

Nama : Loadtriani Oktavia
NIM : 215314172

Praktikum Internet dan Aplikasinya

TUGAS 8 : Wireless

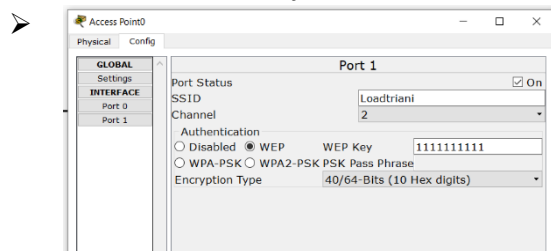
Tujuan

Mahasiswa memahami aspek-aspek untuk mengimplementasikan jaringan wireless (dan wired)

Tugas 8a : Wireless AP

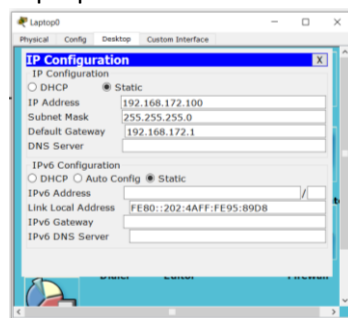
Buat topologi dengan sebagai berikut

- Pilih Wireless Device AccessPoint-PT, kemudian konfigurasi Port1 dengan :
 - SSID dengan nama Anda
 - Channel sesuai dengan digit belkanag NIM Anda (kalau digitnya 0 ubah menjadi 10)
 - Set Password dan buat menjadi enable

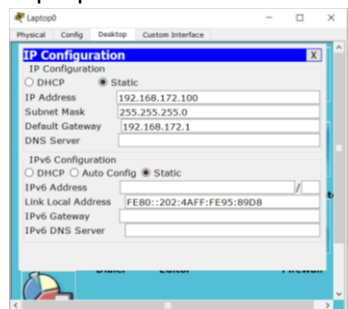


- Konfigurasi IP pada PC & Laptop, kemudian pastikan masing-masing PC / Laptop terkoneksi

➤ Laptop0

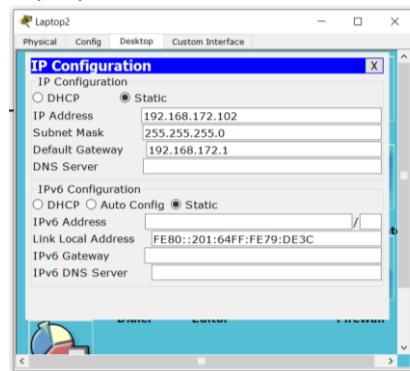


➤ Laptop1

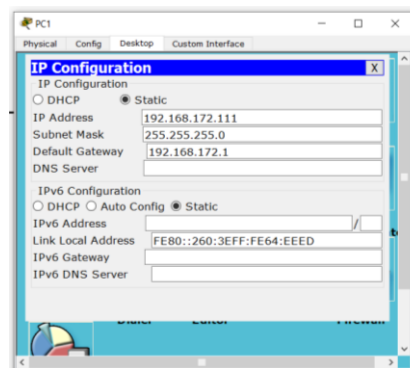


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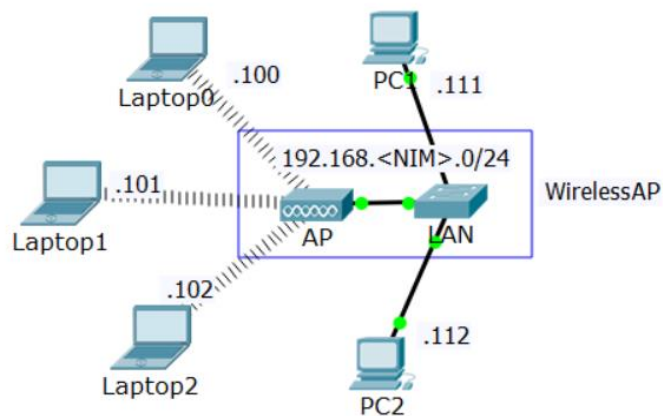
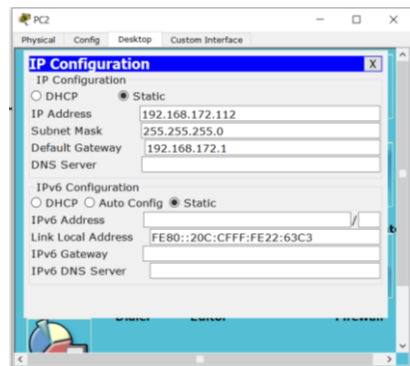
➤ Laptop2



➤ PC1



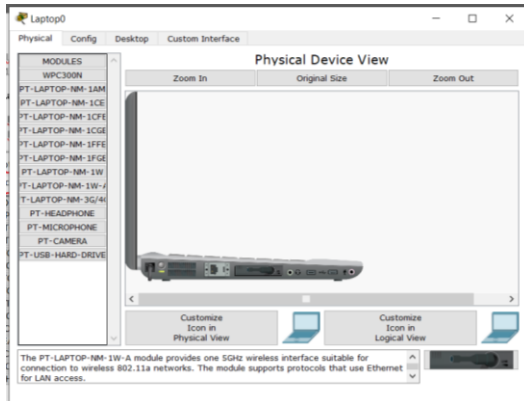
➤ PC2



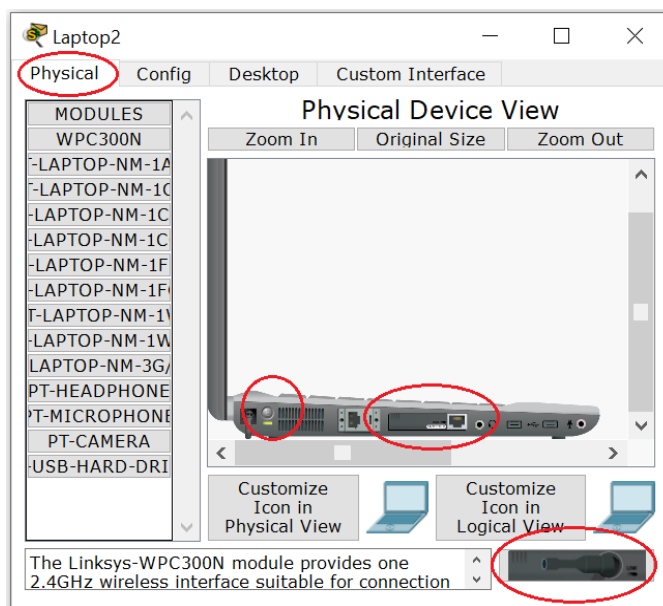
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Seting Laptop

- **Matikan** Laptop – **Ganti Interface** Ethernet dengan Wireless – **Hidupkan** lagi



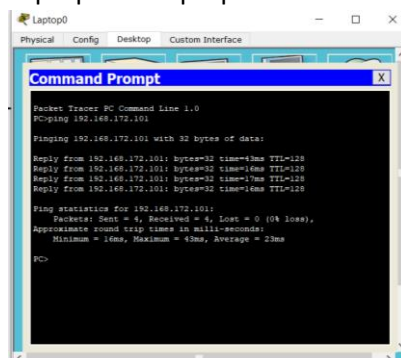
- Konfigurasi pada Wireless SSID & Password sesuai dengan AP, kemudian atur IPnya



Pengamatan

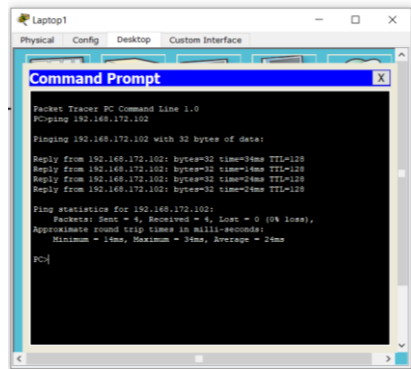
Jalankan pada mode simulasi amati ketika :

- Ping dari Laptop ke Laptop
➤ Laptop 0 ke Laptop 1



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➤ Laptop 1 ke Laptop 2



```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.172.102

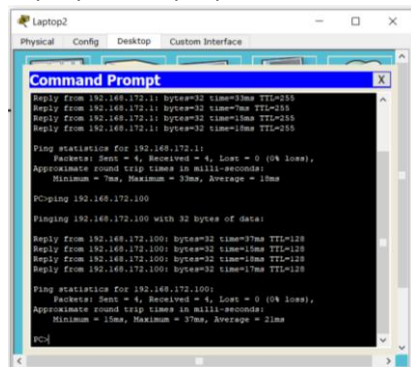
Pinging 192.168.172.102 with 32 bytes of data:

Reply from 192.168.172.102: bytes=32 time=3ms TTL=128
Reply from 192.168.172.102: bytes=32 time=1ms TTL=128
Reply from 192.168.172.102: bytes=32 time=2ms TTL=128
Reply from 192.168.172.102: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.172.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms

PC>
```

➤ Laptop2 ke Laptop0



```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.172.100

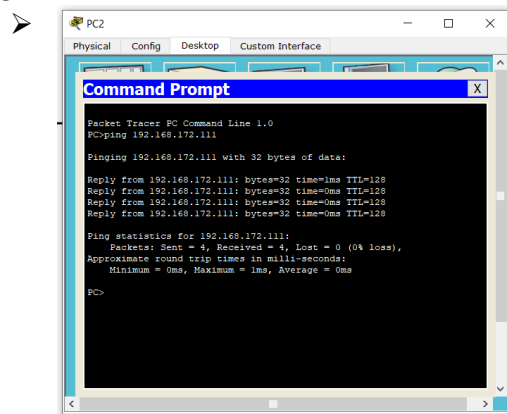
Pinging 192.168.172.100 with 32 bytes of data:

Reply from 192.168.172.100: bytes=32 time=3ms TTL=128
Reply from 192.168.172.100: bytes=32 time=1ms TTL=128
Reply from 192.168.172.100: bytes=32 time=1ms TTL=128
Reply from 192.168.172.100: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.172.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

PC>
```

● Ping dari PC ke PC



```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.172.111

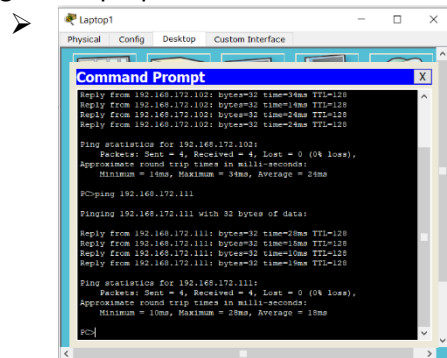
Pinging 192.168.172.111 with 32 bytes of data:

Reply from 192.168.172.111: bytes=32 time=1ms TTL=128
Reply from 192.168.172.111: bytes=32 time=0ms TTL=128
Reply from 192.168.172.111: bytes=32 time=0ms TTL=128
Reply from 192.168.172.111: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.172.111:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>
```

● Ping dari Laptop ke PC



```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.172.102

Pinging 192.168.172.102 with 32 bytes of data:

Reply from 192.168.172.102: bytes=32 time=1ms TTL=128
Reply from 192.168.172.102: bytes=32 time=1ms TTL=128
Reply from 192.168.172.102: bytes=32 time=2ms TTL=128
Reply from 192.168.172.102: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.172.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms

PC>ping 192.168.172.111

Pinging 192.168.172.111 with 32 bytes of data:

Reply from 192.168.172.111: bytes=32 time=1ms TTL=128
Reply from 192.168.172.111: bytes=32 time=1ms TTL=128
Reply from 192.168.172.111: bytes=32 time=1ms TTL=128
Reply from 192.168.172.111: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.172.111:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

PC>
```

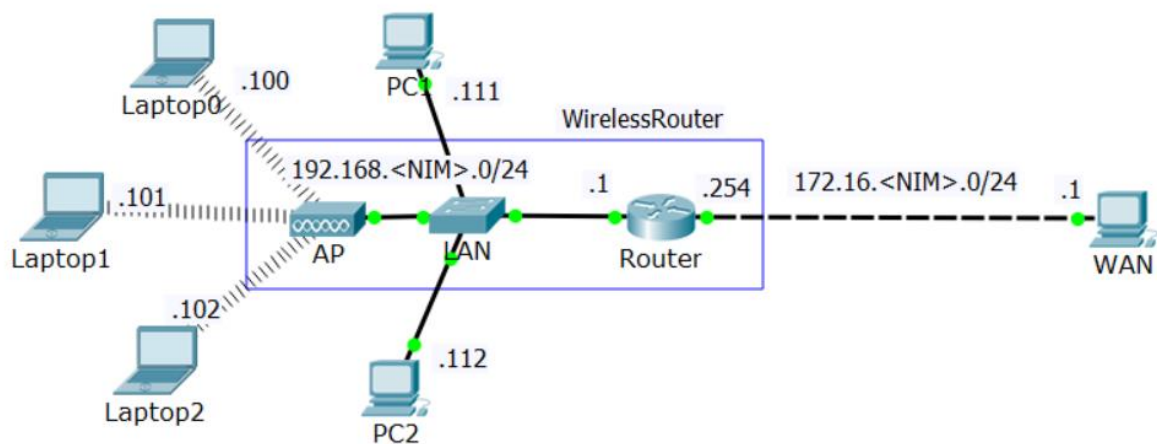
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- Dari hasil simulasi menurut Anda AP dilihat dari collision domainnya lebih mirip hub atau switch (bandingkan dengan simulasi hub / switch pada tugas sebelumnya)

Jawab : Menurut saya collision domainnya lebih mirip hub

Tugas 8b : Wireless Router

- Tambahkan konfigurasi sebelumnya dengan sebuah Router sehingga topologinya menjadi seperti di bawah ini.
- Konfigurasi Router dan PC Tambahan (kalau perlu PC & Laptop juga)
- Pastikan semua PC / Laptop semua terkoneksi



Buat Laporan dengan cara mengirimkan screen-shot langkah-langkah yang Anda jalankan (termasuk bukti bahwa koneksi / ping telah berhasil).

Upload -- file Cisco Paket Tracer *.pkt dan file dokumen *.doc atau *.pdf -- di LMS sebelum waktu yang ditentukan