

**LAPORAN RESMI
PRAKTIKUM 7
PRAKTIKUM KONSEP JARINGAN**



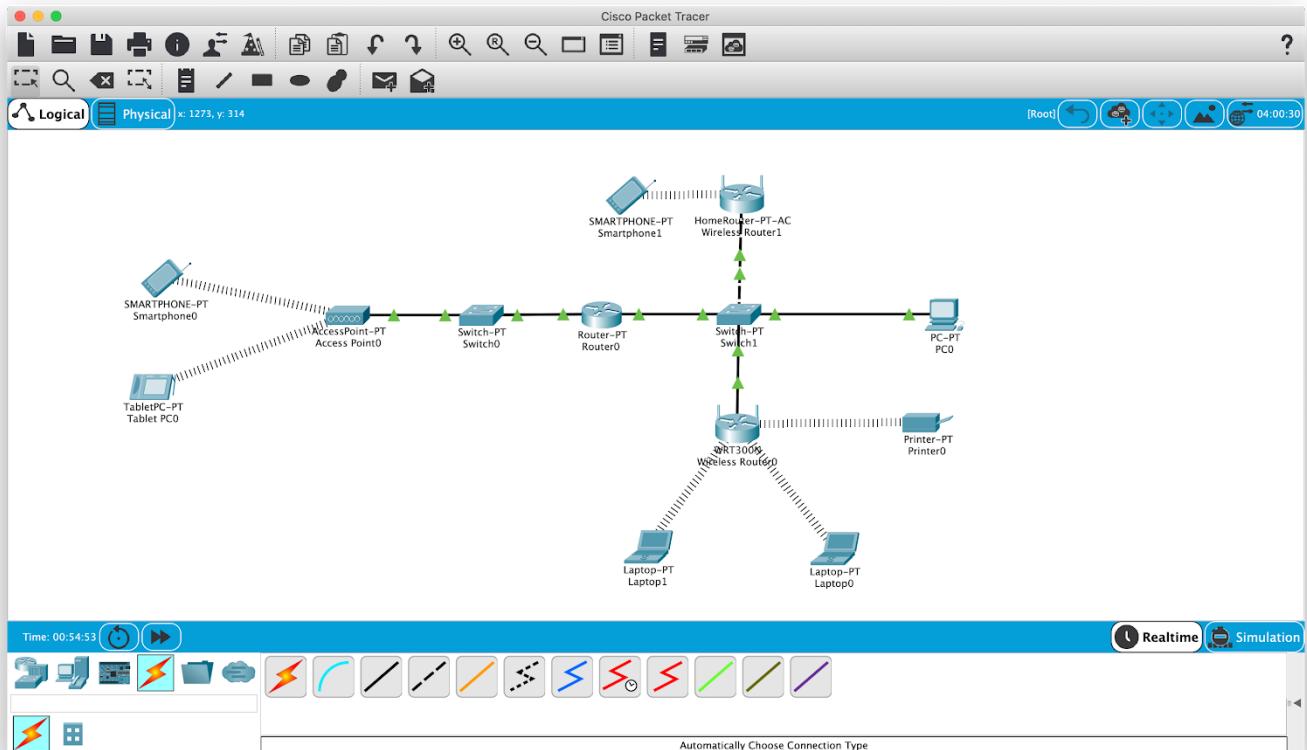
Disusun oleh:

**FABYAN KINDARYA
2110191024**

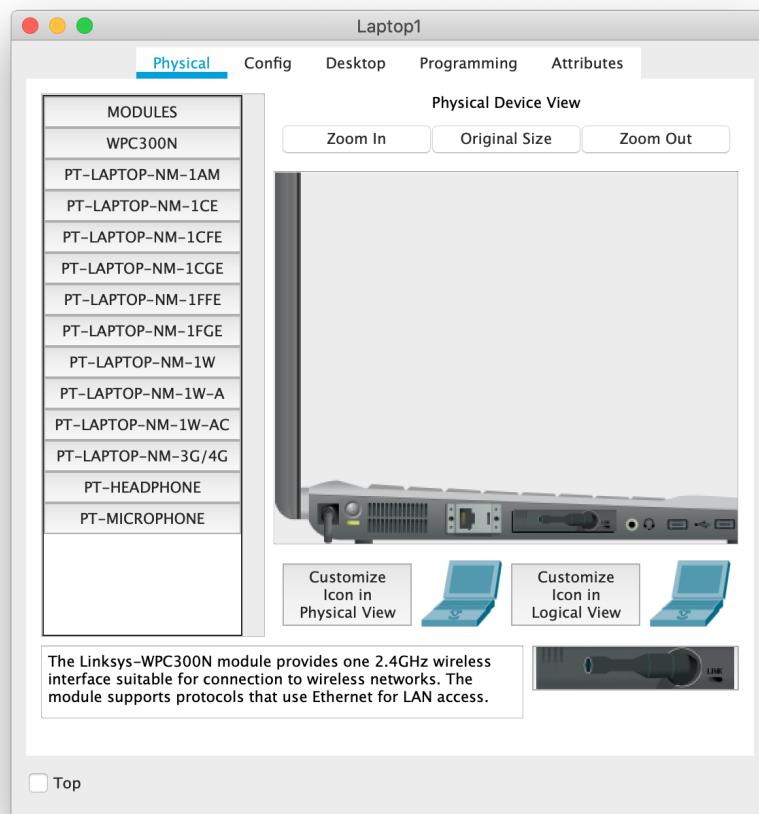
**PROGRAM STUDI D-IV TEKNIK INFORMATIKA
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA**

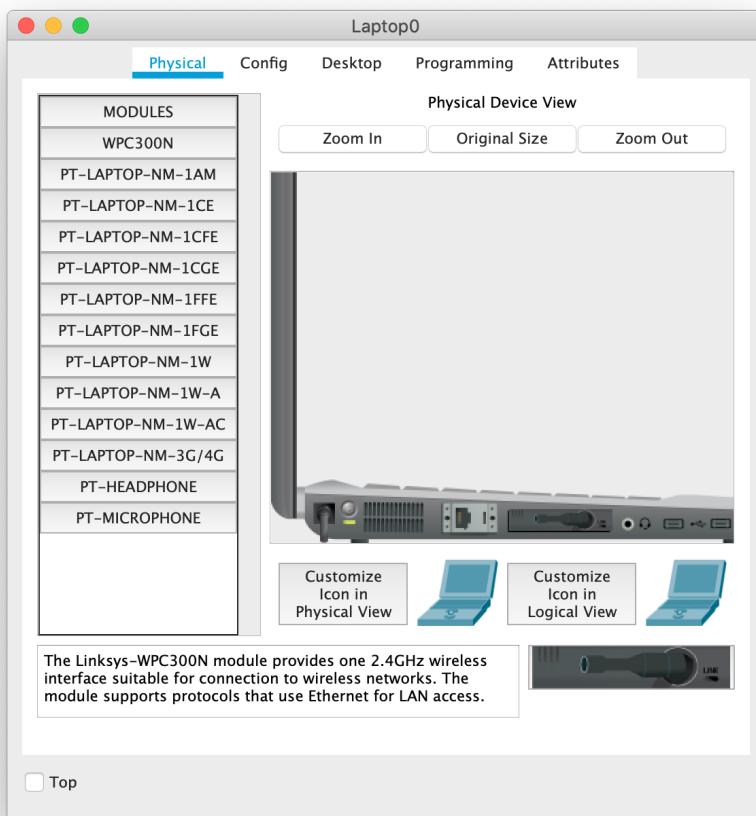
PRAKTIKUM 7 - KONFIGURASI WIRELESS DI PACKET TRACER

Topologi Jaringan

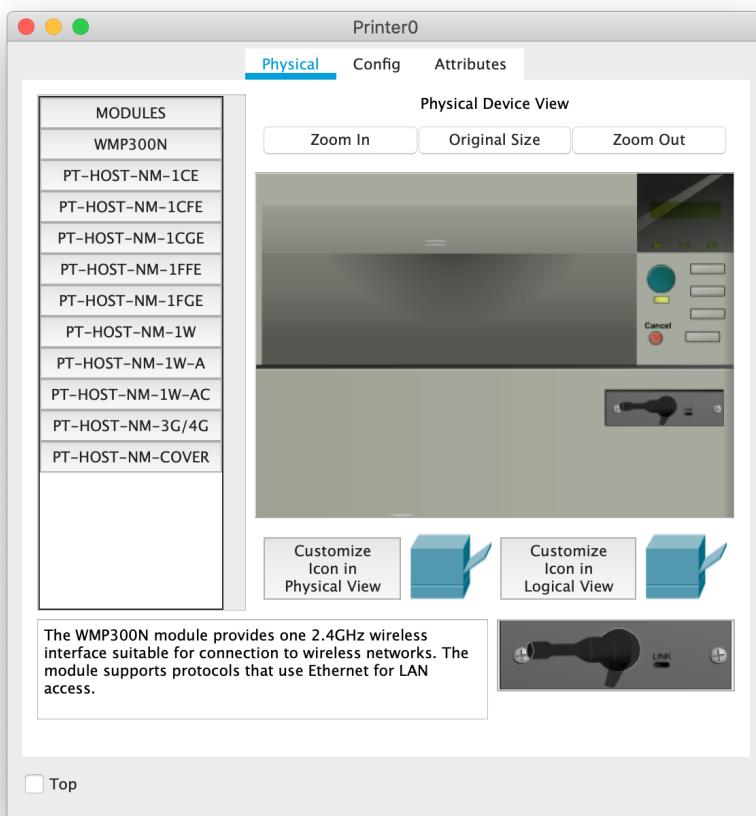


1. Setting Wireless Client di Laptop

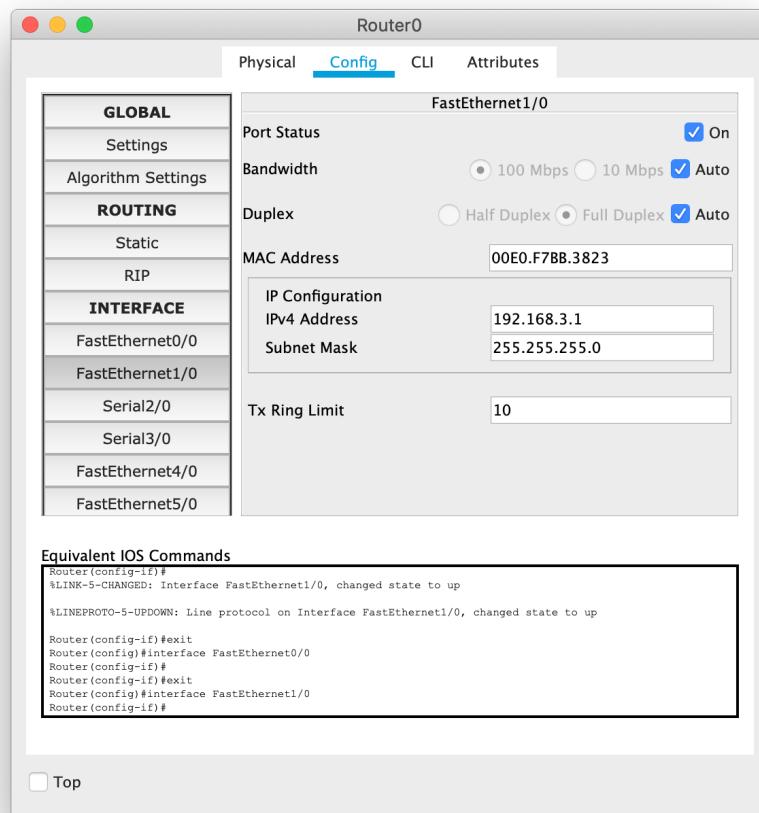
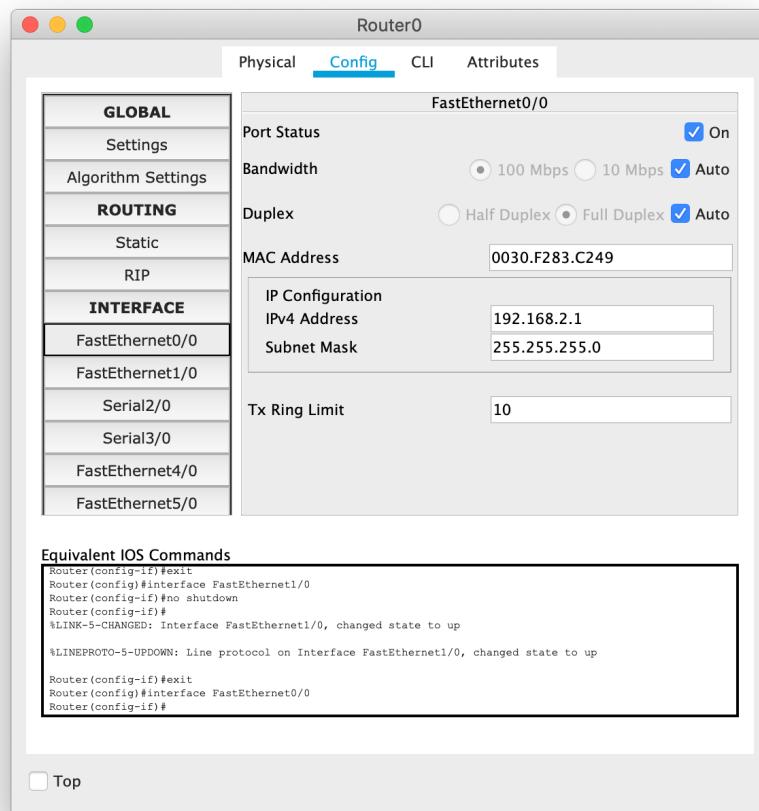


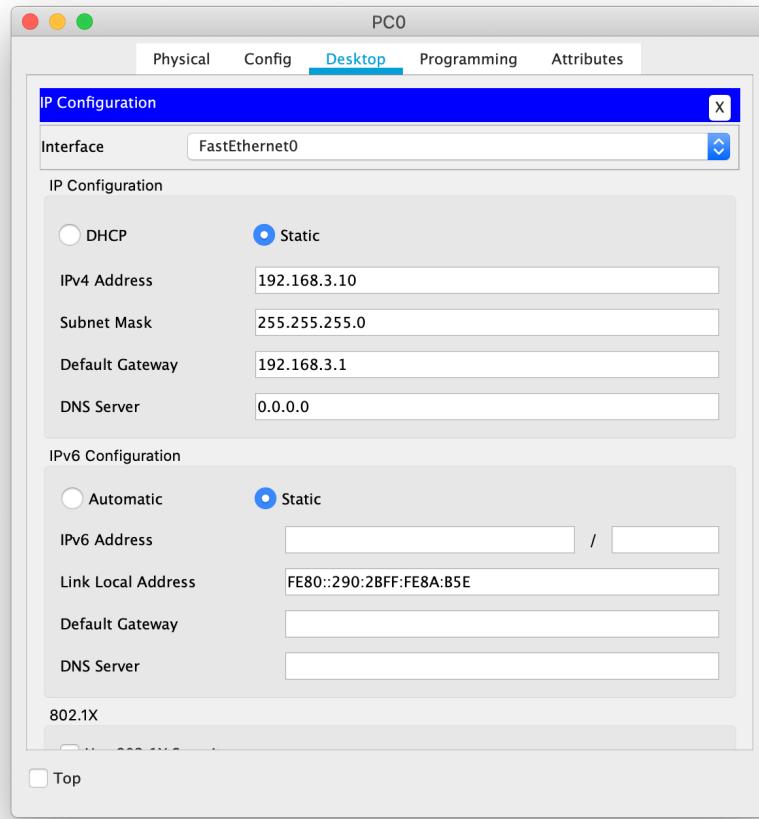


2. Setting Wireless Client di Printer



3. Setting IP di Router dan PC0





4. Setting DHCP Server di Router

```

Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 27-Apr-04 19:01 by miwang
PT 1001 (PTSC2005) processor (revision 0x200) with 60416K/5120K bytes of memory
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

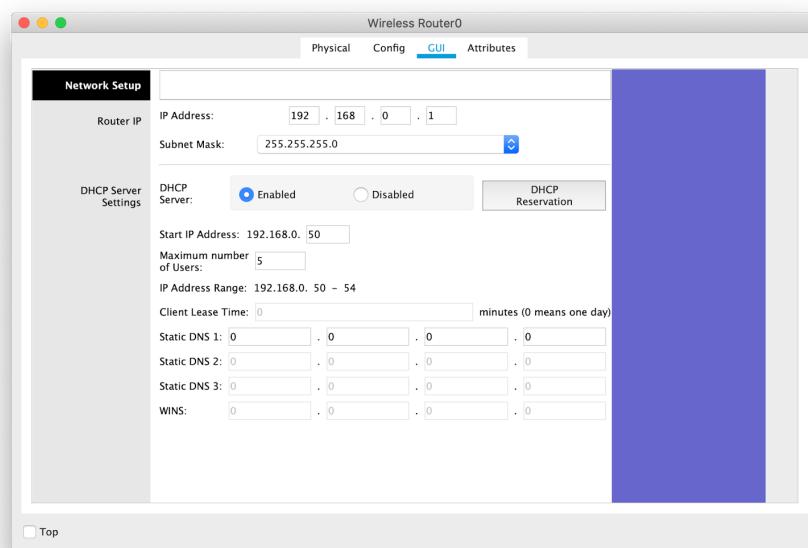
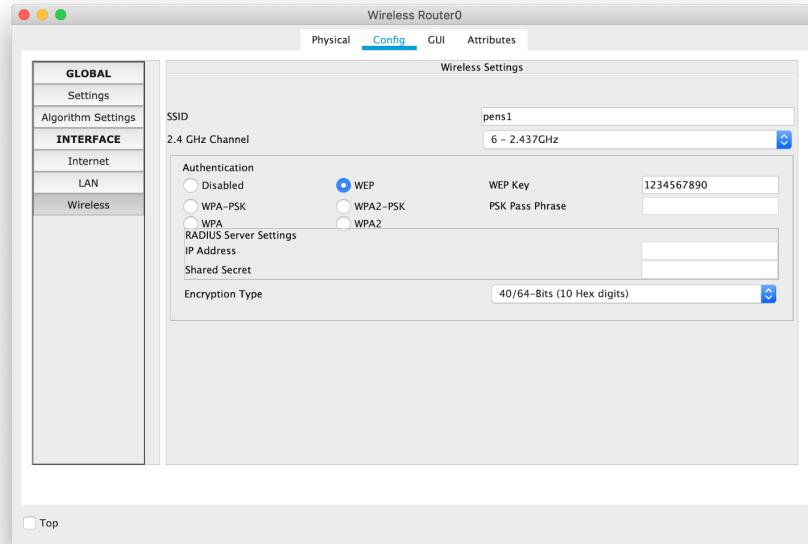
Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa1/0
Router(config-if)#ip dhcp pool pens1
Router(config-if)#network 192.168.3.0 255.255.255.0
Router(config-if)#default-router 192.168.3.1
Router(config-if)#ip dhcp excluded-address 192.168.3.1
Router(config)#int fa0/0
Router(config-if)#ip dhcp pool pens2
Router(config-if)#network 192.168.2.0 255.255.255.0
Router(config-if)#default-router 192.168.2.1
Router(config)#ip dhcp excluded-address 192.168.2.1
Router(config)#

```

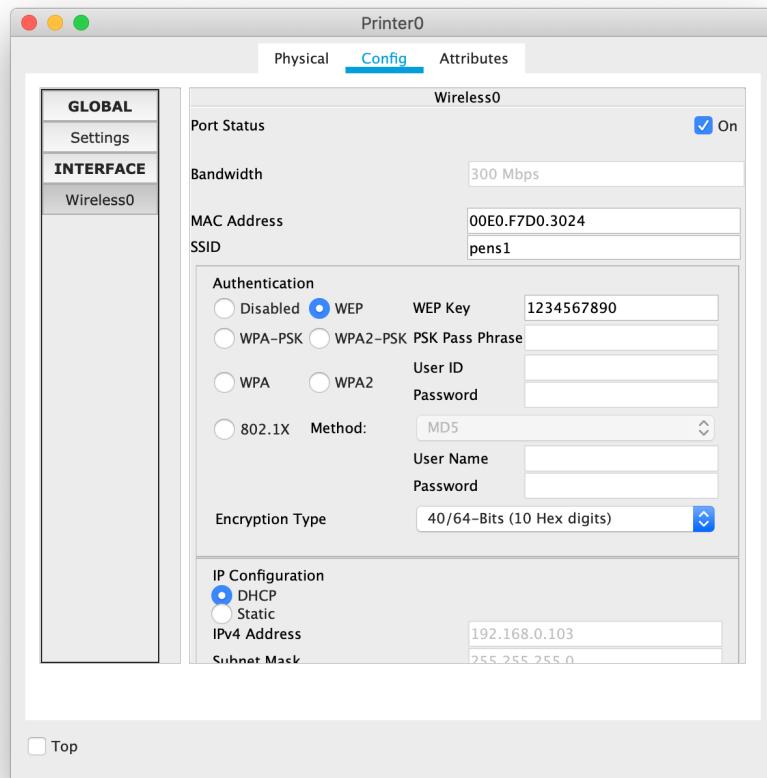
Command+F6 to exit CLI focus

Top

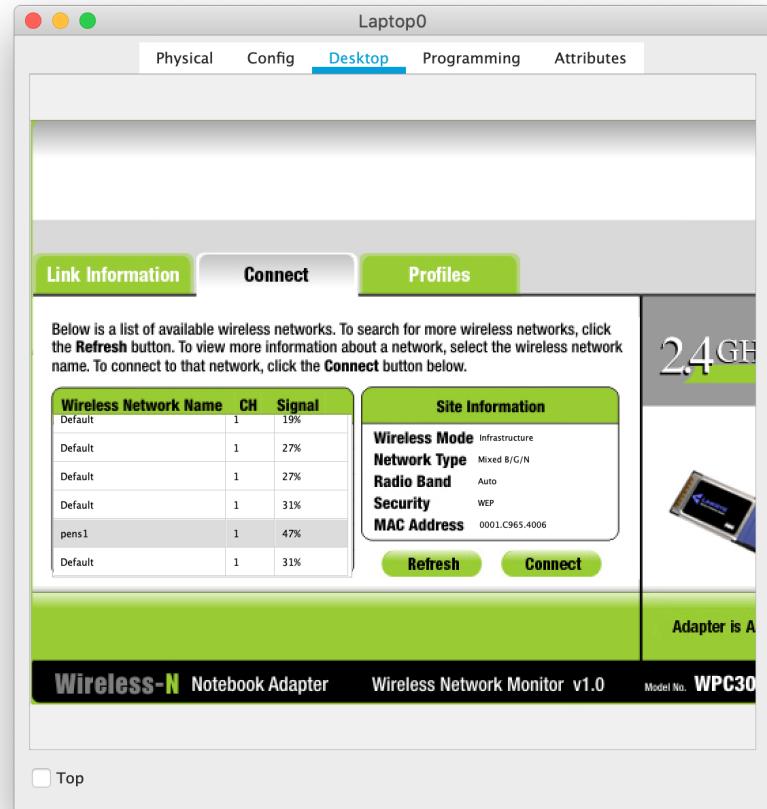
5. Setting Wireless di Wireless Router0



6. Connecting Printer to Wireless Router0

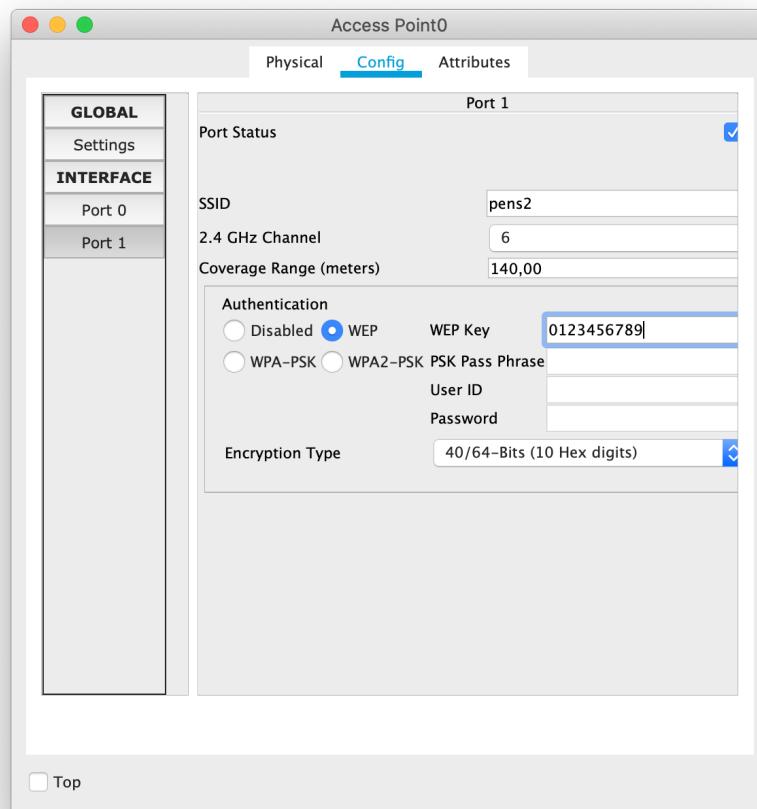


7. Connecting Laptop to Wireless Router

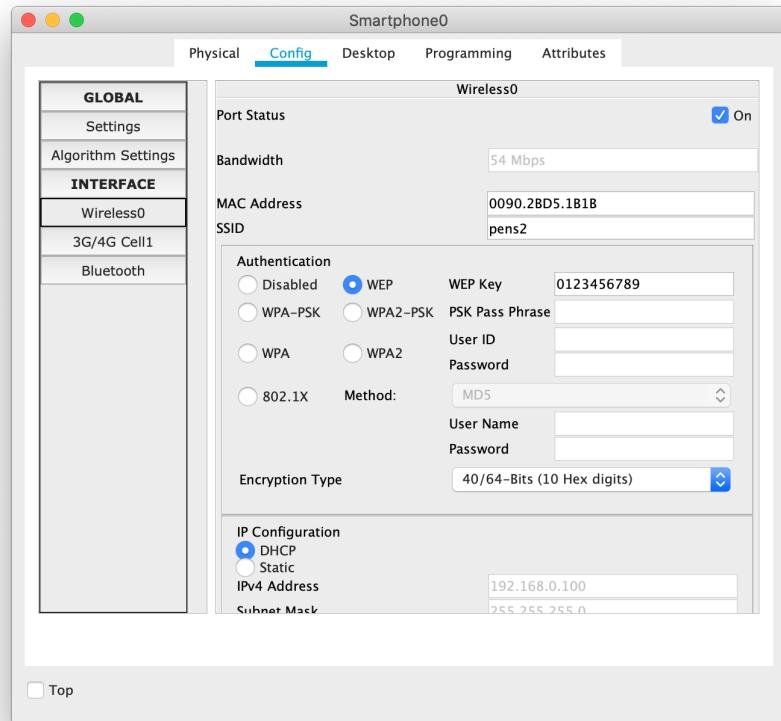




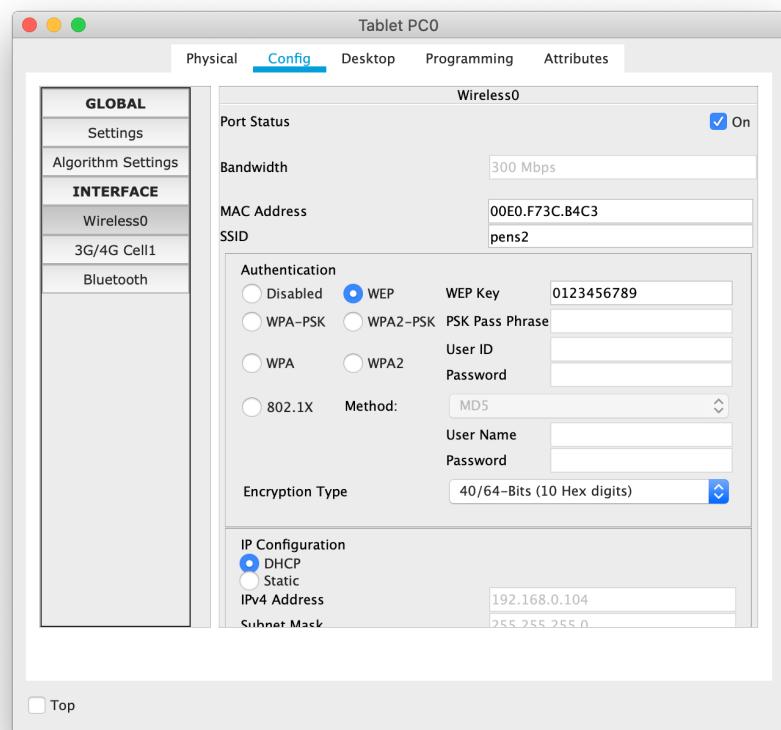
8. Setting Wireless di Access Point0



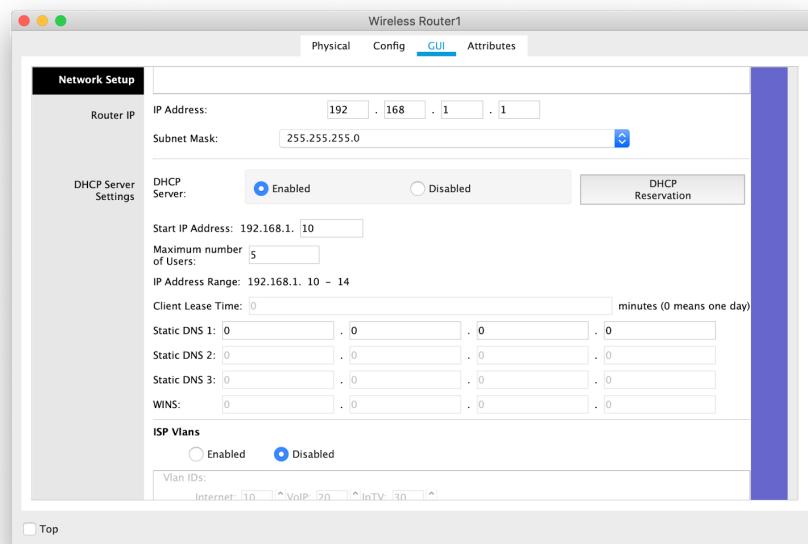
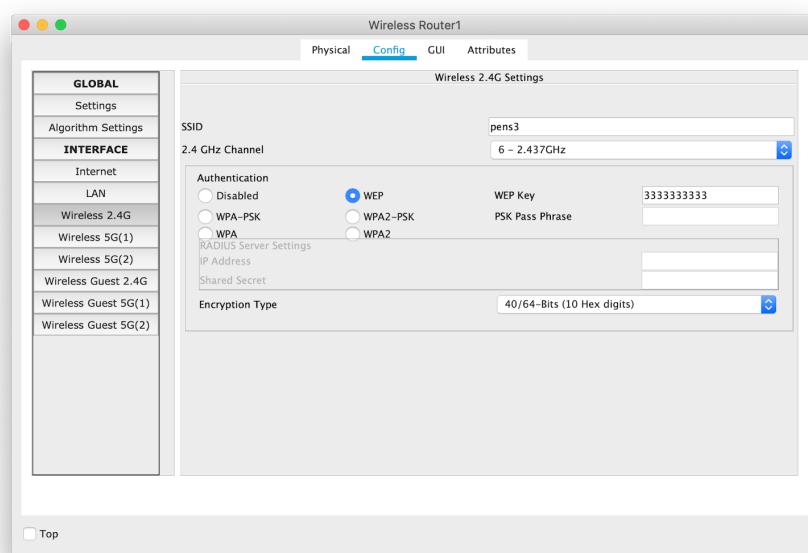
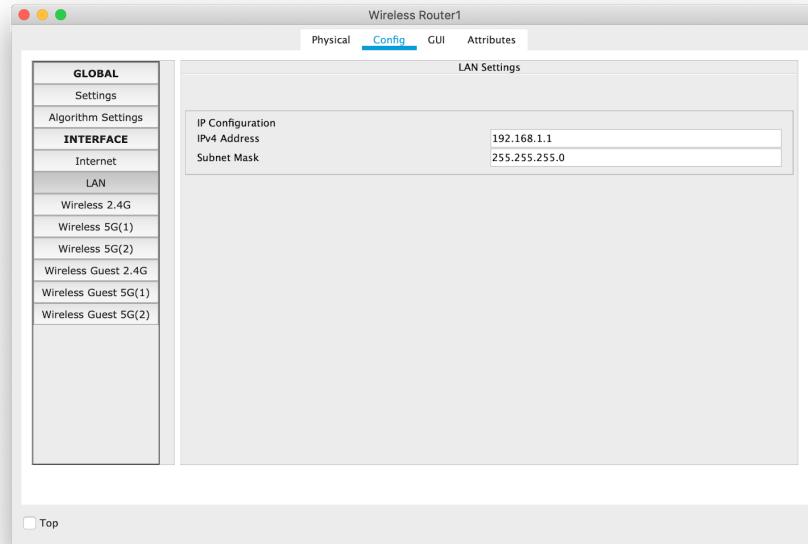
9. Connecting Smartphone to Access point0



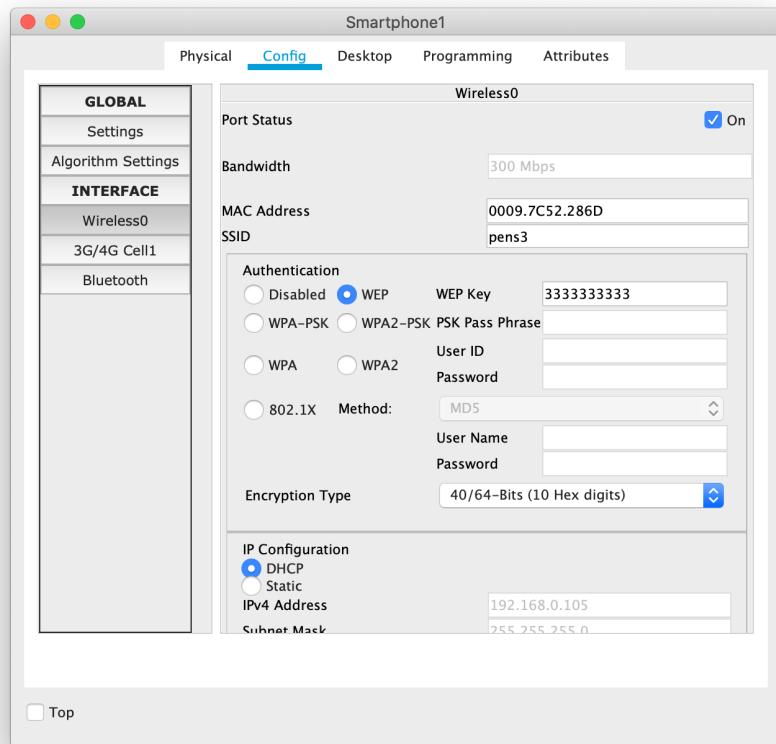
10. Connecting Tablet to Access Point0



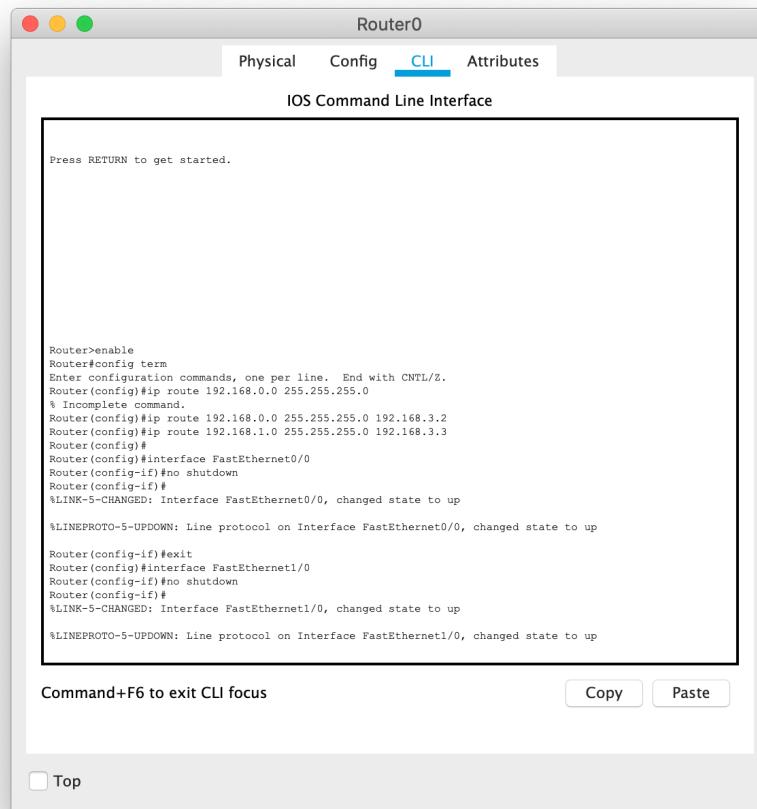
11. Setting Wireless di Wireless Router1



12. Connecting Smartphone1 to Wireless Router1



13. Setting Static Route di Router



14. Ping antar end device dalam satu network

- Untuk Network Router Wireless Router0
 - Laptop0 → Laptop1

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer FC Command Line 1.0
C:\>
ping 192.168.0.102

Pinging 192.168.0.102 with 32 bytes of data:
Reply from 192.168.0.102: bytes=32 time=52ms TTL=128
Reply from 192.168.0.102: bytes=32 time=50ms TTL=128
Reply from 192.168.0.102: bytes=32 time=27ms TTL=128
Reply from 192.168.0.102: bytes=32 time=30ms TTL=128

Ping statistics for 192.168.0.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 27ms, Maximum = 52ms, Average = 39ms

C:\>
```

Top

- Laptop0 → Printer0

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer FC Command Line 1.0
C:\>
ping 192.168.0.102

Pinging 192.168.0.102 with 32 bytes of data:
Reply from 192.168.0.102: bytes=32 time=52ms TTL=128
Reply from 192.168.0.102: bytes=32 time=50ms TTL=128
Reply from 192.168.0.102: bytes=32 time=27ms TTL=128
Reply from 192.168.0.102: bytes=32 time=30ms TTL=128

Ping statistics for 192.168.0.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 27ms, Maximum = 52ms, Average = 39ms

C:\>ping 192.168.0.103

Pinging 192.168.0.103 with 32 bytes of data:
Reply from 192.168.0.103: bytes=32 time=79ms TTL=128
Reply from 192.168.0.103: bytes=32 time=41ms TTL=128
Reply from 192.168.0.103: bytes=32 time=54ms TTL=128
Reply from 192.168.0.103: bytes=32 time=29ms TTL=128

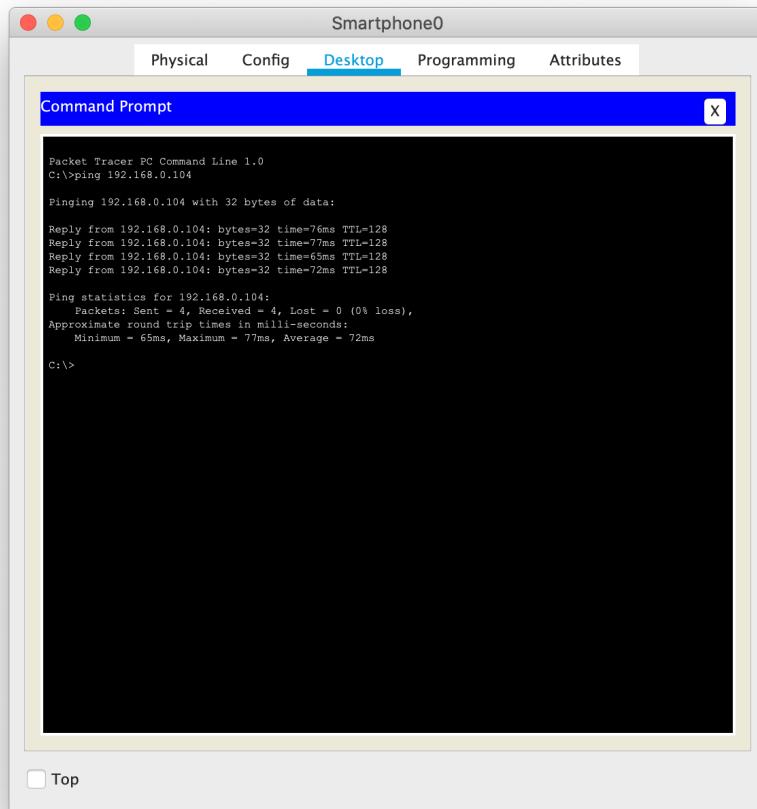
Ping statistics for 192.168.0.103:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 79ms, Average = 50ms

C:\>
```

Top

b. Untuk Network Access Point

- Smartphone0 → Tablet0



15. Ping antar end device yang beda network

a. Ping dari Access Router ke Wireless Router

- Smartphone0 → Smartphone1

Smartphone0

Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer PC Command Line 1.0
C:\ping 192.168.0.104

Pinging 192.168.0.104 with 32 bytes of data:
Reply from 192.168.0.104: bytes=32 time=76ms TTL=128
Reply from 192.168.0.104: bytes=32 time=77ms TTL=128
Reply from 192.168.0.104: bytes=32 time=65ms TTL=128
Reply from 192.168.0.104: bytes=32 time=72ms TTL=128

Ping statistics for 192.168.0.104:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 65ms, Maximum = 77ms, Average = 72ms

C:\>ping 192.168.0.105

Pinging 192.168.0.105 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.105:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Top

- Tablet0 → Laptop0

Tablet PC0

Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer PC Command Line 1.0
C:\ping 192.168.0.101

Pinging 192.168.0.101 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.101:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Top

- a. Ping dari Laptop0 ke Wireless Router
- b. Ping dari Wireless Router ke Access point

- Laptop0 → Tablet0

```

Packet Tracer FC Command Line 1.0
C:\>
ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:
Request timed out.
Request timed out.
Reply from 192.168.2.2: bytes=32 time=29ms TTL=126
Reply from 192.168.2.2: bytes=32 time=37ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 37ms, Average = 33ms
C:\>

```

Top

- Smartphone1 → Smartphone0

```

Packet Tracer FC Command Line 1.0
C:\>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.0.100

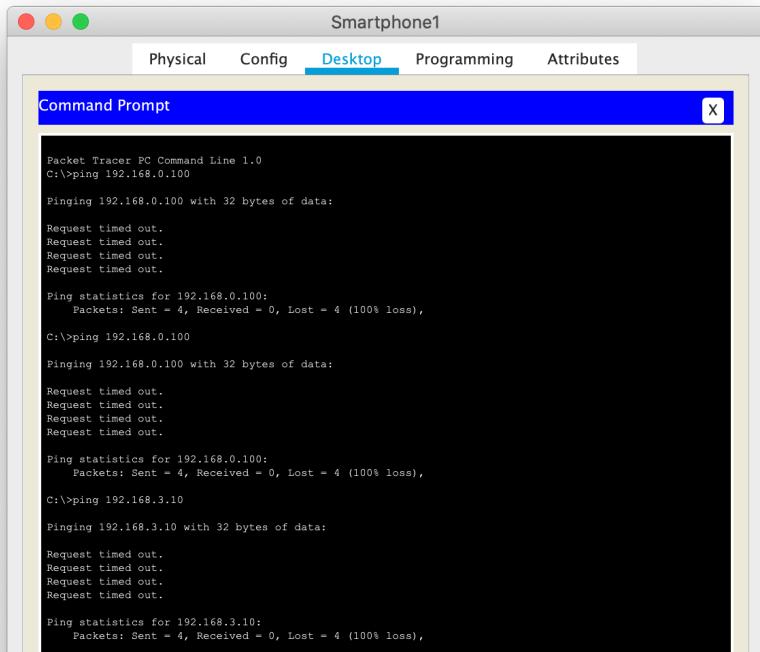
Pinging 192.168.0.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

```

c. Ping dari Wireless Router ke PC

- Smartphone1 → PC0



Smartphone1

Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.0.100

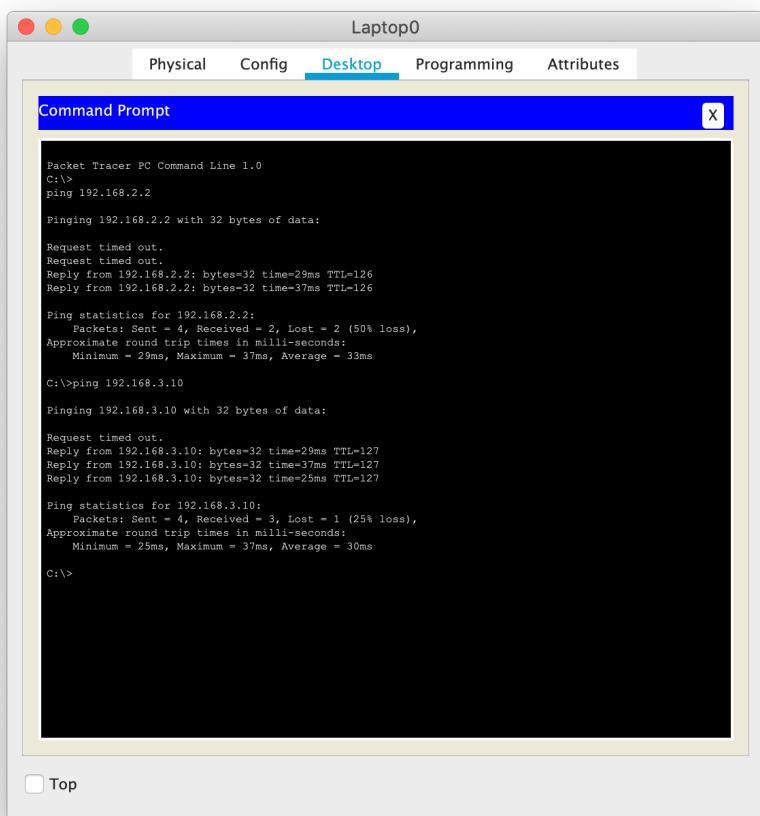
Pinging 192.168.0.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.3.10

Pinging 192.168.3.10 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.3.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

- Laptop0 → PC0



Laptop0

Physical Config Desktop Programming Attributes

Command Prompt X

```
Packet Tracer PC Command Line 1.0
C:\>
ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:
Request timed out.
Request timed out.
Reply from 192.168.2.2: bytes=32 time=29ms TTL=126
Reply from 192.168.2.2: bytes=32 time=37ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 37ms, Average = 33ms
C:\>ping 192.168.3.10

Pinging 192.168.3.10 with 32 bytes of data:
Request timed out.
Reply from 192.168.3.10: bytes=32 time=29ms TTL=127
Reply from 192.168.3.10: bytes=32 time=37ms TTL=127
Reply from 192.168.3.10: bytes=32 time=25ms TTL=127

Ping statistics for 192.168.3.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 37ms, Average = 30ms
C:\>
```

Top

d. Ping dari Wireless Router ke Wireless Router

- Laptop0 → Smartphone1

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt X

```

Packet Tracer PC Command Line 1.0
C:>
ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 192.168.2.2: bytes=32 time=29ms TTL=126
Reply from 192.168.2.2: bytes=32 time=37ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 37ms, Average = 33ms

C:\>ping 192.168.3.10

Pinging 192.168.3.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.10: bytes=32 time=29ms TTL=127
Reply from 192.168.3.10: bytes=32 time=37ms TTL=127
Reply from 192.168.3.10: bytes=32 time=25ms TTL=127

Ping statistics for 192.168.3.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 37ms, Average = 30ms

C:\>ping 192.168.0.101

Pinging 192.168.0.101 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.101:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Top

- Smartphone1 → Laptop0

Smartphone1

Physical Config Desktop Programming Attributes

Command Prompt X

```

Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.3.10

Pinging 192.168.3.10 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.3.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.0.102

Pinging 192.168.0.102 with 32 bytes of data:

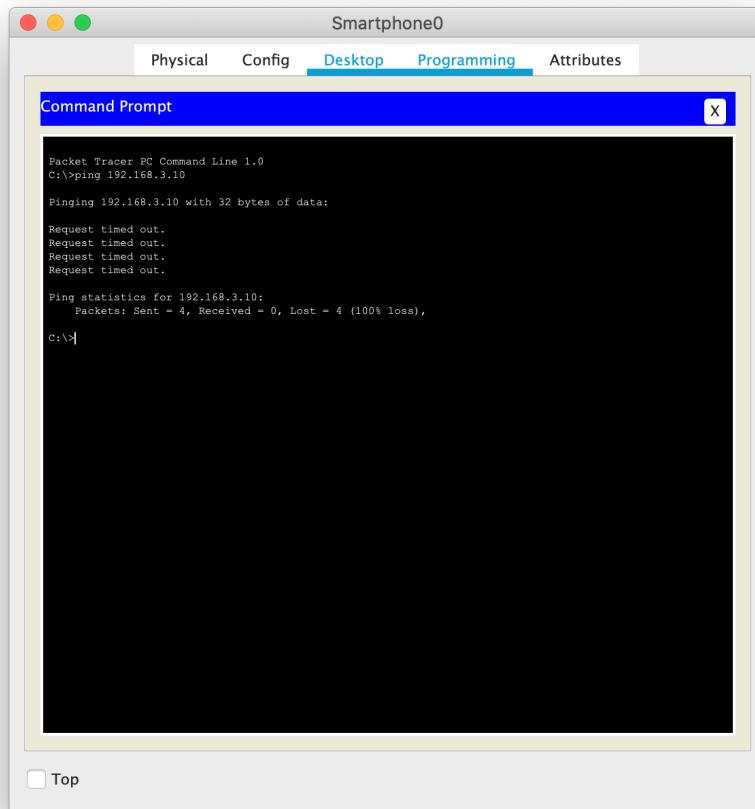
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.102:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Top

- Ping dari Access Point ke PC

- Smartphone0 → PC0



- PC0 → Table0

