RHSA2 - LAB 3

1.Display your MAC address by 2 different ways.

```
| Temporal | Strong |
```

2. Display the network settings of all active interfaces.

```
| Salma >> Into | Into
```

3. Display the network setting of all interfaces both active inactive.

```
### State Vew Search Temmol Help

| Salma >> ip a | 1:0: <.CODPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000 |
| Link/Loopback 00:00:00:00:00:00:00 brd 00:00:00:00:00 |
| Link/Loopback 00:00:00:00:00 brd 00:00:00:00:00 |
| Link/Loopback 00:00:00:00:00 brd 00:00:00:00 brd |
| Valid lft forever preferred lft forever |
| Valid lft forever preferred lft 82788cc |
| Valid lft 85278scc |
| Valid lft 85278scc |
| Valid lft 85278scc |
| Valid lft 66283sscc |
| Valid lft forever preferred lft 80278scc |
| Valid lft 60278scc |
| Valid lft 80278scc |
```

4. Bring your interface down.

```
smabrouk@localhost-- ×

File Edit View Search Terminal Help

Salma >> ip link set dev Hello_World down
```

- 5. Configure your network card to have static IP.
- 6. Bring your interface up.

```
© smabrouk@localhost- ×
File Edit View Search Terminal Help
Salma >> ip link set dev Salma's iPhone up
```

7. Verify your network setting using ifconfig command

8. Configure your network card to have dynamic IP using network manager command.

```
© smabrouk@localhost- ×
File Edit View Search Terminal Help
Salma >> nmcli con mod wlpZs0 ipv4.method auto
```

9. Check using ifconfig then check its configuration file.

10. Reconfigure your network card using system-config-network utility to have static IP.

```
Smabrouk@localhost- x
File Edit View Search Terminal Help
Salma >> vi /etc/sysconfig/network
```

11. Configure your network card to have 3 IPs and check that they are all working using ifconfig command.

```
smabrouk@localhost-- x

File Edit View Search Terminal Help

Salma >> sudo ip addr add 192.168.1.104/24 dev wlp2s0

Salma >> sudo ip addr add 192.168.1.108/24 dev wlp2s0

Salma >> sudo ip addr add 192.168.1.109/24 dev wlp2s0

Salma >> sudo ip addr add 192.168.1.109/24 dev wlp2s0

Salma >> sudo ip addr add 192.168.1.109/24 dev wlp2s0
```

12. Change your host name in your global network file.



13. Check the present value of /proc/sys/net/ipv4/icmp echo ignore all



14. It should be 0, change it to 1 which will prevent other hosts from successfully pinging your host while not affecting your ability to ping them.



- 15. Try to ping your colleague, let your colleague try to ping your host.
- 16. Reboot and try the last step. What happened? Why?
- 17. Edit /etc/sysctl.conf and put the following line at the bottom: net.ipv4.icmp_echo_ignore_all=1



18. Execute sysctl –p command.

```
mabrouk@localhost-

File Edit View Search Terminal Help

Salma >> sudo vi /etc/sysctl.conf

Salma >> sysctl - p

sysctl : permission denied on key 'net.ipv4.icmp_echo_ignore_all'

Salma >> sysctl - p
```

19. Check the value of /proc/sys/net/ipv4/icmp echo ignore all.

```
□ smabrouk@localhost- ×

File Edit View Search Terminal Help

Salma >> cat /proc/sys/net/ipv4/icmp_echo_ignore_all
0

Salma >> ■
```

Using yum

20. Attempt to run the command gnuplot. You should find that it is not installed.

```
□ smabrouk@localhost- x

File Edit View Search Terminal Help

Salma >> gnuplot

bash: gnuplot: command not found...

Install package 'gnuplot' to provide command 'gnuplot'? [N/y] ■
```

21. Search for the plotting packages.

22. Find out more information about the gunuplot package.

```
smabrouk@localhost:-

File Edit View Search Terminol Help

Salma >> sudo yum info gunplot

Updating Subscription Management repositories.

Red Hat Enterprise Linux 8 for x86 64 - AppStream (RPMs)

Red Hat Enterprise Linux 8 for x86 64 - BaseOS (RPMs)

Error: No matching Packages to list

Salma >>

Smabrouk@localhost:-

x

x

x

x

x

x

x

x

x

x

x

x

151 B/s | 4.5 kB 00:30

1.0 kB/s | 4.1 kB 00:04

Error: No matching Packages to list

Salma >>

Salma >>

x
```

23. Install the gnuplot package.

```
### Salma > Service | Search Terminal Help |

***Salma > Service | Search Terminal Help |

***Salma > Service | Search Terminal Help |

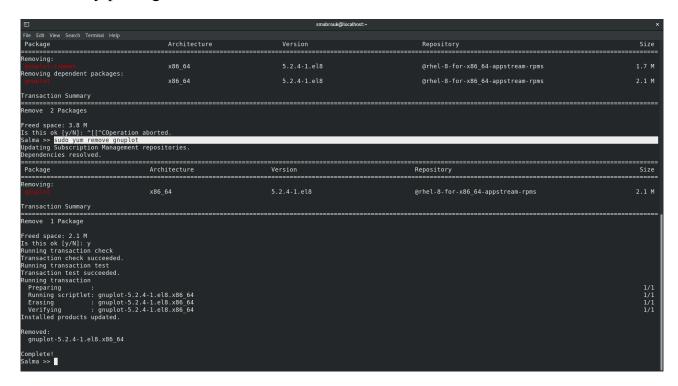
***Salma > Search Terminal Help |

***Salma > Search Terminal Help |

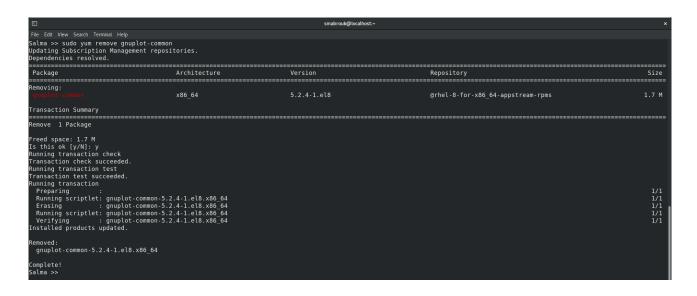
**Salma Help Search Terminal Help |

**Salma Help Search Terminal Help Search Termi
```

24. Attempt to remove the gnuplot package, but say no How many packages would be removed



25. Attempt to remove the gunplot-common package but say no How many packages would be removed



Using rpm

26. List all installed packages in your system.

27. View the files in the initscripts package

28. Get general information about bash rpm.

```
        Dist
        60 No. Sorth Temoni Help

        2005 Section 10 No. Sorth Temoni Help

        2005 Section 10
```

29. Have the files from the pam package changed since it was installed.

```
        Edt View Search Terminal Help
        xmabrouk@localhost--
        x

        Salma >> rpm -qa --last pam
        pam-1.3.1-22.el8.x86_64
        Tue 22 Nov 2022 03:19:27 PM EET

        Salma >> [
        Tue 22 Nov 2022 03:19:27 PM EET
```

30. Which installed packages have gnome in their names?

31. Install any uninstalled package from RH Enterprise Linux cds

```
smabrouk@localhost:~ ×
File Edit View Search Terminal Help
Salma >> rpm -U
rpm: no packages given for install
Salma >> ■
```

32. Search for software resemble the Photoshop software other than Gimp and install it

```
Tile Edit View Search Terminal Help

Salma >> Saudo dnf install https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm

[sudo] password for smabrouk:

Updating Subscription Management repositories.

Red Hat Enterprise Linux 8 for x86.64 - AppStream (RPMs)

Red Hat Enterprise Linux 8 for x86.64 - BaseOS (RPMs)

Last metadata expiration check: 0.60:01 ago on Sat 24 Dec 2022 03:03:09 PM EET.

[MIRROR] epel-release-latest-8.noarch.rpm; Curl error (7): Couldn't connect to server for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm; Curl error (7): Couldn't connect to server for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm; Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm; Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm; Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm (IP: 38.145.60.23)

[MIRROR] epel-release-latest-8.noarch.rpm; Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm (IP: 38.145.60.23)

[MIRROR] epel-release-latest-8.noarch.rpm; Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm (IP: 38.145.60.23)

[FAILED] epel-release-latest-8.noarch.rpm; Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm (IP: 38.145.60.23)

Status code: 404 for https://dl.fedoraproject.org/pub/epl/epel-release-latest-8.noarch.rpm (IP: 38.145.60.23)

Salma >> sudo dnf upgrade

[sudo] password for smabrouk:

Updating Subscription Management repositories.

Red Hat Enterprise Linux 8 for x86.64 - AppStream (RPMs)

Red Hat Enterprise Linux 8 for x86.64 - AppStream (RPMs)

Dependencies resolved.

Nothing to do.

Complete!

Salma >>
```

33. Create the file /etc/yum.repos.d/cdrom.repo to enable install from the iso from the iso of Red Hat.



34. Try to install any package from the new repository