

EXPERIMENT 8

AIM: Study of packets sniffer tools wireshark.

Steps:

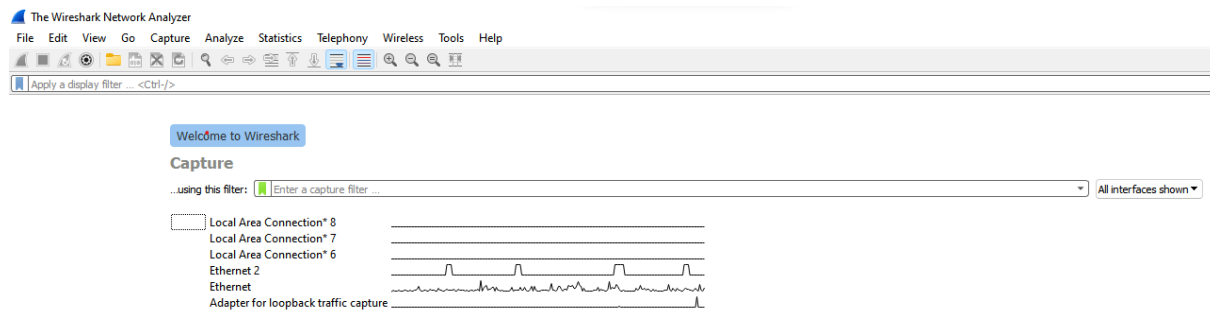
1. Installation of wireshark in windows

The screenshot shows the Wireshark website's download page. At the top, the Wireshark logo is on the left, and navigation links 'NEWS', 'Get Acquainted', 'Get Help', and 'Develop' are on the right. A banner below the header promotes 'SharkFest'22 EUROPE. The main content area states 'The current stable release of Wireshark is 3.6.8.' and 'You can also download a development release (4.0.0rc2) and documentation.' Below this is a table of download links:

Stable Release (3.6.8) • September 7, 2022
Windows Installer (64-bit) Windows Installer (32-bit) Windows PortableApps® (64-bit) Windows PortableApps® (32-bit) macOS Arm 64-bit .dmg macOS Intel 64-bit .dmg Source Code
Old Stable Release (3.4.16) • September 7, 2022
Development Release (4.0.0rc2) • September 14, 2022
Documentation

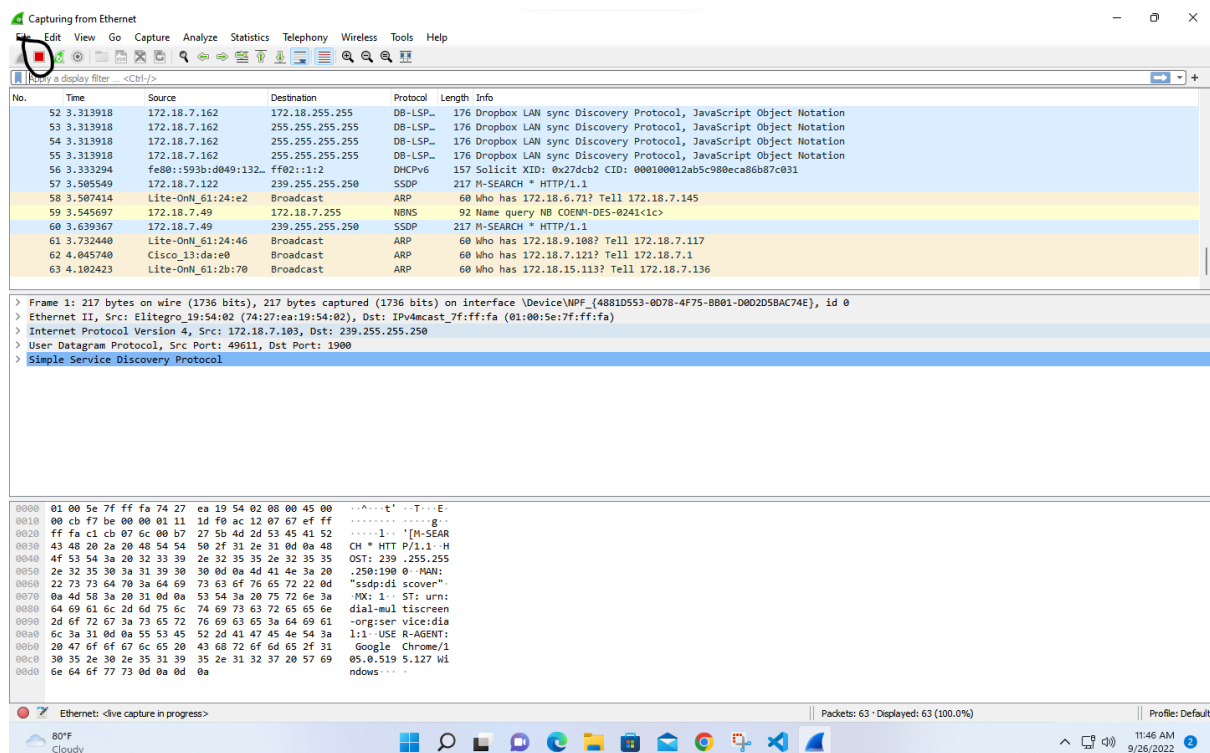
Below the table, it says 'More downloads and documentation can be found on the [downloads page](#).' To the right, there is a 'Wireshark Sponsors' section with logos for endace, FMADIO, sysdig, and SCOS.

2. After downloading and installing Wireshark, you can launch it and click the name of an interface under interface list to start capturing packets on that interface. For example, if you want to capture traffic on the wireless network, click your wireless interface. You can configure advanced features by clicking capture options.

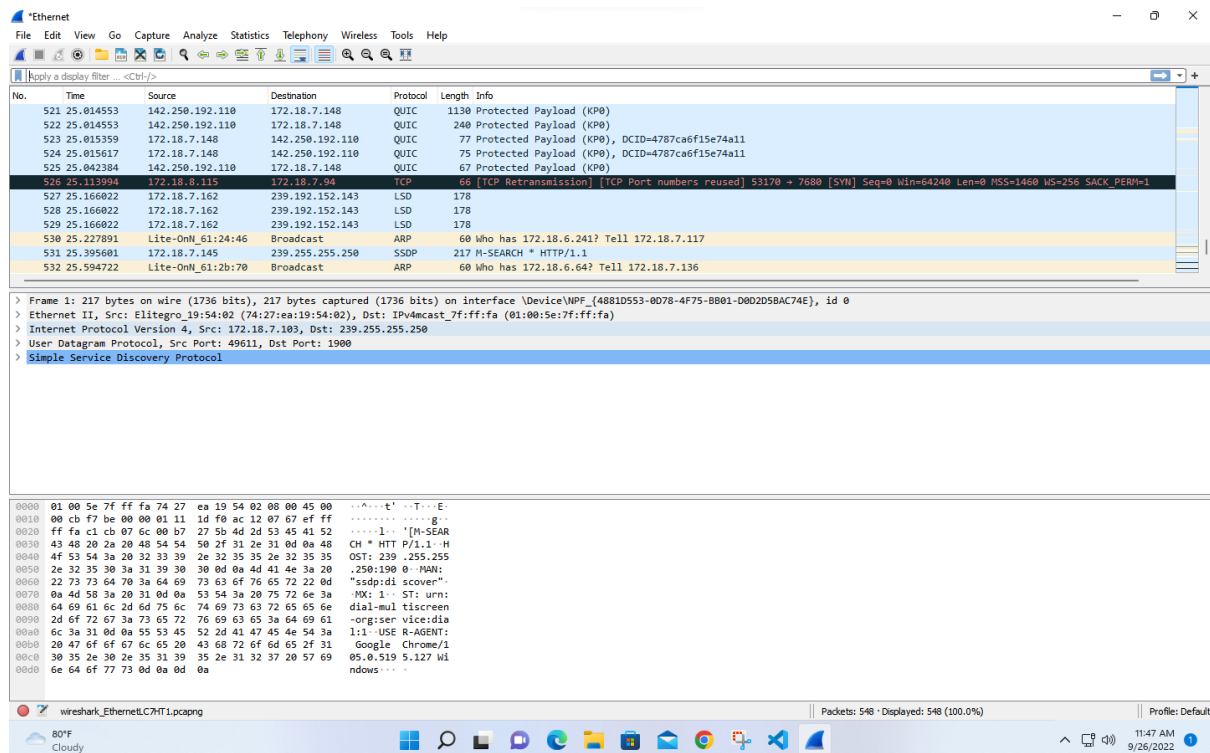


3. As soon as you click the interface name, you'll see the packets start to appear in real time. Wireshark captures each packets sent to or from your system. If you are capturing on a wireless interface and have promiscuous mode enabled in your capture options, you will also see other packets on the network.

4. Click the stop capture button near the top left corner of the window when you want to stop capturing traffic.

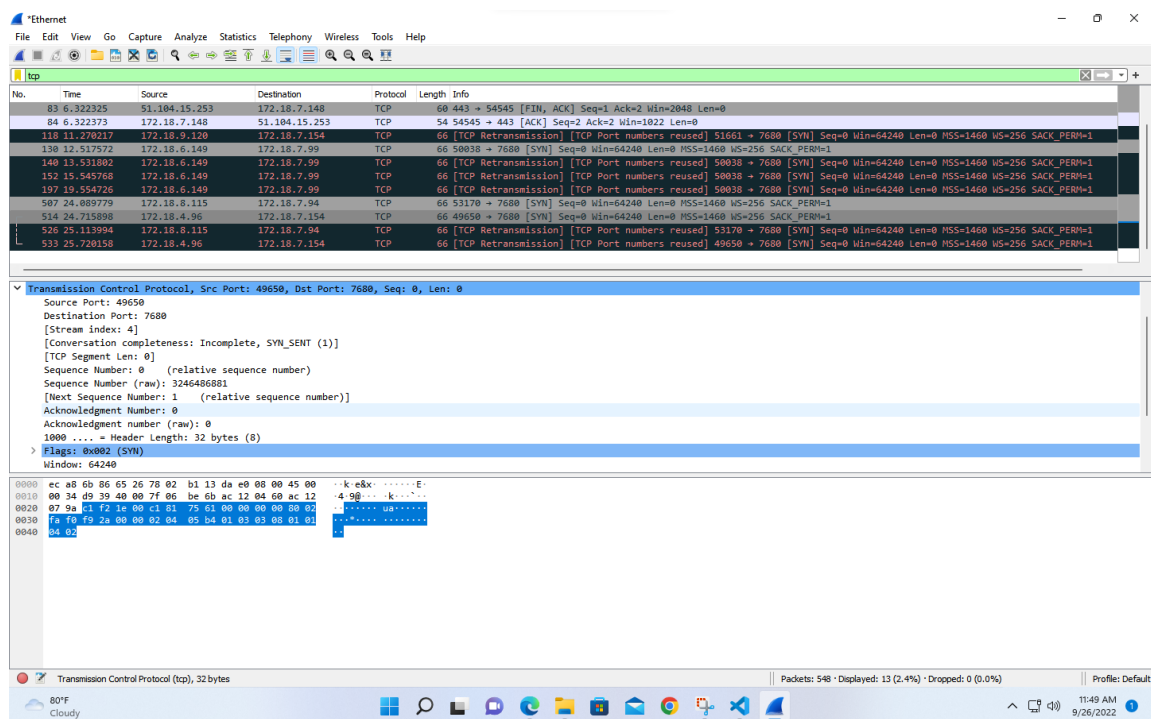
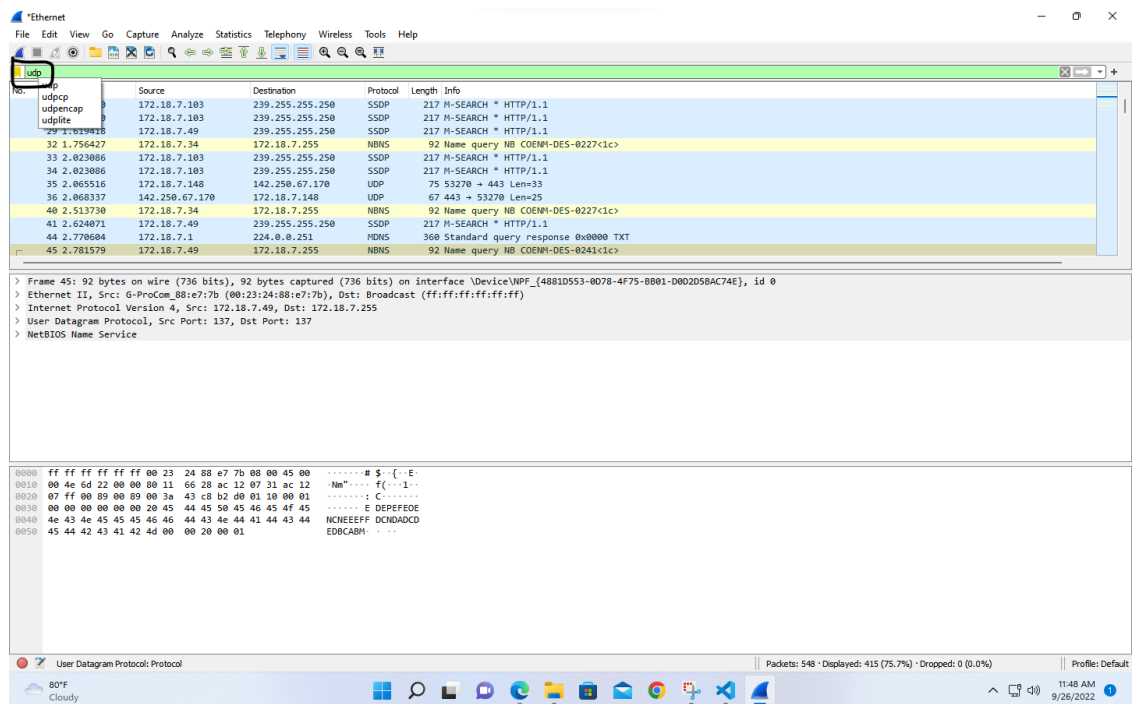


5. Wireshark uses color to help you identify the types of traffic at a glance. By default, green is the TCP traffic, dark blue is DNS traffic, light blue is UDP traffic and black identifies TCP packets with problems - for eg They could not have been delivered out-of-order.



Filtering Packets

If you're trying to inspect something specific, such as the traffic a program sends when phoning home, it helps to close down all other applications using the network so you can narrow down the traffic. Still, you'll likely have a large amount of packets to sift through. That's where Wireshark's filters come in. The most basic way to apply a filter is by typing it into the filter box at the top of the window and clicking Apply (or pressing Enter). For example, type `-dns` and you'll see only DNS packets. When you start typing, Wireshark will help you autocomplete your filter.



Conclusion:

Packet sniffing method is used by network administrator to troubleshoot the problem by understand the logs generated by the tool used as packet sniffer. Thus, we have successfully installed sniffing tool such as wireshark to sniff the traffic ongoing in the network.