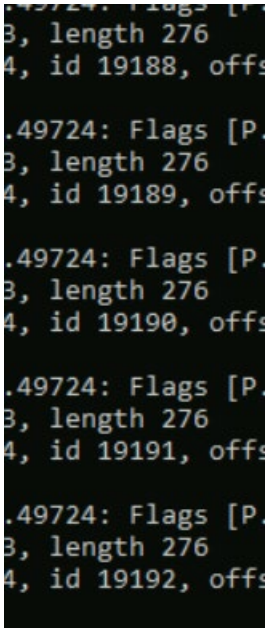
Packet ID	Date	Mac Address	Protocol	Source Address	Dest. Address	Source Port	Dest. Port	Packet Length	LOG prefix	Time To Live
24093	2023-03-21 2:24	00:0d:3a:f3:8e:0e:d4:af:f7:48:3e:e8:08:00	TCP	10.56.177.4	192.168.89.36	49768	22	40	SSH INPUT LS-89	128
24143	2023-03-21 1:52		TCP	192.168.89.36	10.56.177.4	22	49768	116	SSH OUTPUT WC-10.56.177.4:	64
57451	2023-03-15 0:05	00:0d:3a:0c:3b:59:c0:d6:82:33:2d:a1:08:00	TCP	10.56.177.4	172.17.89.37	51318	21	52	DNS UDP FORWARD:	127
2040	2023-03-21 1:56	00:0d:3a:f3:8e:0e:d4:af:f7:48:3e:e8:08:00	TCP	10.56.177.4	172.17.89.37	50400	80	52	HTTP FORWARD WS-89	127
7968	2023-03-21 19:29	00:22:48:b0:61:aa:d4:af:f7:3b:c0:04:08:00	UDP	10.56.177.4	172.17.89.36	50787	53	41	DNS TCP FORWARD	127
9918	2023-03-21 1:56	00:0d:3a:f3:8e:0e:d4:af:f7:48:3e:e8:08:00	TCP	10.56.177.4	172.17.89.36	50403	80	52	HTTP FORWARD LS-89	127
2044	2023-03-21 1:56	00:0d:3a:f3:8e:0e:d4:af:f7:48:3e:e8:08:00	TCP	10.56.177.4	172.17.89.37	50105	3306	40	MySQL FORWARD LS-89	127
9848	2023-03-21 1:55	00:0d:3a:f3:8e:0e:d4:af:f7:48:3e:e8:08:00	TCP	10.56.177.4	172.17.89.36	50391	21	52	FTP CONTROL PLANE FORWARD WS-	127

1. **What is Packet ID? Does it follow a sequence or is it random? How can you prove / demonstrate your answer?**

   Packet ID distinguishes a packet from other packets and ensures that they are sent to the proper location. They appear to be in sequence which I witnessed in tcpdump.



2. **Why Windows Client Source Port is not related to the kind of service requested? Why for example SSH request is coming from a random Source Port instead of port 22? Is there any way you can fix request port number? If yes give example, if no elaborate?**

Windows Client Source Port is dynamic opposed to being static, which means it uses a random port instead of a fixed one. This can be changed by setting a specific port number in the registry.

3. **Answer previous question for DNS service? Can you explain the random Source Port issue?**

   DNS service is also dynamic and would also explain why the Source Port is different.

4. **What is MAC address? Can you find the MAC addresses of your Network Interface Cards in Azure Portal? How?**

   MAC address is a physical unique identifier that a network uses to identify devices. You can find the MAC address under properties in network interfaces.