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Kelas : $C \rightarrow D$

MODUL III

SUBNETTING

Tugas Modul.

a. Jumlah Subnet

$$2^3 = 8$$
 subnet

b. Jumlah Host

$$2^{5}$$
-2 = 30 host

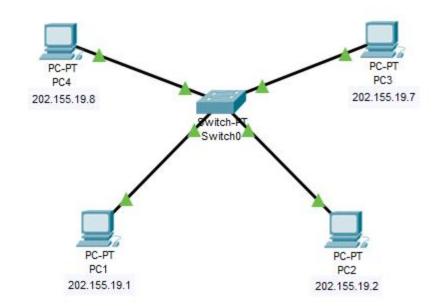
- 1 untuk Network
- 1 untuk Broadcast
- c. Block Subnet

$$256 - 224 = 32$$

- d. IP Address:
 - 202.155.19.0 / 27
 - IP Address Awal: 202.155.19.1
 - IP Address Akhir: 202.155.19.31
- e. Subnet mask

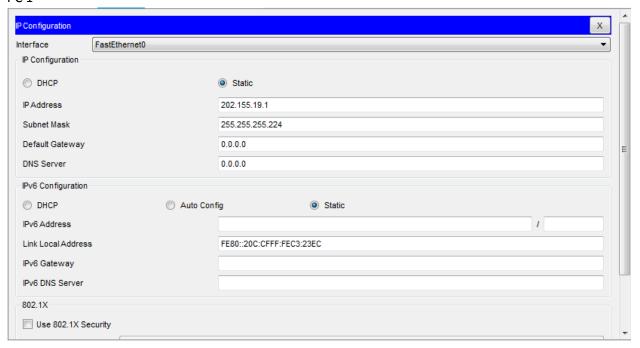
255. 255. 255. 0 11111111.11111111.11111111.00000000 11111111.11111111.1111111.11100000

- **255. 255. 255. 224**
- f. Desain
- Menggunakan 4 buah PC

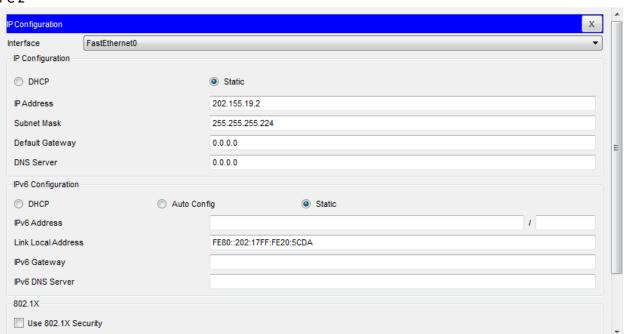


g. Memberi IP Address dan Subnet Mask pada masing-masing PC

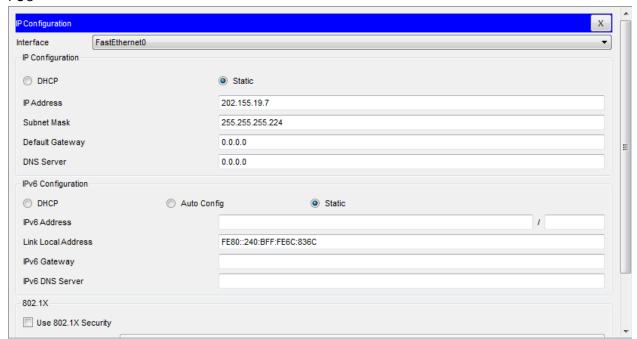
1. PC 1



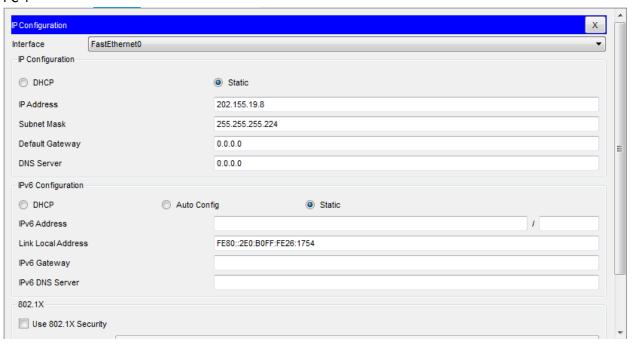
2. PC 2



3. PC 3



4. PC 4



h. Uji Koneksi Jaringan

1. PC1 dengan PC2

```
C:\>ping 202.155.19.2

Pinging 202.155.19.2 with 32 bytes of data:

Reply from 202.155.19.2: bytes=32 time=25ms TTL=128
Reply from 202.155.19.2: bytes=32 time<1ms TTL=128
Reply from 202.155.19.2: bytes=32 time<1ms TTL=128
Reply from 202.155.19.2: bytes=32 time<1ms TTL=128
Ping statistics for 202.155.19.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 25ms, Average = 6ms</pre>
```

Berhasil dipanggil karena dalam satu alamat.

2. PC1 dengan PC3

```
C:\>ping 202.155.19.7

Pinging 202.155.19.7 with 32 bytes of data:

Reply from 202.155.19.7: bytes=32 time=1ms TTL=128
Reply from 202.155.19.7: bytes=32 time<1ms TTL=128
Reply from 202.155.19.7: bytes=32 time<1ms TTL=128
Reply from 202.155.19.7: bytes=32 time<1ms TTL=128
Ping statistics for 202.155.19.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

Berhasil dipanggil karena dalam satu alamat.

3. PC1 dengan PC4

```
C:\>ping 202.155.19.8

Pinging 202.155.19.8 with 32 bytes of data:

Reply from 202.155.19.8: bytes=32 time=1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Ping statistics for 202.155.19.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

4. PC2 dengan PC1

```
C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

Reply from 202.155.19.1: bytes=32 time=1ms TTL=128

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Berhasil dipanggil karena dalam satu alamat.

5. PC2 dengan PC3

```
C:\>ping 202.155.19.7

Pinging 202.155.19.7 with 32 bytes of data:

Reply from 202.155.19.7: bytes=32 time=1ms TTL=128

Reply from 202.155.19.7: bytes=32 time=1ms TTL=128

Reply from 202.155.19.7: bytes=32 time<1ms TTL=128

Reply from 202.155.19.7: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.7:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Berhasil dipanggil karena dalam satu alamat.

6. PC2 dengan PC4

```
C:\>ping 202.155.19.8

Pinging 202.155.19.8 with 32 bytes of data:

Reply from 202.155.19.8: bytes=32 time=2ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Ping statistics for 202.155.19.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 0ms</pre>
```

7. PC3 dengan PC1

```
C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time=1ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

Berhasil dipanggil karena dalam satu alamat.

8. PC3 dengan PC2

```
C:\>ping 202.155.19.7

Pinging 202.155.19.7 with 32 bytes of data:

Reply from 202.155.19.7: bytes=32 time=21ms TTL=128
Reply from 202.155.19.7: bytes=32 time<1ms TTL=128
Reply from 202.155.19.7: bytes=32 time<1ms TTL=128
Reply from 202.155.19.7: bytes=32 time=2ms TTL=128
Ping statistics for 202.155.19.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 21ms, Average = 5ms</pre>
```

Berhasil dipanggil karena dalam satu alamat.

9. PC3 dengan PC4

```
C:\>ping 202.155.19.8

Pinging 202.155.19.8 with 32 bytes of data:

Reply from 202.155.19.8: bytes=32 time=1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Reply from 202.155.19.8: bytes=32 time<1ms TTL=128
Ping statistics for 202.155.19.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

10. PC4 dengan PC1

```
C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

Reply from 202.155.19.1: bytes=32 time=1ms TTL=128

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Reply from 202.155.19.1: bytes=32 time=1ms TTL=128

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Berhasil dipanggil karena dalam satu alamat.

11. PC4 dengan PC2

```
C:\>ping 202.155.19.2

Pinging 202.155.19.2 with 32 bytes of data:

Reply from 202.155.19.2: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Berhasil dipanggil karena dalam satu alamat.

12. PC4 dengan PC3

```
C:\>ping 202.155.19.7

Pinging 202.155.19.7 with 32 bytes of data:

Reply from 202.155.19.7: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.7:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```