

PRAKTIKUM JARINGAN KOMPUTER

TUGAS

PENGENALAN CISCO PACKET TRACER



By :

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X

TEKNIK INFORMATIKA

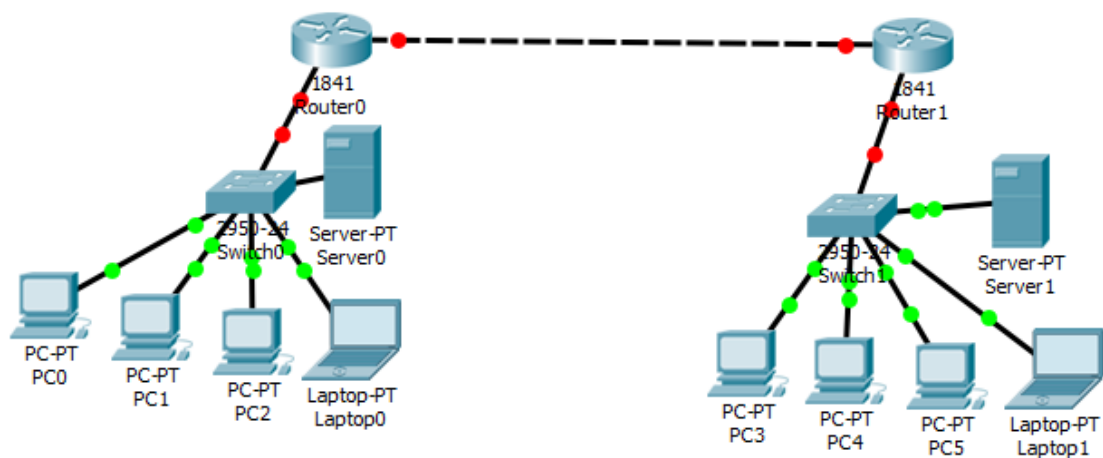
FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

Kegiatan Praktikum

1. Kegiatan 1

Buatlah rancangan jaringan komputer seperti gambar di bawah ini

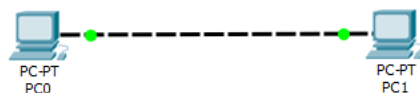


Amatilah lampu indikator pada setiap titik. Kemudian jelaskan pada kolom di bawah ini.

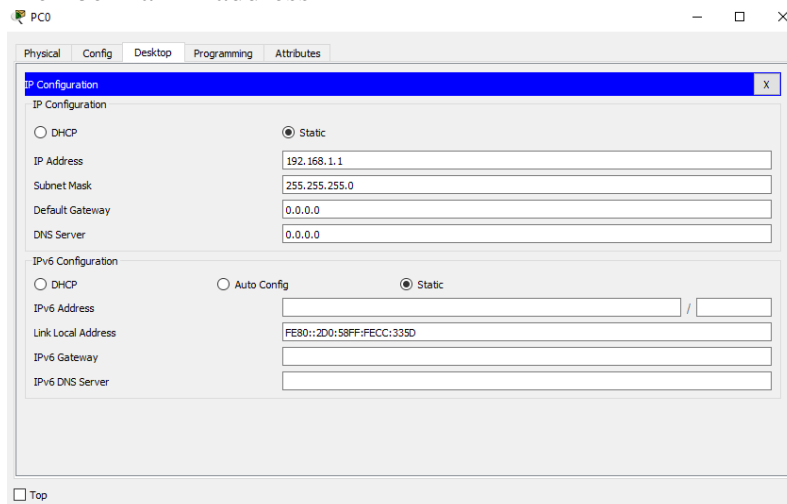
- Warna lampu indikator merah menunjukkan bahwa kabel tidak terhubung atau error.
- Warna lampu indikator orange menunjukkan sedang terjadinya proses pengenalan perangkat untuk dapat saling terhubung.
- Warna lampu indikator hijau menunjukkan bahwa kabel berhasil menghubungkan perangkat satu sama lainnya.

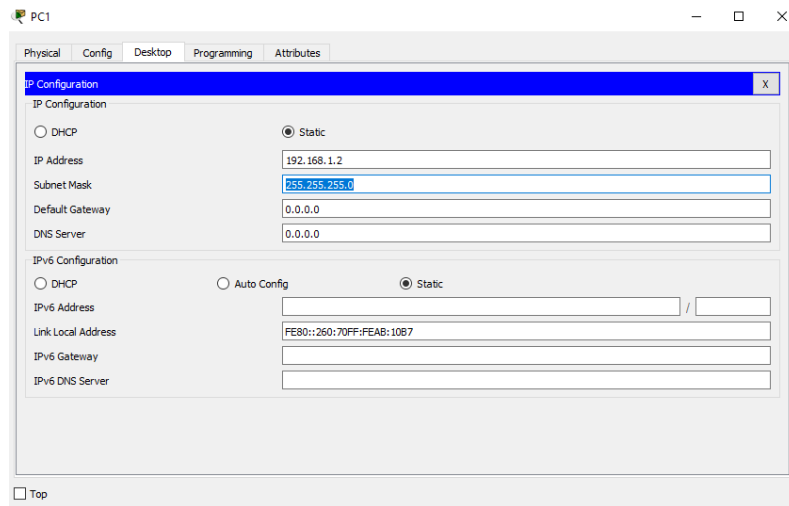
2. Kegiatan 2. Membuat Jaringan Peer to Peer.

- Menggunakan packet tracer buatlah rancangan seperti gambar di bawah ini

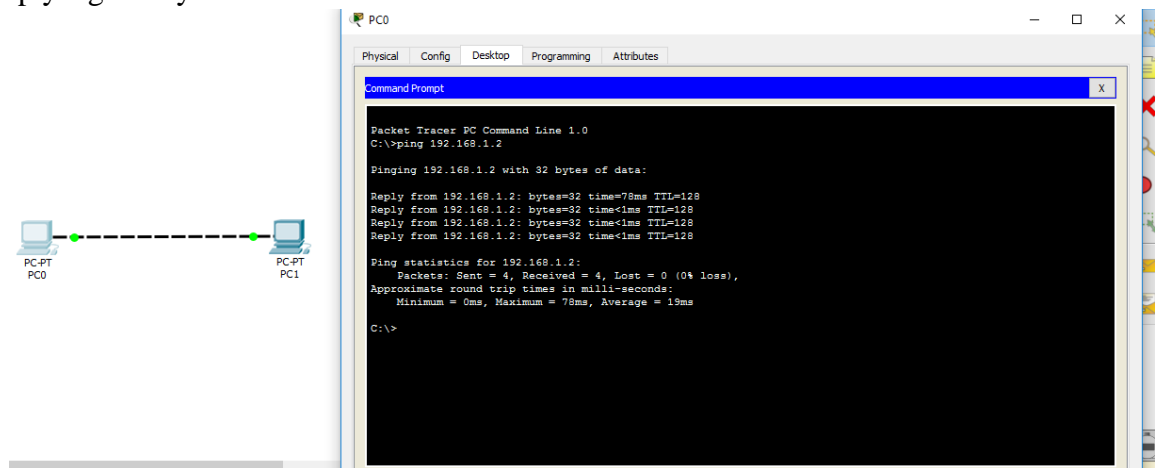


- Memberikan IP address



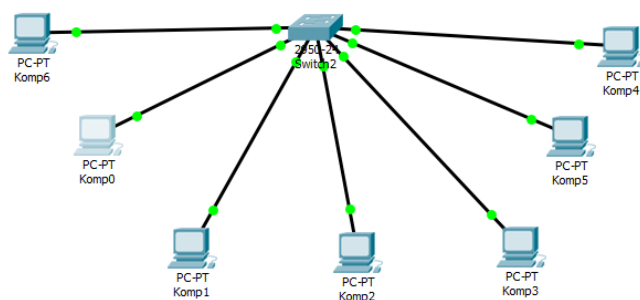


- Melakukan cek koneksi dengan perintah **ping** dari salah satu pc dan memasukkan pc ip yang lainnya

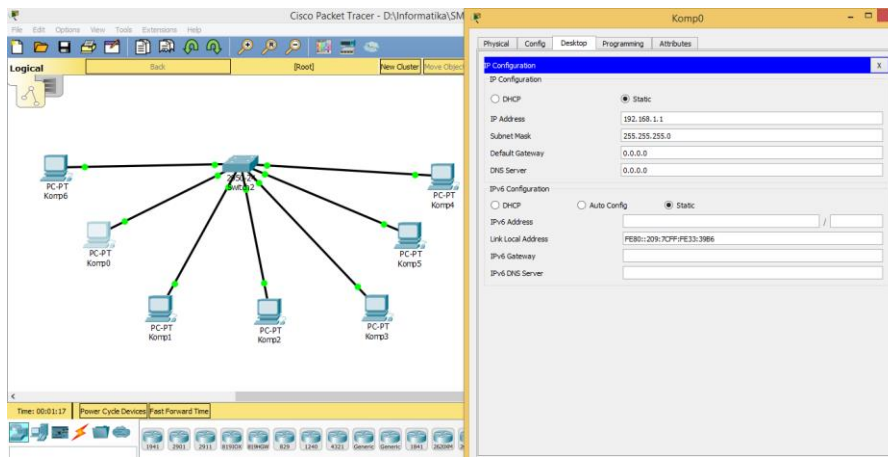


3. Kegiatan 3. Membuat jaringan dengan switch

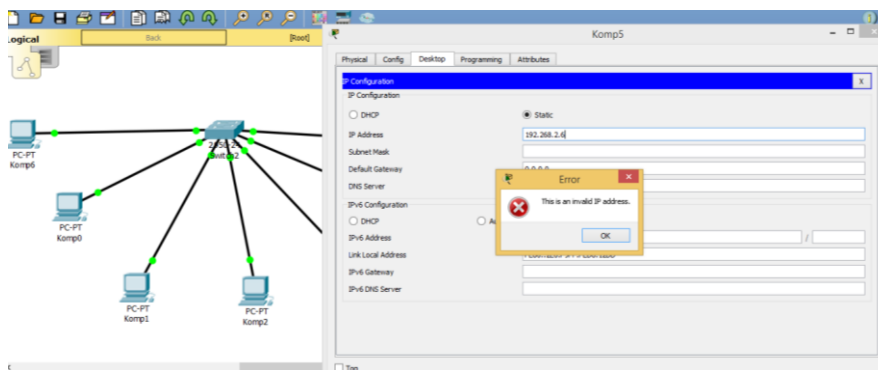
- Rancangan



- Menambahkan IP address

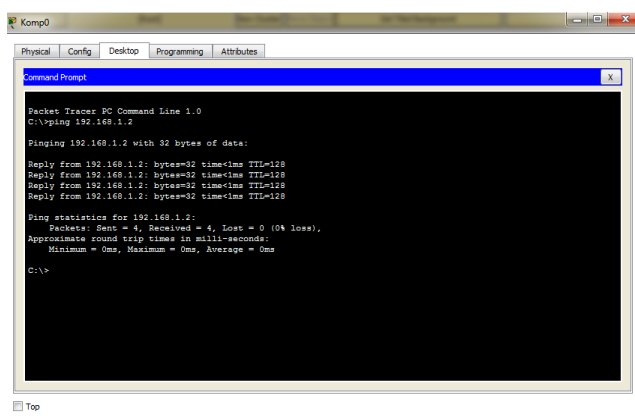


Pada hasil screenshot diatas menunjukkan bahwa berhasil memberi IP Address.



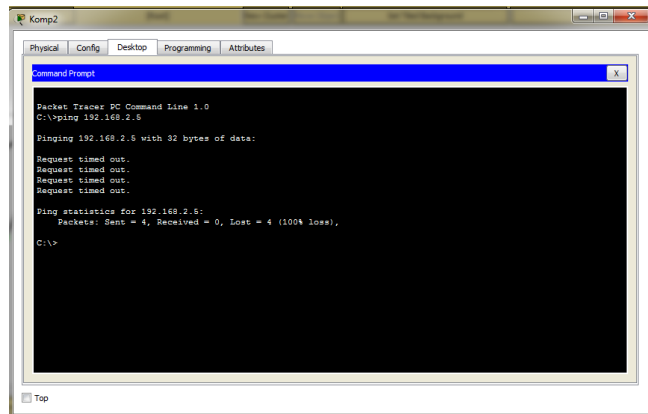
Pada hasil screenshot diatas menunjukkan error karena ipconfig nya terlalu besar, yaitu 268 sedangkan ip maksimalnya adalah 255.

- Melakukan ping antara:
 - a. PC1 ke PC2



PC1 ke PC2 bisa tersambung karena alamat IP bagian ke 3 sama – sama angka 1 atau karena satu network.

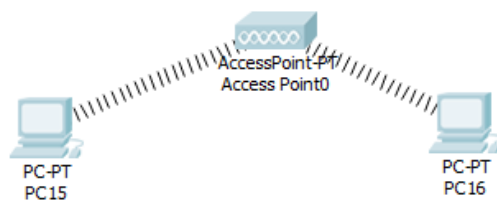
- b. PC3 ke PC5



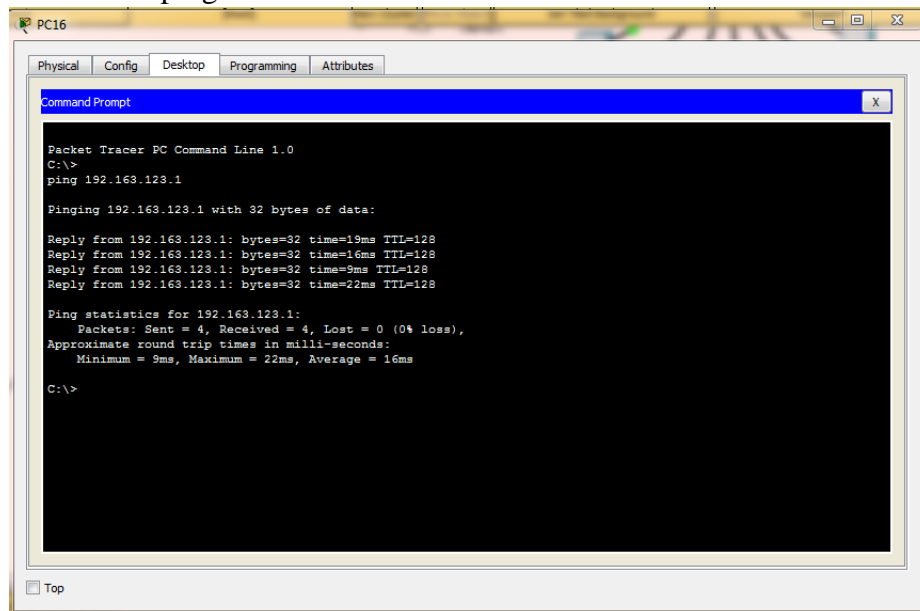
PC3 ke PC5 tidak bisa tersambung (time out) karena alamat IP bagian ke 3 berbeda atau karena beda network yang digunakan.

4. Kegiatan 4. Jaringan Nirkabel

- Rancangan



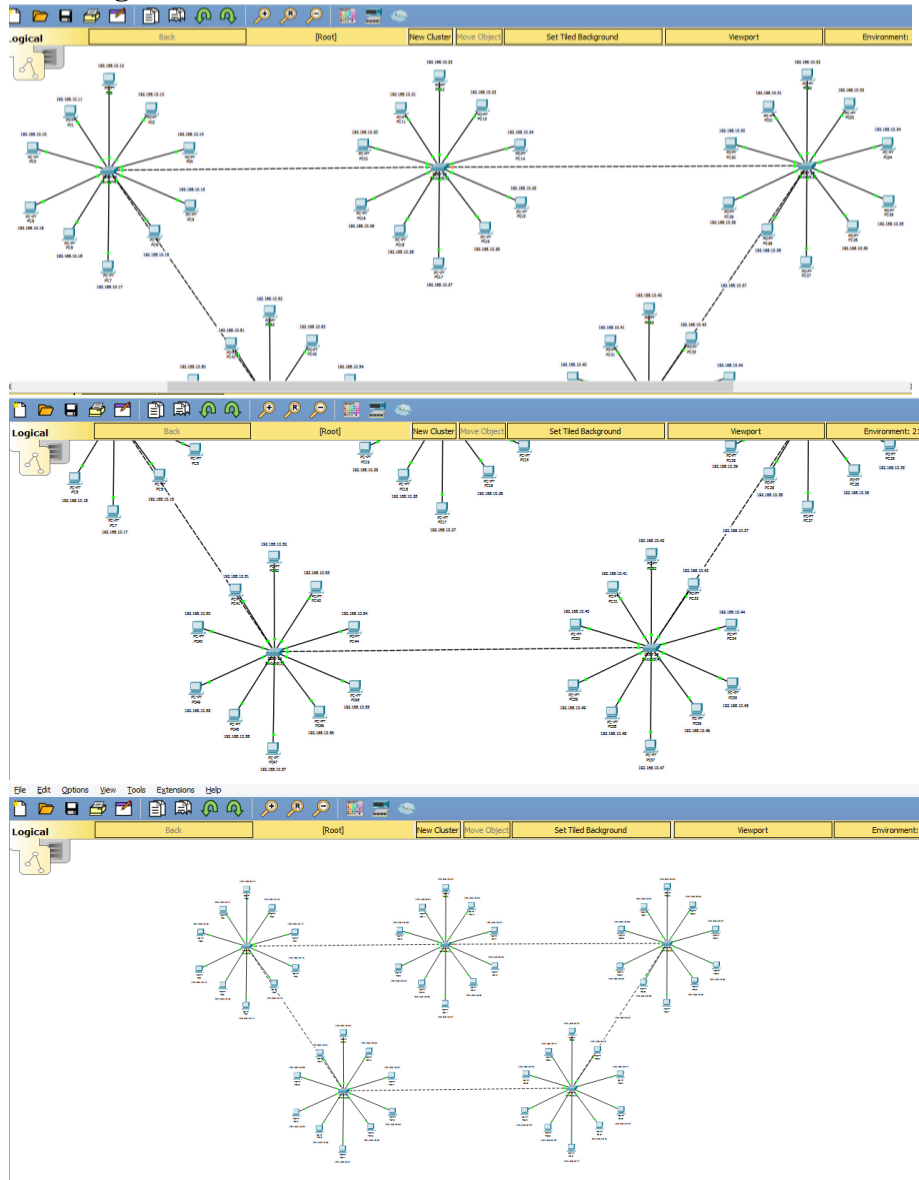
- Melakukan ping



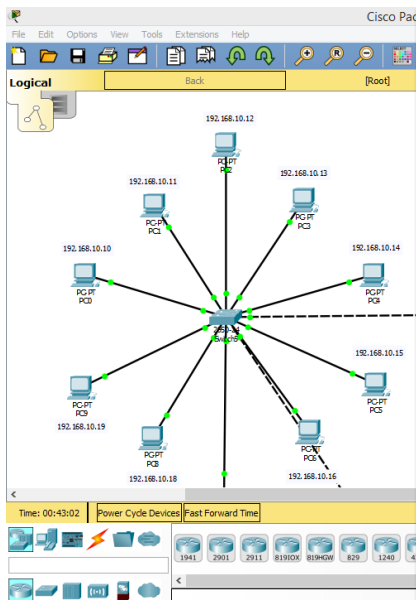
Tugas

Buatlah rancangan jaringan yang terdiri dari 5 switch yang saling terhubung, dan setiap switch terdiri dari 10 pc. Dengan alamat IP Address antara 192.168.10.10 sampai dengan 192.168.10.60.

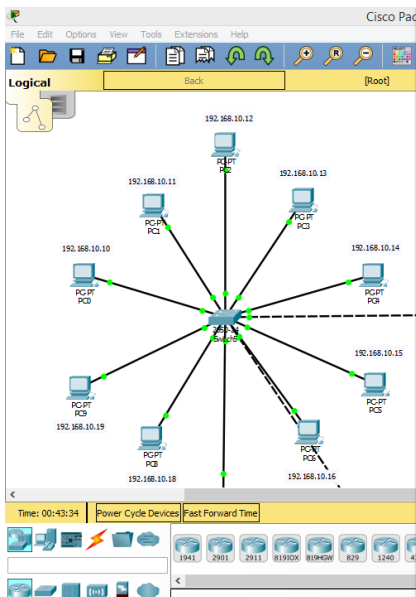
- Rancangan



- Melakukan cek koneksi dengan ping dari komputer IP 192.168.10.10 ke komputer lain yang berbeda sambungan switch



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.13
Pinging 192.168.10.13 with 32 bytes of data:
Reply from 192.168.10.13: bytes=32 time=7ms TTL=128
Reply from 192.168.10.13: bytes=32 time<1ms TTL=128
Reply from 192.168.10.13: bytes=32 time=36ms TTL=128
Reply from 192.168.10.13: bytes=32 time=5ms TTL=128
Ping statistics for 192.168.10.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 36ms, Average = 12ms
C:\>ping 192.168.10.23
Pinging 192.168.10.23 with 32 bytes of data:
Reply from 192.168.10.23: bytes=32 time=1ms TTL=128
Reply from 192.168.10.23: bytes=32 time<1ms TTL=128
Reply from 192.168.10.23: bytes=32 time=14ms TTL=128
Reply from 192.168.10.23: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 3ms
C:\>ping 192.168.10.33
Pinging 192.168.10.33 with 32 bytes of data:
Reply from 192.168.10.33: bytes=32 time=58ms TTL=128
Reply from 192.168.10.33: bytes=32 time=36ms TTL=128
Reply from 192.168.10.33: bytes=32 time=11ms TTL=128
Reply from 192.168.10.33: bytes=32 time=10ms TTL=128
Ping statistics for 192.168.10.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 58ms, Average = 28ms
C:\>
```



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.10.33: bytes=32 time=58ms TTL=128
Reply from 192.168.10.33: bytes=32 time=36ms TTL=128
Reply from 192.168.10.33: bytes=32 time=11ms TTL=128
Reply from 192.168.10.33: bytes=32 time=10ms TTL=128
Ping statistics for 192.168.10.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 58ms, Average = 28ms
C:\>ping 192.168.10.43
Pinging 192.168.10.43 with 32 bytes of data:
Reply from 192.168.10.43: bytes=32 time=52ms TTL=128
Reply from 192.168.10.43: bytes=32 time=25ms TTL=128
Reply from 192.168.10.43: bytes=32 time=13ms TTL=128
Reply from 192.168.10.43: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.43:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 52ms, Average = 22ms
C:\>ping 192.168.10.53
Pinging 192.168.10.53 with 32 bytes of data:
Reply from 192.168.10.53: bytes=32 time=55ms TTL=128
Reply from 192.168.10.53: bytes=32 time=5ms TTL=128
Reply from 192.168.10.53: bytes=32 time<1ms TTL=128
Reply from 192.168.10.53: bytes=32 time=10ms TTL=128
Ping statistics for 192.168.10.53:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 55ms, Average = 17ms
C:\>
```