

LAPORAN PRAKTIKUM MANAJEMEN DATA
IP Address

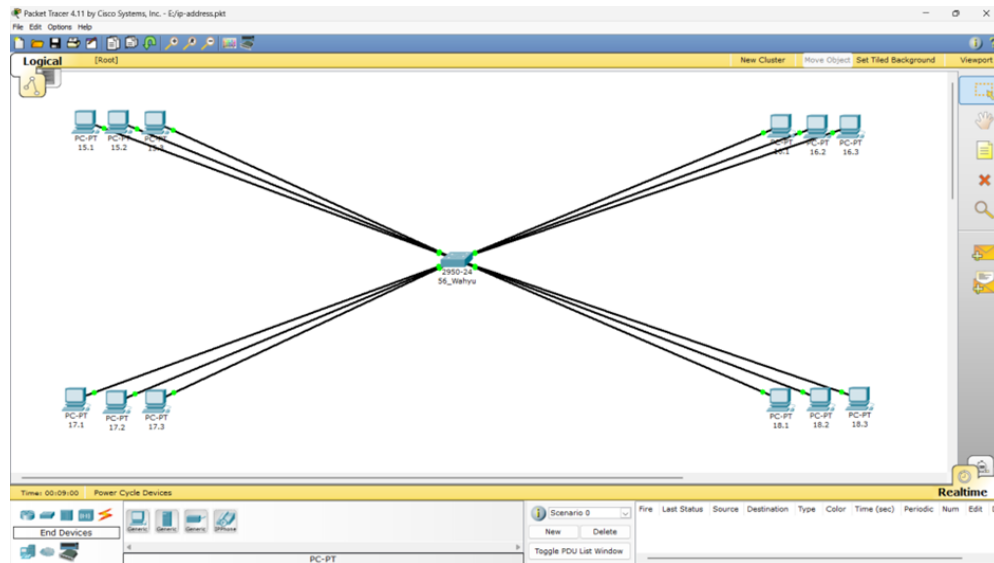


Disusun Untuk Memenuhi Tugas Mata Kuliah:
Manajemen Data

Oleh:
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PROGRAM STUDI D4 SAINS DATA TERAPAN
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

1. Struktur Komputer



2. Koneksi Antar Komputer

2.1. 15.1

1) 15.2

```
Pinging 192.168.15.2 with 32 bytes of data:

Reply from 192.168.15.2: bytes=32 time=141ms TTL=128
Reply from 192.168.15.2: bytes=32 time=70ms TTL=128

Ping statistics for 192.168.15.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 70ms, Maximum = 141ms, Average = 105ms
```

2) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Reply from 192.168.15.3: bytes=32 time=186ms TTL=128
Reply from 192.168.15.3: bytes=32 time=88ms TTL=128

Ping statistics for 192.168.15.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 88ms, Maximum = 186ms, Average = 137ms
```

8) 16.1

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

6) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.2. 15.2

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Reply from 192.168.15.1: bytes=32 time=79ms TTL=128
Reply from 192.168.15.1: bytes=32 time=67ms TTL=128

Ping statistics for 192.168.15.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 67ms, Maximum = 79ms, Average = 73ms
```

2) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Reply from 192.168.15.3: bytes=32 time=172ms TTL=128
Reply from 192.168.15.3: bytes=32 time=91ms TTL=128

Ping statistics for 192.168.15.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 91ms, Maximum = 172ms, Average = 131ms
```

3) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

6) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.3. 15.3

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Reply from 192.168.15.1: bytes=32 time=79ms TTL=128
Reply from 192.168.15.1: bytes=32 time=89ms TTL=128

Ping statistics for 192.168.15.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 79ms, Maximum = 89ms, Average = 84ms
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Reply from 192.168.15.2: bytes=32 time=79ms TTL=128
Reply from 192.168.15.2: bytes=32 time=72ms TTL=128

Ping statistics for 192.168.15.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 72ms, Maximum = 79ms, Average = 75ms
```

3) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

6) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.4. 16.1

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```


2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Reply from 192.168.16.2: bytes=32 time=145ms TTL=128
Reply from 192.168.16.2: bytes=32 time=87ms TTL=128

Ping statistics for 192.168.16.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 87ms, Maximum = 145ms, Average = 116ms
```

5) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Reply from 192.168.16.3: bytes=32 time=136ms TTL=128
Reply from 192.168.16.3: bytes=32 time=100ms TTL=128

Ping statistics for 192.168.16.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 100ms, Maximum = 136ms, Average = 118ms
```

6) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.5. 16.2

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Reply from 192.168.16.1: bytes=32 time=46ms TTL=128
Reply from 192.168.16.1: bytes=32 time=98ms TTL=128

Ping statistics for 192.168.16.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 46ms, Maximum = 98ms, Average = 72ms
```

5) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Reply from 192.168.16.3: bytes=32 time=145ms TTL=128
Reply from 192.168.16.3: bytes=32 time=38ms TTL=128

Ping statistics for 192.168.16.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 38ms, Maximum = 145ms, Average = 91ms
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.6. 16.3

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Reply from 192.168.16.1: bytes=32 time=82ms TTL=128
Reply from 192.168.16.1: bytes=32 time=82ms TTL=128

Ping statistics for 192.168.16.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 82ms, Maximum = 82ms, Average = 82ms
```

5) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Reply from 192.168.16.2: bytes=32 time=67ms TTL=128
Reply from 192.168.16.2: bytes=32 time=110ms TTL=128

Ping statistics for 192.168.16.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 67ms, Maximum = 110ms, Average = 88ms
```

6) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.7. 17.1

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

6) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Reply from 192.168.17.2: bytes=32 time=186ms TTL=128
Reply from 192.168.17.2: bytes=32 time=75ms TTL=128

Ping statistics for 192.168.17.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 75ms, Maximum = 186ms, Average = 130ms
```

8) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Reply from 192.168.17.3: bytes=32 time=160ms TTL=128
Reply from 192.168.17.3: bytes=32 time=77ms TTL=128

Ping statistics for 192.168.17.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 77ms, Maximum = 160ms, Average = 118ms
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```


11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.8. 17.2

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.9. 17.3

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

6) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Reply from 192.168.17.1: bytes=32 time=78ms TTL=128
Reply from 192.168.17.1: bytes=32 time=87ms TTL=128

Ping statistics for 192.168.17.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 78ms, Maximum = 87ms, Average = 82ms
```

8) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Reply from 192.168.17.2: bytes=32 time=78ms TTL=128
Reply from 192.168.17.2: bytes=32 time=77ms TTL=128

Ping statistics for 192.168.17.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 77ms, Maximum = 78ms, Average = 77ms
```

9) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.18.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2.10. 18.1

1) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

2) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

3) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

4) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

6) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

7) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

9) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

10) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Reply from 192.168.18.2: bytes=32 time=156ms TTL=128
Reply from 192.168.18.2: bytes=32 time=87ms TTL=128

Ping statistics for 192.168.18.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 87ms, Maximum = 156ms, Average = 121ms
```

11) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Reply from 192.168.18.3: bytes=32 time=132ms TTL=128
Reply from 192.168.18.3: bytes=32 time=72ms TTL=128

Ping statistics for 192.168.18.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 72ms, Maximum = 132ms, Average = 102ms
```

2.11. 18.2

12) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

13) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

14) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

15) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

16) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

17) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

19) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

20) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

21) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Reply from 192.168.18.1: bytes=32 time=90ms TTL=128
Reply from 192.168.18.1: bytes=32 time=80ms TTL=128

Ping statistics for 192.168.18.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 80ms, Maximum = 90ms, Average = 85ms
```

22) 18.3

```
PC>ping 192.168.18.3

Pinging 192.168.18.3 with 32 bytes of data:

Reply from 192.168.18.3: bytes=32 time=150ms TTL=128
Reply from 192.168.18.3: bytes=32 time=97ms TTL=128

Ping statistics for 192.168.18.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 97ms, Maximum = 150ms, Average = 123ms
```

2.12. 18.3

23) 15.1

```
PC>ping 192.168.15.1

Pinging 192.168.15.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```


24) 15.2

```
PC>ping 192.168.15.2

Pinging 192.168.15.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

25) 15.3

```
PC>ping 192.168.15.3

Pinging 192.168.15.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.15.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

26) 16.1

```
PC>ping 192.168.16.1

Pinging 192.168.16.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

27) 16.2

```
PC>ping 192.168.16.2

Pinging 192.168.16.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

28) 16.3

```
PC>ping 192.168.16.3

Pinging 192.168.16.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.16.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

29) 17.1

```
PC>ping 192.168.17.1

Pinging 192.168.17.1 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.1:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

30) 17.2

```
PC>ping 192.168.17.2

Pinging 192.168.17.2 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.2:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

31) 17.3

```
PC>ping 192.168.17.3

Pinging 192.168.17.3 with 32 bytes of data:

Request timed out.

Ping statistics for 192.168.17.3:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

32) 18.1

```
PC>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:

Reply from 192.168.18.1: bytes=32 time=78ms TTL=128
Reply from 192.168.18.1: bytes=32 time=57ms TTL=128

Ping statistics for 192.168.18.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 57ms, Maximum = 78ms, Average = 67ms
```

33) 18.2

```
PC>ping 192.168.18.2

Pinging 192.168.18.2 with 32 bytes of data:

Reply from 192.168.18.2: bytes=32 time=89ms TTL=128
Reply from 192.168.18.2: bytes=32 time=90ms TTL=128

Ping statistics for 192.168.18.2:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 89ms, Maximum = 90ms, Average = 89ms
```

3. Kesimpulan

Memiliki network address yang sama memungkinkan komputer untuk mengenali perangkat lain dalam jaringan yang sama. Network address diperoleh dari operasi BITWISE AND antara IP address dengan netmask.

Contoh dalam kasus ini:

- Perangkat dengan IP address 192.168.15.1 memiliki network address 192.168.15.0. Perangkat ini dapat terhubung dengan perangkat lain yang memiliki network address 192.168.15.0, terlepas dari digit terakhir (x) dalam IP address mereka, seperti 192.168.15.2.
- Perangkat dengan IP address 192.168.16.1 memiliki network address 192.168.16.0. Perangkat ini dapat terhubung dengan perangkat lain yang memiliki network address 192.168.16.0, terlepas dari digit terakhir (x) dalam IP address mereka, seperti 192.168.16.2.
- Perangkat dengan IP address 192.168.17.1 memiliki network address 192.168.17.0. Perangkat ini dapat terhubung dengan perangkat lain yang memiliki network address 192.168.17.0, terlepas dari digit terakhir (x) dalam IP address mereka, seperti 192.168.17.2.
- Perangkat dengan IP address 192.168.18.1 memiliki network address 192.168.18.0. Perangkat ini dapat terhubung dengan perangkat lain yang memiliki network address 192.168.18.0, terlepas dari digit terakhir (x) dalam IP address mereka, seperti 192.168.18.2.