# WifiSniffing

statistical survey

nowaday almost 70 percent of people access to the smart phone

in the wifi we have seven mode that we discuss about three important mode which are:

1- monitor  
2- managed  
3- master

this link is for standard text file that include the information of vendor such as mac address and the name of company <http://standards-oui.ieee.org/oui.txt>

onr of the method for counting number of people with sniffing is that counting their devices that use them so i change the standard oui file and exploit all the vendor that prodeuce the smart device that people use in a day for instance laptop or phone or tablet

first of all install all the dependency with pip install -r requirements.txt command

we should keep update and get new things in linux:

sudo apt clean

sudo apt autoremove

sudo apt-get update --fix-missing

sudo apt-get full-upgrade --fix-missing

sudo apt-get install python3

sudo apt-get install python3-pip

sudo apt-get install wireshark

sudo dpkg-reconfigure wireshark-common

sudo usermod -a -G wireshark ${USER:-root}

sudo apt-get install tshark

sudo pip3 install pyshark

with this link we can find all the type of filtering about the wireless lan <https://www.wireshark.org/docs/dfref/w/wlan.html>

sudo iwconfig

sudo iwconfig <interface> mode monitor

sudo iwconfig <interface> mode managed

sudo ifconfig <interface> down

sudo ifconfig <interface> up

tshark for getting packets

sudo tshark -i <interface> -I

-I capture in monitor mode, if available

you need to be a super user to access the tshark commadn for capturing packets

for debugging you can use:

sudo lspci

sudo ifconfig

iw dev

cat /proc/net/wireless

all things tested on linux 20.04 focal

with this commands we can see all the network interface card that available in host

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