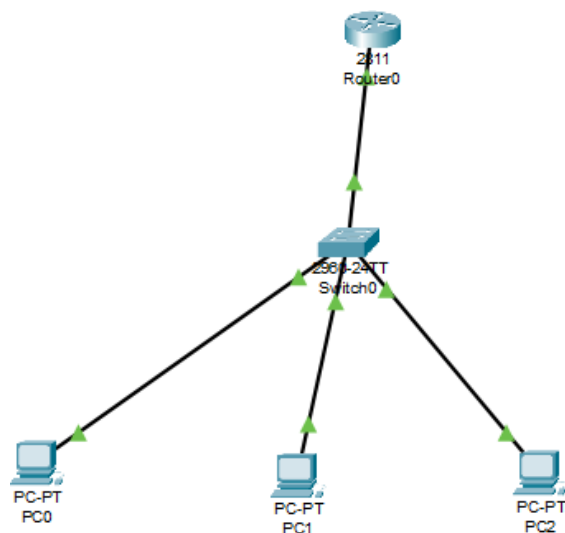


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MK : PRATIKUM JARIANGAN KOMPUTER

A. Laporan Pratikum



Gambar 6.1 Topologi jaringan

Melihat Daftar IP dari Client

ROUTER_DHCP#sh ip dhcp binding

```
192.168.1.21      0060.2FE2.19B0      --      Automatic
ROUTER_09010282327024_DHCP#sh ip dhcp binding
IP address      Client-ID/      Lease expiration      Type
Hardware address
192.168.1.21      0060.2FE2.19B0      --      Automatic
192.168.1.22      0001.6342.E60D      --      Automatic
192.168.1.23      00D0.FF44.C34C      --      Automatic
ROUTER_09010282327024_DHCP#
```

No	IP address	MAC Address	Lease Expiration	Type
1	192.168.1.21	0060.70D2.2941	--	Automatic
2	192.168.1.22	00D0.FF0A.51D6	--	Automatic
3	192.168.1.23	00E0.A3D3.D492	--	Automatic

1. Setelah itu lakukan pengalamatan ip pada Client/PC

No	Client	IP address	Netmask	Gateway	Dns
1	PC0	192.168.1.21	255.255.255.0	192.168.1.1	192.168.1.1
2	PC1	192.168.1.22	255.255.255.0	192.168.1.1	192.168.1.1
3	PC2	192.168.1.23	255.255.255.0	192.168.1.1	192.168.1.1

2. Lakukan pengujian PING pada setiap PC

Daftar IP Client

No	Sumber	Hasil	Tujuan	Hasil
		Ya / Tidak		Ya / Tidak
1	PC0	YA	PC1	YA
		YA	PC2	YA
2	PC1	YA	PC0	YA
		YA	PC2	YA
3	PC2	YA	PC0	YA
		YA	PC1	YA

```
Command Prompt

Pinging 192.168.1.21 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.21:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\PF4BK>192.168.1.22
'192.168.1.22' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\PF4BK>ping 192.168.1.22

Pinging 192.168.1.22 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.22:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

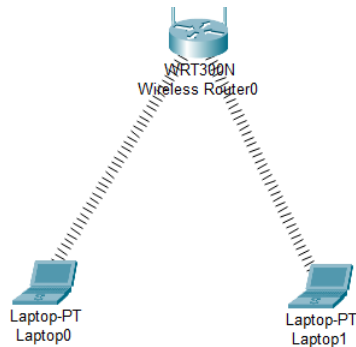
C:\Users\PF4BK>ping 192.168.1.23

Pinging 192.168.1.23 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.23:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

78°F Mostly cloudy 9:26 AM 9/25/2024

B. TUGAS PRATIUM



1. Konfigurasi Access Point

Wireless Router0

Physical Config **GUI** Attributes

Setup Wireless Security Access Restrictions Applications & Gaming Administration

Internet Setup

Internet Connection type: Automatic Configuration - DHCP

Optional Settings (required by some internet service providers):

Host Name:

Domain Name:

MTU: Size: 1500

Network Setup

Router IP

IP Address: . . .

Subnet Mask: . . .

DHCP Server Settings

DHCP Server: ☒ Enabled ☐ Disabled

Start IP Address: . . .

Maximum number of Users:

IP Address Range: . . . - . . .

Client Lease Time: minutes (0 means one day)

Static DNS 1: . . .

Static DNS 2: . . .

Static DNS 3: . . .

WINS: . . .

Help...

2. Menu Wireless -> Basic Wireless Settings

Wireless Router0

Wireless Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Basic Wireless Settings

Network Mode:

Network Name (SSID):

Radio Band:

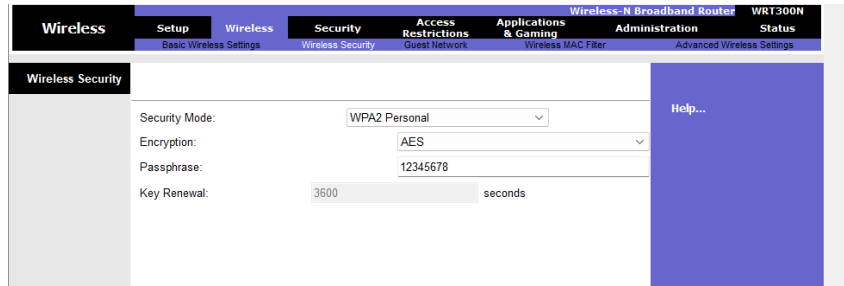
Wide Channel:

Standard Channel:

SSID Broadcast: ☒ Enabled ☐ Disabled

Help...

3. Menu Wireless -> Wireless Security



4. Memasukan Konfigurasi Client

Konfigurasi Laptop 0 dan Laptop 1

- Konfigurasi Laptop 0 pada tab Config
- SSID = LabJarkom
- Authentication = WPA2-PSK
- Pass Phrase = 12345678
- Pada IP Configuration memakai DHCP

No	Client	IP address	Netmask	Gateway
1	Laptop 0	192.168.0.102	255.255.255.0	192.168.0.1
2	Laptop 1	192.168.0.100	255.255.255.0	192.168.0.1

5. Pengujian PING

Di Laptop-PT, pilih tab/menu Desktop -> Command Prompt

- Jalankan perintah Ping ke IP Access Point 192.168.0.1
- Ping IP Laptop 0 Ke Laptop 1
- Lakukan juga pada Laptop 1 ke Laptop 0

The image shows a 'Laptop0' window with the 'Desktop' tab selected. A 'Command Prompt' window is open, displaying the output of two ping commands. The first command is 'ping 192.168.0.1', which shows successful replies from 192.168.0.1 with varying times (45ms, 3ms, 26ms, 24ms) and a TTL of 255. The statistics show 4 packets sent, 4 received, and 0% loss. The second command is 'ping 192.160.0.101', which shows 'Destination host unreachable' for all four replies. The statistics show 4 packets sent, 0 received, and 100% loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=45ms TTL=255
Reply from 192.168.0.1: bytes=32 time=3ms TTL=255
Reply from 192.168.0.1: bytes=32 time=26ms TTL=255
Reply from 192.168.0.1: bytes=32 time=24ms TTL=255

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 45ms, Average = 24ms

C:\>ping 192.160.0.101

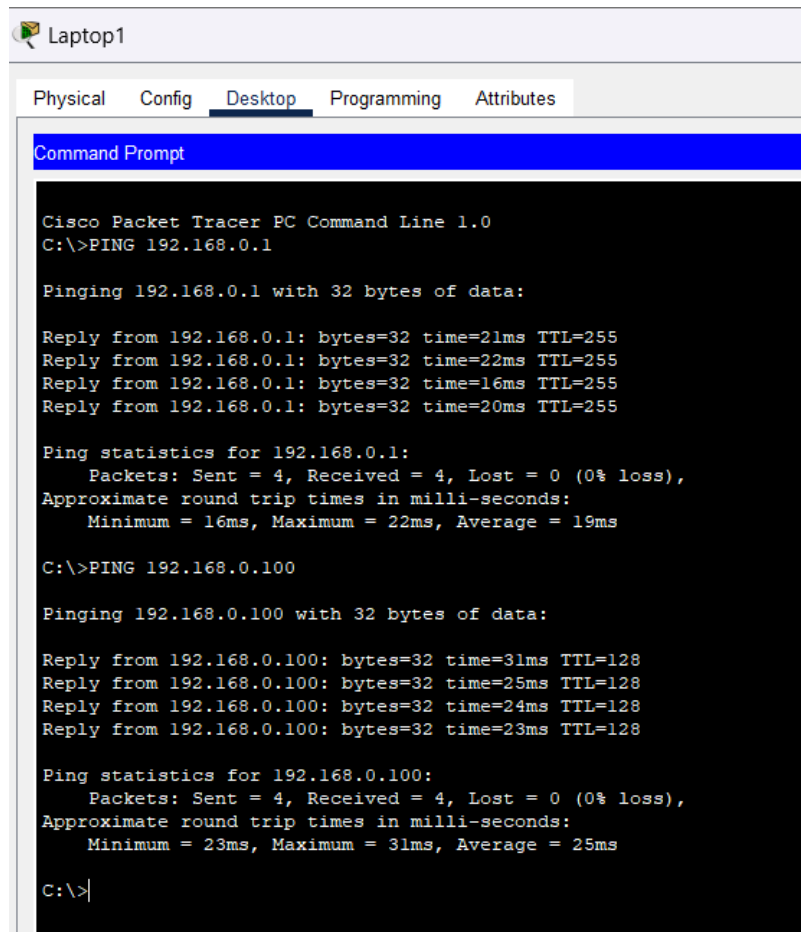
Pinging 192.160.0.101 with 32 bytes of data:

Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.

Ping statistics for 192.160.0.101:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Gambar Hasil pengujian PING pada Laptop 0



The screenshot shows the Cisco Packet Tracer interface for a device named 'Laptop1'. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The prompt shows two successful PING tests. The first test is to 192.168.0.1, showing four successful replies with times ranging from 16ms to 22ms and a TTL of 255. The second test is to 192.168.0.100, showing four successful replies with times ranging from 23ms to 31ms and a TTL of 128. Both tests show 0% packet loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>PING 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=21ms TTL=255
Reply from 192.168.0.1: bytes=32 time=22ms TTL=255
Reply from 192.168.0.1: bytes=32 time=16ms TTL=255
Reply from 192.168.0.1: bytes=32 time=20ms TTL=255

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 16ms, Maximum = 22ms, Average = 19ms

C:\>PING 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time=31ms TTL=128
Reply from 192.168.0.100: bytes=32 time=25ms TTL=128
Reply from 192.168.0.100: bytes=32 time=24ms TTL=128
Reply from 192.168.0.100: bytes=32 time=23ms TTL=128

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 23ms, Maximum = 31ms, Average = 25ms

C:\>|
```

Gambar Hasil pengujian PING pada Laptop 1