

Assignment No. 03

Semester: Fall 2023

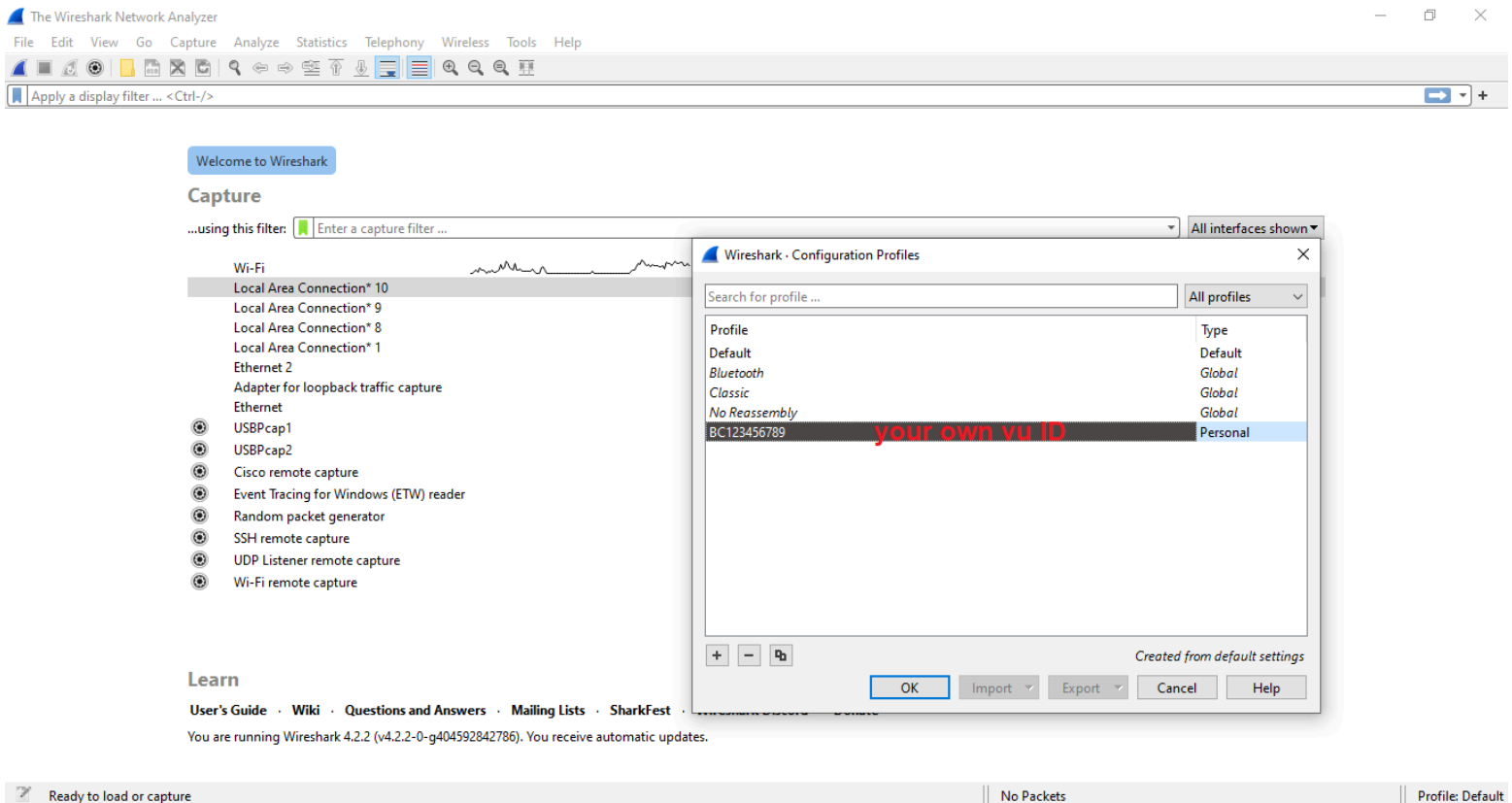
CS610P: Computer Networks (Practical)

Just for idea you are required to install Wireshark for this Assignment

Assignment Tasks:

1. Create a new troubleshooting profile with your VU Student ID and Name using Wireshark.
2. Browse the website of DigiSkills <https://digiskills.pk/> and start capturing the HTTP related traffic.
3. Take the screenshots of the above-mentioned tasks (1 and 2), paste in the MS Word file as your solution and submit on VU-LMS within its due date.

Task 1



Task 2

Apply filter and Take a screenshot

The image shows a Wireshark network traffic capture. The top pane displays a list of packets. The bottom pane shows the details of the selected frame (Frame 1: 209 bytes on wire (1672 bits), 209 bytes captured (1672 bits) on interface \Device\NPF...).

Packets List:

No.	Time	Source	Destination	Protocol	Length	Info
1008	66.878974	192.168.10.4	52.109.44.30	TCP	54	50239 → 443 [FIN, ACK] Seq=1 Ack=1 Win=517 Len=0
1009	67.485660	192.168.10.4	52.109.44.30	TCP	54	[TCP Retransmission] 50239 → 443 [FIN, ACK] Seq=1 Ack=1 Win=517 Len=0
1010	67.542581	52.109.44.30	192.168.10.4	TCP	54	443 → 50239 [FIN, ACK] Seq=1 Ack=2 Win=2050 Len=0
1011	67.542662	192.168.10.4	52.109.44.30	TCP	54	50239 → 443 [ACK] Seq=2 Ack=2 Win=517 Len=0
1012	67.744418	52.109.44.30	192.168.10.4	TCP	54	[TCP Dup ACK 1010#1] 443 → 50239 [ACK] Seq=2 Ack=2 Win=2050 Len=0
1013	72.304021	Intel_6b:0d:f0	zte_a5:fe:74	ARP	42	Who has 192.168.10.1? Tell 192.168.10.4
1014	72.305230	zte_a5:fe:74	Intel_6b:0d:f0	ARP	42	192.168.10.1 is at 50:42:89:a5:fe:74
1015	74.140390	192.168.10.4	59.103.237.44	TCP	55	[TCP Keep-Alive] 50226 → 443 [ACK] Seq=2091 Ack=537679 Win=511 Len=1
1016	74.280302	59.103.237.44	192.168.10.4	TCP	66	[TCP Keep-Alive ACK] 443 → 50226 [ACK] Seq=537679 Ack=2092 Win=1024 Len=0 SLE=2091 SRE=2092
1017	74.640244	192.168.10.4	104.26.13.171	TCP	65	[TCP Keep-Alive] 50231 → 443 [ACK] Seq=182 Ack=1712 Win=514 Len=1
1018	74.864085	104.26.13.171	192.168.10.4	TCP	66	[TCP Keep-Alive ACK] 443 → 50231 [ACK] Seq=1712 Ack=183 Win=8 Len=0 SLE=182 SRE=183
1019	76.649772	192.168.10.4	104.26.13.171	TCP	55	[TCP Keep-Alive] 50235 → 443 [ACK] Seq=453 Ack=3401 Win=508 Len=1
1020	76.833245	104.26.13.171	192.168.10.4	TCP	66	[TCP Keep-Alive ACK] 443 → 50235 [ACK] Seq=3401 Ack=454 Win=8 Len=0 SLE=453 SRE=454
1021	80.552918	192.168.10.4	74.125.133.188	TCP	55	[TCP Keep-Alive] 50070 → 5228 [ACK] Seq=1 Ack=1 Win=512 Len=1
1022	80.789342	74.125.133.188	192.168.10.4	TCP	66	[TCP Keep-Alive ACK] 5228 → 50070 [ACK] Seq=1 Ack=2 Win=265 Len=0 SLE=1 SRE=2
1023	85.794780	zte_a5:fe:74	Intel_6b:0d:f0	ARP	42	Who has 192.168.10.4? Tell 192.168.10.1
1024	85.794815	Intel_6b:0d:f0	zte_a5:fe:74	ARP	42	192.168.10.4 is at e4:02:9b:6b:0d:f0
1025	102.533130	192.168.10.4	216.58.208.238	TCP	55	[TCP Keep-Alive] 50240 → 443 [ACK] Seq=1061 Ack=1380 Win=129792 Len=1
1026	102.662590	216.58.208.238	192.168.10.4	TCP	66	[TCP Keep-Alive ACK] 443 → 50240 [ACK] Seq=1380 Ack=1062 Win=67584 Len=0 SLE=1061 SRE=1062

Frame 1 Details:

- > Frame 1: 209 bytes on wire (1672 bits), 209 bytes captured (1672 bits) on interface \Device\NPF...
- > Ethernet II, Src: Intel_6b:0d:f0 (e4:02:9b:6b:0d:f0), Dst: IPv4mcast_7f:ff:fa (01:00:5e:7f:ff:fa)
- > Internet Protocol Version 4, Src: 192.168.10.4, Dst: 239.255.255.250
- > User Datagram Protocol, Src Port: 50841, Dst Port: 1900
- > **Simple Service Discovery Protocol**

Packet Bytes:

```
0000 01 00 5e 7f ff fa e4 02 9b 6b 0d f0 08 00 45 00  ....k....E-
0010 00 c3 8f 9e 00 00 01 11 6e e5 c0 a8 0a 04 ef ff  ....n.....
0020 ff fa c6 99 07 6c 00 af 81 d9 4d 2d 53 45 41 52  ....l...M-SEAR
0030 43 48 20 2a 20 48 54 54 50 2f 31 2e 31 0d 0a 48  CH * HTTP/1.1..H
0040 4f 53 54 3a 20 32 33 39 2e 32 35 35 2e 32 35 35  OST: 239.255.255
0050 2e 32 35 30 3a 31 39 30 30 0d 0a 4d 41 4e 3a 20  ,250:190 0..MAN:
0060 22 73 73 64 70 3a 64 69 73 63 6f 76 65 72 22 0d  "ssdp:discover"
0070 0a 4d 58 3a 20 31 0d 0a 53 54 3a 20 75 72 6e 3a  MX: 1..ST: urn:
0080 64 69 61 6c 2d 6d 75 6c 74 69 73 63 72 65 65 6e  dial-multiscreen
0090 2d 6f 72 67 3a 73 65 72 76 69 63 65 3a 64 69 61  -org:service:dia
00a0 6c 3a 31 0d 0a 55 53 45 52 2d 41 47 45 4e 54 3a  l:1..USER-AGENT:
00b0 20 4f 70 65 72 61 2f 31 32 30 2e 30 2e 36 30 39  Opera/1.20.0.609
00c0 39 2e 32 31 37 20 57 69 6e 64 6f 77 73 0d 0a 0d  9.217 Windows...
00d0 0a
```

For paid solutions, they manually create each solution, so it takes time 03429311964