Security Questions

- Explain the idea of ip spoofing

The idea is to change in the source IP in the IP header and to pretend to be an other device.

- Is this a realistic attack over the internet with TCP/IP - explain

  This attack will probably fail when the attacker want a longer conversation with the server. This means if attacker want to make a request from a foreign service to execute a command, this will fail because the connection needs SYN, SYN+ACK and ACK to establish a connection. To impersonate a device the setup would need injection in the routing table(Route injection)

  The only possible attacks could be:

  - SYN Flooding
  - RST Flooding
  - FIN Flooding
  - Flag Rainbow Flooding

- Is this a realistic attack over the internet with UDP/IP - explain This protocol don't need a Handshake before the main connection can start, this way a UDP service directly process the incoming traffic. Possible attack vectors could be:

  - DNS
  - FTP control and connection
  - WINS
  - Xerox protocols
  - NetBIOS
  - Kerberos
  - DHCP

- What are the destination addresses of the spoofer tool (see in Wireshark) **SRC:**

  - 169.254.78.9
  - 192.168.239.2
  - 51.15.43.110
  - 192.172.226.242
  - 6.1.2.3

  DST:

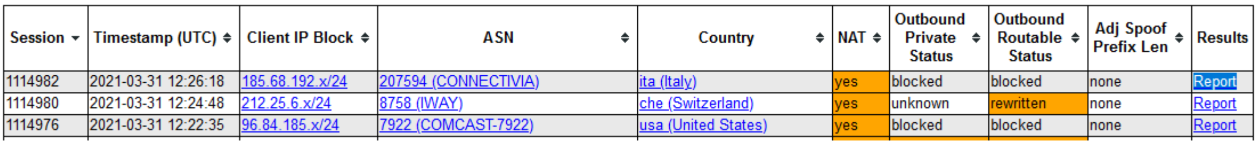
  - 239.255.255.250
  - 192.168.239.132
  - 128.232.97.9
  - 205.189.33.78
  - 138.44.13.110
  - 139.18.1.244

  - 128.223.157.13
  - 204.235.64.14
  - 192.172.226.242
  - 192.172.226.247
  - 193.1.33.5
  - 192.107.171.130
  - 78.41.116.2
  - 130.206.158.142
  - 203.181.248.51
  - 192.42.115.98
  - 192.172.226.243

- What protocol is the spoofer tool trying to spoof? **Protocol:**

  - SSDP
  - DNS
  - TCP
  - TLSv1.2
  - TLSv1.3
  - ICMP

- Do you find your own results on https://spoofer.caida.org/recent_tests.php



Session	Timestamp (UTC)	Client IP Block	ASN	Country	NAT	Outbound Private Status	Outbound Routable Status	Adj Spoof Prefix Len	Results
1114982	2021-03-31 12:26:18	185.68.192.x/24	207594 (CONNECTIVIA)	ita (Italy)	yes	blocked	blocked	none	Report
1114980	2021-03-31 12:24:48	212.25.6.x/24	8758 (IWAY)	che (Switzerland)	yes	unknown	rewritten	none	Report
1114976	2021-03-31 12:22:35	96.84.185.x/24	7922 (COMCAST-7922)	usa (United States)	yes	blocked	blocked	none	Report