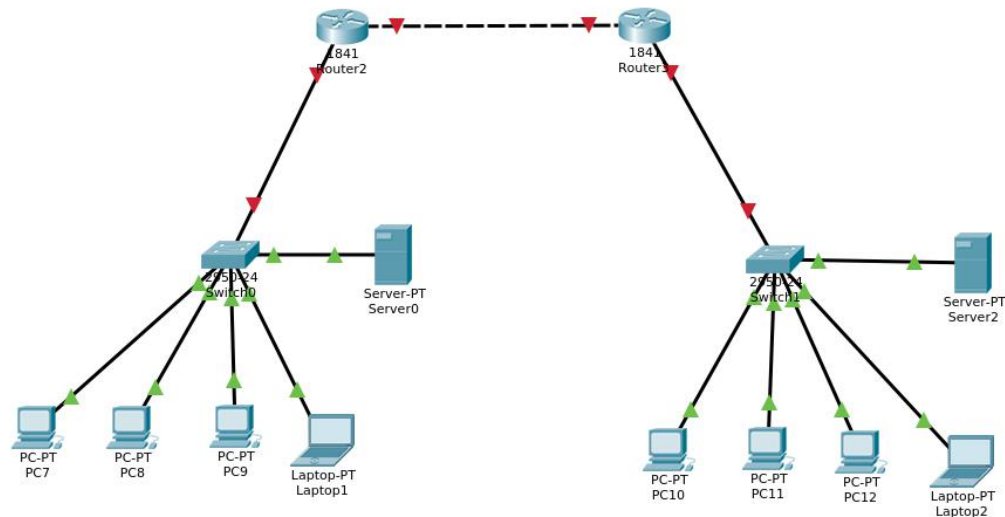


Nama : Muhammad Vicky Al H.  
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Modul : BAB II - Pengenalan Cisco Packet Tracer

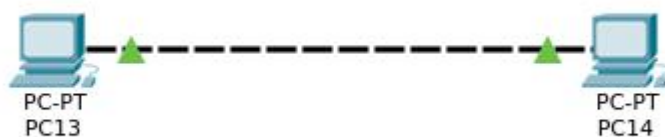
## 1. Kegiatan-1



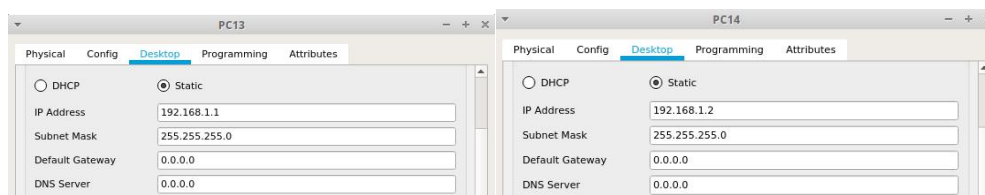
Amati lampu indikator pada setiap titik. Kemudian jelaskan pada kolom dibawah ini!

- Pada Router 1841 yang terhubung ke Switch 2950-24, menunjukkan indikator **merah** yang berarti tidak terhubung.
- Pada Router 1841 yang terhubung ke Router 1841, menunjukkan indikator **merah** yang berarti tidak terhubung.
- Pada Switch 2950-24 yang terhubung ke 3-PC, 1-Laptop, dan Server, menunjukkan indikator **hijau** yang berarti saling terhubung.

## 2. Kegiatan-2. Membuat Jaringan Peer to Peer



- PC13 dan PC14, menunjukkan indikator **hijau** yang berarti terhubung.

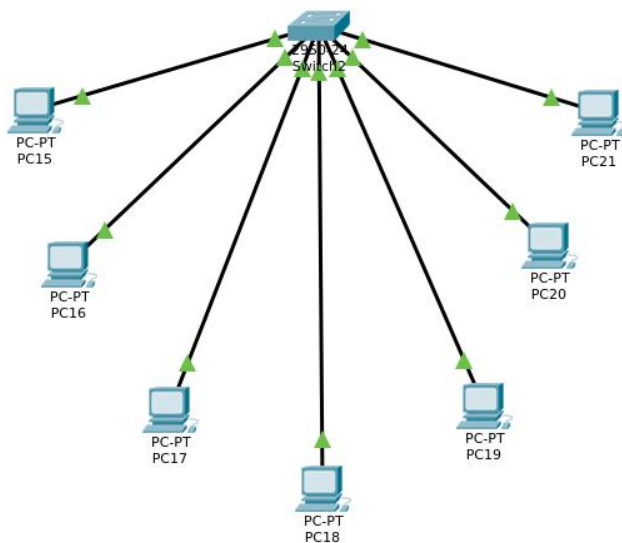


- PC13 memiliki IP 192.168.1.1 dan PC14 memiliki IP 192.168.1.2

<pre> Packet Tracer PC Command Line 1.0 C:\&gt;ping 192.168.1.2  Pinging 192.168.1.2 with 32 bytes of data:  Reply from 192.168.1.2: bytes=32 time=50ms TTL=128 Reply from 192.168.1.2: bytes=32 time=4ms TTL=128 Reply from 192.168.1.2: bytes=32 time&lt;1ms TTL=128 Reply from 192.168.1.2: bytes=32 time&lt;1ms TTL=128  Ping statistics for 192.168.1.2:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 0ms, Maximum = 50ms, Average = 13ms         </pre>	<pre> Packet Tracer PC Command Line 1.0 C:\&gt;ping 192.168.1.1  Pinging 192.168.1.1 with 32 bytes of data:  Reply from 192.168.1.1: bytes=32 time=3ms TTL=128 Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=128 Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=128 Reply from 192.168.1.1: bytes=32 time&lt;1ms TTL=128  Ping statistics for 192.168.1.1:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 0ms, Maximum = 3ms, Average = 0ms         </pre>
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- PC13 dan PC14 saat dilakukan pengujian ping antar keduanya saling terhubung.

### 3. Kegiatan 3. Membuat Jaringan dengan Switch



- PC15 dengan IP 192.168.1.1
- PC16 dengan IP 192.168.1.2
- PC17 dengan IP 192.168.1.3
- PC18 dengan IP 192.168.1.4
- PC19 dengan IP 192.168.2.5
- PC20 dengan IP 192.168.2.6
- PC21 dengan IP 192.168.2.7

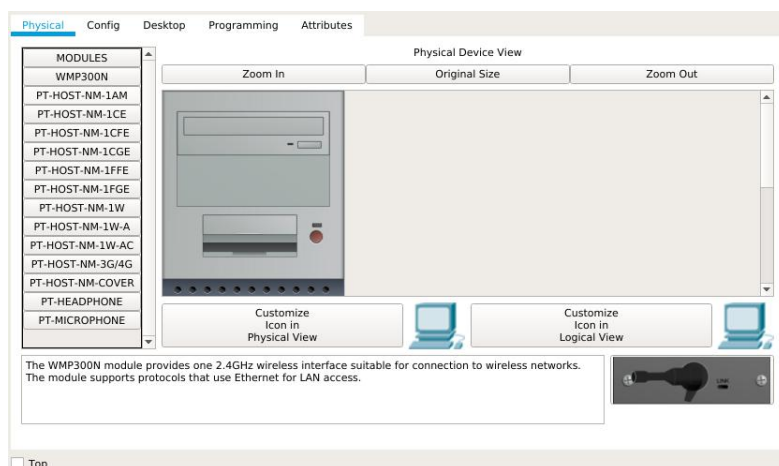
<pre> Packet Tracer PC Command Line 1.0 C:\&gt;ping 192.168.1.2  Pinging 192.168.1.2 with 32 bytes of data:  Reply from 192.168.1.2: bytes=32 time=27ms TTL=128 Reply from 192.168.1.2: bytes=32 time&lt;1ms TTL=128 Reply from 192.168.1.2: bytes=32 time&lt;1ms TTL=128 Reply from 192.168.1.2: bytes=32 time&lt;1ms TTL=128  Ping statistics for 192.168.1.2:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 0ms, Maximum = 27ms, Average = 6ms         </pre>	<pre> Packet Tracer PC Command Line 1.0 C:\&gt;ping 192.168.2.5  Pinging 192.168.2.5 with 32 bytes of data:  Request timed out. Request timed out. Request timed out. Request timed out.  Ping statistics for 192.168.2.5:     Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),         </pre>
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- ✓ PC15 ping ke PC16 menunjukkan **terhubung**. Karena class IP sama antar keduanya dan ada respon balasan dari PC16.
- ✓ PC17 ping ke PC19 menunjukkan **RTO**. Karena class IP antar keduanya berbeda, dan tidak ada respon dari PC19.

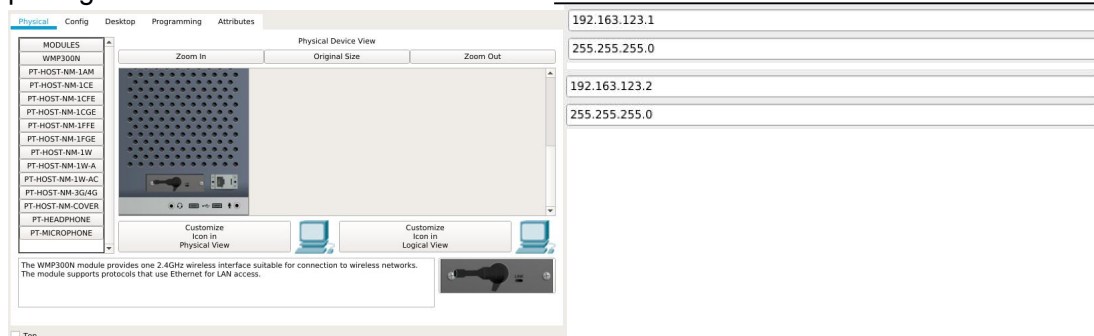
#### 4. Kegiatan-4



Untuk menghubungkan perangkat PC dengan Perangkat wireless, kita perlu menambah modul wireles ke perangkat PC kita. Dengan cara, klik 2 kali pada PC, kemudian tekan tombol power terlebih dahulu untuk mematikan PC Kita.



Setelah dimatikan ganti module lan card pada perangkat PC kita. Ganti dengan perangkat links WPM 300N. Setelah itu beri IP Address 192.163.123.1 dan 192.163.123.2



Lakukan ping antar kedua PC.

```
C:\>ping 192.163.123.2

Pinging 192.163.123.2 with 32 bytes of data:

Reply from 192.163.123.2: bytes=32 time=45ms TTL=128
Reply from 192.163.123.2: bytes=32 time=15ms TTL=128
Reply from 192.163.123.2: bytes=32 time=13ms TTL=128
Reply from 192.163.123.2: bytes=32 time=15ms TTL=128

Ping statistics for 192.163.123.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 13ms, Maximum = 45ms, Average = 22ms
```

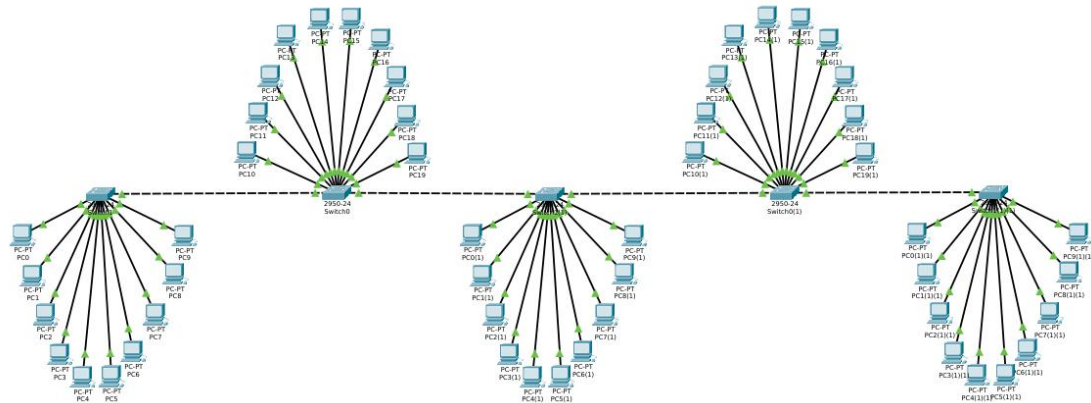


➤ PC0 ping ke PC1 menunjukkan **terhubung**. Karena ada respon balasan dari PC1.

## 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.

➤ Berikut adalah rangkaiannya



➤ Berikut adalah hasil ping dari beberapa IP Address

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.30

Pinging 192.168.10.30 with 32 bytes of data:

Reply from 192.168.10.30: bytes=32 time=3ms TTL=128
Reply from 192.168.10.30: bytes=32 time=20ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 20ms, Average = 5ms

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.41

Pinging 192.168.10.41 with 32 bytes of data:

Reply from 192.168.10.41: bytes=32 time=45ms TTL=128
Reply from 192.168.10.41: bytes=32 time<1ms TTL=128
Reply from 192.168.10.41: bytes=32 time=1ms TTL=128
Reply from 192.168.10.41: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.10.41:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 45ms, Average = 12ms

C:\>ping 192.168.10.50

Pinging 192.168.10.50 with 32 bytes of data:

Reply from 192.168.10.50: bytes=32 time=57ms TTL=128
Reply from 192.168.10.50: bytes=32 time<1ms TTL=128
Reply from 192.168.10.50: bytes=32 time=4ms TTL=128
Reply from 192.168.10.50: bytes=32 time=3ms TTL=128

Ping statistics for 192.168.10.50:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 57ms, Average = 16ms

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.60

Pinging 192.168.10.60 with 32 bytes of data:

Reply from 192.168.10.60: bytes=32 time=187ms TTL=128
Reply from 192.168.10.60: bytes=32 time<1ms TTL=128
Reply from 192.168.10.60: bytes=32 time=1ms TTL=128
Reply from 192.168.10.60: bytes=32 time=59ms TTL=128

Ping statistics for 192.168.10.60:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 187ms, Average = 61ms
```