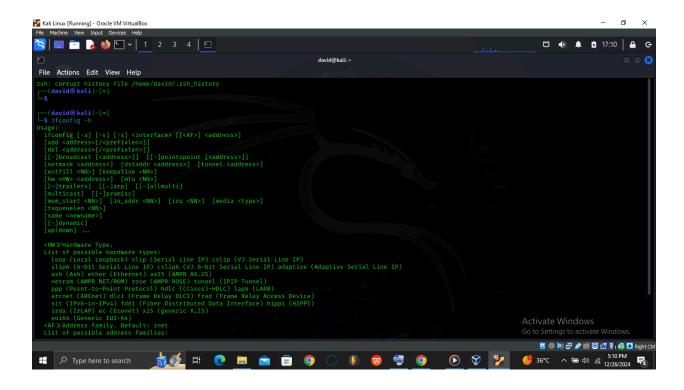
LAB 19:

USING IFCONFIG TO VIEW AND MODIFY NETWORK INFORMATION ON KALI LINUX

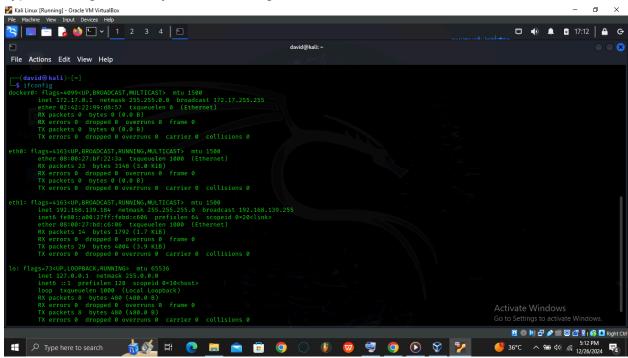
TOOL: KALI LINUX

Step 1: We will begin by viewing the help information screen by executing the following command:

Ifconfig -h



Type "ifconfig" to view your networking information.



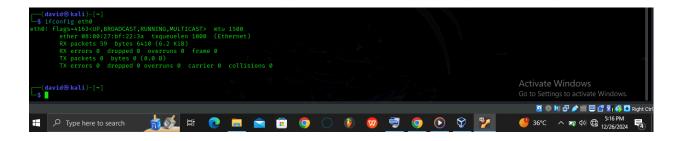
Step 2: To display a short list output, we can use the following command: ifconfig -s



Step 3: We can display information about a specific interface by using the following command:

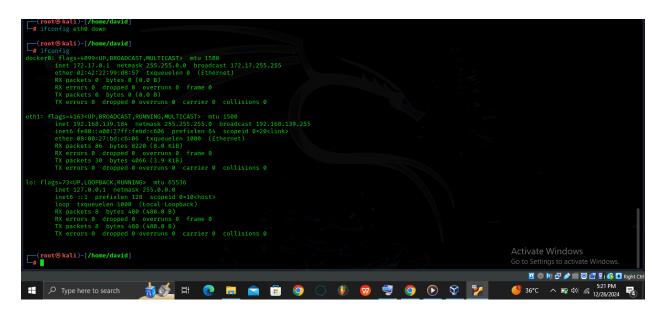
ifconfig [interface-name]

This is useful for determining interface information and for debugging.



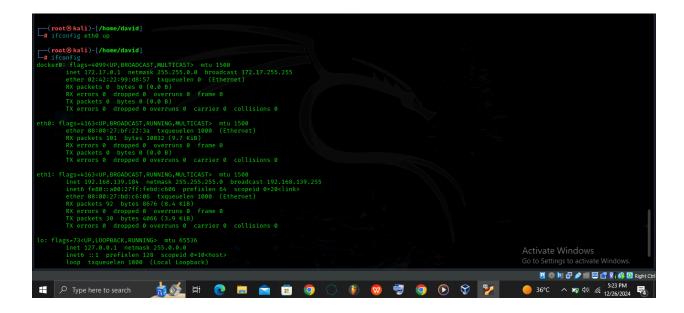
Step 4: We can disable or enable a network interface using an ifconfig flag. For example:

ifconfig eth0 down



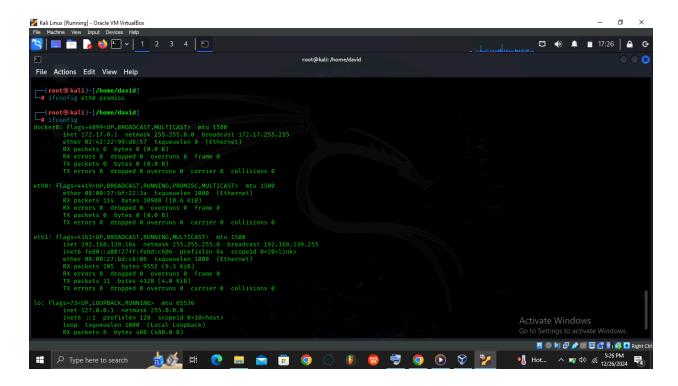
This command will disable our local connection to the Wi-Fi card. To enable it, enter the following command:

ifconfig eth0 up



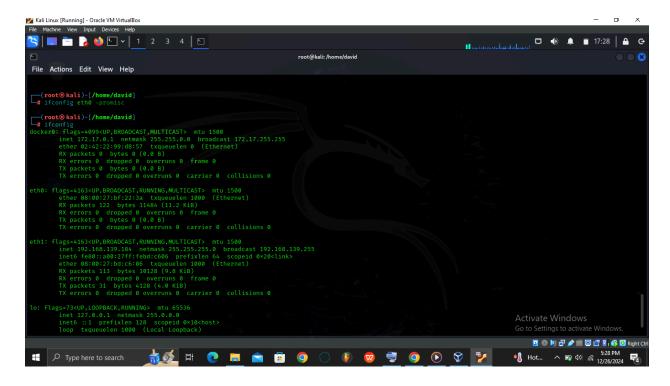
Step 5: We can use ifconfig to enable promiscuous mode on an interface. This will allow the interface to receive all packets on the network. You will need a compatible network card for this to work correctly:

ifconfig eth0 promisc



This can be disabled using the following command:

ifconfig eth0 -promisc



The ifconfig tool also enables you to change the MAC address associated with a network interface. This can be done with the following command:

ifconfig [network-name] hw [class] [hardware-address]

Eg. ifconfig eth0 hw ether 66:3e:7f:60:f2:1f

There are actually 4 sets of Locally Administered Address Ranges that can be used on your network without fear of conflict, assuming no one else has assigned these on your network:

x2-xx-xx-xx-xx x6-xx-xx-xx-xx-xx xA-xx-xx-xx-xx-xx xE-xx-xx-xx-xx

To make the changes permanent, open the file below and add the following lines in it:

nano /etc/network/interfaces

pre-up ifconfig eth0 hw ether AA:22:33:44:55:66

Reboot the system. The new MAC address will appear.