NAMA: RIZKY HANIFUDIN

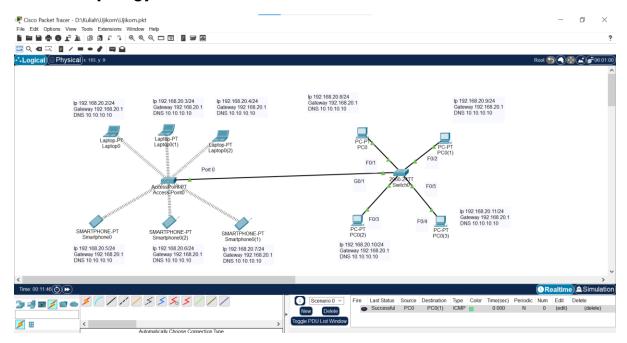
NIM: 201011400105

#### UJIKOM NETWORK ADMINISTRATOR

## **LAPORAN UJIKOM TUGAS 1**

Step by step Instalation Network

## 1. Creat Topology Network



Berikut topology untuk network yang akan kita bangun. Pada topology ini kita menggunakan beberapa device diantaranya:

- Swithch Manage: 1 Unit

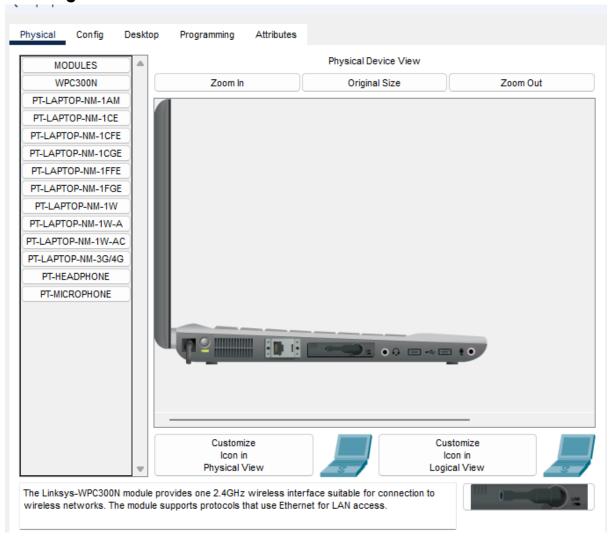
- PC/Komputer: 4 Unit

- Smarthphone: 3 Unit

- Laptop: 3 Unit

- Accesspoint: 1 Unit

# 2. Configuration Device



## - Configuration Laptop Device

Langkah setup pertama yang perlu di perhatikan di laptop yaitu:

- Matikan Power Laptop
- Kemudian Ganti Konektor LAN dengan Konektor Wireless
- Koneksikan ke Wireless/Accesspoint yang tersedia dengan

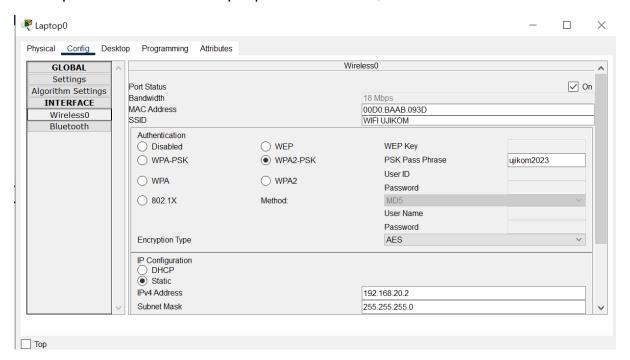
SSID: WIFI UJIKOM

Pass: ujikom2023

- Setup IP Address Pada Laptop0 : 192.168.20.2/24

- Setup IP Address Pada Laptop0: 192.168.20.3/24

- Setup IP Address Pada Laptop0: 192.168.20.4/24



# - Configuration PC/Komputer Device

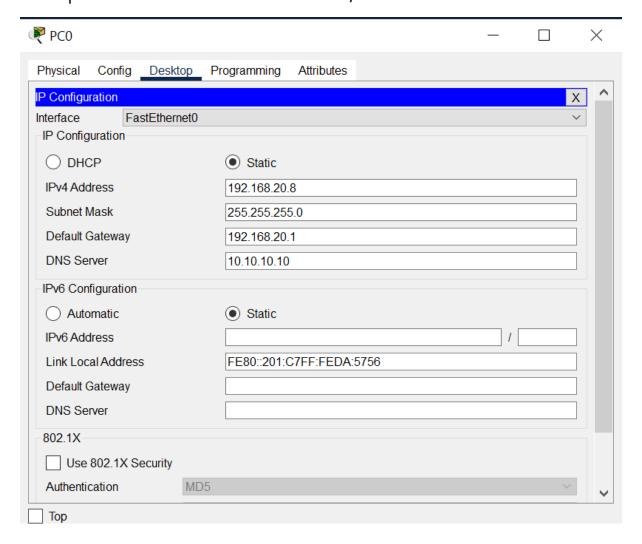
Langkah setup pertama yang perlu di lakukan di Komputer yaitu:

- Setup IP address Pada PC0: 192.168.20.8/24

- Setup IP address Pada PC1: 192.168.20.9/24

- Setup IP address Pada PC2: 192.168.20.10/24

- Setup IP address Pada PC3: 192.168.20.11/24



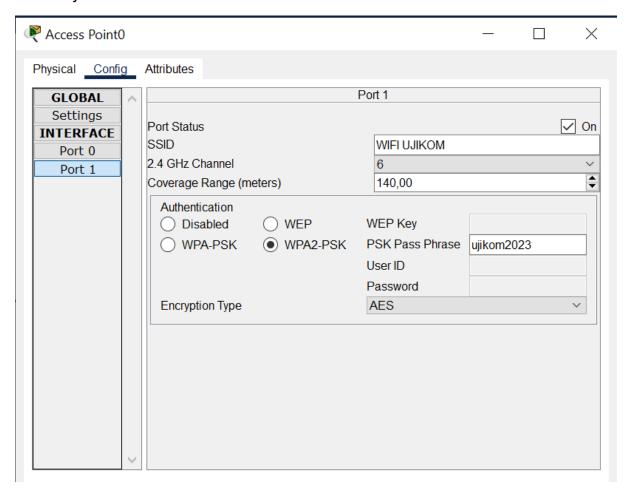
# - Configuration Accesspoint device

Langkah setup pertama yang perlu di perhatikan di Accesspoint yaitu:

- Setup

SSID: WIFI UJIKOM

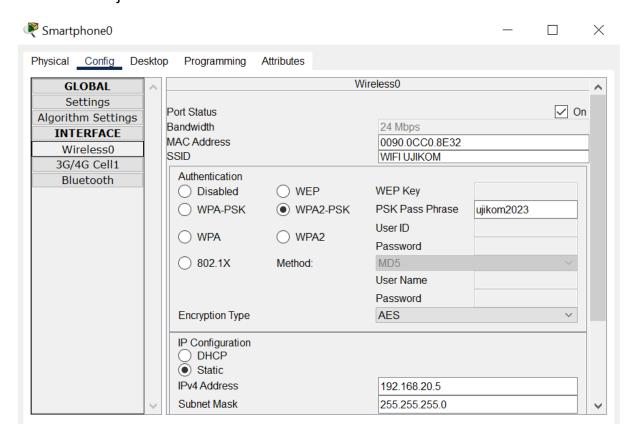
Pass: ujikom2023



### - Configuration Smarthphone device

Langkah setup pertama yang di perhatikan di Smarthpone yaitu:

- Koneksikan ke wireless atau SSID yang sudah di setup SSID : WIFI UJIKOM, Password : ujikom2023

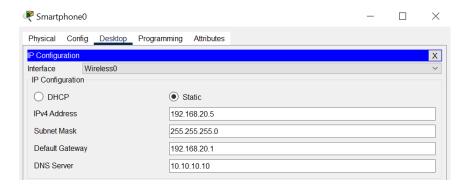


- Setup IP Address Static pada ke 3 handphone tersebut

IP Address HP0: 192.168.20.5/24

IP Address HP1: 192.168.20.6/24

IP Address HP2: 192.168.20.7/24



### - Configuration Switch device

- Add Mac Filtering pada setiap interface sesuai dengan mac terhubung

```
Switch>
Switch>enable
Switch#
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface FastEthernet0/1
Switch(config-if) #switchport mode access
Switch (config-if) #switchport port-security
Switch(config-if) #switchport port-security mac-address sticky
Switch(config-if)#switchport port-security mac-address 0001.C7DA.5756
Found duplicate mac-address 0001.c7da.5756.
Switch (config-if) #
Switch (config-if) #exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch (config-if) #exit
Switch(config)#interface FastEthernet0/2
Switch(config-if) #switchport mode access
Switch(config-if)#switchport port-security
Switch(config-if) #switchport port-security mac-address sticky
Switch(config-if) #switchport port-security mac-address 000D.BD73.A741
Found duplicate mac-address 000d.bd73.a741.
Switch(config-if)#
Switch (config-if) #exit
Switch(config)#interface FastEthernet0/2
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if) #switchport mode access
Switch(config-if) #switchport port-security
Switch(config-if) #switchport port-security mac-address sticky
Switch (config-if) #switchport port-security mac-address 00D0.587D.6B80
Found duplicate mac-address 00d0.587d.6b80.
Switch(config-if)#
```

#### Hasil:

Switch#show mac-address-table  Mac Address Table				
Vlan	Mac Address	Туре	Ports	
1	0001.c7da.5756	STATIC	Fa0/1	
1	000d.bd73.a741	STATIC	Fa0/2	
1	00d0.587d.6b80	STATIC	Fa0/3	
Switch#				

### 3. Testing Hasil Configuration

- Test Ping dari PC0

PC0 ke PC1

Result:

```
C:\>ping 192.168.20.9

Pinging 192.168.20.9 with 32 bytes of data:

Reply from 192.168.20.9: bytes=32 time<1ms TTL=128
```

PC0 ke Smarthphone0

Result:

```
C:\>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

Reply from 192.168.20.2: bytes=32 time=6ms TTL=128
Reply from 192.168.20.2: bytes=32 time=8ms TTL=128
Reply from 192.168.20.2: bytes=32 time=5ms TTL=128
Reply from 192.168.20.2: bytes=32 time=6ms TTL=128
Reply from 192.168.20.2: bytes=32 time=6ms TTL=128
```

PC0 ke Laptop0

Result:

```
C:\>ping 192.168.20.5

Pinging 192.168.20.5 with 32 bytes of data:

Reply from 192.168.20.5: bytes=32 time=2ms TTL=128
Reply from 192.168.20.5: bytes=32 time=23ms TTL=128
Reply from 192.168.20.5: bytes=32 time=38ms TTL=128
Reply from 192.168.20.5: bytes=32 time=30ms TTL=128
```

#### **RESULT FINISH**

