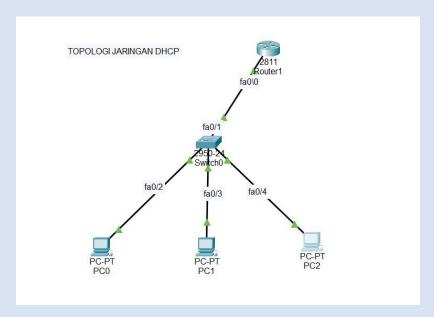
NAMA : MUHAMMAD TRI NUGROHO

NIM : 09010282327029

KELAS : MI3A



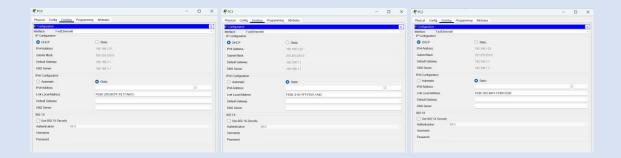
- 1. Buat Topologi Seperti Gambar diatas
- 2. Pasang Kabel Copper Straight dari PC ke Switch terhubung
- 3. Setelah itu, kita menyalakan switch daya dan tunggu beberapa menit, router akan menyala.

```
System Bootstrap, Version 12.1(3r)T2, RELEASE SOFTWARE (fc1)
Copyright (c) 2000 by cisco Systems, Inc.
cisco 2811 (MPC860) processor (revision 0x200) with 60416K/5120K bytes of memory
Readonly ROMMON initialized
program load complete, entry point: 0x8000f000, size: 0xc940
program load complete, entry point: 0x8000f000, size: 0xc940
program load complete, entry point: 0x8000f000, size: 0x3ed1338
Self decompressing the image:
```

4. Setelah looding router selesai, kita lanjutkan konfigurasinya.

```
ROUTER_DHCP>enable
ROUTER_DHCP#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
ROUTER_DHCP(config) #hostname 09010282327040_DHCP
09010282327040_DHCP(config)#in fa0/0
09010282327040_DHCP(config)#ip add 192.168.1.1 255.255.255.0
09010282327040_DHCP(config-if)#ip add 192.168.1.1 255.255.255.0
09010282327040_DHCP(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
09010282327040_DHCP(config-if)#exit
09010282327040_DHCP(config)#ip dhcp pool LAB
09010282327040_DHCP(config)#ip dhcp pool LAB
09010282327040_DHCP(dhcp-config)#default-router 192.168.1.1
09010282327040_DHCP(dhcp-config)#ip dhcp excluded-address 192.168.1.1
09010282327040_DHCP(config)#ip dhcp excluded-address 192.168.1.2
09010282327040_DHCP(config)#exit
09010282327040_DHCP(config)#exit
09010282327040_DHCP(config)#exit
09010282327040_DHCP[config]#exit
```

5. Setelah itu lakukan konfigurasi pada PC



6. Melihat daftar IP dari Client

IP address	Client-ID/	Lease expiration	Type
	Hardware address		
192.168.1.21	00D0.BC17.A6C5	3 =3=	Automatic
192.168.1.22	0010.1161.1A45		Automatic
192.168.1.23	0002.4AB0.3C6D	222	Automatic

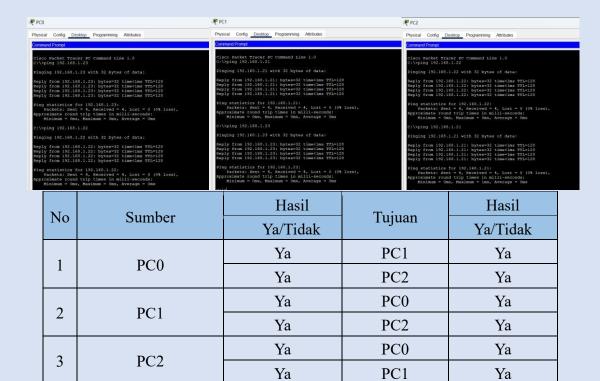
No	IP Address	MAC Address	Lease Expiration	Туре
1	192.168.1.21	00D0.BC17.A6C5	-	Automatic
2	192.168.1.22	0010.1161.1A45	-	Automatic
3	192.168.1.23	0002.4AB0.3C6D	-	Automatic

7. Melakukan pengalamatan ip pada Client/PC

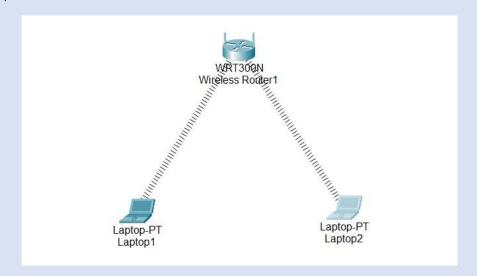


No	Client	IP Address	Netmask	Gateway	DNS
1	PC1	192.168.1.21	255.255.255.0	192.168.1.1	192.168.1.1
2	PC2	192.168.1.22	255.255.255.0	192.168.1.1	192.168.1.1
3	PC3	192.168.1.23	255.255.255.0	192.168.1.1	192.168.1.1

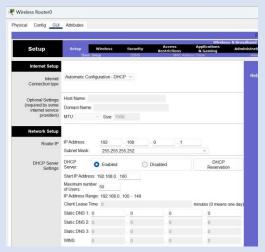
8. Melakukan pengujian PING pada setiap PC



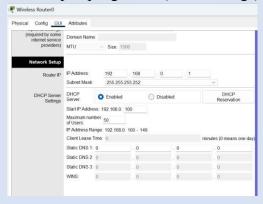
LATIHAN



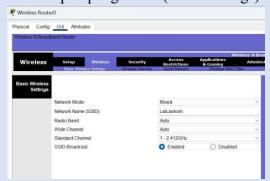
- 1. Buat Topologi Seperti Gambar diatas (note*: Gantilah device Laptop menjadi laptop pada topologi diatas dan harus terhubung secara wireless)
- 2. Konfigurasi Access Point
 - Untuk mengkonfigurasi access point, klik Wireless Router yang sudah dipasang.
 - Pilih tab/menu GUI
 - Masukkan IP Address dengan 192.168.0.1 Serta Subnet Mask dengan 255.255.255.0



- Aktifkan DHCP Server, menjadi Enabled
- Mulai IP Address, dan IP DHCP dimulai dari 192.168.0.100
- Maximum number of Users (jumlah maksimum dari IP DHCP)
- Lalu simpan pengaturan (Save Settings)



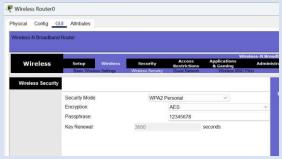
- Pilih tab/menu Wireless -> Basic Wireless Settings
- Buatlah nama SSID dengan LabJarkom
- Lalu simpan pengaturan (Save Settings)



Konfigurasi SSID pada Access Point

- Tekan tab/menu Wireless -> Wireless Security
- Lalu pada Security Mode akan menggunakan WPA2 Personal
- Dengan Encryption AES
- Serta Passphrase 12345678

• Lalu simpan pengaturan (Save Settings)

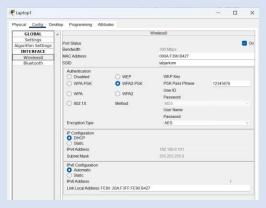


Konfigurasi Password pada Access Point

3. Konfigurasi Client

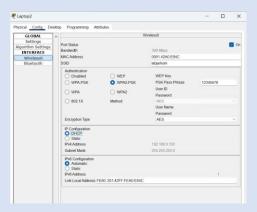
Konfigurasi Laptop1

- Konfigurasi Laptop pada tab Config
- SSID = LabJarkom
- Authentication = WPA2-PSK
- Pass Phrase = 12345678
- Pada IP Configuration memakai DHCP
- Nomor IP akan ditampilkan jika PC Laptop terhubung dan DCHP Server aktif



Konfigurasi Laptop2

- Konfigurasi Laptop pada tab Config
- SSID = LabJarkom
- Authentication = WPA2-PSK
- Pass Phrase = 12345678
- IP menggunakan DHCP
- Nomor IP akan ditampilkan jika PC Laptop terhubung dan DCHP Server aktif



4. Pengujian PING

- DiLaptop, pilih tab/menu Desktop -> Command Prompt
- Jalankan perintah Ping ke IP Access Point 192.168.0.1
- Ping IP Laptop1 Ke Laptop2

```
Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

c:\>
1
Invalid Command.

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=50ms TTL=128

Reply from 192.168.0.102: bytes=32 time=34ms TTL=128

Reply from 192.168.0.102: bytes=32 time=34ms TTL=128

Reply from 192.168.0.102: bytes=32 time=31ms 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 = 31ms, Maximum = 50ms, Average = 36ms

C:\>
```

• Lakukan juga pada Laptop2 Ke Laptop1

```
Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>

C:\>ping 192.168.0.101

Pinging 192.168.0.101 with 32 bytes of data:

Reply from 192.168.0.101: bytes=32 time=77ms TTL=128

Reply from 192.168.0.101: bytes=32 time=28ms TTL=128

Reply from 192.168.0.101: bytes=32 time=38ms TTL=128

Reply from 192.168.0.101: bytes=32 time=30ms TTL=128

Ping statistics for 192.168.0.101:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 28ms, Maximum = 77ms, Average = 40ms

C:\>
```