

Internet dan Aplikasinya
TUGAS 2 : Satu Network

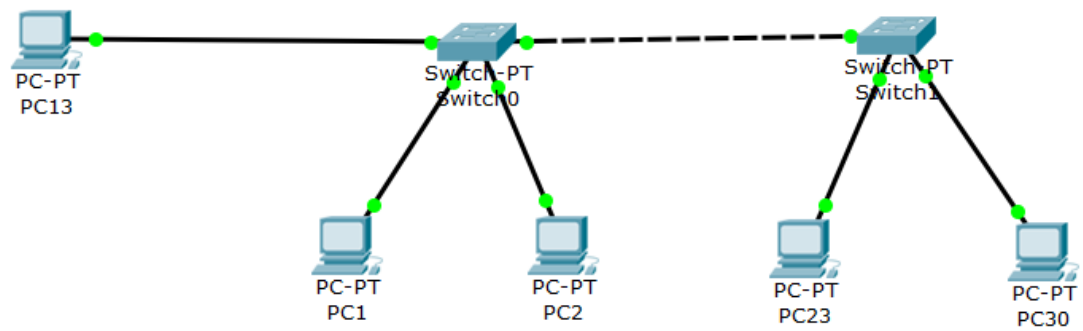


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A. Screenshot Topologi



B. Screenshot IP setiap PC

PC1 :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IP Address	192.168.105.1
Subnet Mask	255.255.255.0
Default Gateway	
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::205:5EFF:FEE7:460
IPv6 Gateway	
IPv6 DNS Server	

PC2 :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IP Address	192.168.105.2
Subnet Mask	255.255.255.0
Default Gateway	
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::230:F2FF:FE49:79A9
IPv6 Gateway	
IPv6 DNS Server	

PC23 :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	192.168.105.3
Subnet Mask	255.255.255.0
Default Gateway	
DNS Server	
IPv6 Configuration	
<input type="radio"/> DHCP	<input type="radio"/> Auto Config
	<input checked="" type="radio"/> Static
IPv6 Address	/
Link Local Address	FE80::201:43FF:FE66:35C1
IPv6 Gateway	
IPv6 DNS Server	

PC30 :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	192.168.105.30
Subnet Mask	255.255.255.0
Default Gateway	
DNS Server	
IPv6 Configuration	
<input type="radio"/> DHCP	<input type="radio"/> Auto Config
	<input checked="" type="radio"/> Static
IPv6 Address	/
Link Local Address	FE80::201:64FF:FE73:DB2A
IPv6 Gateway	
IPv6 DNS Server	

PC13 :

IP Configuration	
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	192.168.0.13
Subnet Mask	255.255.255.0
Default Gateway	
DNS Server	
IPv6 Configuration	
<input type="radio"/> DHCP	<input type="radio"/> Auto Config
	<input checked="" type="radio"/> Static
IPv6 Address	/
Link Local Address	FE80::260:3EFF:FE97:9442
IPv6 Gateway	
IPv6 DNS Server	

C. Screenshot Ping

PC1 > PC2

```
PC>ping 192.168.105.2

Pinging 192.168.105.2 with 32 bytes of data:

Reply from 192.168.105.2: bytes=32 time=0ms TTL=128
Reply from 192.168.105.2: bytes=32 time=0ms TTL=128
Reply from 192.168.105.2: bytes=32 time=0ms TTL=128
Reply from 192.168.105.2: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.105.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC1 > PC23

```
PC>ping 192.168.105.23

Pinging 192.168.105.23 with 32 bytes of data:

Reply from 192.168.105.23: bytes=32 time=0ms TTL=128
Reply from 192.168.105.23: bytes=32 time=0ms TTL=128
Reply from 192.168.105.23: bytes=32 time=0ms TTL=128
Reply from 192.168.105.23: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.105.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

PC1 > PC30

```
PC>ping 192.168.105.30

Pinging 192.168.105.30 with 32 bytes of data:

Reply from 192.168.105.30: bytes=32 time=0ms TTL=128
Reply from 192.168.105.30: bytes=32 time=1ms TTL=128
Reply from 192.168.105.30: bytes=32 time=0ms TTL=128
Reply from 192.168.105.30: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.105.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

D. Pertanyaan dan Analisa Kasus

Kabel ethernet tipe apa yang dipakai untuk mengkoneksikan antar hub/switch?

Jawabannya kabel ethernet tipe cross untuk mengkoneksikan antar switch dan tipe straight untuk mengkoneksikan antara switch dan computer.

Jika PC13 mempunyai IP address 192.168.0.13, masking 255.255.255.0 atau prefiks /24, dapatkah PC13 terkoneksi dengan PC yang lain, kenapa? Bagaimana supaya bisa terkoneksi?

Jawabannya tidak dapat terkoneksi, karena tidak satu network. Masking 255.255.255.0 membentuk network 192.168.**105** sehingga network 192.168.**0** tidak sama yang artinya tidak satu network, jika ingin satu network maka masking harus diubah menjadi 255.255.0.0 supaya 192.168 adalah netowrknya.