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STUDENT ID: IDEAS/24/51291

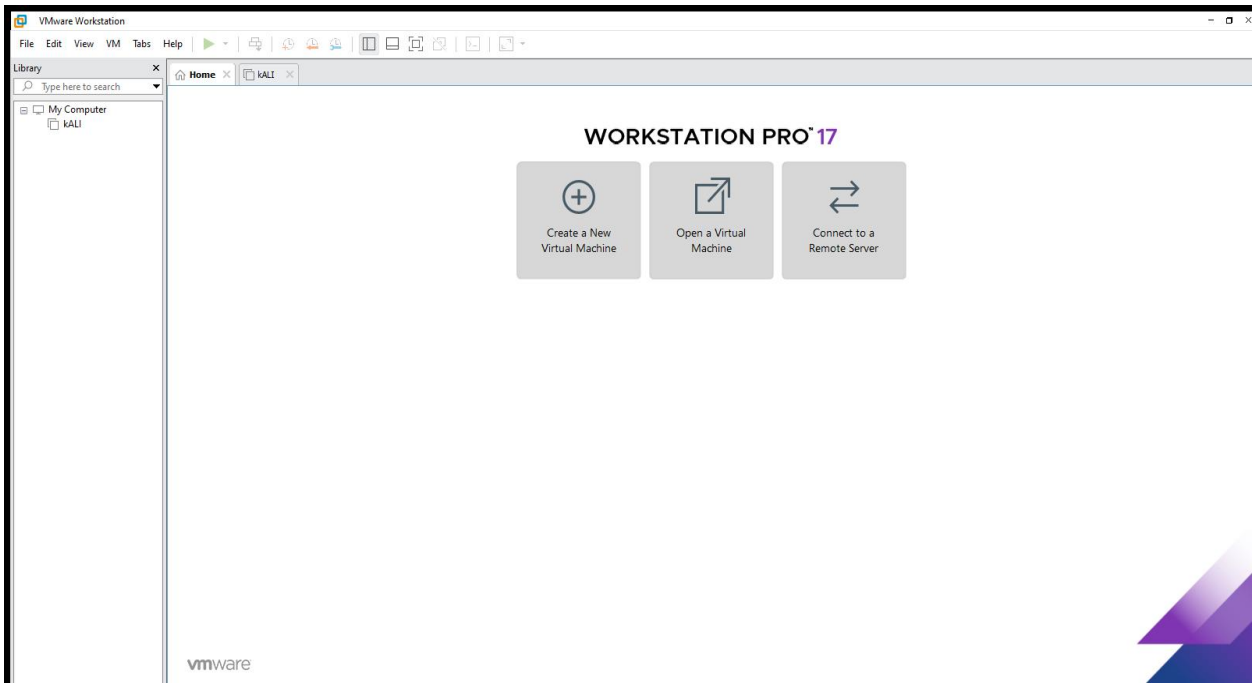
Lab 1: Investigate Kali Linux Objectives

- **Familiarization of Kali Linux GUI**

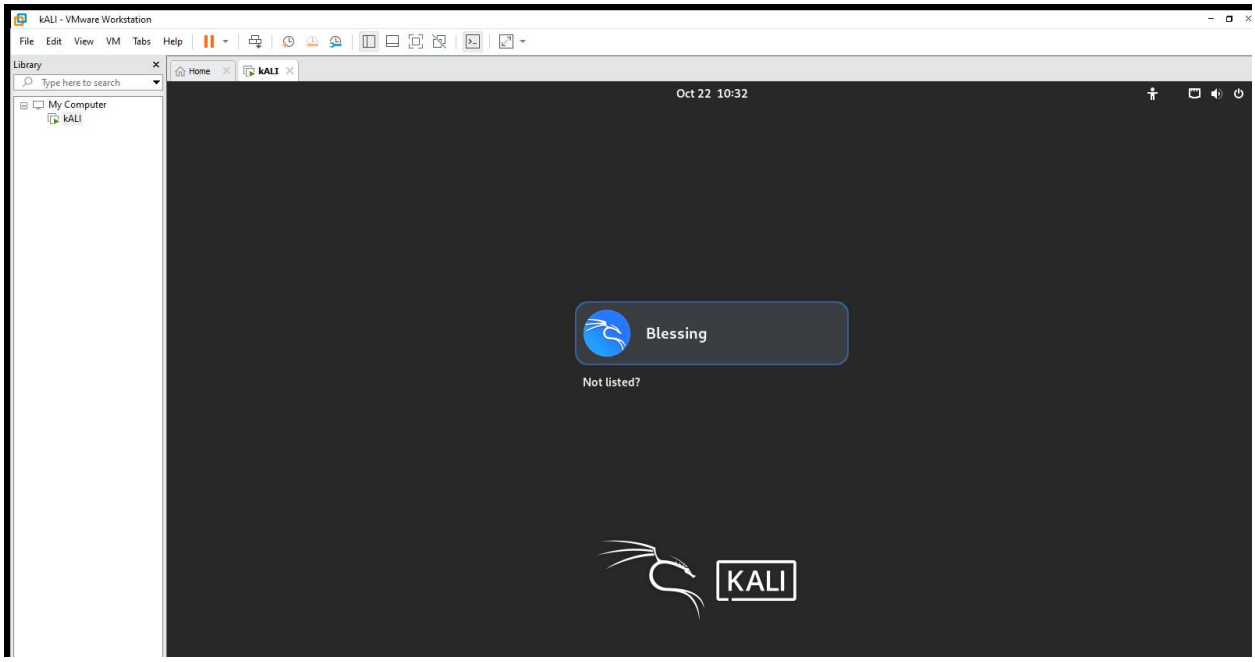
1. Start Virtual Machine (VM), power on the already installed Kali. The default username is Kali while the default password is Kali. While the Kali from the institute AIVTIC default username and password is aivtic.

2. Explore the desktop to be familiar with its operations.
3. Customize the panel.
4. Access Settings.

PICTURE OF VM
LAYOUT



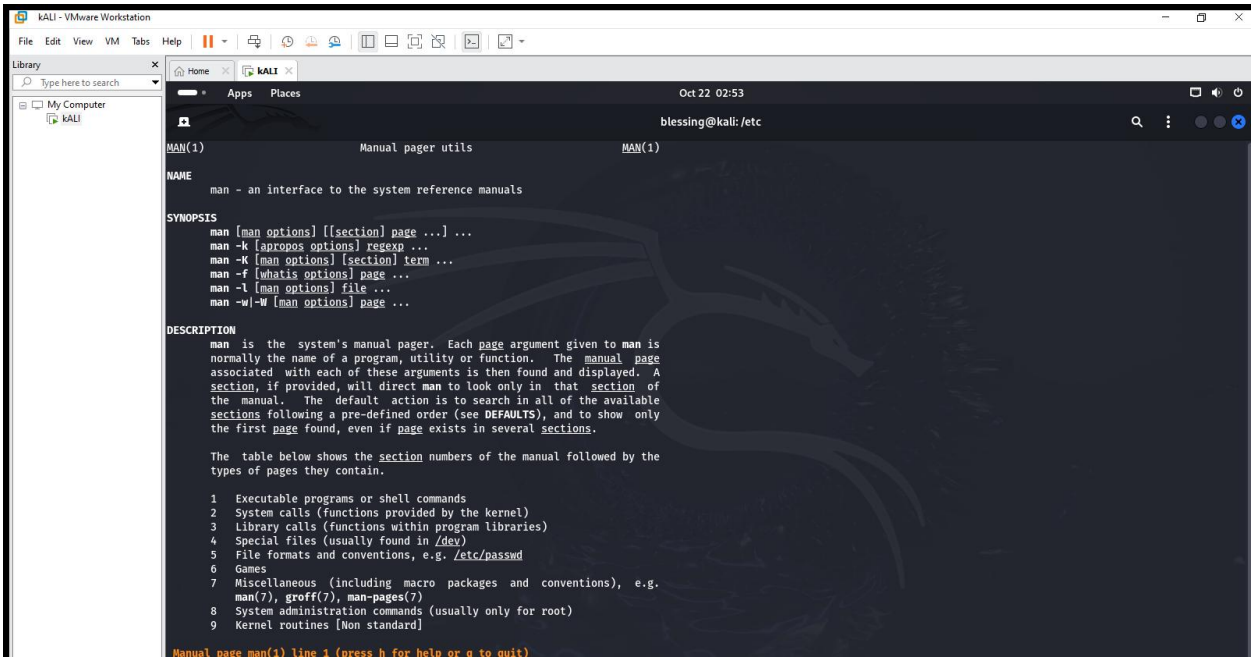
KALI
LAYOUT



- **Familiarization of Kali Linux Shell**

1. Command Documentation

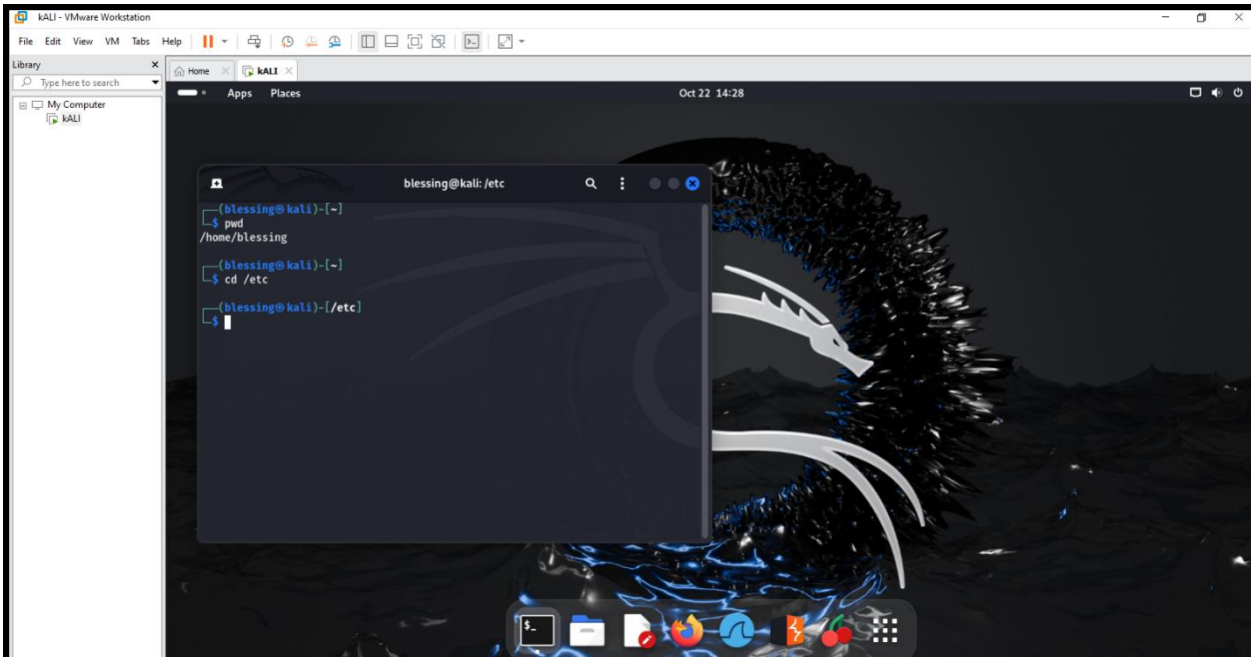
i. The MAN Page – used to display the user manual of any command that we can run on the terminal.



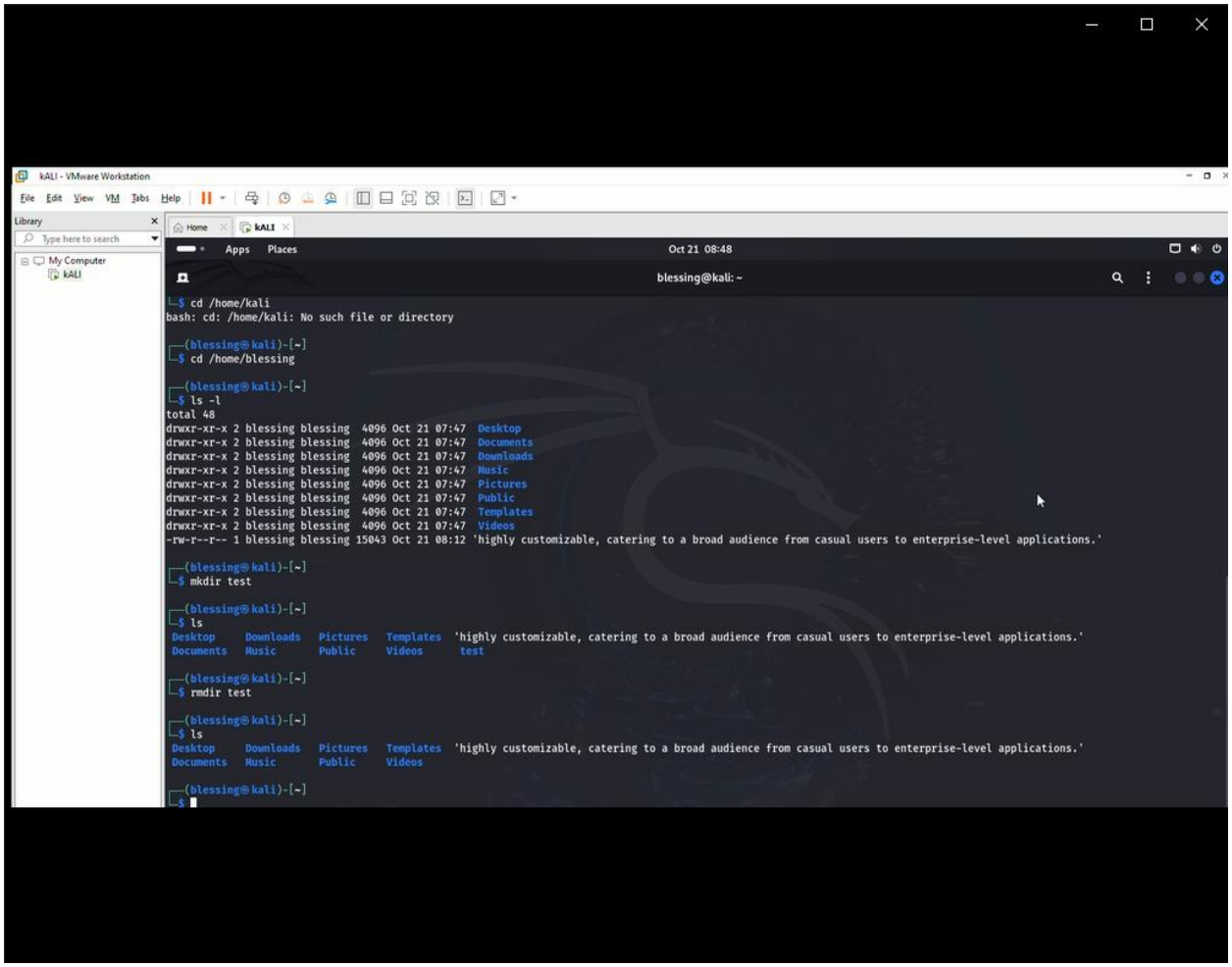
ii. Some sections included in a MAN's page includes: Executable programs or shell commands, System calls, Library calls, Special files, File formats and conventions, Games.

- **Create and Change Directory**

i. Print the current working directory (PWD) - /home/blessing
ii. Navigate to another directory. For example etc – cd /etc



- **List files in current directory**
- **Create new directory**
- **Confirm new directory creation**

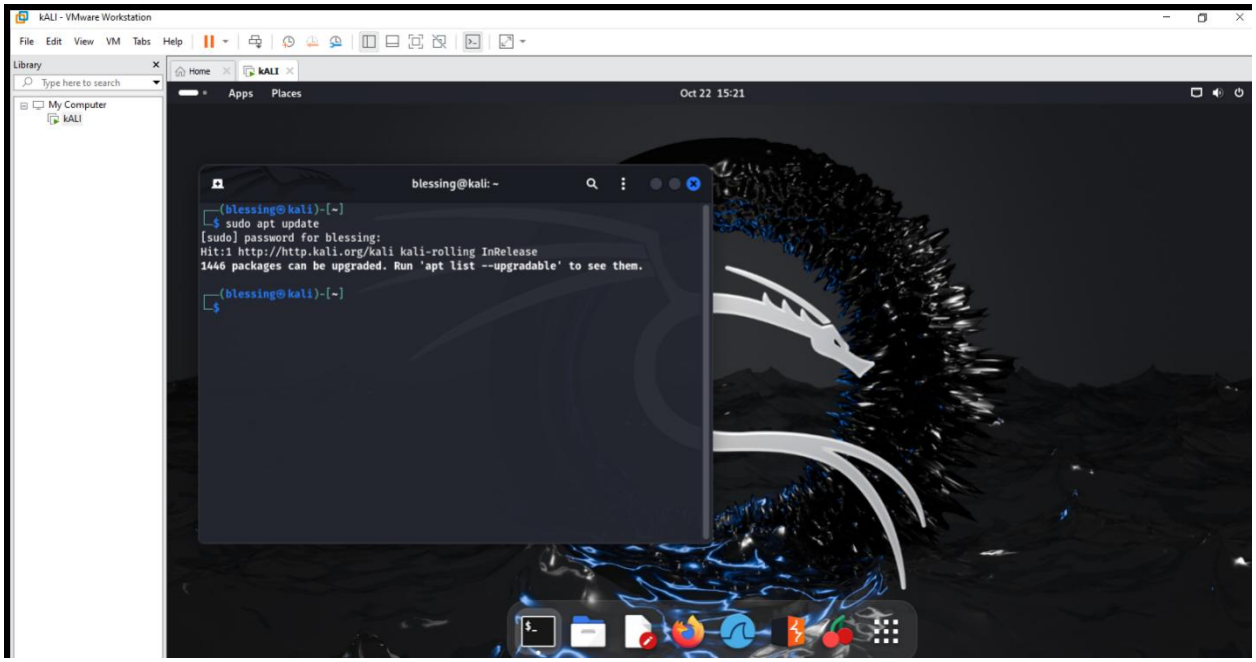


- **Remove the directory**
- **Confirm directory removal**

The picture above includes an example of directory removal and its confirmation.

LAB 2: Installing Packages and Applications

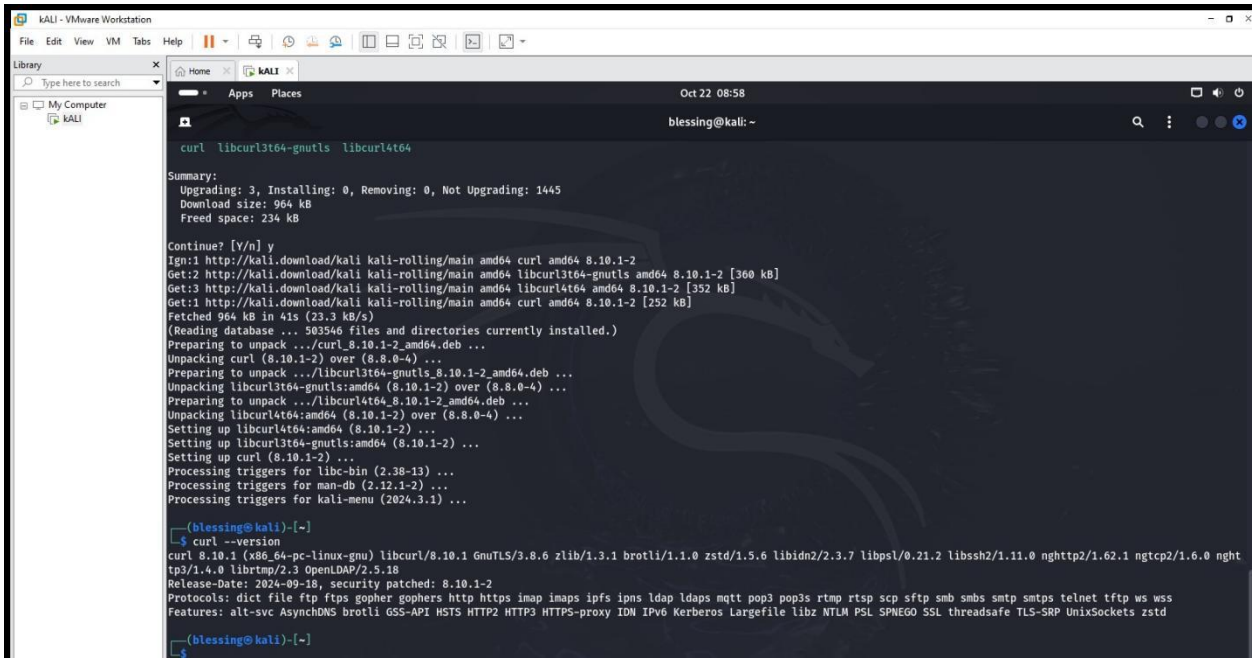
- **Updating Package List**



- **Installing Packages**

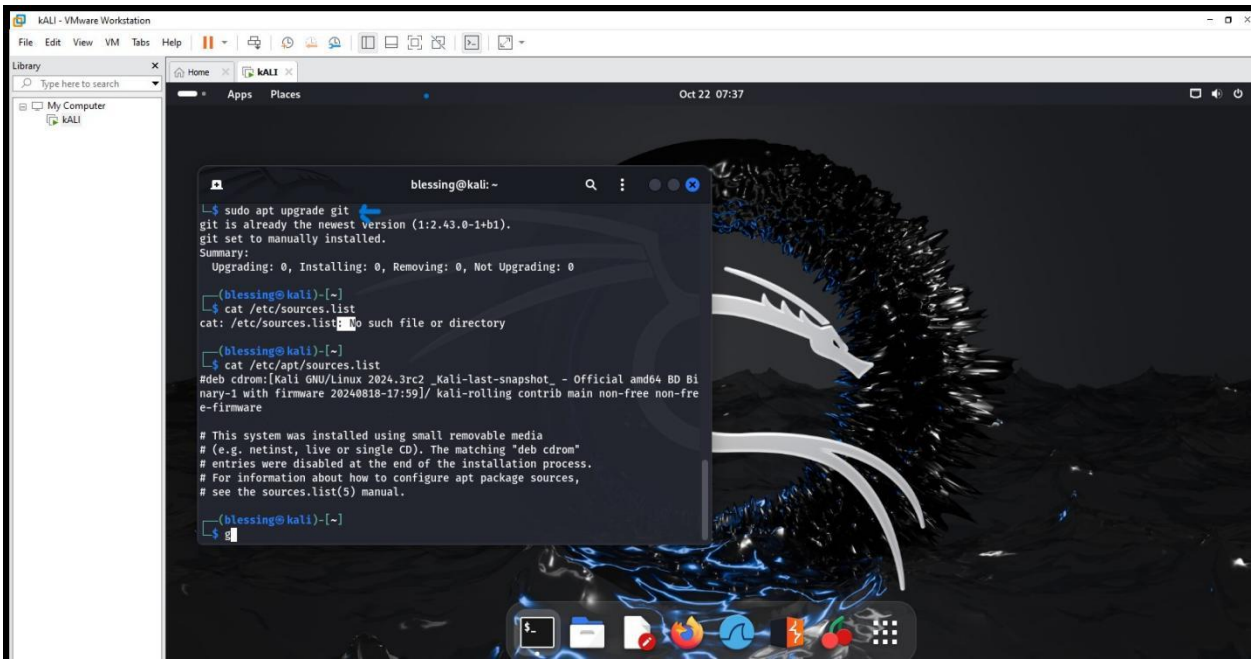
i. Curl Installation

ii. Confirm the Installation

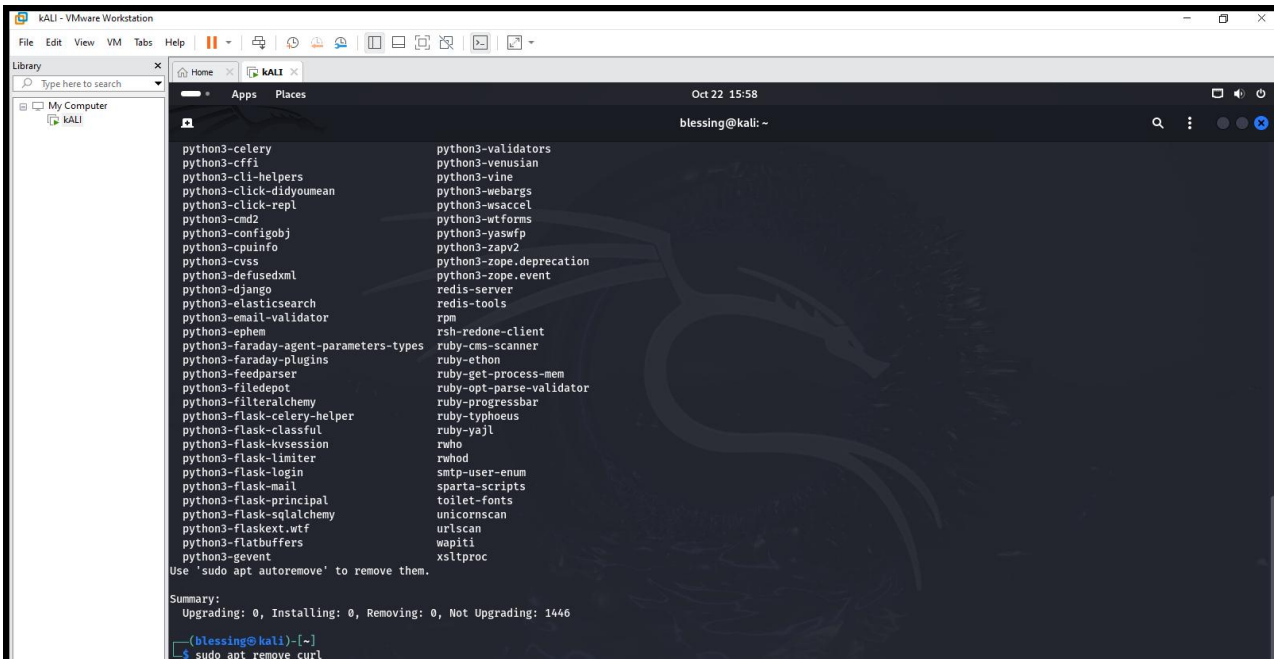


- **Upgrading Packages**

- **Review upgrade messages**



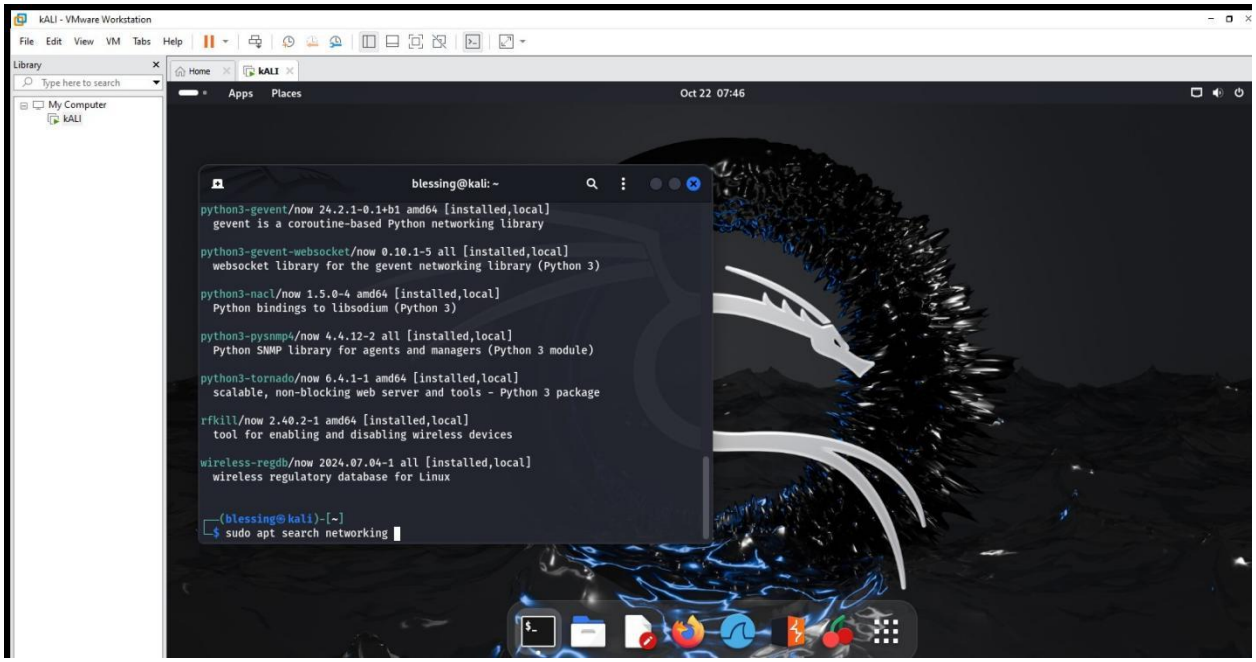
- **Removing Packages**



In the diagram, it shows that curl has already been removed previously.

- **Searching for Packages**

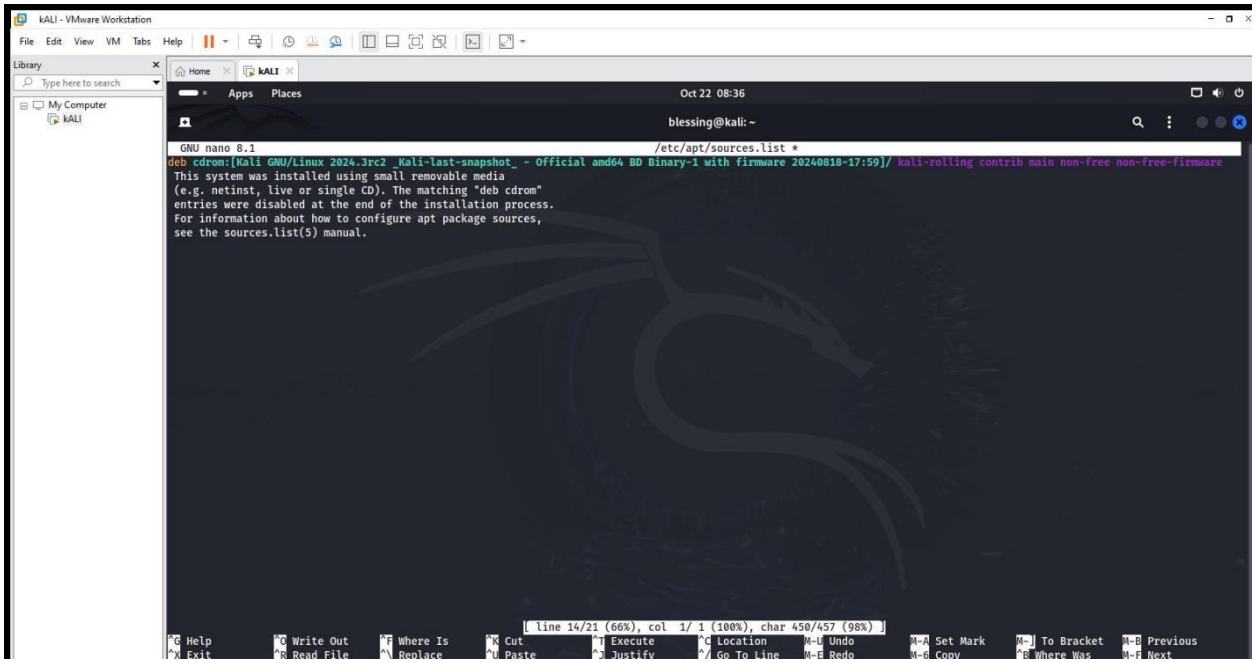
i. Search for Networking Packages



ii. Review Results

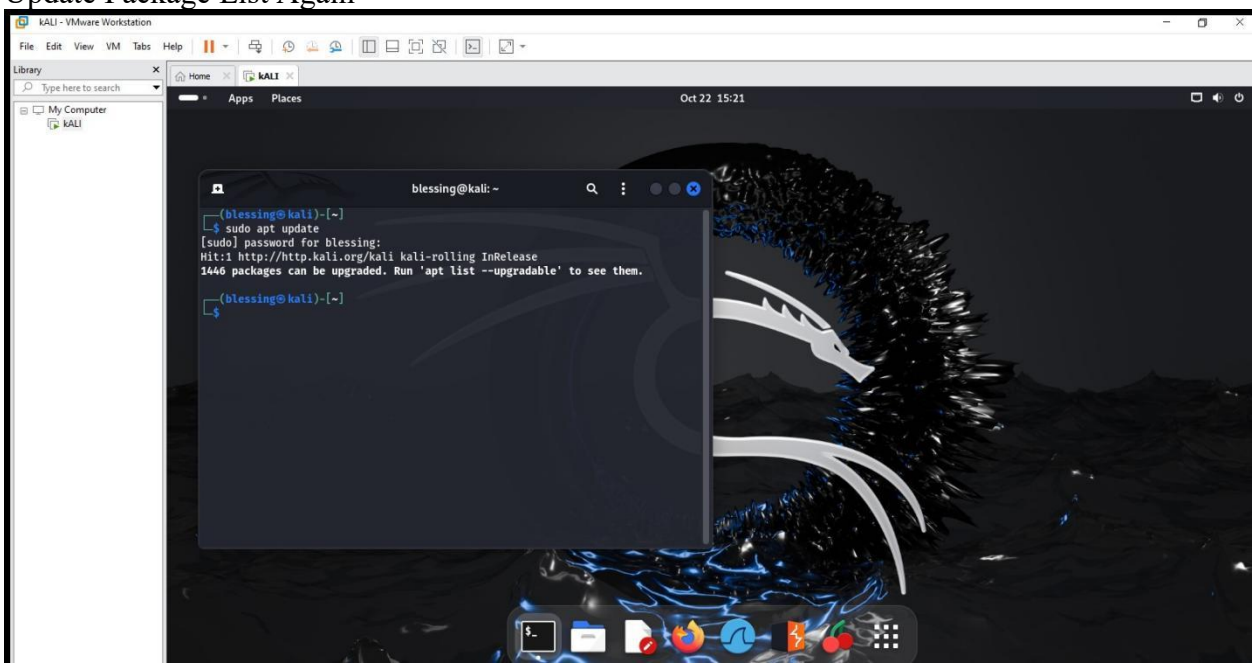
- **Managing Repositories**

i. Edit repositories
ii. Modify repositories entries
iii. Save and Exit: Ctrl + o to save and ctrl + x to exit editor

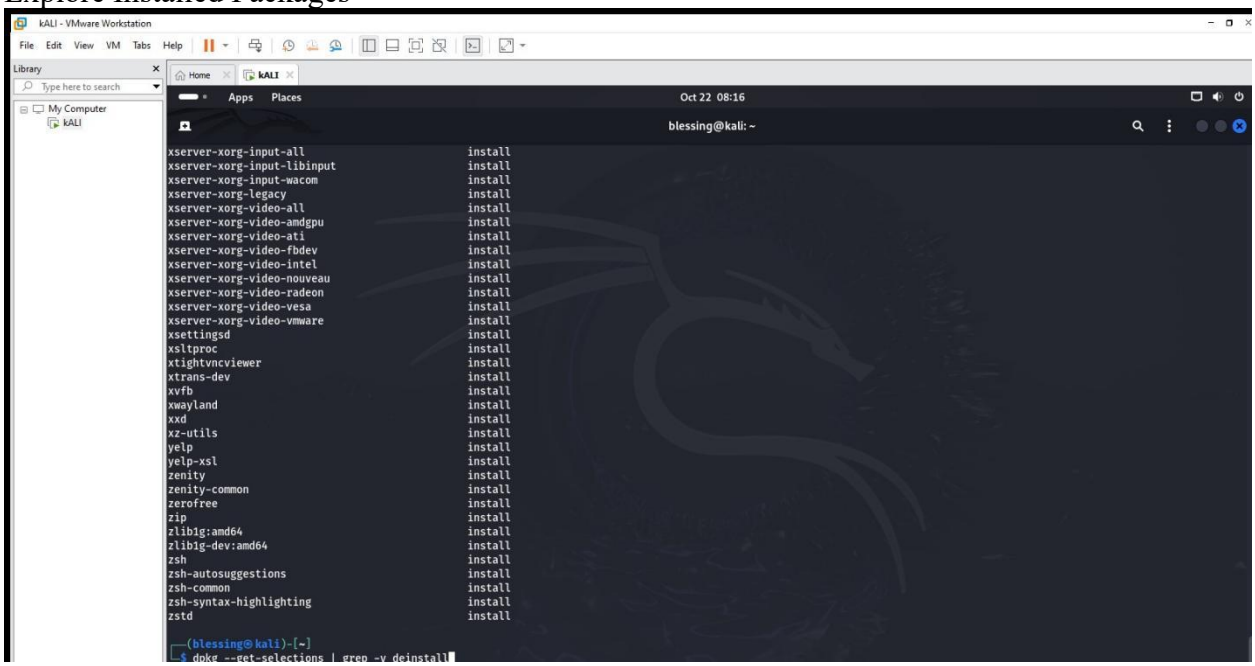


- **Final Review**

i. Update Package List Again



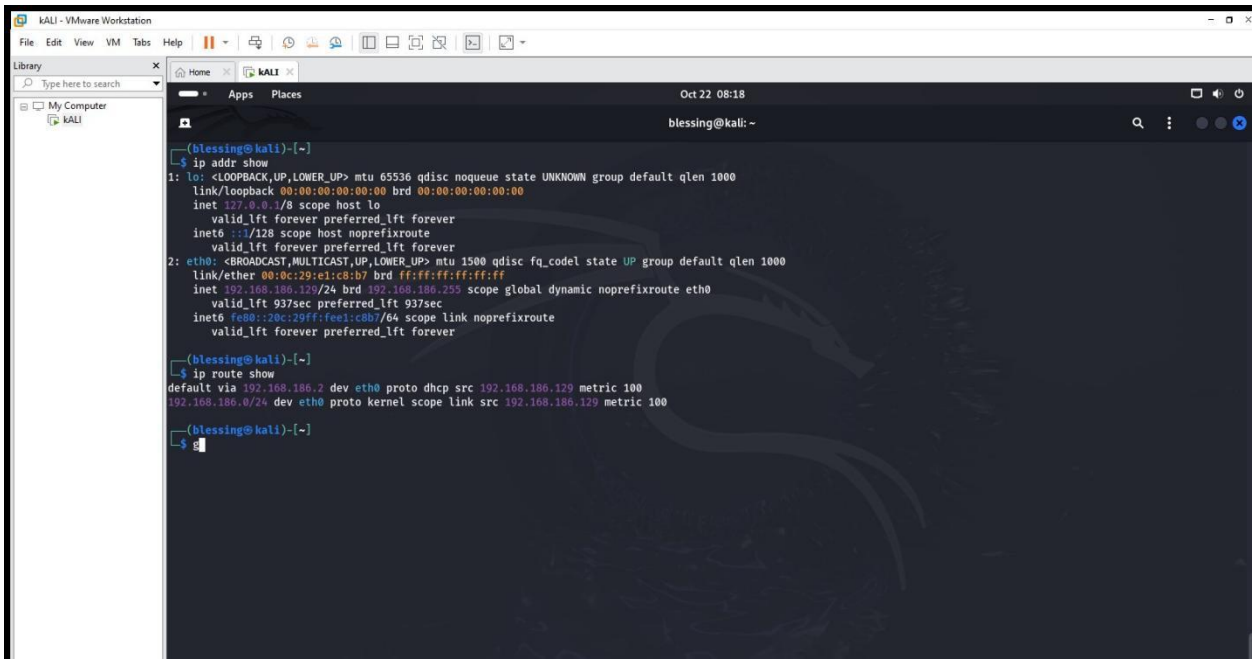
ii. Explore Installed Packages



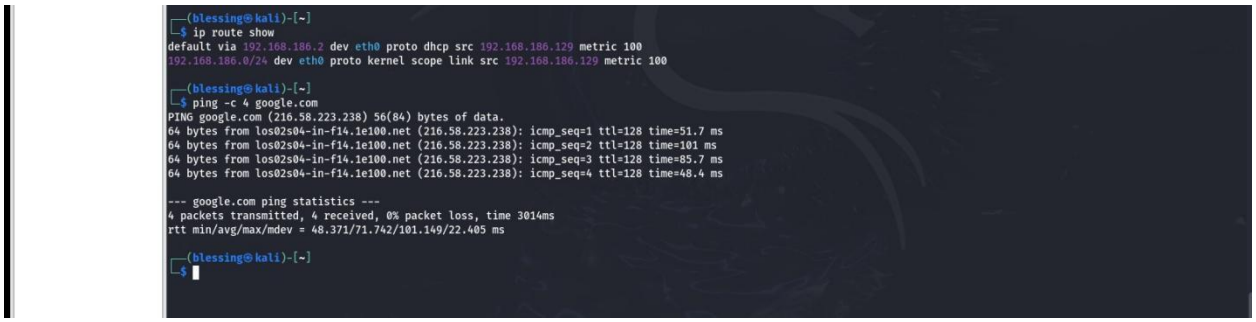
LAB 3: NETWORKING COMMANDS

- **Displaying Network Configuration**

i. Check Network Interfaces

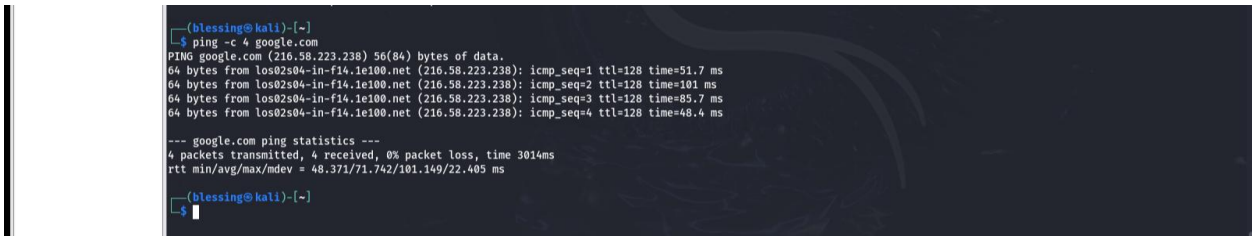


ii. List Routing Table

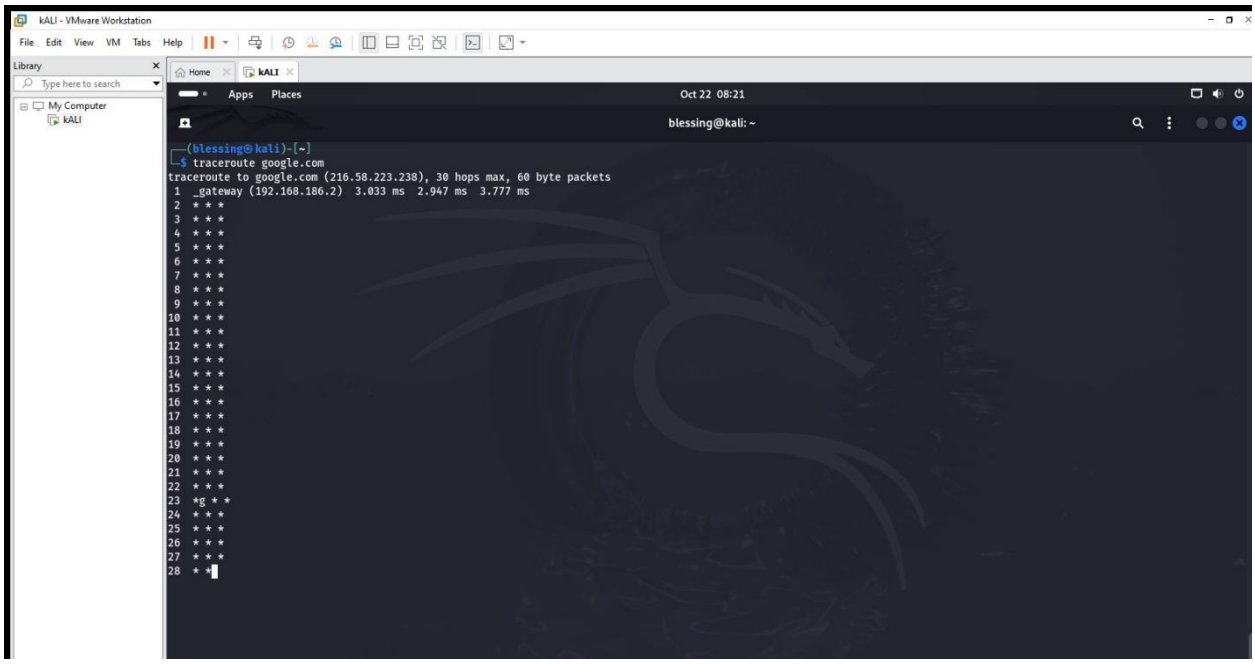


- **Testing Network Connectivity**

i. Ping a Host

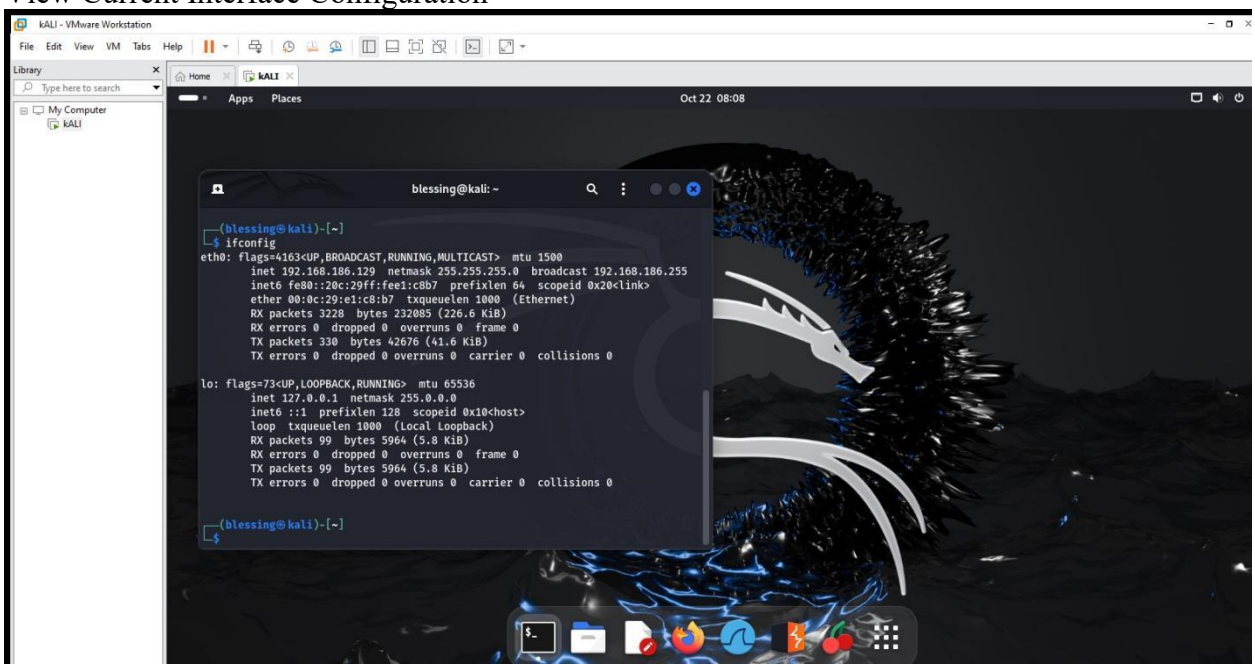


ii. Trace Route to a Host



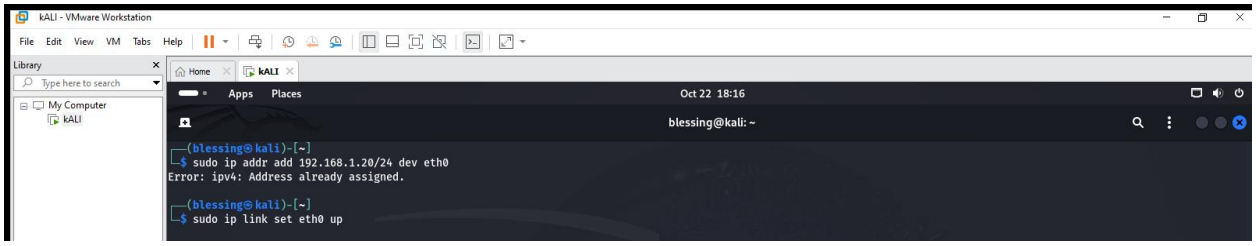
- **Configuring Network Interfaces**

i. View Current Interface Configuration



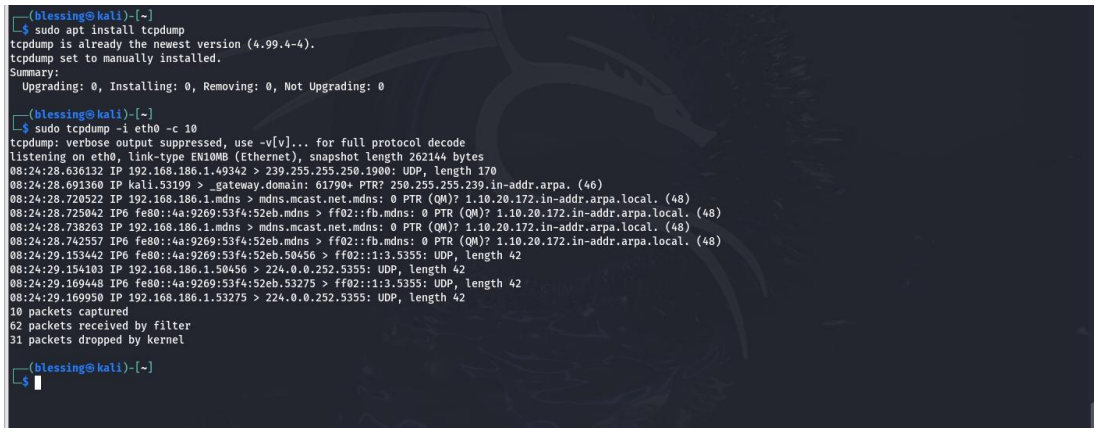
ii. Manually Configure an Interface

iii. Bring the Interface Up

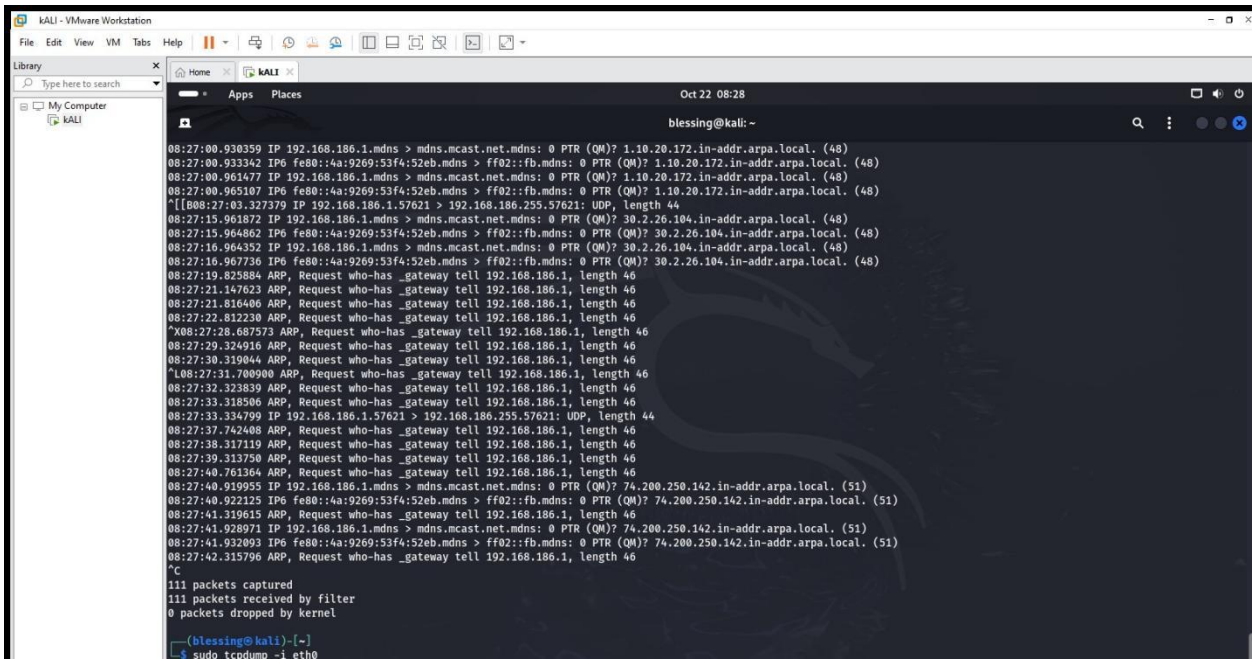


- **Monitoring Network Traffic**

i. Install tcpdump
ii. Capture Network Traffic



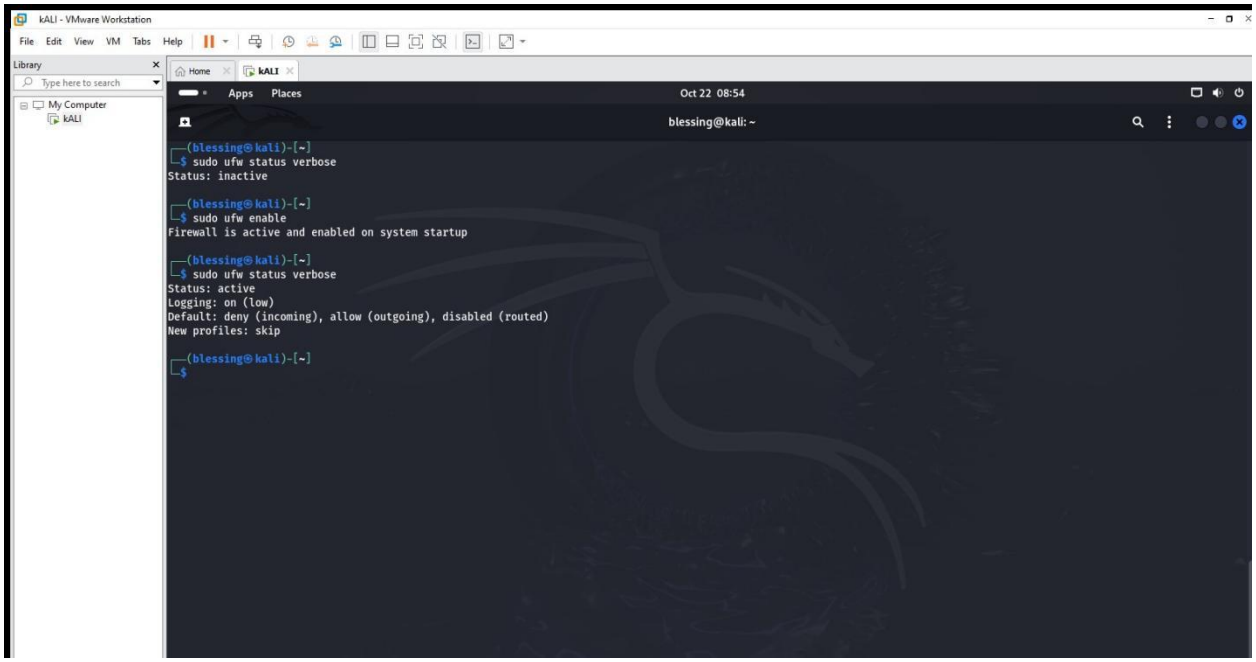
iii. Analyze Network Traffic – Use ctrl + c to stop capture



- **Final Review**

i. Check Network Status

ii. Check Firewall Status


kALI - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
kALI
Home
kALI
Apps Places
Oct 22 08:54
blessing@kali: ~
┌──(blessing㉿kali)-[~]
└─$ sudo ufw status verbose
Status: inactive
┌──(blessing㉿kali)-[~]
└─$ sudo ufw enable
Firewall is active and enabled on system startup
┌──(blessing㉿kali)-[~]
└─$ sudo ufw status verbose
Status: active
Logging: on (low)
Default: deny (incoming), allow (outgoing), disabled (routed)
New profiles: skip
┌──(blessing㉿kali)-[~]
└─$