

Nama : M. Afria Alim Saputra

NIM : 09011281520100

Kelas : SK5C

Matkul: Jaringan Komputer

Analisa data menggunakan wireshark

No.	IP Source	Info
1	192.168.43.192	52185 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
2	202.67.43.81	80 → 52182 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1390 SACK_PERM=1 WS=32

No.	IP Destination	Info
1	128.199.203.6	52185 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
2	192.168.43.192	80 → 52182 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1390 SACK_PERM=1 WS=32

The image shows a Wireshark packet capture list with 15 entries. The selected packet (No. 8) is a SYN packet from 192.168.43.192 to 128.199.203.6. The details pane shows the following information:

- Frame 8: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface 0
- Ethernet II, Src: Azurewav_9d:5b:81 (28:c2:dd:9d:5b:81), Dst: AsustekC_0b:3e:74 (9c:5c:8e:0b:3e:74)
- Internet Protocol Version 4, Src: 192.168.43.192, Dst: 128.199.203.6
- Transmission Control Protocol, Src Port: 52184, Dst Port: 80, Seq: 0, Len: 0

The hex dump shows the raw bytes of the packet. The first few bytes are 0000 9c 5c 8e 0b 3e 74 28 c2 dd 9d 5b 81 08 00 45 00, which correspond to the Ethernet II header (Destination MAC: 9c:5c:8e:0b:3e:74, Source MAC: 28:c2:dd:9d:5b:81, Length: 08, Type: 0800).

Mengecek ip sendiri

The screenshot shows a Windows command prompt window with the following output:

```
C:\Users\A4_Free>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection* 9:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Local Area Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wireless Network Connection:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::109e:b23f:7c27:6e1f%11
    IPv4 Address. . . . . : 192.168.43.192
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.43.1
```

Mengecek ip tujuan

```
C:\Users\4_Free>ping www.jurnalotaku.com

Pinging www.jurnalotaku.com [128.199.203.6] with 32 bytes of data:
Reply from 128.199.203.6: bytes=32 time=423ms TTL=50
Reply from 128.199.203.6: bytes=32 time=377ms TTL=50
Reply from 128.199.203.6: bytes=32 time=335ms TTL=50
Reply from 128.199.203.6: bytes=32 time=292ms TTL=50

Ping statistics for 128.199.203.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 292ms, Maximum = 423ms, Average = 356ms
```

Tracert websie tujuan

```
C:\Users\4_Free>tracert www.jurnalotaku.com

Tracing route to www.jurnalotaku.com [128.199.203.6]
over a maximum of 30 hops:

  0  1 ms    1 ms    1 ms   192.168.43.1
  1  *        *        *      Request timed out.
  2  *        *        *      Request timed out.
  3  *        *        *      Request timed out.
  4  *        *        *      Request timed out.
  5  *        *        *      Request timed out.
  6  *        *        *      Request timed out.
  7  *        *        *      Request timed out.
  8  *        *        *      Request timed out.
  9  *        *        *      Request timed out.
 10 *        *        *      Request timed out.
 11 *        *        *      Request timed out.
 12 *        *        *      Request timed out.
 13 *        *        *      Request timed out.
 14 552 ms   318 ms   318 ms 128.199.203.6

Trace complete.
```

Dari percobaan yang dilakukan dengan menggunakan wireshark kita dapat mengetahui lama waktu pada saat mengakses websie tujuan, juga bisa mengetahui ip source dan destination, protokol yang digunakan, dll. Dengan menggunakan command tracert pada command prompt dapat diketahui sebanyak 14 langkah dari ip source ke destination agar bisa diakses.