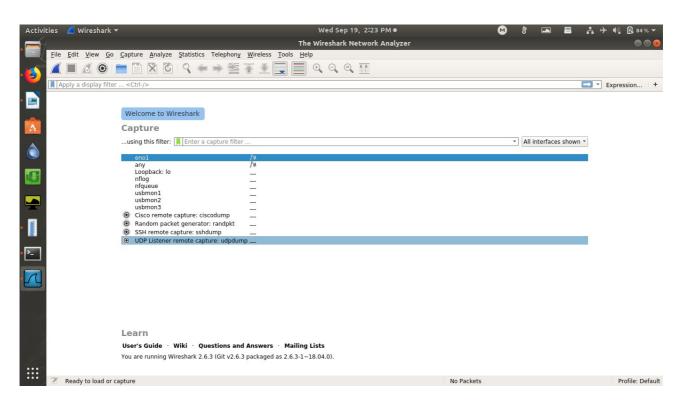
Introduction:

- It is the most popular open source network sniffer and packet / protocol analyzer solutions.
- It was previously known as ethereal . But renamed as wireshark.

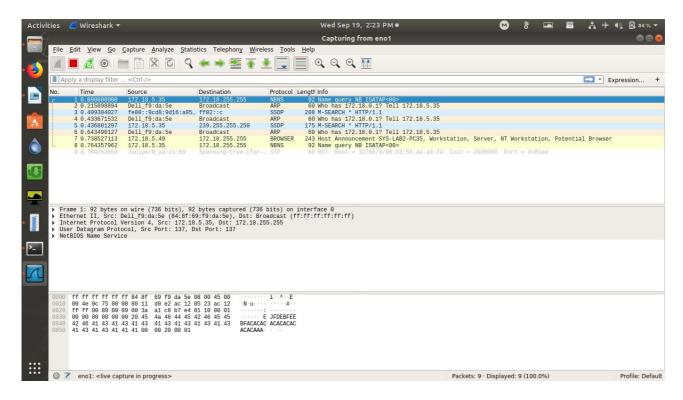
Features:

- Live data capture
- · support for offline protocol analysis
- Enriched UI
- Supports almost all network, application and transport protocols.
- Display packets with very detailed protocol information
- · Save captured packet data.

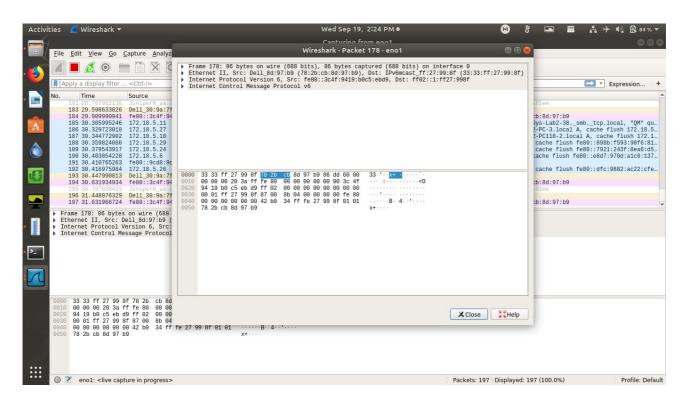
wireshark main window:



Ethernet interface monitoring:

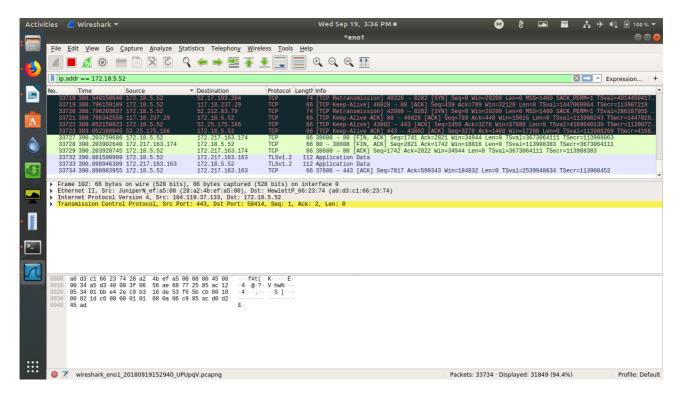


Packet details:

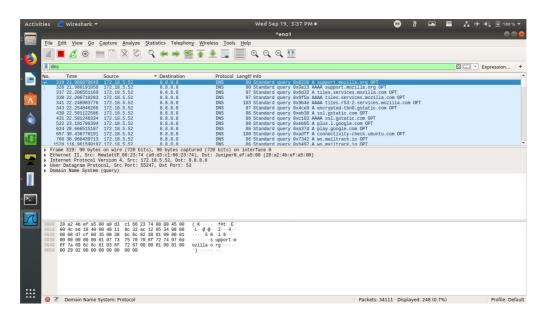


filter packet by ip address

syntax :ip.addr == <ip_addr> -> put this in display filter



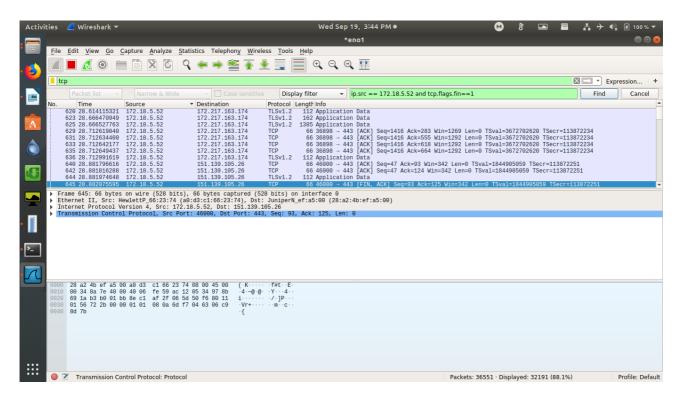
filter packet by protocol name



FIND Packet:

if you want find the syn packet for some specific ip address then go to EDIT --> Find packet then enter

syntax: ip.src == <ip.addr> and tcp.flags.syn==1



Introduction:

- It is the premium network analysis tool for information security professionals.
- · It is simpler than wireshark.

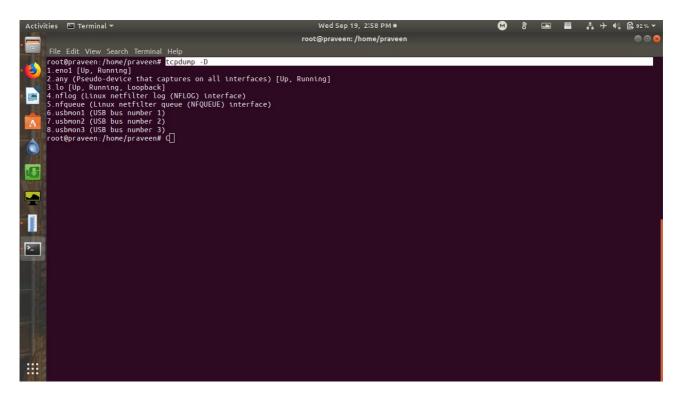
Options:

1.tcpdump -i any - listen to all interfaces for traffic

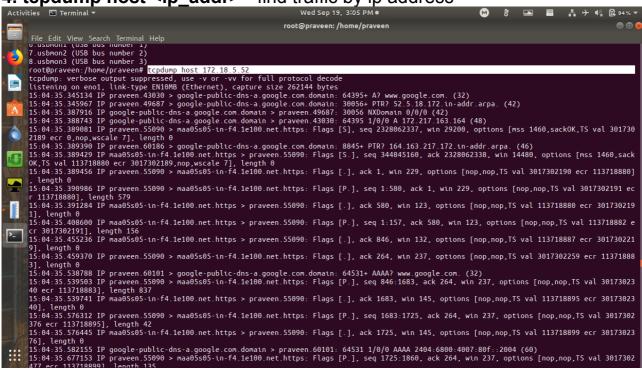
```
| Terminal | Framinal | Framinal
```

2. tcpdump -i eno1 : Listen on the eno1 interface

3 . **tcpdump -D**: show the list of available interfaces



4. tcpdump host <ip_addr> - find traffic by ip address



- 5 . tcpdump net <subnet_mask> find packets by subnet
- **6** . **tcpdump port <number> -** filter traffic by port number

7 . tcpdump protocol> - filter traffic by protocol

