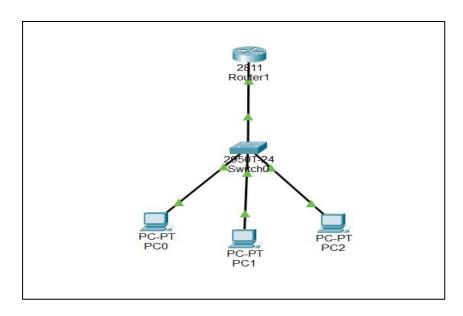
NAMA : AULIA ZAHRA EVRIYANTI

NIM : 09010182327009

KELAS : MI 3A

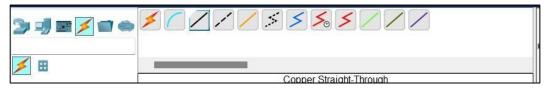
MK : PRAKTIKUM JARINGAN KOMPUTER

# A. PERCOBAAN



Gambar 6.1 Topologi jaringan DHCP

- 1. Buat Topologi Seperti Gambar diatas
- 2. Pasang Kabel Copper Straight dari PC ke Switch terhubung



Gambar 6.2 Tampilan pilihan kabel pada Cisco Packet Tracer

3. Setelah itu, kita menyalakan switch daya dan tunggu beberapa menit, router akan menyala.

Gambar 6.3 Tampilan booting pada Router

4. Setelah looding router selesai, kita lanjutkan konfigurasinya.

#### Memberi nama Router

Router>enable Router#configure terminal Router(config)#hostname ROUTER DHCP

#### Setting IP Address pada Router

```
ROUTER_DHCP(config)#int g0/0
ROUTER_DHCP(config-if)#ip add 192.168.1.1 255.255.255.0
ROUTER_DHCP(config-if)#no shutdown
ROUTER_DHCP(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
```

### Konfigurasi DHCP pada Router

ROUTER DHCP(config-if) #exit

```
ROUTER_DHCP(config) #ip dhcp pool LAB
ROUTER_DHCP(dhcp-config) #network 192.168.1.0 255.255.255.0
ROUTER_DHCP(dhcp-config) #default-router 192.168.1.1
ROUTER_DHCP(dhcp-config) #dns-server 192.168.1.1
ROUTER_DHCP(dhcp-config) #ip dhcp excluded-address 192.168.1.1
ROUTER_DHCP(dhcp-config) #ip dhcp excluded-address 192.168.1.2
192.168.1.20
ROUTER_DHCP(config) #
```

# 5. Setelah itu lakukan konfigurasi pada PC

# Konfigurasi DHCP Client

Setting DHCP client :

- 1. Klik 2x pada icon PC,
- 2. Pilih desktop,
- 3. Pilih IP Configuration,
- 4. Pilih DHCP,
- 5. Tunggu, lalu akan dapat IP DHCP

#### 6. Setelah itu Melihat daftar IP dari Client

### **Melihat Daftar IP dari Client**

ROUTER DHCP#sh ip dhcp binding

No	IP address	MAC Address	Lease Expiration	Туре
1	192.168.1.21	0001.971D.2D10		Automatic
2	192.168.1.22	000B.BEED.9C95	-	Automatic
3	192.168.1.23	0060.5C5C.DCEA		Automatic

# 7. Setelah itu lakukan pengalamatan ip pada Client/PC

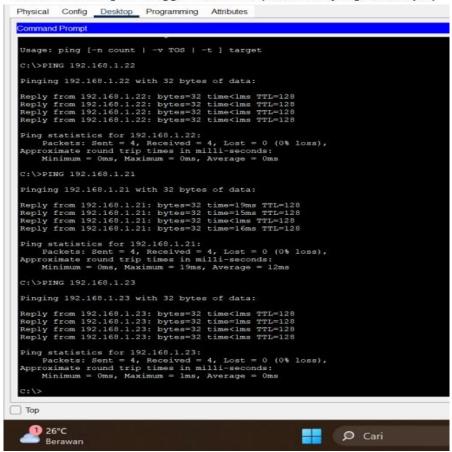
No	Client	IP address	Netmask	Gateway	Dns
1	PC0	192.168.1.21	255.255.255.0	192.168.1.1	192.168.1.1
2	PC1	192.168.1.22	255.255.255.0	192.168.1.1	192.168.1.1
3	PC2	192.168.1.23	255.255.255.0	192.168.1.1	192.168.1.1

# 8. Lakukan pengujian PING pada setiap PC

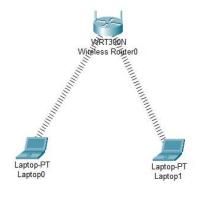
### **Daftar IP Client**

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

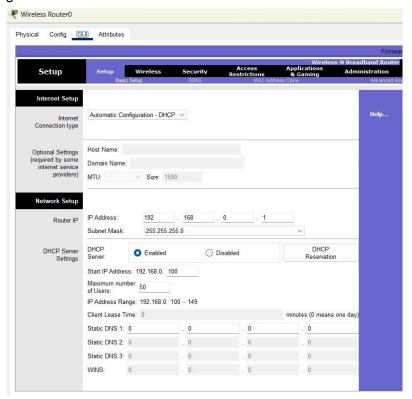
#### Tes Koneksi dengan menggunakan PING (catat hasil yang anda dapat)



#### **B. TUGAS PRATIKUM**



### 1. Konfigurasi Access Point



2. Menu Wireless -> Basic Wireless Settings



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

```
Physical Config Desktop Programming Attributes

Command Prompt

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=26ms 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.
```

```
Laptop1
 Physical
           Config Desktop Programming
                                               Attributes
  Command Prompt
  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

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

Ping statistics for 192.168.0.100:

C:\>