

TUGAS MATA KULIAH KOMUNIKASI DATA
MENGANALISI TRAFIC JARINGAN

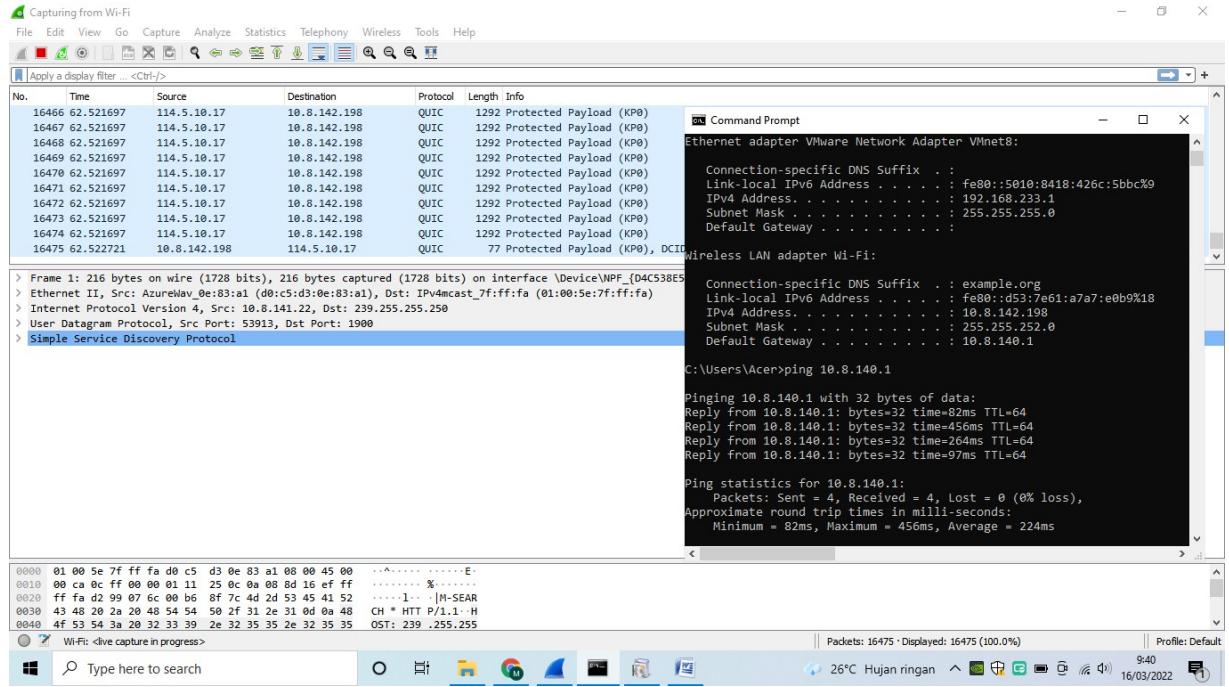


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JURUSAN SISTEM KOMPUTER
FAKULTAS ILMU KOMPUTER
UNIVERSITAS SRIWIJAYA

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\nMAN: "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>