CS212 – PROJECT

PACKET SNIFFER USING SCAPY PYTHON

Things to install in your system in order to run the file

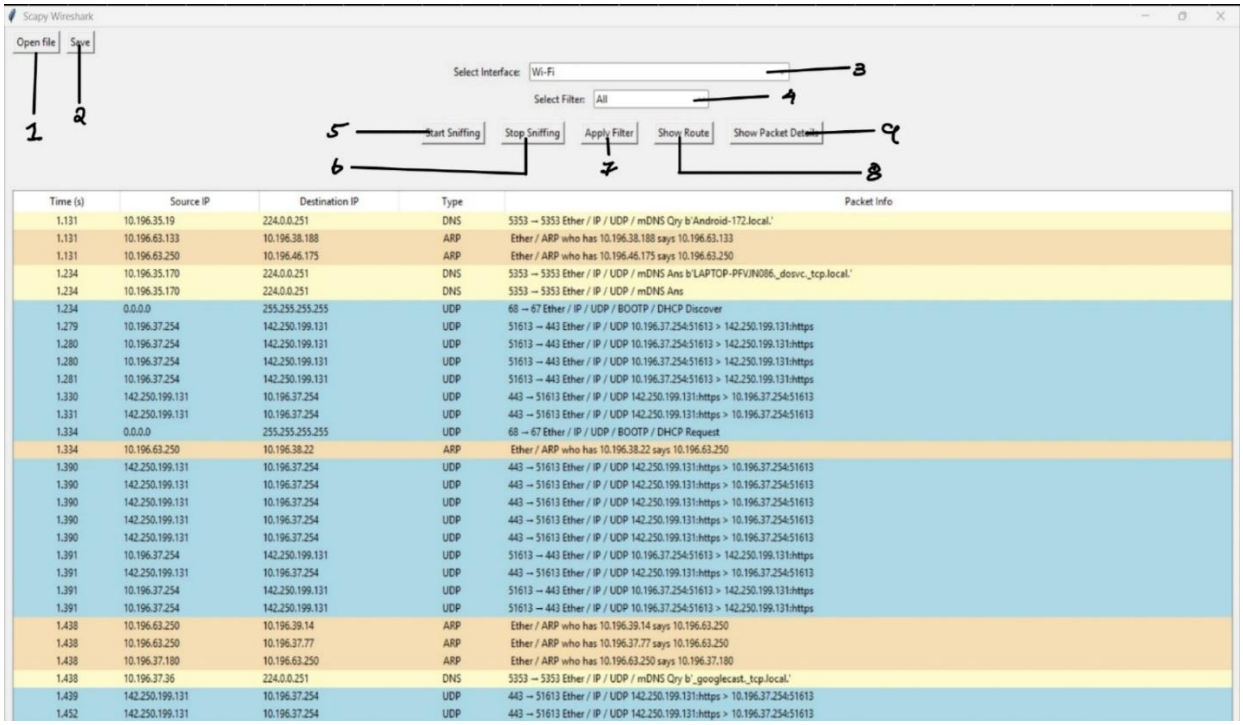
- **NCAP**
  Source : (https://nmap.org/npcap/)
- **SCAPY**
- **NETWORKX**
- **MATHPLOTLIB**

Git Hub Link : https://github.com/sayanthsunil2005/CS212_PROJECT

For Running the File

- **First make sure that the above mentioned files are installed in your system**
- **download the program file named "project.py" from the github link given above**
- **run the file in your terminal or in vs code**

Graphical User Interface

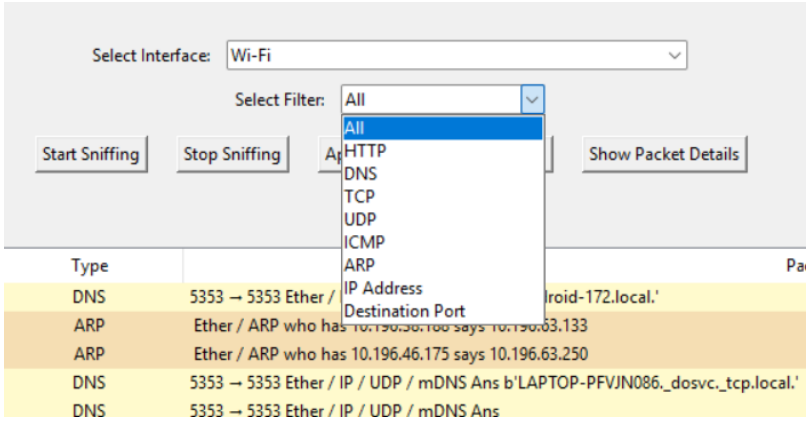


1. Open file Button : used to open file of packets which is in .pcap format

2. Save Button : used to save captured files in .pcap format

3. Select Interface tab : in this tab you van select the interfaces like wifi ithernet etc

4.



Select Filter tab : using this tab you can filter packets with difference in protocols

- **HTTP**
- **DNS**
- **TCP**
- **UDP**
- **ICMP**
- **ARP**
- **IP Address**
- **Destination port**

Only in case of ip address and destination port you will get a text box in that you can enter the ip address or destination port number respectively

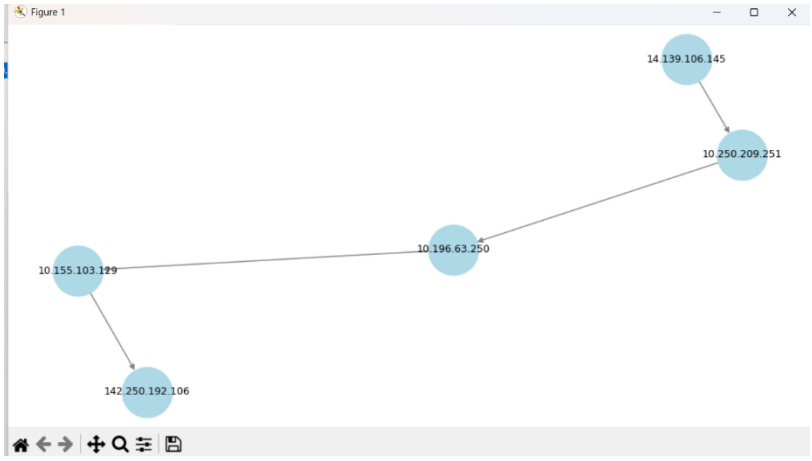
After selecting click Apply filter button .you can see the filtered results

5.Start sniffing button : this button is used to start capturing the packets

6.Stop Sniffing button : this button is used to stop capturing the packets after capturing starts

7. Apply filter Button : used to show the filtered results after selecting the desired filter

8. Show Route Button : this Button is used to show the route of the packet .it will show the pictorial representation of the route or the hopes which all are it is passing through. like the image below



9 . Show Packet Details : this button is used to show the details of packet after selecting a packet . after clicking you will get a window containing the packet details