

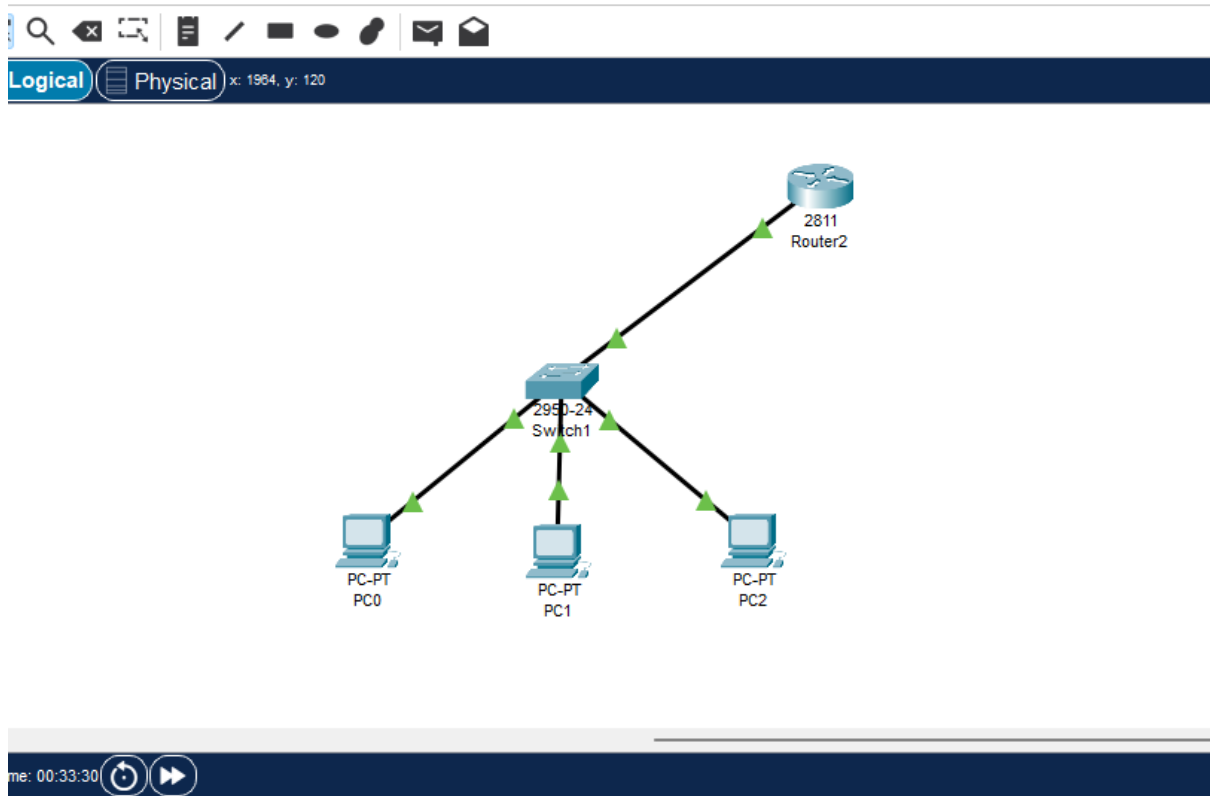
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NIM : 09010182327004

Kelas : MI3A

Mk : Praktikum jaringan computer

- Topologi Jaringan DHCP



- Tampilan booting pada Router

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname 09010182327004_DHCP
09010182327004_DHCP(config)#int fa00
^
% Invalid input detected at '^' marker.
09010182327004_DHCP(config)#fa0/0
^
% Invalid input detected at '^' marker.
09010182327004_DHCP(config)#int g0/0
%Invalid interface type and number
09010182327004_DHCP(config)#ip add 192.168.1.1 255.255.255.0
^
% Invalid input detected at '^' marker.
09010182327004_DHCP(config)#ip add 192.168.1.1 255.255.255.0
^
% Invalid input detected at '^' marker.
09010182327004_DHCP(config)#no shutdown
^
% Invalid input detected at '^' marker.
09010182327004_DHCP(config)#int fa0/0
09010182327004_DHCP(config-if)#ip add 192.168.1.1 255.255.255.0
09010182327004_DHCP(config-if)#no shutdown
09010182327004_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
09010182327004_DHCP(config-if)#exit
```

```
09010182327004_DHCP(config-if)#exit
09010182327004_DHCP(config)#ip dhcp pool LAB
09010182327004_DHCP(dhcp-config)#network 192.168.1.0 255.255.255.0
09010182327004_DHCP(dhcp-config)#default-router 192.168.1.1
09010182327004_DHCP(dhcp-config)#dns-server 192.168.1.1
09010182327004_DHCP(dhcp-config)#ip dhcp excluded-address 192.168.1.1
09010182327004_DHCP(config)#ip dhcp excluded-address 192.168.1.2
09010182327004_DHCP(config)#ip dhcp excluded-address 192.168.1.2 192.168.1.20
09010182327004_DHCP(config)#sh ip dhcp binding
^
% Invalid input detected at '^' marker.
09010182327004_DHCP(config)#exit
09010182327004_DHCP#
%SYS-5-CONFIG_I: Configured from console by console
09010182327004_DHCP#sh ip dhcp binding
IP address      Client-ID/      Lease expiration    Type
                Hardware address
192.168.1.21    00D0.BC6C.3AE0    --                  Automatic
192.168.1.22    00E0.8F36.E022    --                  Automatic
192.168.1.23    00E0.F9B0.7BED    --                  Automatic
09010182327004_DHCP#
```

6. Melihat Daftar IP dari Client

NO	IP address	MAC Address	Lease Expiration	Type
1	192.168.1.21	00D0.BC6C.3AE0	--	Automatic
2	192.168.1.22	00E0.0F36 .E022	--	Automatic
3	192.168.1.23	00E0.F9B0 .7BED	--	Automatic

7. 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. pengujian PING pada setiap PC

Daftar IP Client

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

Pengujian ping pada pc0 tujuan ke pc1, pc2

```
Physical  Config  Desktop  Programming  Attributes
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
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=36ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time=23ms 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 = 36ms, Average = 15ms

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:
```

```
C:\>ping 192.168.1.23

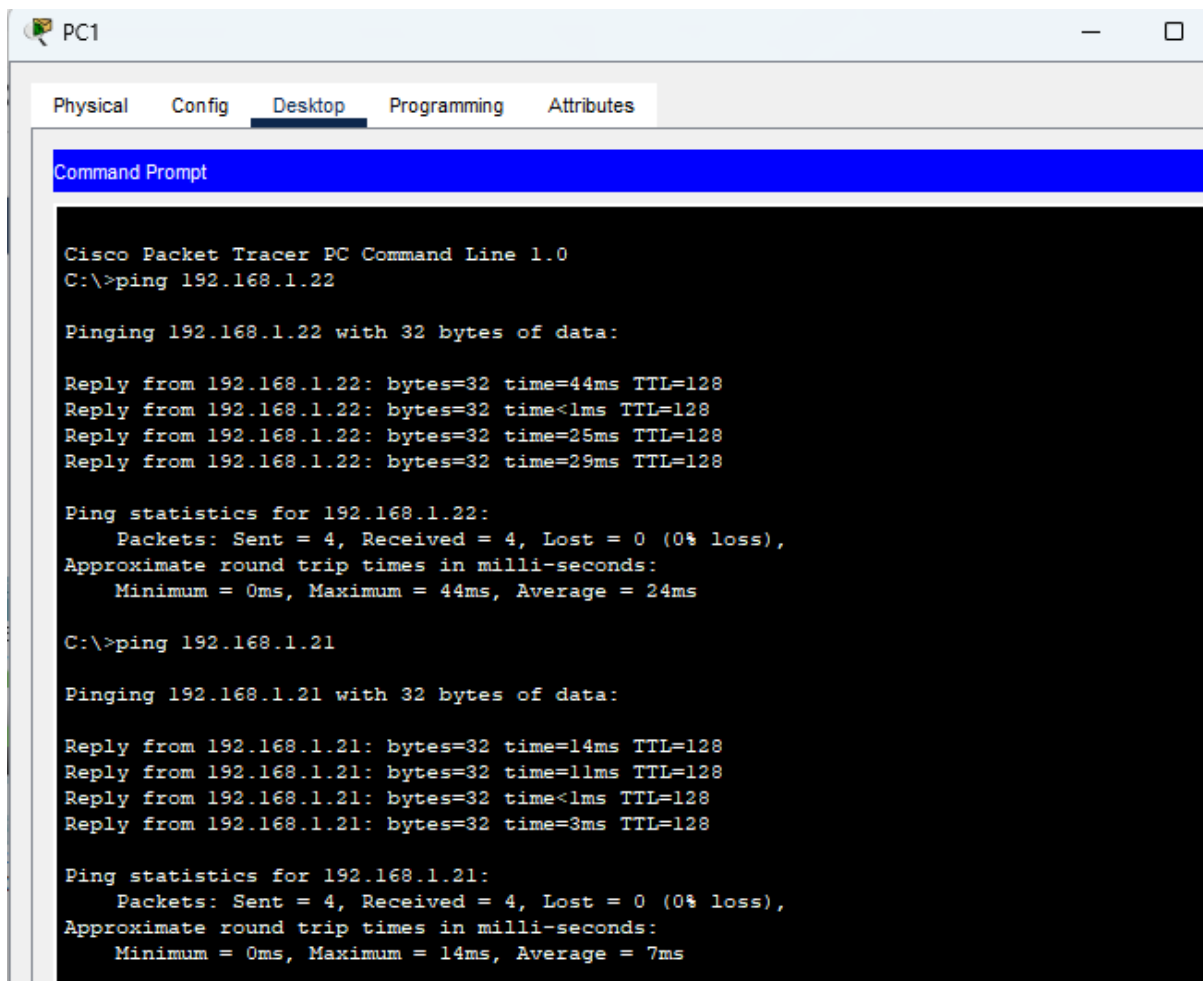
Pinging 192.168.1.23 with 32 bytes of data:

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:\>
```

Pengujian ping pada pc1 tujuan ke pc0, pc2



The screenshot shows the 'PC1' window in Cisco Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of two ping commands. The first command is 'ping 192.168.1.22', which results in four successful replies with varying round trip times (44ms, 1ms, 25ms, 29ms) and a 0% loss. The second command is 'ping 192.168.1.21', which also results in four successful replies with round trip times (14ms, 11ms, 1ms, 3ms) and a 0% loss.

```
PC1
Physical Config Desktop Programming Attributes
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
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=44ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time=25ms TTL=128
Reply from 192.168.1.22: bytes=32 time=29ms 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 = 44ms, Average = 24ms

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=14ms TTL=128
Reply from 192.168.1.21: bytes=32 time=11ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time=3ms 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 = 14ms, Average = 7ms
```

```
C:\>ping 192.168.1.23

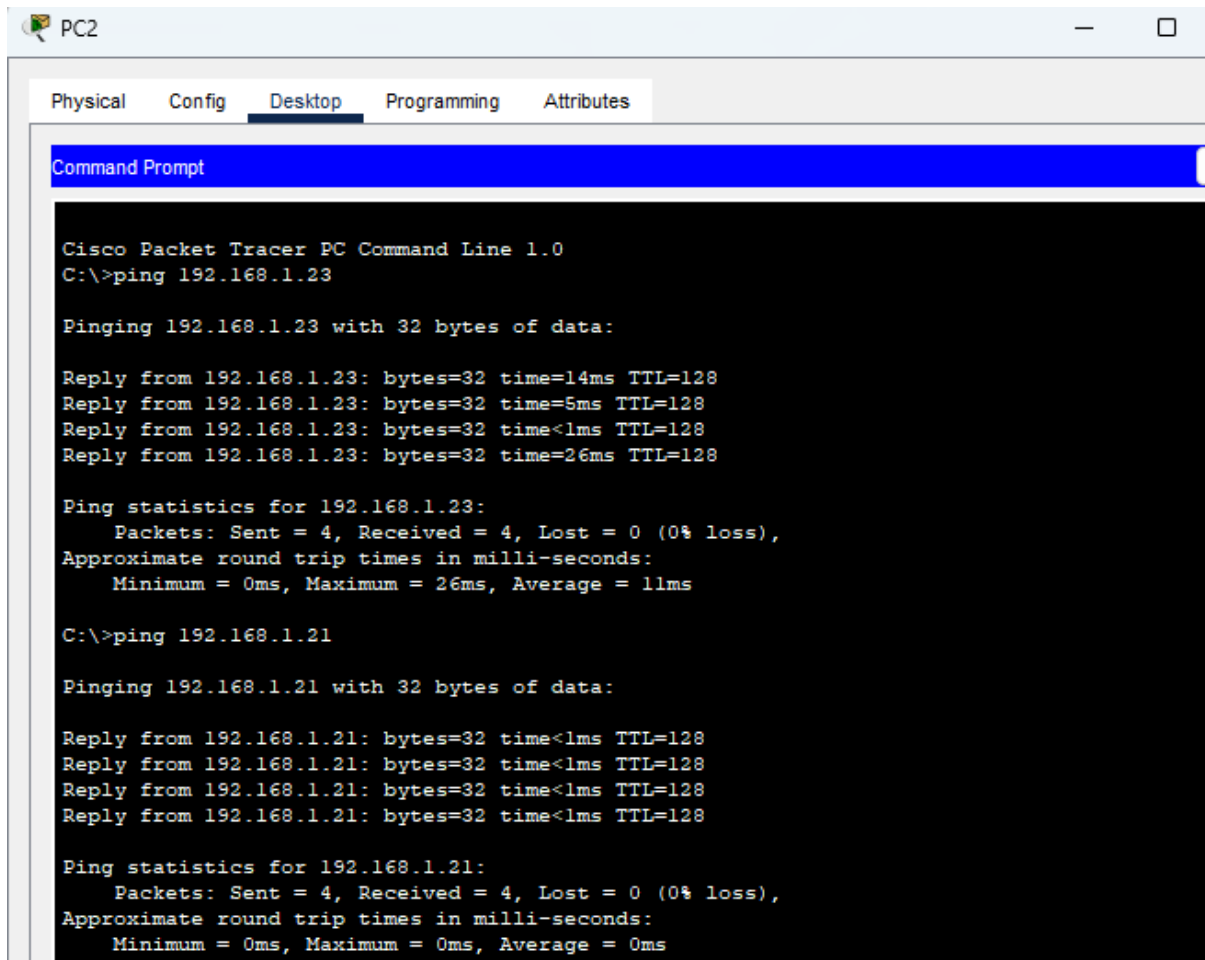
Pinging 192.168.1.23 with 32 bytes of data:

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=9ms 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 = 9ms, Average = 2ms

C:\>
```

Pengujian ping pada pc2 tujuan ke pc0, pc1



The screenshot shows a PC2 window with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a Command Prompt window. The Command Prompt shows the output of two ping commands. The first command is 'ping 192.168.1.23', which results in four successful replies with varying times (14ms, 5ms, <1ms, 26ms) and a TTL of 128. The statistics show 4 packets sent, 4 received, 0 lost, and an average round trip time of 11ms. The second command is 'ping 192.168.1.21', which results in four successful replies with a time of <1ms and a TTL of 128. The statistics show 4 packets sent, 4 received, 0 lost, and an average round trip time of 0ms.

```
Cisco Packet Tracer PC Command Line 1.0
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=14ms TTL=128
Reply from 192.168.1.23: bytes=32 time=5ms TTL=128
Reply from 192.168.1.23: bytes=32 time<1ms TTL=128
Reply from 192.168.1.23: bytes=32 time=26ms TTL=128

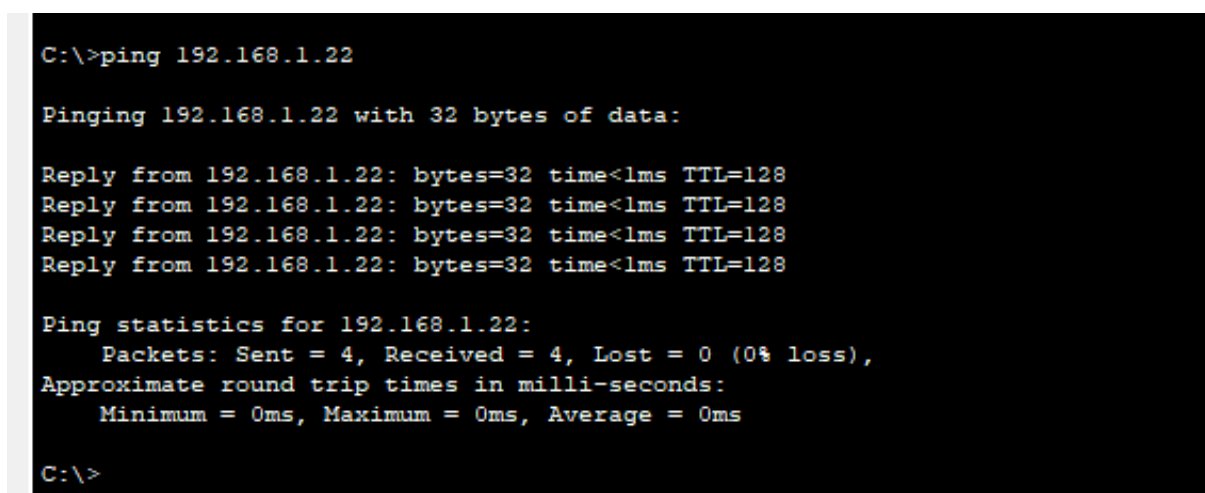
Ping statistics for 192.168.1.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 26ms, Average = 11ms

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
```



The screenshot shows a continuation of the Command Prompt window from the previous image. It displays the output of a ping command to 192.168.1.22. The command is 'ping 192.168.1.22', which results in four successful replies with a time of <1ms and a TTL of 128. The statistics show 4 packets sent, 4 received, 0 lost, and an average round trip time of 0ms. The prompt ends with 'C:\>'.

```
C:\>ping 192.168.1.22

Pinging 192.168.1.22 with 32 bytes of data:

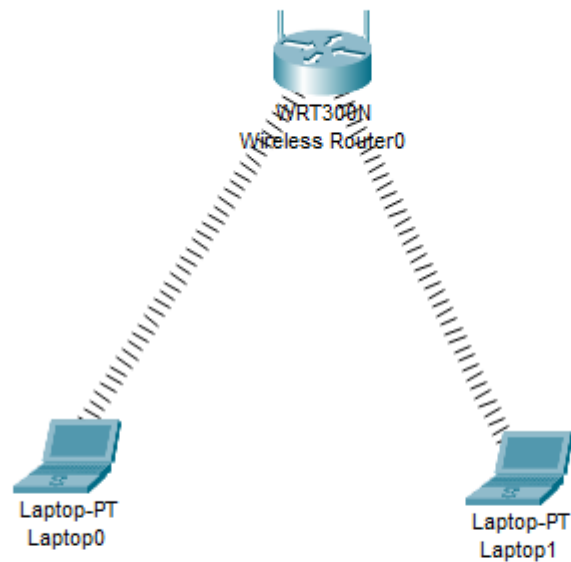
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128
Reply from 192.168.1.22: bytes=32 time<1ms TTL=128

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:\>
```

Wireless

Physical x: 742, y: 158



Wireless Router0

Physical Config **GUI** Attributes

Firmware Version: v0.93.3

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: 255.255.255.252

Help...

DHCP Server Settings

DHCP Server:

☒ Enabled☐ Disabled

DHCP Reservation

Start IP Address: 192.168.0.

Maximum number of Users:

IP Address Range: 192.168.0. 1 - 1

Client Lease Time: minutes (0 means one day)

Static DNS 1: . . .

Static DNS 2: . . .

Static DNS 3: . . .

WINS: . . .

Wireless Router0

Physical

Config

GUI

Attributes

Wireless-N Broadband Router

Wireless

Setup

Wireless

Security

Access Restrictions

Applications & Gaming

Administration

Basic Wireless Settings

Wireless Security

Guest Network

Wireless MAC Filter

Advanced

Basic Wireless Settings

Network Mode:

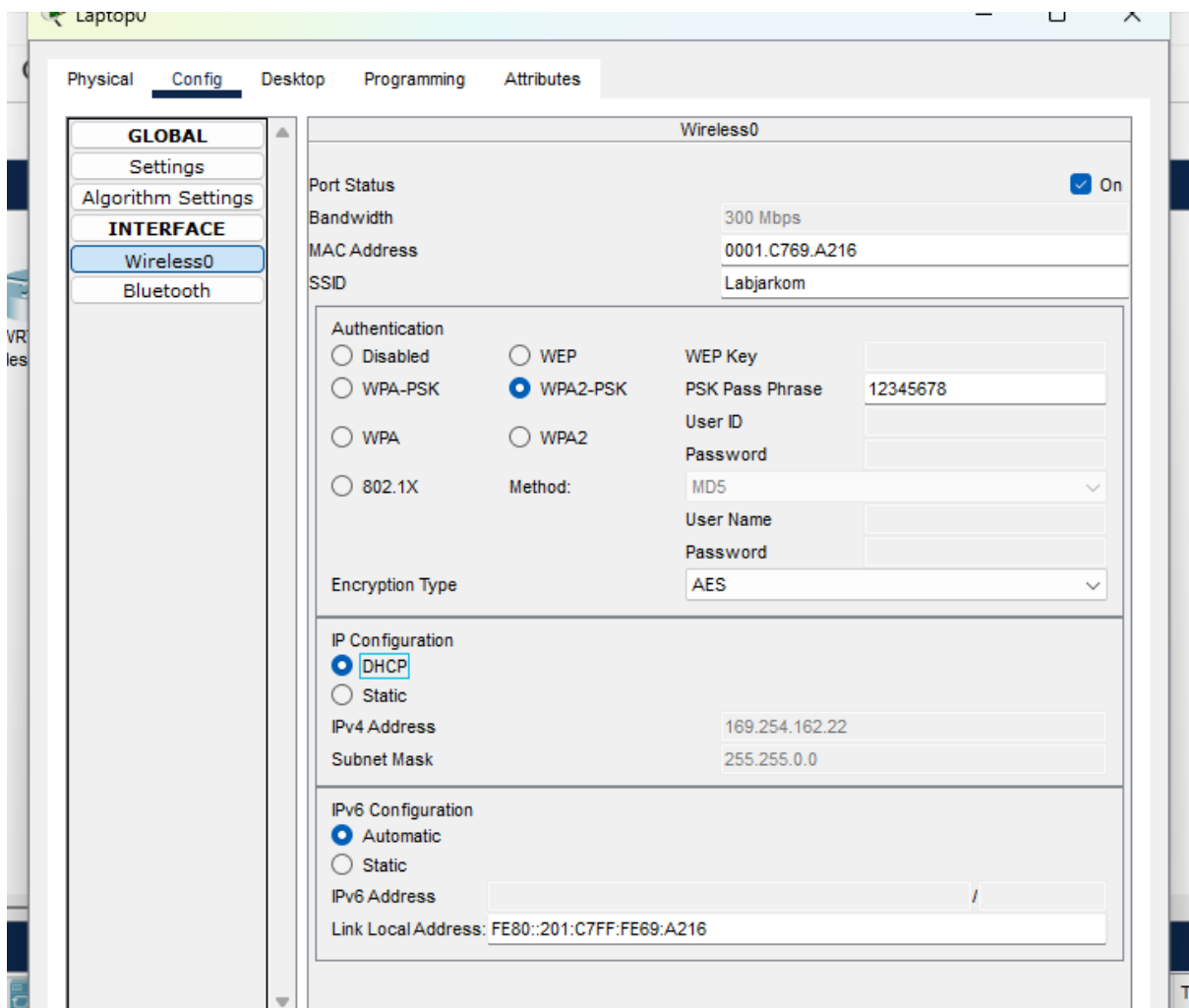
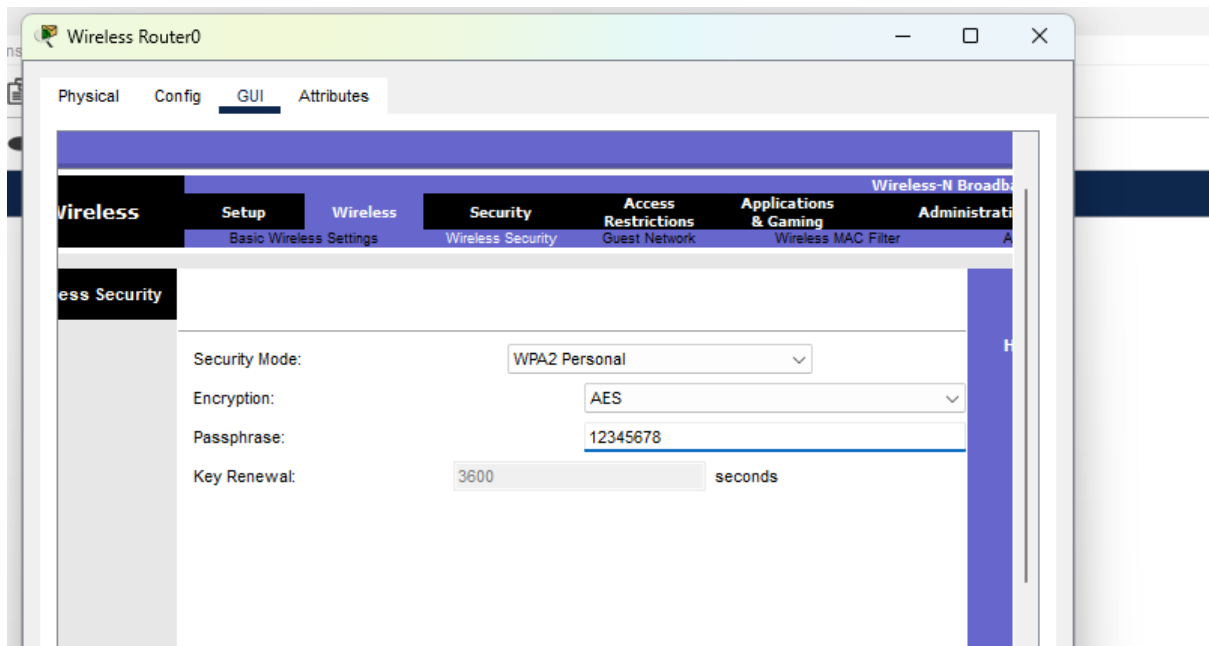
Network Name (SSID):

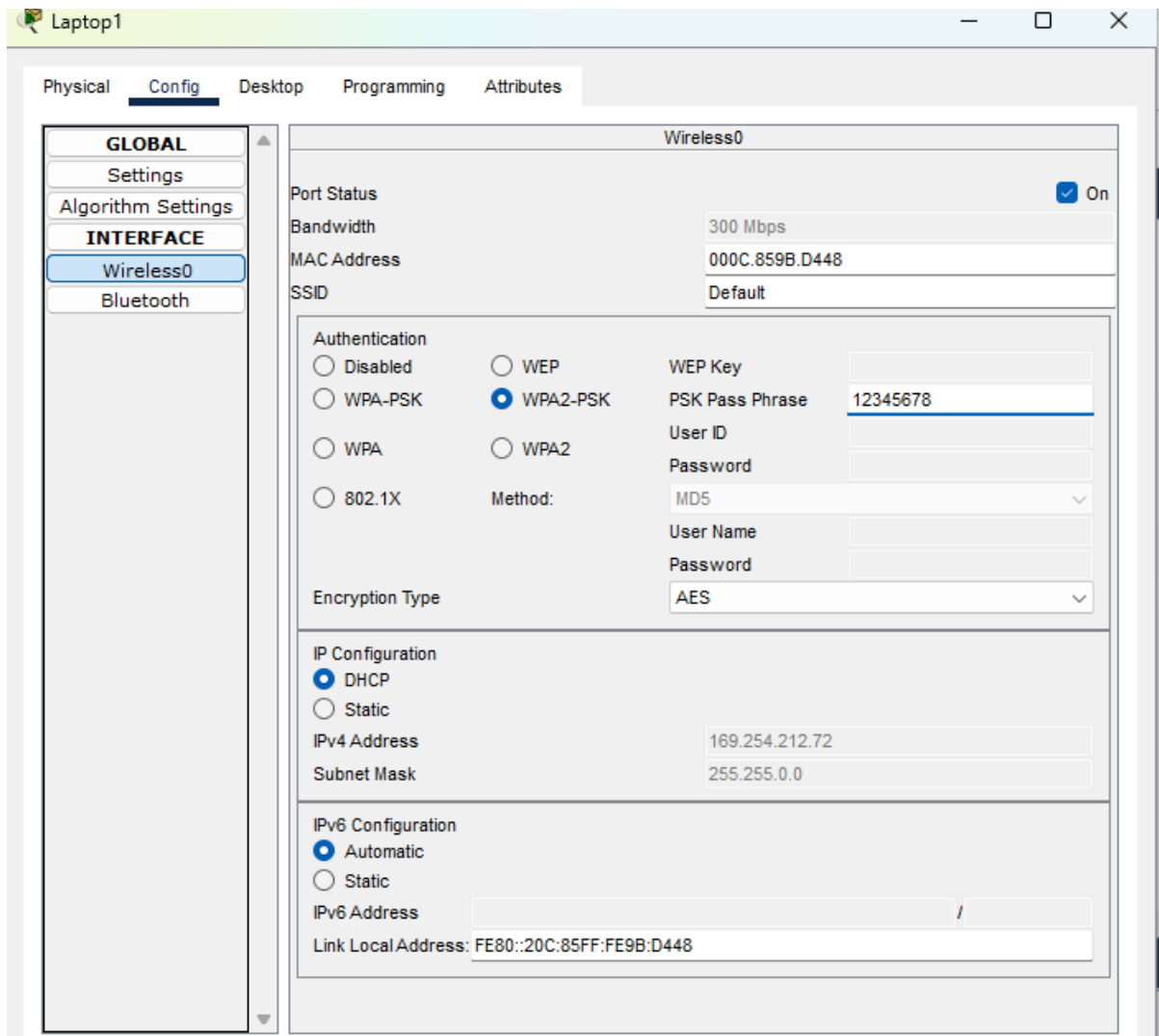
Radio Band:

Wide Channel:

Standard Channel:

SSID Broadcast: ☒ Enabled☐ Disabled





```
C:\>ping 169.254.162.22

Pinging 169.254.162.22 with 32 bytes of data:

Reply from 169.254.162.22: bytes=32 time=11ms TTL=128
Reply from 169.254.162.22: bytes=32 time=21ms TTL=128
Reply from 169.254.162.22: bytes=32 time=23ms TTL=128
Reply from 169.254.162.22: bytes=32 time=21ms TTL=128

Ping statistics for 169.254.162.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 23ms, Average = 19ms

C:\>ping 169.254.212.72

Pinging 169.254.212.72 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 169.254.212.72:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>

ping 169.254.212.73

Pinging 169.254.212.73 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 169.254.212.73:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 169.254.162.22

Pinging 169.254.162.22 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 169.254.162.22:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>|
```