Internet dan Aplikasinya TUGAS 5 : Antar Network



Oleh:

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Praktikum Internet dan Aplikasinya

TUGAS 5: Membuat Koneksi Antar Jaringan

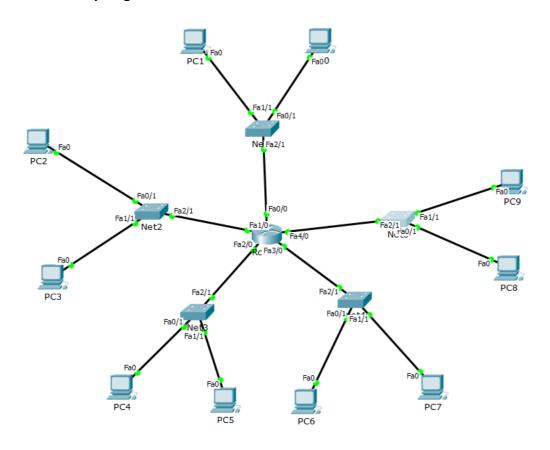
Tujuan

Mahasiswa dapat mensetup Komputer agar bisa terkoneksi dengan jaringan yang lebih luas (lewat default gateway). Pada modul ini juga mulai diterapkan IP Address dengan prefiks / masking yang lebih beragam.

Lengkapi Tabel Berikut

No	Network No.	Prefiks	Masking	Broadcast	IP Eff.	IP Router	PC ke 1	PC ke 2
1	172.16.105.0	/ 25	255.255.255. <mark>128</mark>	172.16.105. <mark>127</mark>	126	172.16.105.126	172.16.105.1	172.16.105.2
2	172.17.105.128	/ 26	255.255.255.192	172.17.105. <mark>191</mark>	62	172.17.105. 190	172.17.105. <mark>129</mark>	172.17.105. <mark>130</mark>
3	172.18.105.48	/ 28	255.255.255. <mark>240</mark>	172.18.105.63	14	172.18.105.62	172.18.105.49	172.18.105.50
4	172.19.105.64	/ 26	255.255.255. <mark>192</mark>	172.19.105.127	62	172.19.105. <mark>126</mark>	172.19.105.65	172.19.105.66
5	172.20. 105.16	/ 28	255.255.255. <mark>240</mark>	172.20.105. <mark>31</mark>	14	172.20.105.30	172.20.105. <mark>17</mark>	172.20.105. <mark>18</mark>
6*)	172.21.1.0	/ 24	255.255.255.0	172.21.1.255	254	172.21.1.254	172.21.1.1	172.21.1.253

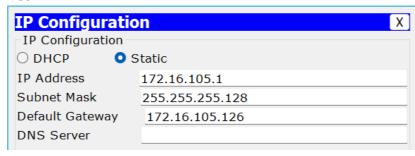
A. Screenshot Topologi

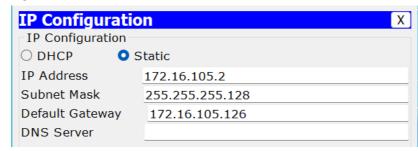


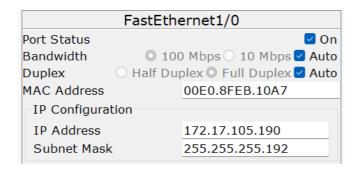
B. Screenshot Langkah Langkah (Konfigurasi IP semua device)

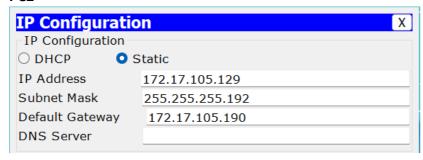
FastEthernet0/0							
Port Status	On						
Bandwidth 0	100 Mbps ○ 10 Mbps ✓ Auto						
Duplex O Half	Duplex 🔾 Full Duplex 🗹 Auto						
MAC Address	00E0.B067.9E73						
IP Configuration							
IP Address	172.16.105.126						
Subnet Mask	255.255.255.128						

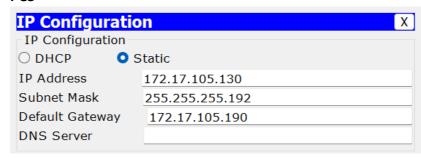
- PC0

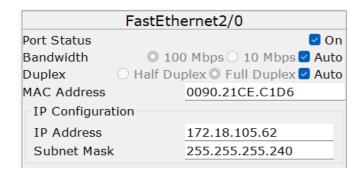


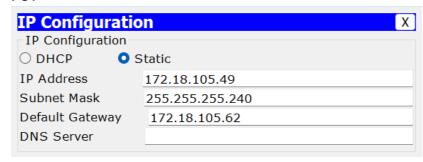


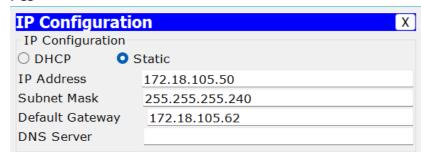


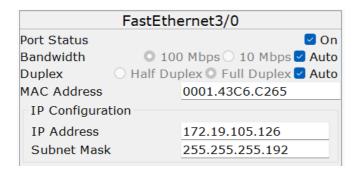


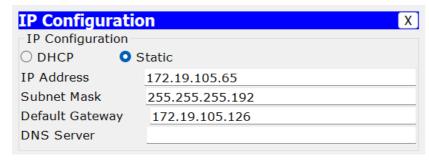


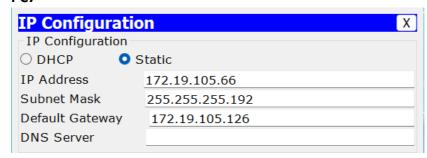


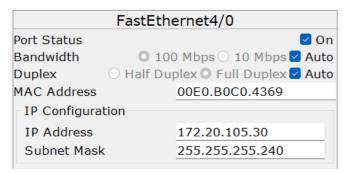


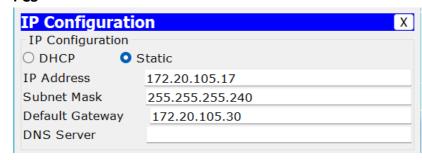


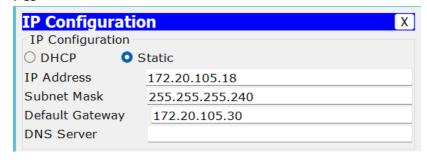












C. Screenshot ping PC1 ke seluruh PC

PC0 KE PC1

```
PC>ping 172.16.105.2

Pinging 172.16.105.2 with 32 bytes of data:

Reply from 172.16.105.2: bytes=32 time=0ms TTL=128
Reply from 172.16.105.2: bytes=32 time=0ms TTL=128
Reply from 172.16.105.2: bytes=32 time=0ms TTL=128
Reply from 172.16.105.2: bytes=32 time=1ms TTL=128
Ping statistics for 172.16.105.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

- PC0 KE PC2

```
PC>ping 172.17.105.129

Pinging 172.17.105.129 with 32 bytes of data:

Reply from 172.17.105.129: bytes=32 time=0ms TTL=127

Ping statistics for 172.17.105.129:

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

Approximate round trip times in milli-seconds:

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

- PC0 KE PC3

```
PC>ping 172.17.105.130

Pinging 172.17.105.130 with 32 bytes of data:

Reply from 172.17.105.130: bytes=32 time=0ms TTL=127

Reply from 172.17.105.130: bytes=32 time=1ms TTL=127

Reply from 172.17.105.130: bytes=32 time=0ms TTL=127

Reply from 172.17.105.130: bytes=32 time=2ms TTL=127

Ping statistics for 172.17.105.130:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 2ms, Average = 0ms
```

- PC0 KE PC4

```
PC>ping 172.18.105.49

Pinging 172.18.105.49 with 32 bytes of data:

Reply from 172.18.105.49: bytes=32 time=lms TTL=127

Reply from 172.18.105.49: bytes=32 time=0ms TTL=127

Reply from 172.18.105.49: bytes=32 time=0ms TTL=127

Reply from 172.18.105.49: bytes=32 time=0ms TTL=127

Ping statistics for 172.18.105.49:

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

Approximate round trip times in milli-seconds:

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

PC0 KE PC5

```
PC>ping 172.18.105.50

Pinging 172.18.105.50 with 32 bytes of data:

Reply from 172.18.105.50: bytes=32 time=1ms TTL=127

Reply from 172.18.105.50: bytes=32 time=0ms TTL=127

Reply from 172.18.105.50: bytes=32 time=0ms TTL=127

Reply from 172.18.105.50: bytes=32 time=0ms TTL=127

Ping statistics for 172.18.105.50:

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

Approximate round trip times in milli-seconds:

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

PC0 KE PC6

```
PC>ping 172.19.105.65

Pinging 172.19.105.65 with 32 bytes of data:

Reply from 172.19.105.65: bytes=32 time=1ms TTL=127

Reply from 172.19.105.65: bytes=32 time=0ms TTL=127

Reply from 172.19.105.65: bytes=32 time=0ms TTL=127

Reply from 172.19.105.65: bytes=32 time=0ms TTL=127

Ping statistics for 172.19.105.65:

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

Approximate round trip times in milli-seconds:

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

- PC0 KE PC7

```
PC>ping 172.19.105.66

Pinging 172.19.105.66 with 32 bytes of data:

Reply from 172.19.105.66: bytes=32 time=0ms TTL=127

Reply from 172.19.105.66: bytes=32 time=0ms TTL=127

Reply from 172.19.105.66: bytes=32 time=5ms TTL=127

Reply from 172.19.105.66: bytes=32 time=0ms TTL=127

Ping statistics for 172.19.105.66:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 5ms, Average = 1ms
```

- PC0 KE PC8

```
PC>ping 172.20.105.17

Pinging 172.20.105.17 with 32 bytes of data:

Reply from 172.20.105.17: bytes=32 time=0ms TTL=127

Ping statistics for 172.20.105.17:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

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

- PC0 KE PC9

```
PC>ping 172.20.105.18

Pinging 172.20.105.18 with 32 bytes of data:

Reply from 172.20.105.18: bytes=32 time=1ms TTL=127

Reply from 172.20.105.18: bytes=32 time=0ms TTL=127

Reply from 172.20.105.18: bytes=32 time=0ms TTL=127

Reply from 172.20.105.18: bytes=32 time=0ms TTL=127

Ping statistics for 172.20.105.18:

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

Approximate round trip times in milli-seconds:

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