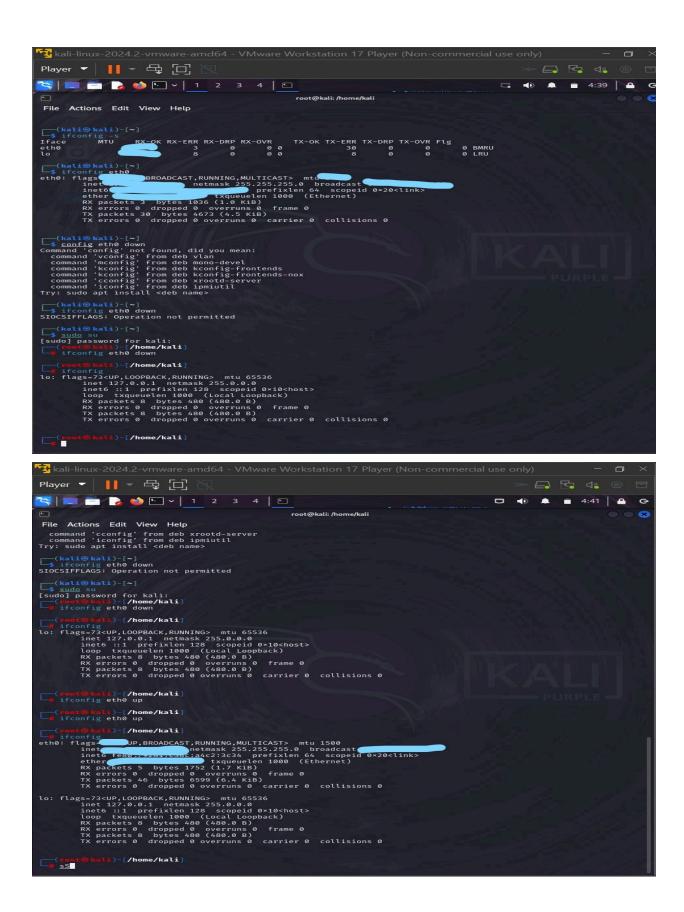
USING IFCONFIG TO VIEW AND MODIFY NETWORK INFORMATION ON LINUX

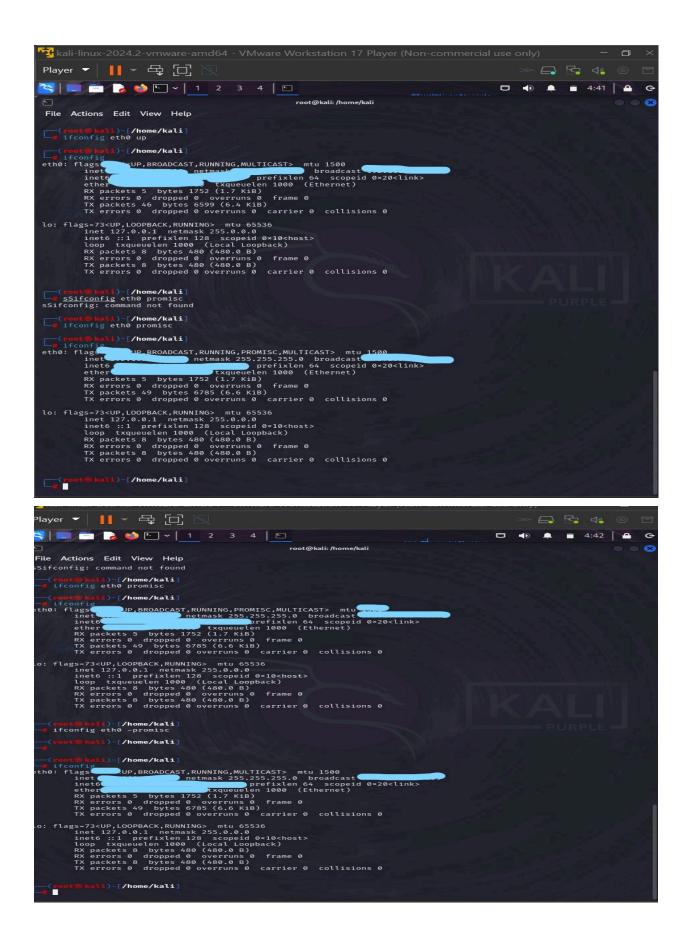
Tools: IFCONFIG on KALI

Site: No site

The ifconfig command is a network configuration utility used in Unix-based operating systems like Linux and macOS. It displays and manages network interfaces on a system. When you run ifconfig, it shows information about your network interfaces, including IP addresses, MAC addresses, network masks, and other details. It is used primarily for configuring and troubleshooting network settings.

Input from ifconfig:





Results of ifconfig and some of its variants and usage.

Here we used ifconfig to view and modify network information on linux. We will begin by viewing the help information screen by executing the following command: Ifconfig -h We open a terminal to begin, and type "ifconfig" to view your networking information.

As you will see, there will be a lot of information, including your local IP addresses. New Linux distributions do not have the "ifconfig" command installed. In this case, you can use the "ip addr" command.

To display a short list output, we can use the following command: ifconfig -s We can display information about a specific interface by using the following command: ifconfig [interface-name] e.g [ifconfig eth0] This is useful for determining interface information and for debugging.

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

We can use if config 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

xA-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.