LAPORAN KONFIGURASI DHCP DAN WIRELESS

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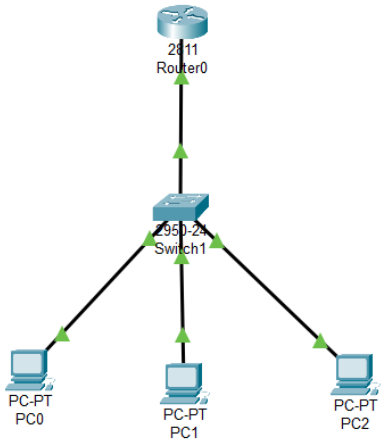
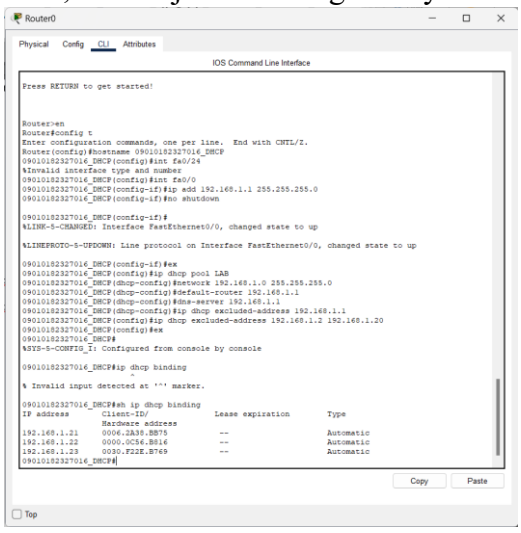
A. PERCOBAAN DHCP

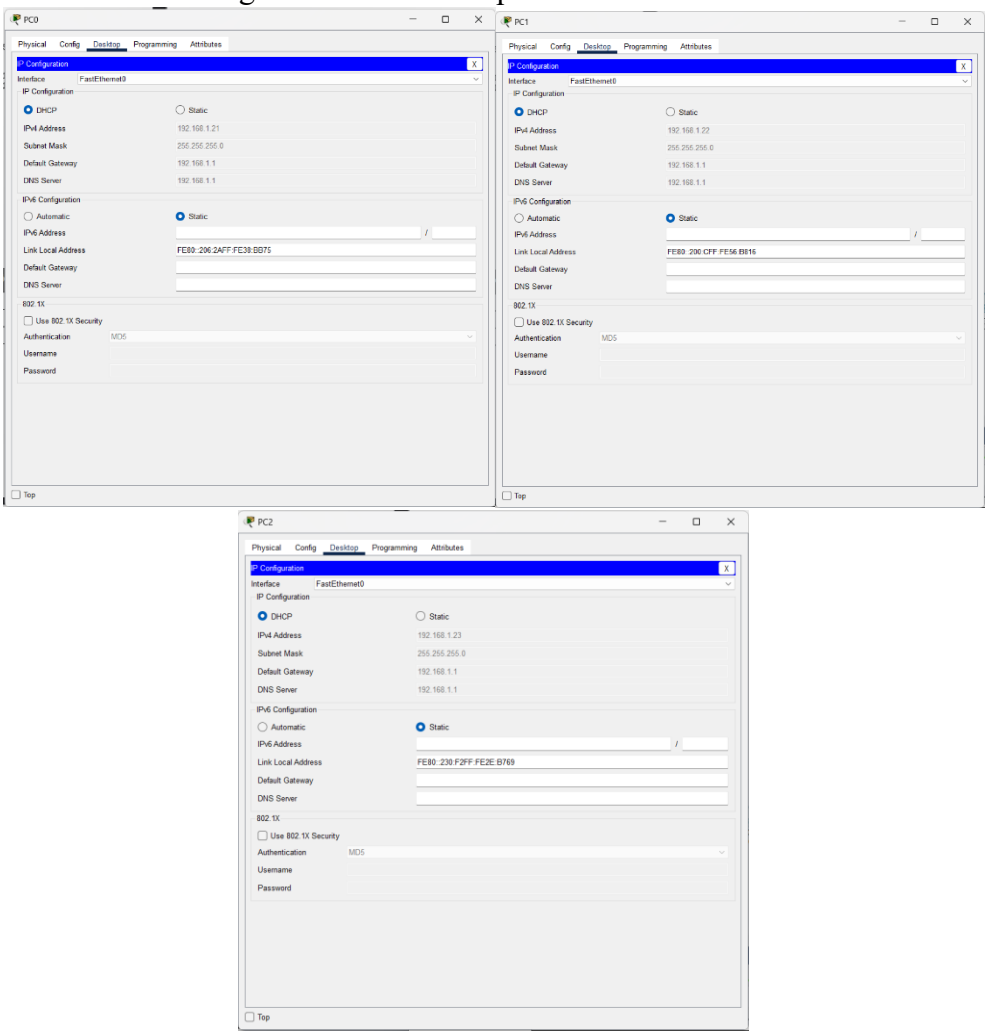
1. Buat Topologi.
2. Pasang Kabel Copper Straight dari PC ke Switch terhubung.



3. Setelah itu, kita menyalakan switch daya dan tunggu beberapa menit, router akan menyala.
4. Setelah looding router selesai, kita lanjutkan konfigurasinya.



5. Setelah itu lakukan konfigurasi DHCP client pada PC.



6. Setelah itu Melihat daftar IP dari Client

```
09010182327016_DHCP#sh ip dhcp binding
IP address       Client-ID/              Lease expiration        Type
                 Hardware address
192.168.1.21     0006.2A38.BB75           --                     Automatic
192.168.1.22     0000.0C56.B816           --                     Automatic
192.168.1.23     0030.F22E.B769           --                     Automatic
09010182327016_DHCP#
```

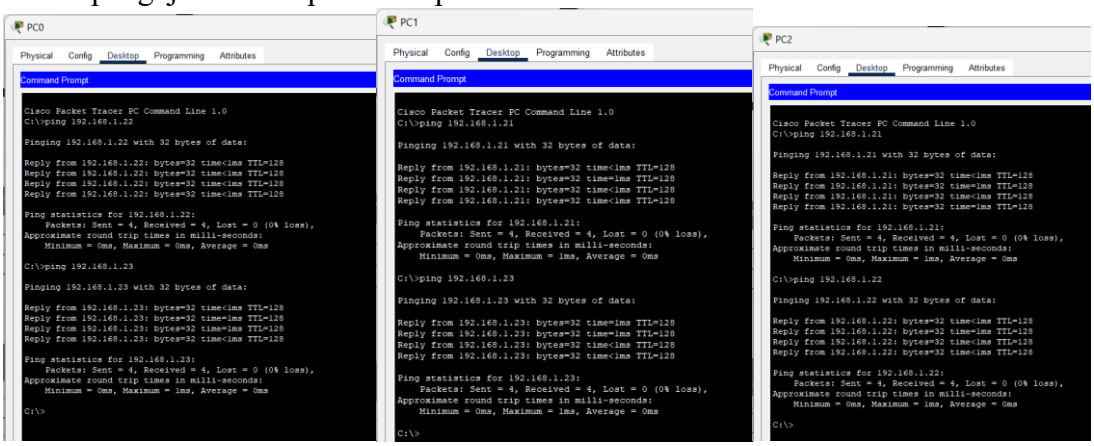
No	IP address	MAC Address	Lease Expiration	Type
1	192.168.1.21	0006.2A38.BB75	--	Automatic
2	192.168.1.22	0000.0C56.B816	--	Automatic
3	192.168.1.23	0030.F22E.B769	--	Automatic

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

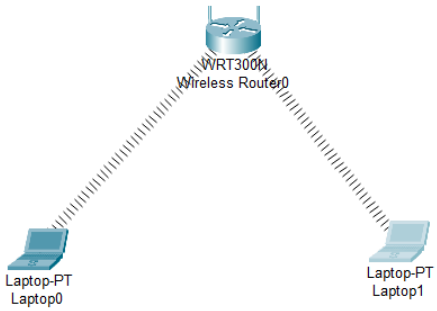
8. Lakukan pengujian PING pada setiap PC



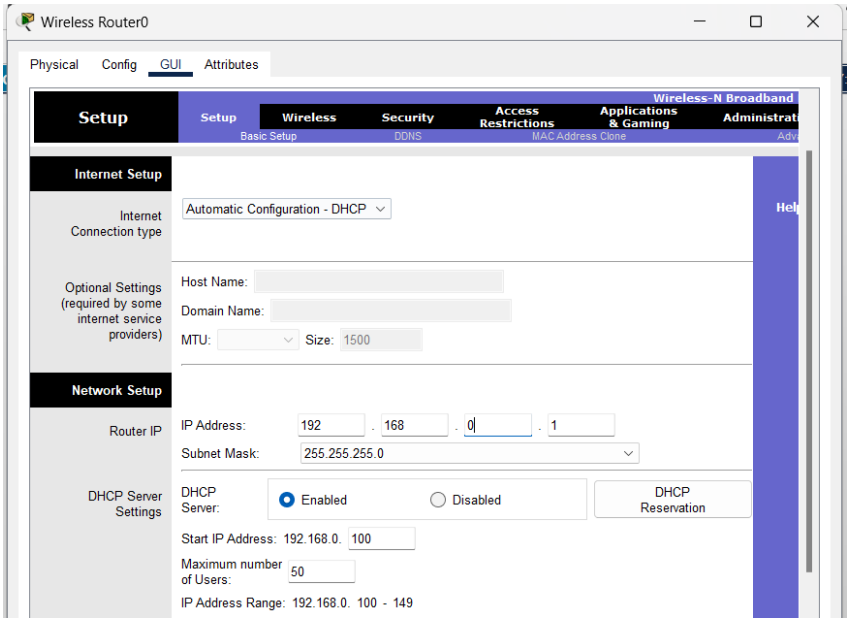
No	Sumber	Hasil Ya/Tidak	Tujuan	Hasil Ya/Tidak
1	PC0	Ya	PC1	Ya
		Ya	PC2	Ya
2	PC1	Ya	PC0	Ya
		Ya	PC2	Ya
3	PC2	Ya	PC0	Ya
		Ya	PC1	Ya

B. PERCOBAAN WIRELESS

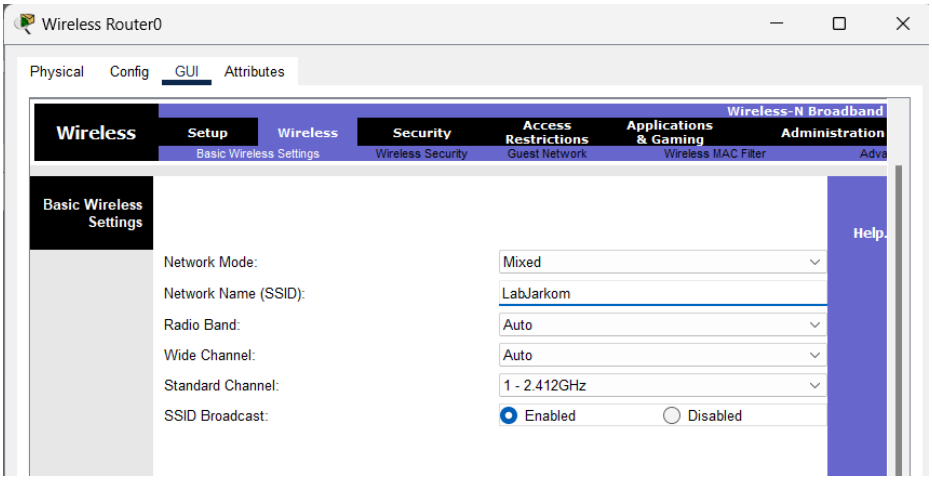
1. Buat Topologi Seperti Gambar diatas (note*: Gantilah device tablet menjadi laptop pada topologi diatas dan harus terhubung secara wireless)



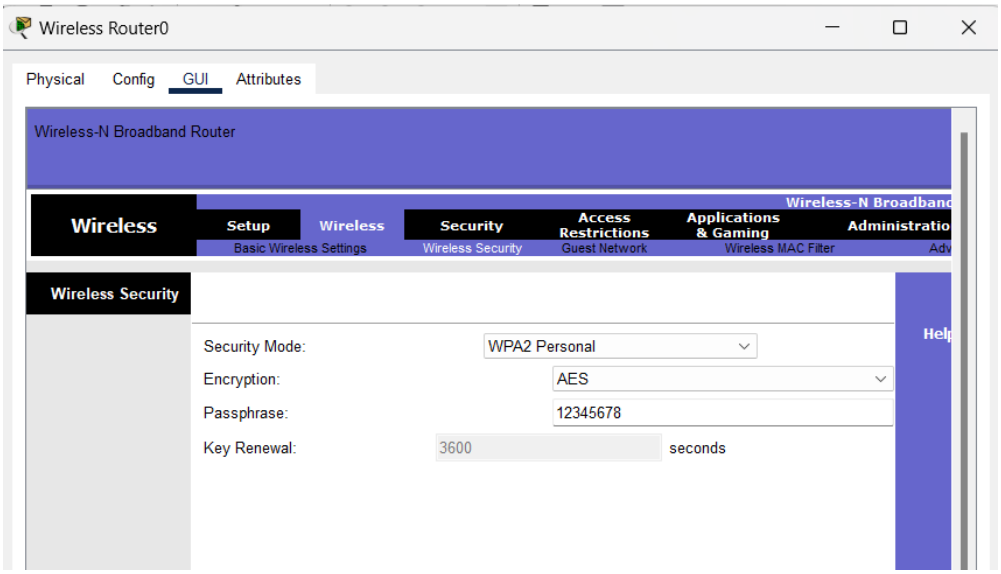
2. Konfigurasi Access Point
   - Klik **Wireless Router** pada topologi.
   - Buka tab **GUI**.
   - Masukkan **IP Address**: `192.168.0.1` dan **Subnet Mask**: `255.255.255.0`.
   - Aktifkan **DHCP Server** dengan mengaturnya ke **Enabled**.
   - Setel **Start IP Address** ke `192.168.0.100`.
   - Tentukan jumlah maksimum pengguna IP DHCP sesuai kebutuhan.
   - Simpan pengaturan dengan mengklik **Save Settings**.



- Buka tab **Wireless** -> **Basic Wireless Settings**.
- Setel **SSID** ke `LabJarkom`.
- Klik **Save Settings** untuk menyimpan.



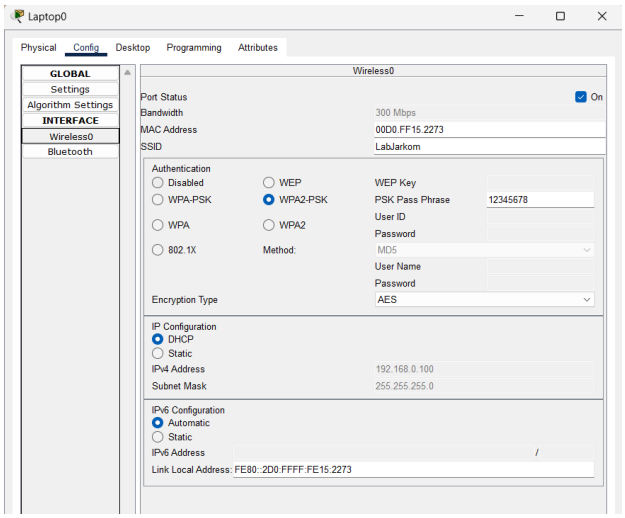
- Buka tab **Wireless** -> **Wireless Security**.
- Setel **Security Mode** ke **WPA2 Personal**.
- Pilih **Encryption**: **AES**.
- Masukkan **Passphrase**: `12345678`.
- Simpan pengaturan dengan mengklik **Save Settings**.



3. Konfigurasi Client

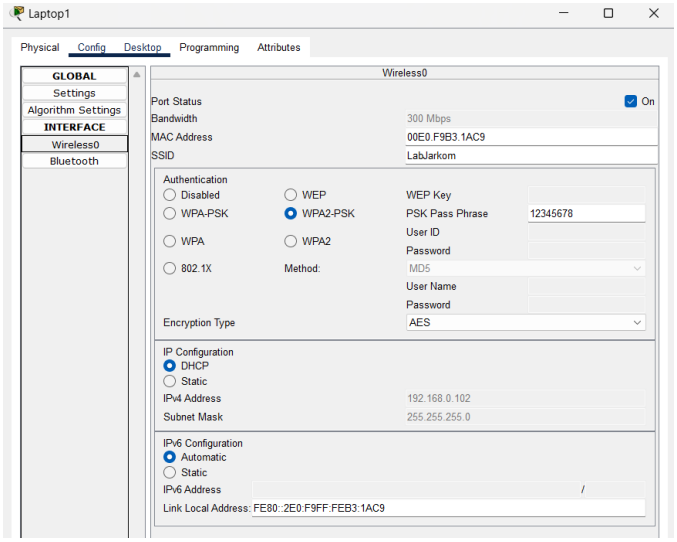
Konfigurasi Laptop0

1. Buka tab **Config** pada Laptop0.
2. Setel **SSID** ke `LabJarkom`.
3. Pilih **Authentication**: **WPA2-PSK**.
4. Masukkan **Pass Phrase**: `12345678`.
5. Pilih **IP Configuration**: DHCP (IP akan otomatis diberikan jika DHCP server aktif).



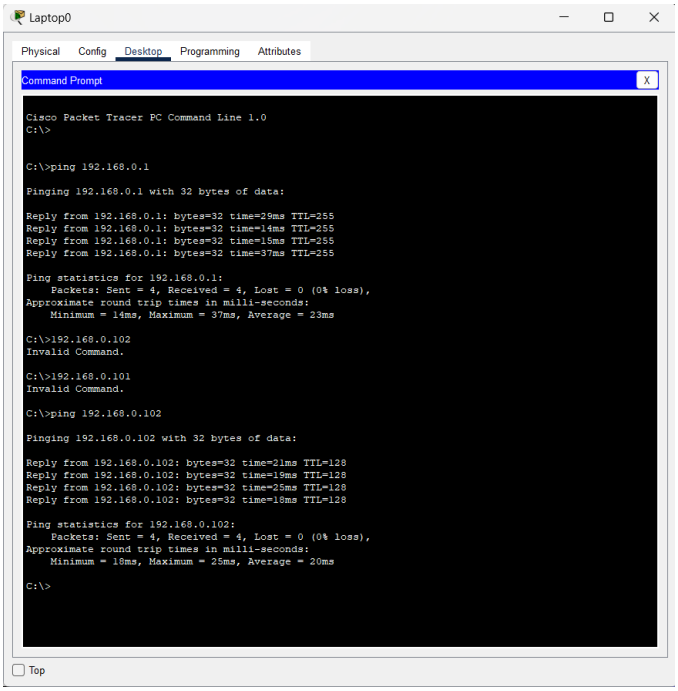
Konfigurasi Laptop1

1. Buka tab **Config** pada Laptop1.
2. Setel **SSID** ke `LabJarkom`.
3. Pilih **Authentication**: **WPA2-PSK**.
4. Masukkan **Pass Phrase**: `12345678`.
5. Pilih **IP Configuration**: DHCP (IP akan otomatis diberikan jika DHCP server aktif).



4. Pengujian PING

- Di PC Tablet, pilih tab/menu Desktop -> Command Prompt
- Jalankan perintah Ping ke IP Access Point 192.168.0.1
- Ping IP Laptop0 ke Laptop1



- Ping Laptop1 ke Laptop0