Changing the MAC Address

● Media Access Control is given to a network adapter when it is manufactured. It is hardwired or hard-coded onto your computer's network interface card (NIC) and is unique to it. Something called the ARP (Address Resolution Protocol) translates an IP address into a MAC address. The ARP is like a passport that takes data from an IP address through an actual piece of computer hardware.
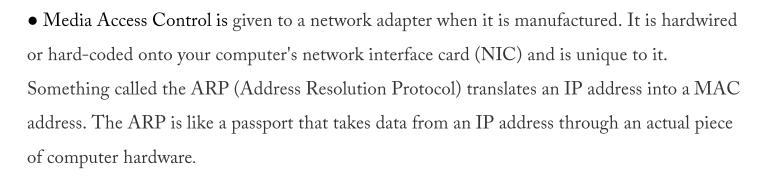
○ Permanent

. ○ Physical.

○ Unique

. ● Assigned by manufacturer.

Why change the MAC Address?

1. Increase anonymity.

2. Impersonate other devices.

3. Bypass filters.

We will gain the above advantages by changing the MAC address.

We will be Using a Module To Execute System Commands

The subprocess module contains a number of functions.

● These functions allow us to execute system commands.

● Commands depend on the OS which executes the script.

Syntax:

import subprocess subprocess.call("COMMAND", Shell=True)

Mac_Changer Variables

- A variable is a location in memory that contains a certain value.

  - Similar to maths, its a name that is used to store information.

Ex:

 X = 1 Now x has a value of one, so we can do

Y = x + x And y has a value of 2 now.

 print(y) Will print the value of y on screen which is 2.

Handling user input

- Easiest way of getting user input is through keyboard.

  - There are a number of ways to achieve that.

  - input() function prompts the user to enter a value.

Ex: age = input("What is your age?") Result What is your age ? The variable age will hold the value of the user input

Algorithm

Setps:

1. Execute and read ifconfig.

2. Read the mac address from output.

3. Check if MAC in ifconfig is what the user requested.

 4. Print appropriate message.