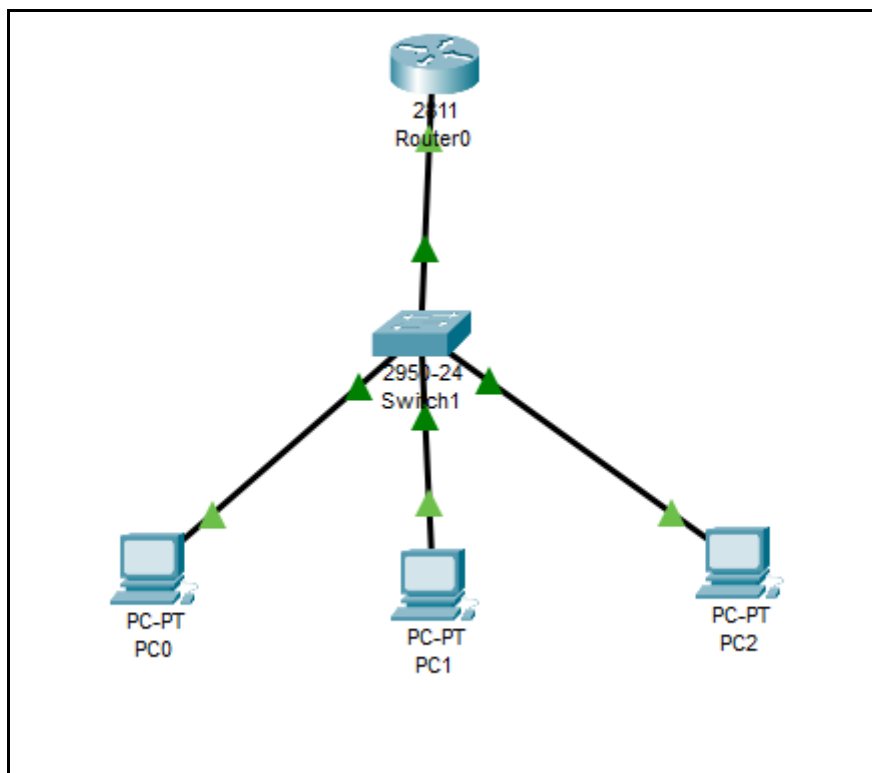


Nama : Muh. Zuhri Mubarak
Nim : 09010282327034
Kelas : MI 3A
MK : Praktikum Jaringan Komputer

DHCP



```
09010282327034_DHCP#sh ip dhcp binding
IP address      Client-ID/      Lease expiration    Type
                Hardware address
192.168.1.21    0001.43ED.0A56   --                  Automatic
192.168.1.22    0007.EC23.7E39   --                  Automatic
192.168.1.23    0060.3E3B.EA8A   --                  Automatic
09010282327034_DHCP#
```

No	IP Address	MAC Address	Lease Expiration	Type
1	192.168.1.21	0001.43ED.0A56	- -	Automatic
2	192.168.1.22	0007.EC23.7E39	- -	Automatic
3	192.168.1.23	0060.3E3B.EA8A	- -	Automatic

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.1.21

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.1.22

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.1.23

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

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

PC 0

```
C:\>ping 192.168.1.22

Pinging 192.168.1.22 with 32 bytes of data:

Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.23

Pinging 192.168.1.23 with 32 bytes of data:

Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

PC 1

```
C:\>ping 192.168.1.21

Pinging 192.168.1.21 with 32 bytes of data:

Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.23

Pinging 192.168.1.23 with 32 bytes of data:

Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC 2

```
C:\>ping 192.168.1.21

Pinging 192.168.1.21 with 32 bytes of data:

Reply from 192.168.1.21: bytes=32 time<lms TTL=128
Reply from 192.168.1.21: bytes=32 time<lms TTL=128
Reply from 192.168.1.21: bytes=32 time<lms TTL=128
Reply from 192.168.1.21: bytes=32 time<lms TTL=128

Ping statistics for 192.168.1.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.22

Pinging 192.168.1.22 with 32 bytes of data:

Reply from 192.168.1.22: bytes=32 time<lms TTL=128
Reply from 192.168.1.22: bytes=32 time<lms TTL=128
Reply from 192.168.1.22: bytes=32 time<lms TTL=128
Reply from 192.168.1.22: bytes=32 time<lms TTL=128

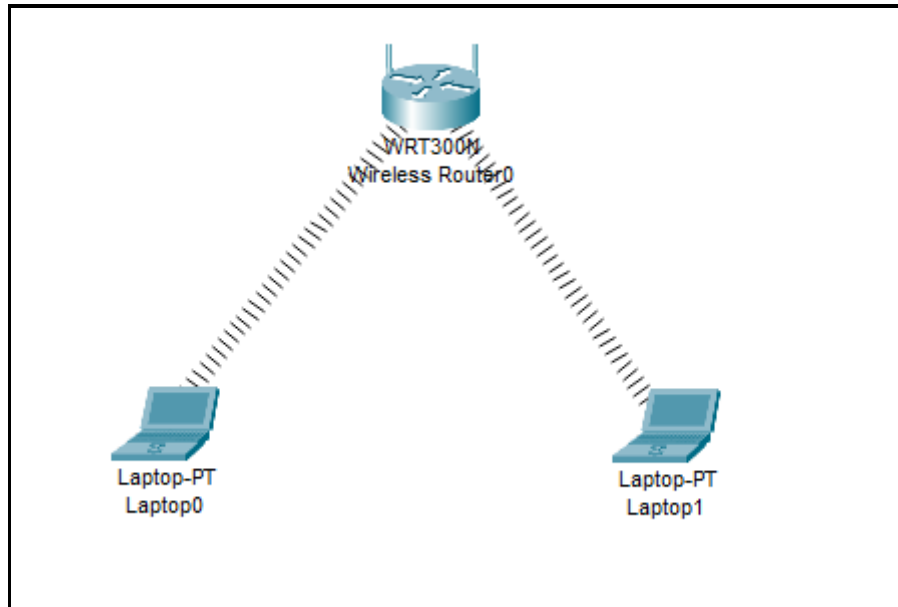
Ping statistics for 192.168.1.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

No	Sumber	Hasil	Tujuan	Hasil
		Ya / Tidak		Ya / Tidak
1	PC 0	Ya	PC 1	Ya
		Ya	PC 2	Ya
2	PC 1	Ya	PC 0	Ya
		Ya	PC 2	Ya
3	PC 2	Ya	PC 0	Ya
		Ya	PC 1	Ya

Wireless

1. Buat Topologi



2. Konfigurasi Access Point

Physical Config **GUI** Attributes

Setup Setup Wireless Security Access Restrictions Applications & Gaming Administration Status
Basic Setup DDNS MAC Address Clone Advanced Routing

Internet Setup

Internet Connection type: Automatic Configuration - DHCP

Optional Settings (required by some internet service providers):

Host Name:

Domain Name:

MTU: Size: 1500

Network Setup

Router IP

IP Address: 192 168 0 1

Subnet Mask: 255.255.255.0

DHCP Server Settings

DHCP Server: ☒ Enabled ☐ Disabled

Start IP Address: 192.168.0. 100

Maximum number of Users: 50

IP Address Range: 192.168.0. 100 - 149

Client Lease Time: 0 minutes (0 means one day)

Static DNS 1: 0 0 0 0

Static DNS 2: 0 0 0 0

Static DNS 3: 0 0 0 0

[Help...](#)

Physical Config **GUI** Attributes

Wireless

SetupWirelessSecurityAccess RestrictionsApplications & GamingAdministrationStatus

Basic Wireless SettingsWireless SecurityGuest NetworkWireless MAC FilterAdvanced Wireless Settings

Basic Wireless Settings

Network Mode:

Mixed

Network Name (SSID):

LabJarkom

Radio Band:

Auto

Wide Channel:

Auto

Standard Channel:

1 - 2.412GHz

SSID Broadcast:

☒ Enabled☐ Disabled

Help...

Physical Config **GUI** Attributes

Wireless

SetupWirelessSecurityAccess RestrictionsApplications & GamingAdministrationStatus

Basic Wireless SettingsWireless SecurityGuest NetworkWireless MAC FilterAdvanced Wireless Settings

Wireless Security

Security Mode:

WPA2 Personal

Encryption:

AES

Passphrase:

12345678

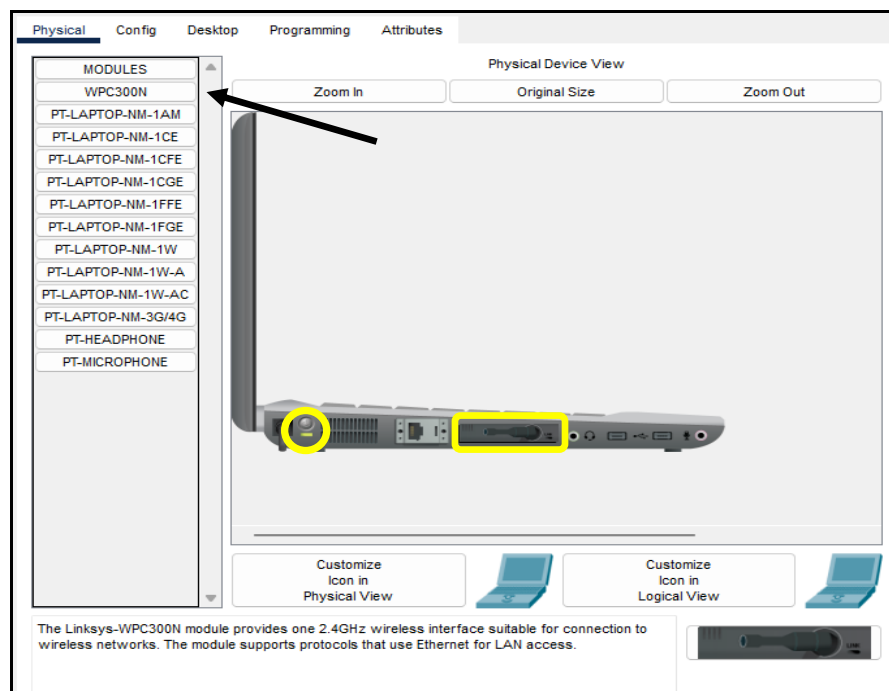
Key Renewal:

3600

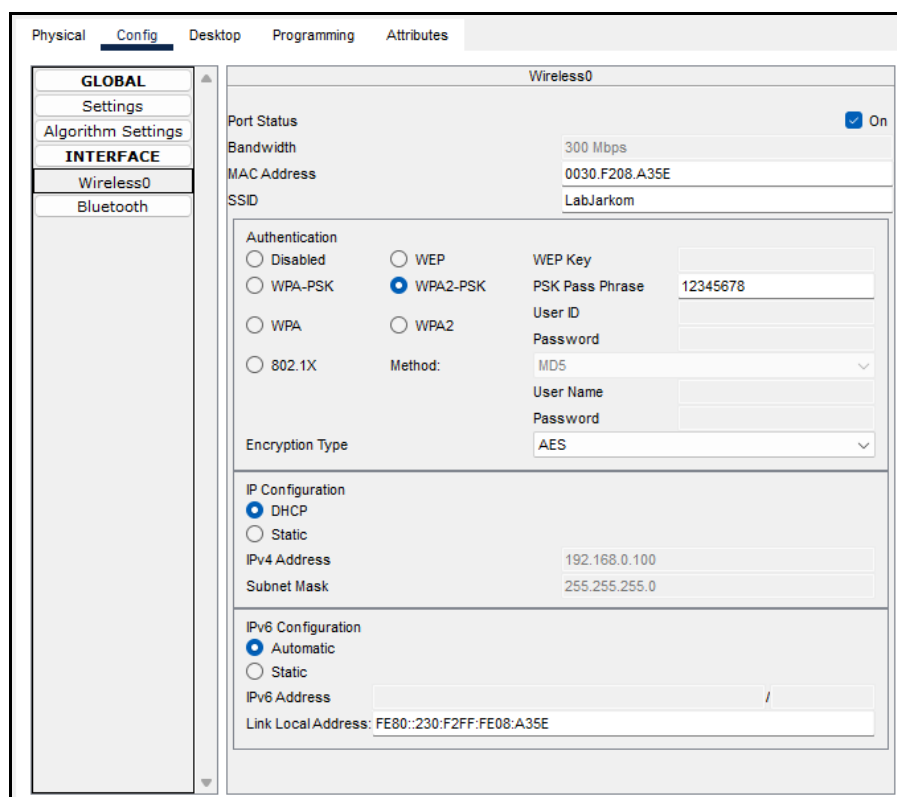
seconds

Help...

3. Konfigurasi Client

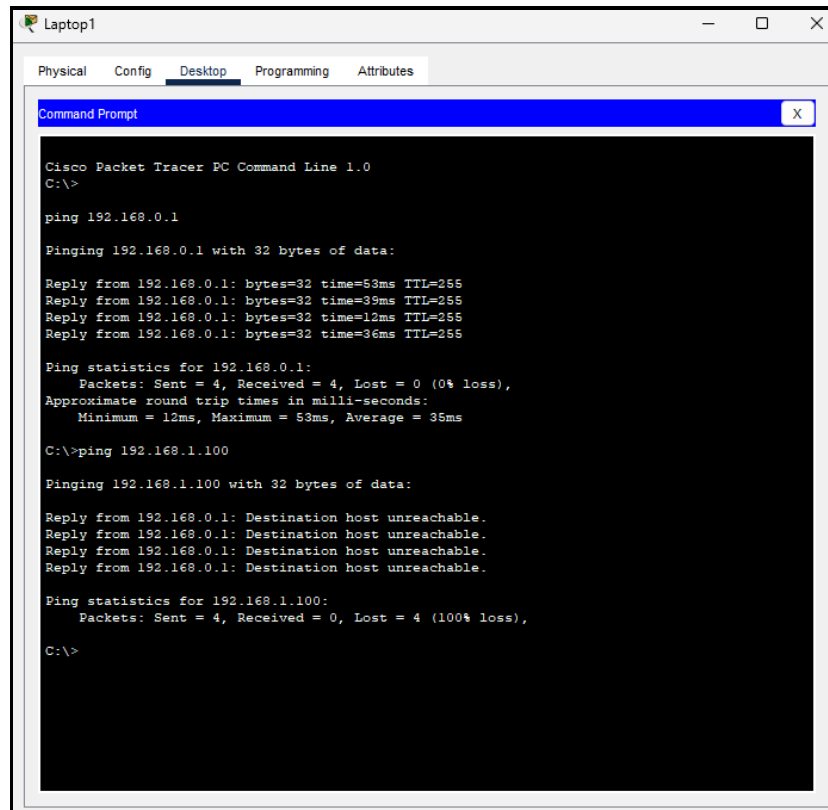


- Tekan tombol power untuk mematikan
- Seret PT-Laptop default ke dalam modules dan gantikan WPC300N
- Tekan tombol power untuk menghidupkannya



4. Pengujian Ping

PC 0



The screenshot shows the 'Laptop1' window in Cisco Packet Tracer. The 'Desktop' tab is selected, and a 'Command Prompt' window is open. The command prompt displays the output of two ping commands. The first command, 'ping 192.168.0.1', shows successful results with 4 packets sent and received, 0% loss, and round trip times ranging from 12ms to 53ms. The second command, 'ping 192.168.1.100', shows failure results with 4 packets sent and 0 received, 100% loss, and 'Destination host unreachable' messages.

```
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=53ms TTL=255
Reply from 192.168.0.1: bytes=32 time=39ms TTL=255
Reply from 192.168.0.1: bytes=32 time=12ms TTL=255
Reply from 192.168.0.1: bytes=32 time=36ms 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 = 12ms, Maximum = 53ms, Average = 35ms

C:\>ping 192.168.1.100

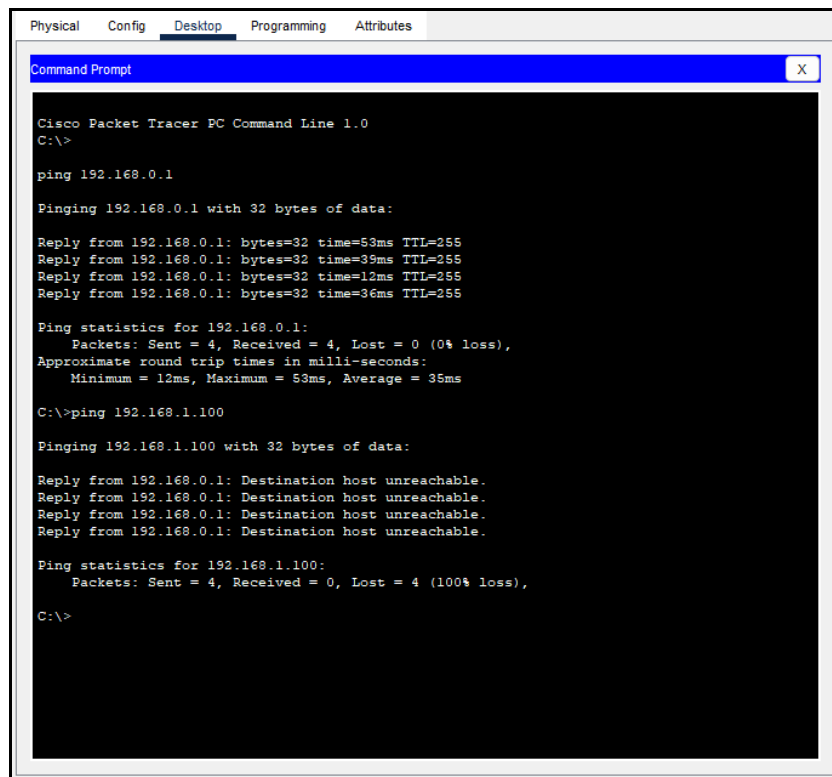
Pinging 192.168.1.100 with 32 bytes of data:

Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

PC 1



The screenshot shows the 'Laptop1' window in Cisco Packet Tracer. The 'Desktop' tab is selected, and a 'Command Prompt' window is open. The command prompt displays the output of two ping commands. The first command, 'ping 192.168.0.1', shows successful results with 4 packets sent and received, 0% loss, and round trip times ranging from 12ms to 53ms. The second command, 'ping 192.168.1.100', shows failure results with 4 packets sent and 0 received, 100% loss, and 'Destination host unreachable' messages.

```
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=53ms TTL=255
Reply from 192.168.0.1: bytes=32 time=39ms TTL=255
Reply from 192.168.0.1: bytes=32 time=12ms TTL=255
Reply from 192.168.0.1: bytes=32 time=36ms 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 = 12ms, Maximum = 53ms, Average = 35ms

C:\>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:

Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.
Reply from 192.168.0.1: Destination host unreachable.

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```