What is a Packet Sniffer?

On Internet data is sent through files like a web page or a zip file, but what goes on underneath, files are sent in the form of packets.

packets contains data along with headers, these packets are combined and files are generated on the client.

Packet Sniffer is a program that captures sent over internet.

Example of a packet sniffer is Wireshark.

Wireshark captures packets on adapters like ethernet adapters, wireless or (wifi) adapters or loopback address or adapter.

You can download Wireshark from www.wireshark.org

Wireshark can capture data packets using filters

Example of Wireshark Filters are

ip.addr == 10.0.0.1

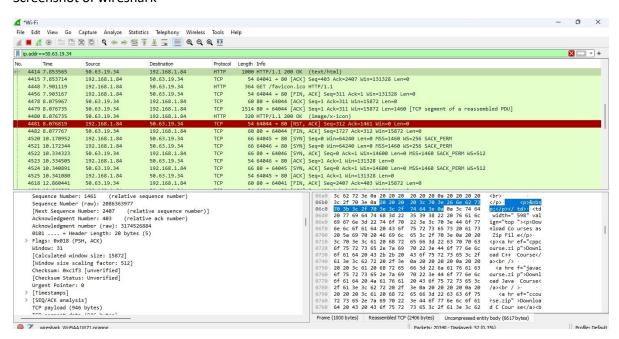
means listen for packets on ip address 10.0.0.1

tcp.port==4000

means listen on tcp port equal to 4000

http means listen for packets sent through http protocol

Screenshot of wireshark



What is a Port Scanner?

Port Scanner is a software that checks for open and close ports on a server.

open ports means ports on which server is listening.

listening means server will listen to requests from clients.

close ports means server cannot listen for client requests.

Example of Port scanner is nmap.

nmap command to scan ports from 1 to 100 on localhost is

nmap -p 1-100 localhost

Following is the screenshot of nmap

