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Source files: ass1_1.pcap, ass1_1.py, ass1_1_chatgpt.py, ass1_2.pcap, ass1_2.py,
ass_1_2_chatgpt.py, ass_1_3.pcap, ass_1_3.py, ass_1_3_chagpt.py

<https://chat.openai.com/c/576fbe55-972c-4dda-b528-94ef58470d06>

<https://chat.openai.com/c/37a7e060-8b9e-4c5f-a084-730340290aaf>

packet_number, src_ip, dst_ip

ass1_1.py

1, 2601:200:c100:f730:c07c:ff8a:3166:c648, 2606:2800:220:1:248:1893:25c8:1946
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66, 2601:200:c100:f730:c07c:ff8a:3166:c648, 2606:2800:220:1:248:1893:25c8:1946

assl_2.py

1, 192.168.80.223, 192.168.80.84
2, 192.168.80.223, 192.168.80.84
3, 192.168.80.223, 192.168.80.84
4, 10.6.102.254, 192.168.80.84
5, 10.6.102.254, 192.168.80.84
6, 10.5.102.254, 192.168.80.84
7, 10.176.253.172, 192.168.80.84
8, 10.176.253.172, 192.168.80.84
9, 10.166.72.77, 192.168.80.84
10, 10.166.72.77, 192.168.80.84
11, 10.166.72.77, 192.168.80.84
12, 10.166.72.82, 192.168.80.84
13, 10.166.72.82, 192.168.80.84

14, 10.166.72.82, 192.168.80.84
15, 10.177.13.84, 192.168.80.84
16, 10.177.13.84, 192.168.80.84
17, 10.177.13.84, 192.168.80.84
18, 10.166.112.1, 192.168.80.84
19, 10.166.112.1, 192.168.80.84
20, 10.166.112.1, 192.168.80.84
21, 152.195.84.214, 192.168.80.84
22, 152.195.84.214, 192.168.80.84
23, 152.195.84.214, 192.168.80.84
24, 152.195.84.139, 192.168.80.84
25, 152.195.84.141, 192.168.80.84
26, 152.195.84.141, 192.168.80.84
27, 93.184.216.34, 192.168.80.84
28, 93.184.216.34, 192.168.80.84
29, 93.184.216.34, 192.168.80.84
30, 93.184.216.34, 192.168.80.84
31, 93.184.216.34, 192.168.80.84
32, 93.184.216.34, 192.168.80.84

ass1_3.py

1, 10.0.0.1, 10.0.0.252
2, 10.0.0.1, 10.0.0.252

3, 10.0.0.1, 10.0.0.252
4, 96.120.14.125, 10.0.0.252
5, 96.120.14.125, 10.0.0.252
6, 96.120.14.125, 10.0.0.252
7, 96.110.222.141, 10.0.0.252
8, 96.110.222.141, 10.0.0.252
9, 96.110.222.141, 10.0.0.252
10, 68.85.120.246, 10.0.0.252
11, 68.85.120.246, 10.0.0.252
12, 68.85.120.246, 10.0.0.252
13, 96.110.45.237, 10.0.0.252
14, 96.110.45.237, 10.0.0.252
15, 96.110.45.225, 10.0.0.252
16, 96.110.33.10, 10.0.0.252
17, 96.110.33.10, 10.0.0.252
18, 96.110.33.2, 10.0.0.252
19, 50.242.151.138, 10.0.0.252
20, 50.242.151.138, 10.0.0.252
21, 50.242.151.138, 10.0.0.252
22, 152.195.77.129, 10.0.0.252
23, 152.195.77.129, 10.0.0.252
24, 152.195.77.129, 10.0.0.252
25, 93.184.216.34, 10.0.0.252

26, 93.184.216.34, 10.0.0.252

27, 93.184.216.34, 10.0.0.252

28, 93.184.216.34, 10.0.0.252

29, 93.184.216.34, 10.0.0.252

30, 93.184.216.34, 10.0.0.252

ass1_2.pcap and ass1_3.pcap report:

Ass1_2.pcap and ass1_3.pcap both contain ICMP protocols however, ass1_2.pcap is sending packets to destination ip address 192.168.80.84 and ass1_3.pcap is sending packets to 10.0.0.252. The client ip addresses are also all different between the 2 pcap files. There would be a set of packets sent by the same client to the server. Ass1_2.pcap sends 32 packets compared to ass1_3.pcap 30 packets. Both of the pcap files follow the same format of having all of the packets have type: 11 which are time exceeded and code: 0 which shows the time left until the packet is dropped. This is why there is a series of packets of type: 11 and code: 0. It is because these packets are not able to reach the server and are being dropped so more attempts are made at trying to send the packet to the server, even switching the source ip address to see if it will make a difference. The last 3 packets that are sent are of type: 3 which means the destination ip address can't be reached and code: 3 which means the destination port also can't be reached so no more attempts at packet sending is made. The checksum values and data values are also different between the two pcap files.