

**TUGAS MATA KULIAH KOMUNIKASI DATA**  
**MENGANALISI TRAFIC JARINGAN**

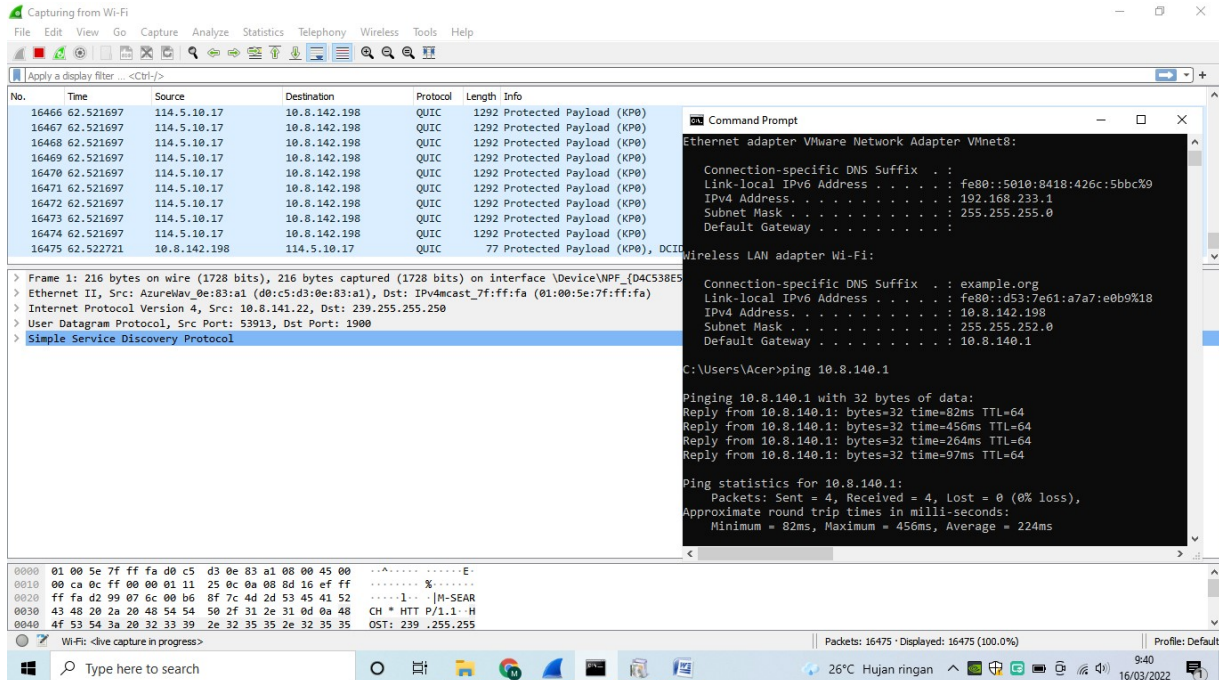


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**JURUSAN SISTEM KOMPUTER**  
**FAKULTAS ILMU KOMPUTER**  
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**2022**

## ANALISIS TRAFFIC JARINGAN DI WIRESHARK



1. Perintah Command Prompt menggunakan ping  
C:\Users\Acer>ping 10.8.140.1

Pinging 10.8.140.1 with 32 bytes of data:

```
Reply from 10.8.140.1: bytes=32 time=82ms TTL=64
Reply from 10.8.140.1: bytes=32 time=456ms TTL=64
Reply from 10.8.140.1: bytes=32 time=264ms TTL=64
Reply from 10.8.140.1: bytes=32 time=97ms TTL=64
```

Ping statistics for 10.8.140.1:

```
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 82ms, Maximum = 456ms, Average = 224ms
```

2. Hasil Capture pada Software Wireshark  
Frame 1: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface \Device\NPF\_{D4C538E5-4F5F-4C08-A337-3F5EAB2B8ACA}, id 0  
Interface id: 0 (\Device\NPF\_{D4C538E5-4F5F-4C08-A337-3F5EAB2B8ACA})

Interface name: \Device\NPF\_{D4C538E5-4F5F-4C08-A337-3F5EAB2B8ACA}

Interface description: Wi-Fi

Encapsulation type: Ethernet (1)

Arrival Time: Mar 16, 2022 09:39:10.738948000 SE Asia Standard Time

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1647398350.738948000 seconds

[Time delta from previous captured frame: 0.000000000 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 0.000000000 seconds]

Frame Number: 1

Frame Length: 216 bytes (1728 bits)

Capture Length: 216 bytes (1728 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:udp:ssdp]

[Coloring Rule Name: UDP]

[Coloring Rule String: udp]

Ethernet II, Src: AzureWav\_0e:83:a1 (d0:c5:d3:0e:83:a1), Dst: IPv4mcast\_7f:ff:fa (01:00:5e:7f:ff:fa)

Destination: IPv4mcast\_7f:ff:fa (01:00:5e:7f:ff:fa)

Address: IPv4mcast\_7f:ff:fa (01:00:5e:7f:ff:fa)

.... ..0. .... = LG bit: Globally unique address (factory default)

.... ...1 .... = IG bit: Group address (multicast/broadcast)

Source: AzureWav\_0e:83:a1 (d0:c5:d3:0e:83:a1)

Address: AzureWav\_0e:83:a1 (d0:c5:d3:0e:83:a1)

.... ..0. .... = LG bit: Globally unique address (factory default)

.... ...0 .... = IG bit: Individual address (unicast)

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 10.8.141.22, Dst: 239.255.255.250

0100 .... = Version: 4

.... 0101 = Header Length: 20 bytes (5)

Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)  
0000 00.. = Differentiated Services Codepoint: Default  
(0)  
.... ..00 = Explicit Congestion Notification: Not ECN-  
Capable Transport (0)  
Total Length: 202  
Identification: 0x0cff (3327)  
Flags: 0x00  
0... .... = Reserved bit: Not set  
.0.. .... = Don't fragment: Not set  
..0. .... = More fragments: Not set  
...0 0000 0000 0000 = Fragment Offset: 0  
Time to Live: 1  
Protocol: UDP (17)  
Header Checksum: 0x250c [validation disabled]  
[Header checksum status: Unverified]  
Source Address: 10.8.141.22  
Destination Address: 239.255.255.250  
User Datagram Protocol, Src Port: 53913, Dst Port: 1900  
Source Port: 53913  
Destination Port: 1900  
Length: 182  
Checksum: 0x8f7c [unverified]  
[Checksum Status: Unverified]  
[Stream index: 0]  
[Timestamps]  
[Time since first frame: 0.000000000 seconds]  
[Time since previous frame: 0.000000000 seconds]  
UDP payload (174 bytes)  
Simple Service Discovery Protocol  
M-SEARCH \* HTTP/1.1\r\n  
[Expert Info (Chat/Sequence): M-SEARCH \* HTTP/1.1\r\n]  
[M-SEARCH \* HTTP/1.1\r\n]  
[Severity level: Chat]  
[Group: Sequence]  
Request Method: M-SEARCH  
Request URI: \*  
Request Version: HTTP/1.1  
HOST: 239.255.255.250:1900\r\n  
MAN: "ssdp:discover"\r\n

MX: 1\r\n  
ST: urn:dial-multiscreen-org:service:dial:1\r\n  
USER-AGENT: Microsoft Edge/99.0.1150.39 Windows\r\n  
\r\n  
[Full request URI: http://239.255.255.250:1900\*]  
[HTTP request 1/2]  
[Next request in frame: 10]

3. Link Github Tugas

<https://github.com/MuhammadShafaZauhairAdinata/Muhammad-Shafa-Zauhair-Adinata.git>