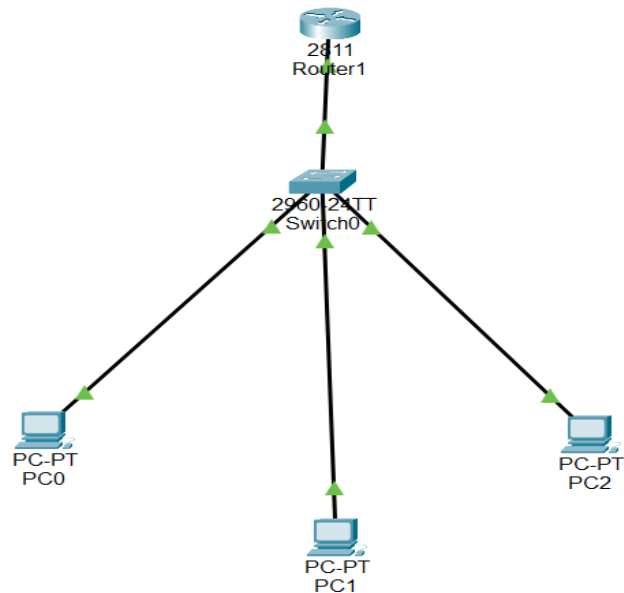


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## Laporan Praktikum Jarkom



### 1. Melihat daftar IP dari Client

No	Ip Address	MAC Address	Lease Expiration	type
1	192.168.1.21	0060.4738.6420	-	Automatic
2	192.168.1.23	0001.63C4.799C	-	Automatic
3	192.168.1.22	00E0.B01A.C084	-	Automatic

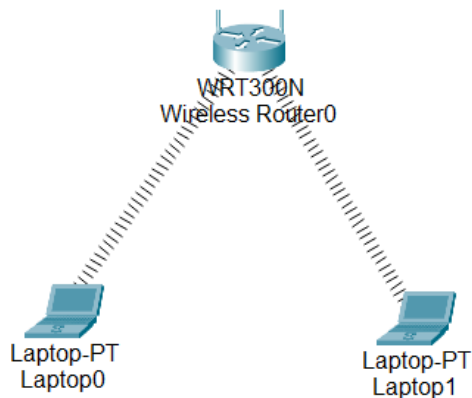
### 2. lakukan pengalamatan ip pada Client/PC

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

### 3. Pengujian PING

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

## Percobaan



1. Buat Topologi Seperti Gambar diatas (note\*: Gantilah device tablet 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)

Internet Setup	
Internet Connection type	Automatic Configuration - DHCP
Optional Settings (required by some internet service providers)	Host Name: <input type="text"/> Domain Name: <input type="text"/> MTU: <input type="text"/> Size: 1500
Network Setup	
Router IP	IP Address: <input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="0"/> . <input type="text" value="1"/> Subnet Mask: <input type="text" value="255.255.255.0"/>
DHCP Server Settings	DHCP Server: <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled <span style="float: right;">DHCP Reservation</span> Start IP Address: <input type="text" value="192.168.0.100"/> Maximum number of Users: <input type="text" value="50"/> IP Address Range: <input type="text" value="192.168.0.100"/> - <input type="text" value="149"/> Client Lease Time: <input type="text" value="0"/> minutes (0 means one day) Static DNS 1: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> Static DNS 2: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> Static DNS 3: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> WINS: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>

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

---

Network Mode:	Mixed
Network Name (SSID):	LabJarkom
Radio Band:	Auto
Wide Channel:	Auto
Standard Channel:	1 - 2.412GHz
SSID Broadcast:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

- 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)

---

Security Mode:	WPA2 Personal
Encryption:	AES
Passphrase:	12345678
Key Renewal:	3600 seconds

### 3. Konfigurasi Client Konfigurasi Tablet PC0

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

Wireless0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	300 Mbps
MAC Address	0090.2B60.00E2
SSID	LabJarkom
<div> <div> Authentication <input type="radio"/> Disabled <input type="radio"/> WEP <input type="radio"/> WPA-PSK <input checked="" type="radio"/> WPA2-PSK <input type="radio"/> WPA <input type="radio"/> 802.1X </div> <div> Method: <input type="radio"/> WPA2 </div> <div> WEP Key PSK Pass Phrase: 12345678 User ID Password Method: MD5 User Name Password </div> </div>	
Encryption Type	AES
<div> IP Configuration <input checked="" type="radio"/> DHCP <input type="radio"/> Static </div> <div> IPv4 Address: 192.168.0.102 Subnet Mask: 255.255.255.0 </div>	
<div> IPv6 Configuration <input checked="" type="radio"/> Automatic <input type="radio"/> Static </div> <div> IPv6 Address: / Link Local Address: FE80::290:2BFF:FE60:E2 </div>	

#### 4. Konfigurasi Tablet PC1

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

Wireless0

Port Status

☒ On

Bandwidth

300 Mbps

MAC Address

0007.EC02.2863

SSID

LabJarkom

Authentication

☐ Disabled
☐ WEP

☐ WPA-PSK
☒ WPA2-PSK

☐ WPA
☐ WPA2

☐ 802.1X

Method:

WEP Key

PSK Pass Phrase

User ID

Password

MD5

User Name

Password

12345678

Encryption Type

AES

IP Configuration

☒ DHCP
☐ Static

IPv4 Address

192.168.0.103

Subnet Mask

255.255.255.0

IPv6 Configuration

☒ Automatic
☐ Static

IPv6 Address

Link Local Address:

FE80::207:ECFF:FE02:2863

## 5. Pengujian PING

- Di PC Tablet, pilih tab/menu Desktop -> Command Prompt
- Jalankan perintah Ping ke IP Access Point 192.168.0.1
- Ping IP PC TabletPC0 Ke PC TabletPC1
- Lakukan juga pada PC TabletPC1 ke PC TabletPC0

