### RHSA2 - LAB 1

1.Display your MAC address by 2 different ways.

```
| Received | Proposed | Proposed
```

2. Display the network settings of all active interfaces.

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

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.

```
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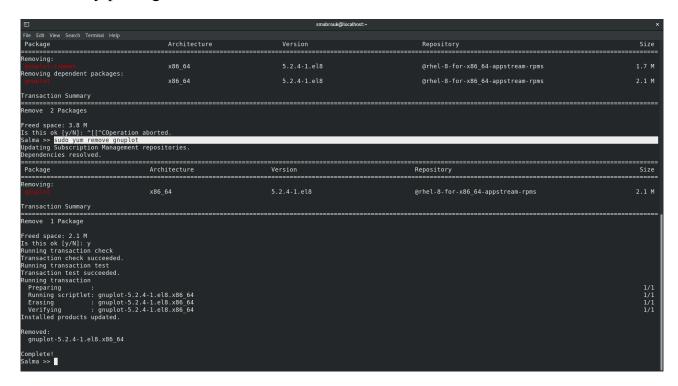
***Salma > Search Terminal Help |

***Salma > Search Terminal Help |

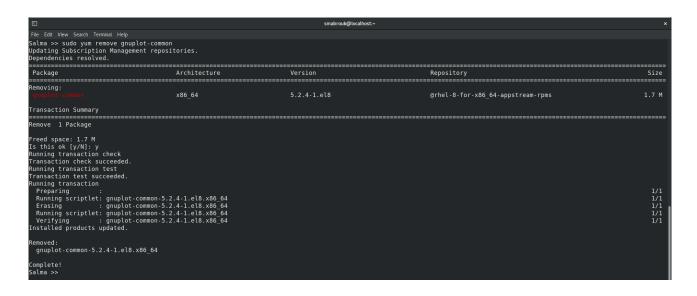
**Salma Help Search Terminal Help |

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```

## 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.

```
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        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