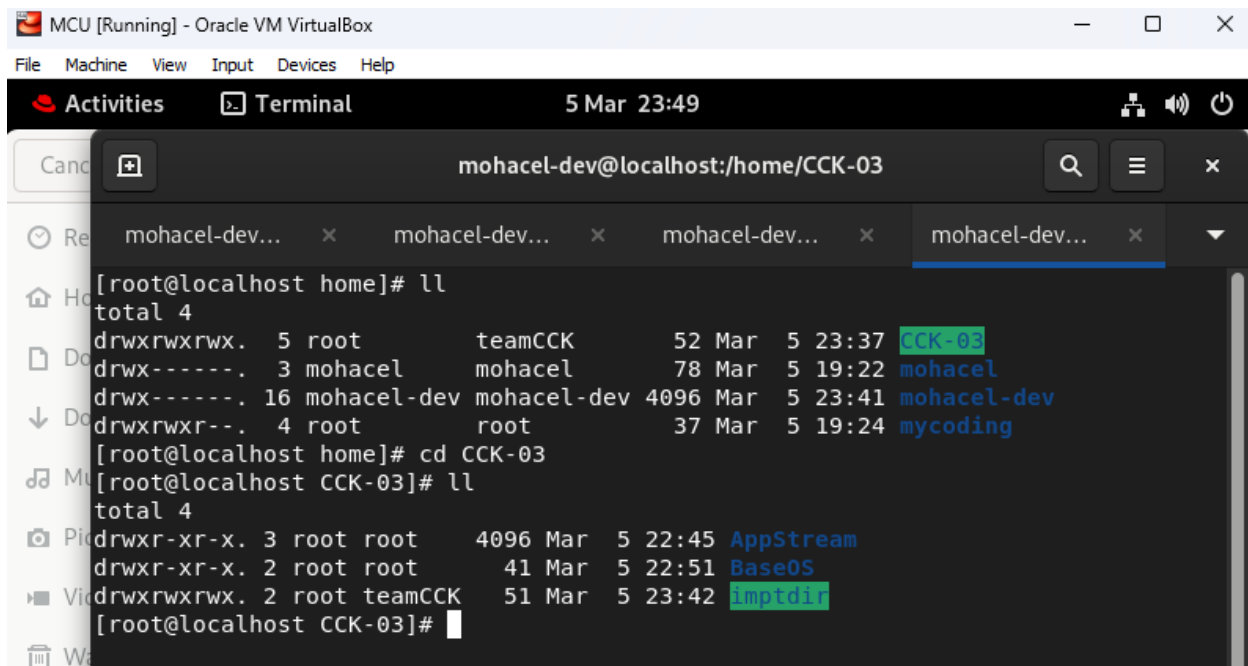
Step3: Copy AppStream and BaseOS to your created directory.



```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 5 Mar 21:22

mohacel-dev@localhost:~

root@localhost:/mnt/A... x mohacel-dev@localho... x mohacel-dev@localho... x
[mohacel-dev@localhost ~]$ cp ipa-healthcheck-core-0.9-9.el9.noarch.rpm pa-client-4.10.0-6.el9.x86_64.rpm ipa-client-common-4.10.0-6.el9.noarch.rpm pa-client-epn-4.10.0-6.el9.x86_64.rpm ipa-client-samba-4.10.0-6.el9.x86_64.rpm pa-common-4.10.0-6.el9.noarch.rpm ipa-healthcheck-0.9-9.el9.noarch.rpm ipa-healthcheck-core-0.9-9.el9.noarch.rpm /home/CCK-03
```



The screenshot shows a terminal window titled "mohacel-dev@localhost:/home/CCK-03". The terminal displays the following commands and output:

```
[root@localhost home]# ll
total 4
drwxrwxrwx. 5 root      teamCCK      52 Mar  5 23:37 CCK-03
drwx----- 3 mohacel   mohacel      78 Mar  5 19:22 mohacel
drwx----- 16 mohacel-dev mohacel-dev 4096 Mar  5 23:41 mohacel-dev
drwxrwxr-- 4 root      root        37 Mar  5 19:24 mycoding

[root@localhost home]# cd CCK-03
[root@localhost CCK-03]# ll
total 4
drwxr-xr-x. 3 root root    4096 Mar  5 22:45 AppStream
drwxr-xr-x. 2 root root     41 Mar  5 22:51 BaseOS
drwxrwxrwx. 2 root teamCCK  51 Mar  5 23:42 imptdir

[root@localhost CCK-03]#
```

Step4: Create a repo file inside the /etc/yum.repos.d/
user_favorite_name.repo and change the code according to base url

[path-1]
name=This is CCK local BaseOS repo directory.
baseurl=file:///home/CCK-03/BaseOS
enabled=1
gpgcheck=0
[path-2]
name=This is CCK local AppStream repo directory.
baseurl=file:///home/CCK-03/AppStream
enabled=1
gpgcheck=0

```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 5 Mar 23:29

mohacel-dev@localhost:/etc/yum.repos.d

gnupg      pkcs11      X11
grep_colors pkgconfig   xattr.conf
groff      pki         xdg
group      plymouth    xml
group-     pm         yum
grub2.cfg  pnm2ppa.conf yum.conf
grub.d     polkit-1    yum.repos.d
gshadow    popt.d

[root@localhost etc]# cd yum.repos.d
[root@localhost yum.repos.d]# ls
cckyumserver.repo  redhat.repo
[root@localhost yum.repos.d]# cat cckyumserver.repo
[path-1]
name=This is CCK local BaseOS repo directory.
baseurl=file:///home/CCK-03/BaseOS
enabled=1
gpgcheck=0
[path-2]
name=This is CCK local AppStream repo directory.
baseurl=file:///home/CCK-03/AppStream
enabled=1
gpgcheck=0
[root@localhost yum.repos.d]# ^C
[root@localhost yum.repos.d]# pwd
/etc/yum.repos.d
He[root@localhost yum.repos.d]#
```

```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 5 Mar 23:47

mohacel-dev@localhost:~

[root@localhost yum.repos.d]# cd
[root@localhost ~]# yum repository
Updating Subscription Management repositories.
No such command: repository. Please use /usr/bin/yum --help
It could be a YUM plugin command, try: "yum install 'dnf-command(repository)'"
[root@localhost ~]# yum repolist
Updating Subscription Management repositories.
repo id      repo name
path-1       This is CCK local BaseOS repo directory.
path-2       This is CCK local AppStream repo directory.
path-3       This is CCK local imptdir repo directory.
rhel-9-for-x86_64-appstream-rpms  Red Hat Enterprise Linux 9 for x86_64 - AppStream (RPMs)
rhel-9-for-x86_64-baseos-rpms    Red Hat Enterprise Linux 9 for x86_64 - BaseOS (RPMs)
[root@localhost ~]#
```

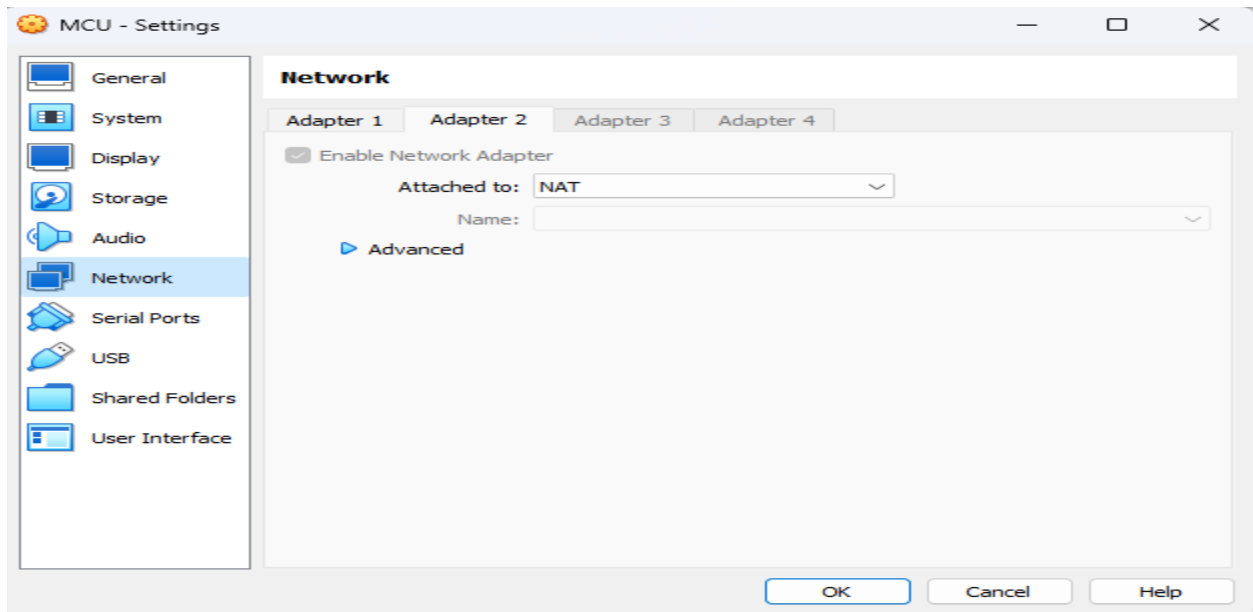
```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 6 Mar 00:00

mohacel-dev@localhost:~

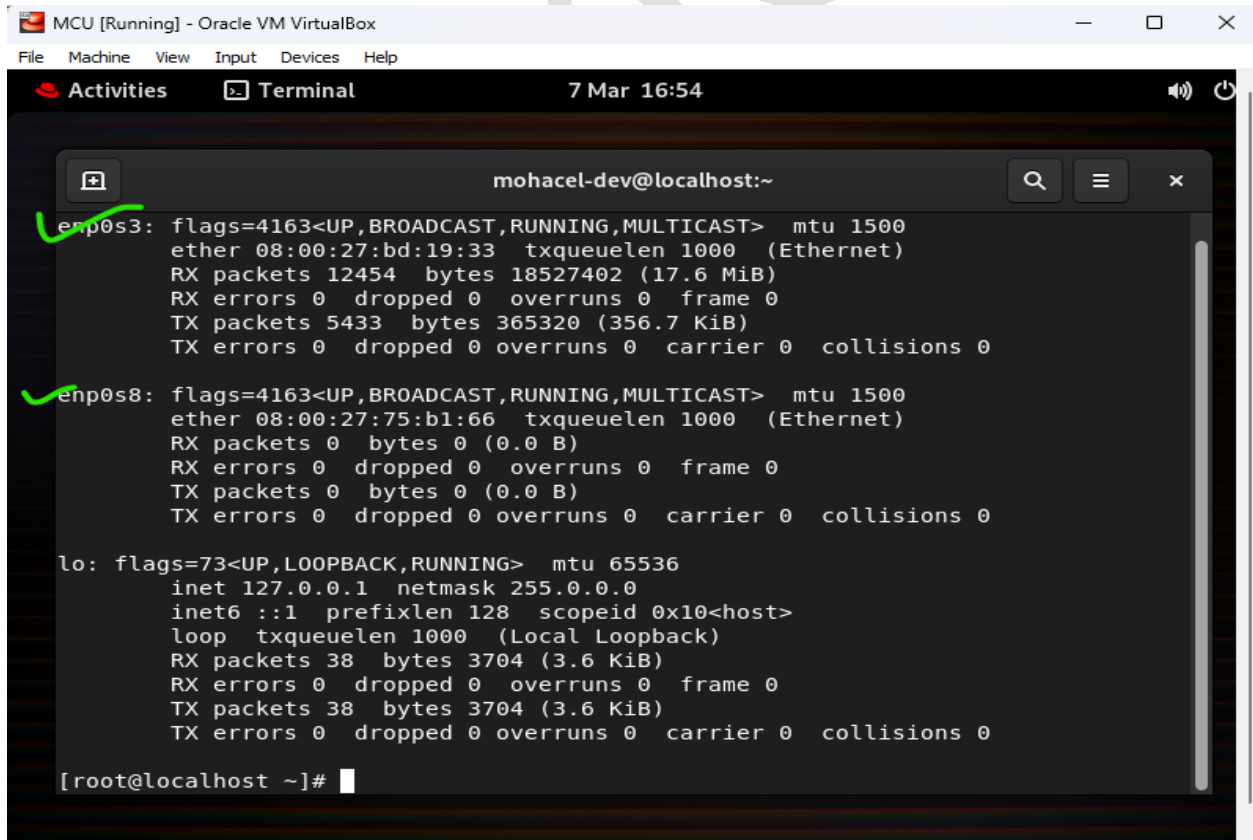
jdvdv-textonly-1-for-middleware-rpms  Red Hat J disabled
jon-textonly-1-for-middleware-rpms    Red Hat J disabled
jpp-textonly-1-for-middleware-rpms    Red Hat J disabled
openjdk-textonly-1-for-middleware-rpms OpenJDK T disabled
openliberty-textonly-1-for-middleware-rpms Open Libe disabled
openstack-17-tools-for-rhel-9-x86_64-debug-rpms Red Hat O disabled
openstack-17-tools-for-rhel-9-x86_64-rpms Red Hat O disabled
openstack-17-tools-for-rhel-9-x86_64-source-rpms Red Hat O disabled
openstack-17.1-tools-for-rhel-9-x86_64-debug-rpms Red Hat O disabled
openstack-17.1-tools-for-rhel-9-x86_64-rpms Red Hat O disabled
openstack-17.1-tools-for-rhel-9-x86_64-source-rpms Red Hat O disabled
path-1 ✓ This is C enabled
path-2 ✓ This is C enabled
path-3 ✓ This is C enabled
quarkus-textonly-1-for-middleware-rpms Red Hat b disabled
rhbp-textonly-1-for-middleware-rpms Red Hat B disabled
```

NIC Teaming in Linux

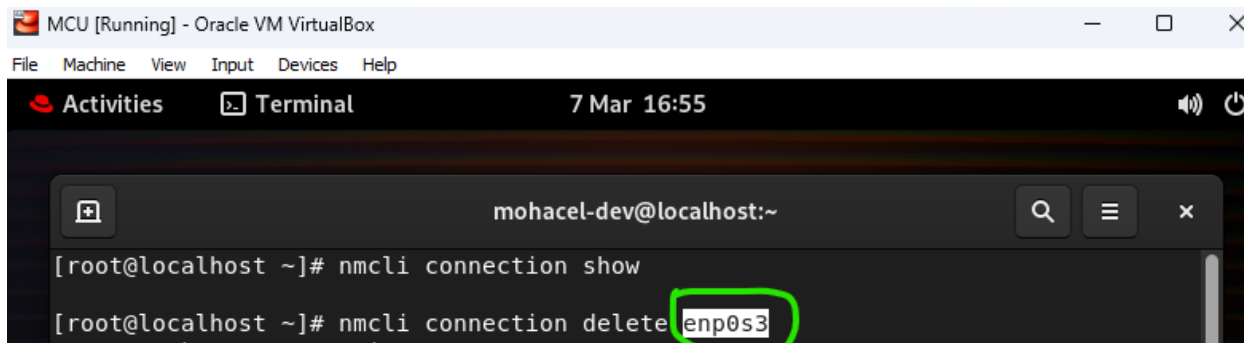
Step1: Active the network interface card



Step2: check the IP information "ifconfig"

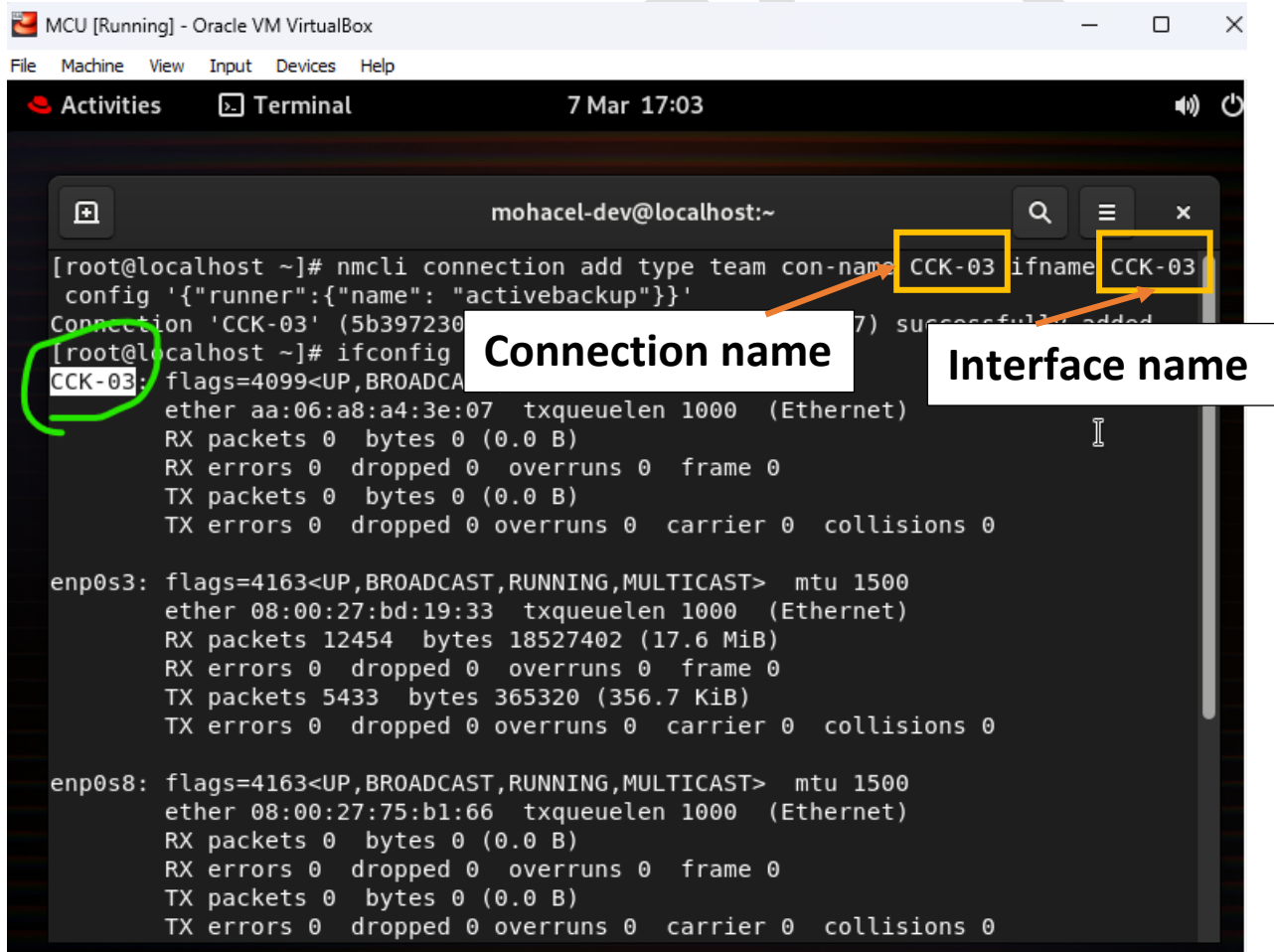


Step3: check the connection "nmcli connection show" . If there have any connection delete it.



```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 7 Mar 16:55
mohacel-dev@localhost:~
[root@localhost ~]# nmcli connection show
[root@localhost ~]# nmcli connection delete enp0s3
```

Step4: nmcli connection add type team con-name CCK-03 ifname CCK-03 config '{"runner": {"name": "activebackup"}}'



```
MCU [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal 7 Mar 17:03
mohacel-dev@localhost:~
[root@localhost ~]# nmcli connection add type team con-name CCK-03 ifname CCK-03
config '{"runner":{"name": "activebackup"}}'
Connection 'CCK-03' (5b397230-7) successfully added
[root@localhost ~]# ifconfig CCK-03: flags=4099<UP,BROADCAST>
ether aa:06:a8:a4:3e:07 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
ether 08:00:27:bd:19:33 txqueuelen 1000 (Ethernet)
RX packets 12454 bytes 18527402 (17.6 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 5433 bytes 365320 (356.7 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
ether 08:00:27:75:b1:66 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Connection name

Interface name

Step5: update an ip of your team "nmcli connection modify CCK-03 ipv4.addresses '192.168.1.100/24' ipv4.method manual" and restart the system.

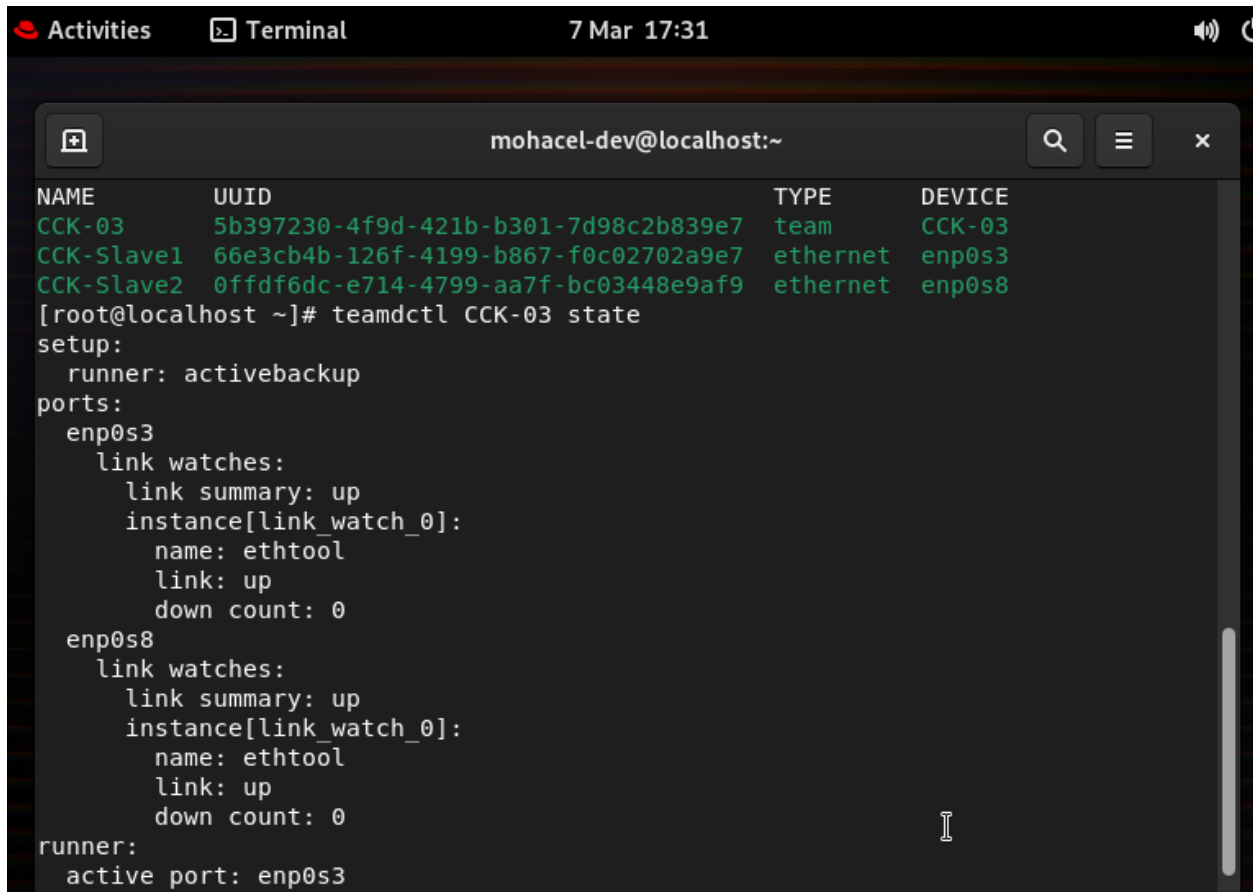
```
mohacel-dev@localhost:~  
[root@localhost ~]# ifconfig  
CCK-03: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500  
    inet 192.168.1.100 netmask 255.255.255.0 broadcast 192.168.1.255  
    ether 2a:ce:07:c2:c9:80 txqueuelen 1000 (Ethernet)  
    RX packets 0 bytes 0 (0.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 0 bytes 0 (0.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    ether 08:00:27:bd:19:13 txqueuelen 1000 (Ethernet)  
    RX packets 0 bytes 0 (0.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 0 bytes 0 (0.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    ether 08:00:27:75:b1:66 txqueuelen 1000 (Ethernet)  
    RX packets 0 bytes 0 (0.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 0 bytes 0 (0.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
```

land Card Name

Step5: add this cmd for master-slave connection "nmcli connection add type team-slave con-name cck-slave1 ifname enp0s3 master CCK-03"

```
Activities Terminal 7 Mar 17:24  
mohacel-dev@localhost:~  
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    ether 08:00:27:75:b1:66 txqueuelen 1000 (Ethernet)  
    RX packets 0 bytes 0 (0.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 0 bytes 0 (0.0 B)  
    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 110 bytes 10128 (9.8 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 110 bytes 10128 (9.8 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
[root@localhost ~]# nmcli connection add type team-slave con-name CCK-Slave1 ifname enp0s3 master CCK-03  
Connection 'CCK-Slave1' (66e3cb4b-126f-4199-b867-f0c02702a9e7) successfully added.  
[root@localhost ~]# nmcli connection add type team-slave con-name CCK-Slave2 ifname enp0s8 master CCK-03
```

Step6: check status "teamctl connection_name state"



A terminal window titled 'mohacel-dev@localhost:~' showing the output of the command 'teamctl CCK-03 state'. The output is structured as follows:

NAME	UUID	TYPE	DEVICE
CCK-03	5b397230-4f9d-421b-b301-7d98c2b839e7	team	CCK-03
CCK-Slave1	66e3cb4b-126f-4199-b867-f0c02702a9e7	ethernet	enp0s3
CCK-Slave2	0ffdf6dc-e714-4799-aa7f-bc03448e9af9	ethernet	enp0s8

[root@localhost ~]# teamctl CCK-03 state

setup:
runner: activebackup

ports:
enp0s3
link watches:
link summary: up
instance[link_watch_0]:
name: ethtool
link: up
down count: 0

enp0s8
link watches:
link summary: up
instance[link_watch_0]:
name: ethtool
link: up
down count: 0

runner:
active port: enp0s3

- step1:** Active the network interface card
- step2:** check the ip information "ifconfig"
- step2.1:** check the connection "nmcli connection show"
- step3:** delete existing connection "nmcli connection delete connection_name"
- step3.1:** check again the connection "nmcli connection show"
- step4:** nmcli connection add type team con-name CCK-03 ifname CCK-03 config '{"runner": {"name": "activebackup"}}'
- step5:** to check team "ifconfig"
- step6:** update an ip of your team "nmcli connection modify connection_name ipv4.addresses '192.168.1.100/24' ipv4.method manual"
- step7:** "ifdown connection_name"
- step8:** ifup connection_name
- step9:** check whether ip update or not
- step10:** nmcli connection add type team-slave con-name cck-slave1 ifname landCardName(enp0s3) master connection_name
- step11:** nmcli connection add type team-slave con-name cck-slave2 ifname landCardName(enp0s8) master connection_name
- step12:** check master-slave connection "nmcli connection show"
- Final Step:** check status "teamctl connection_name state"