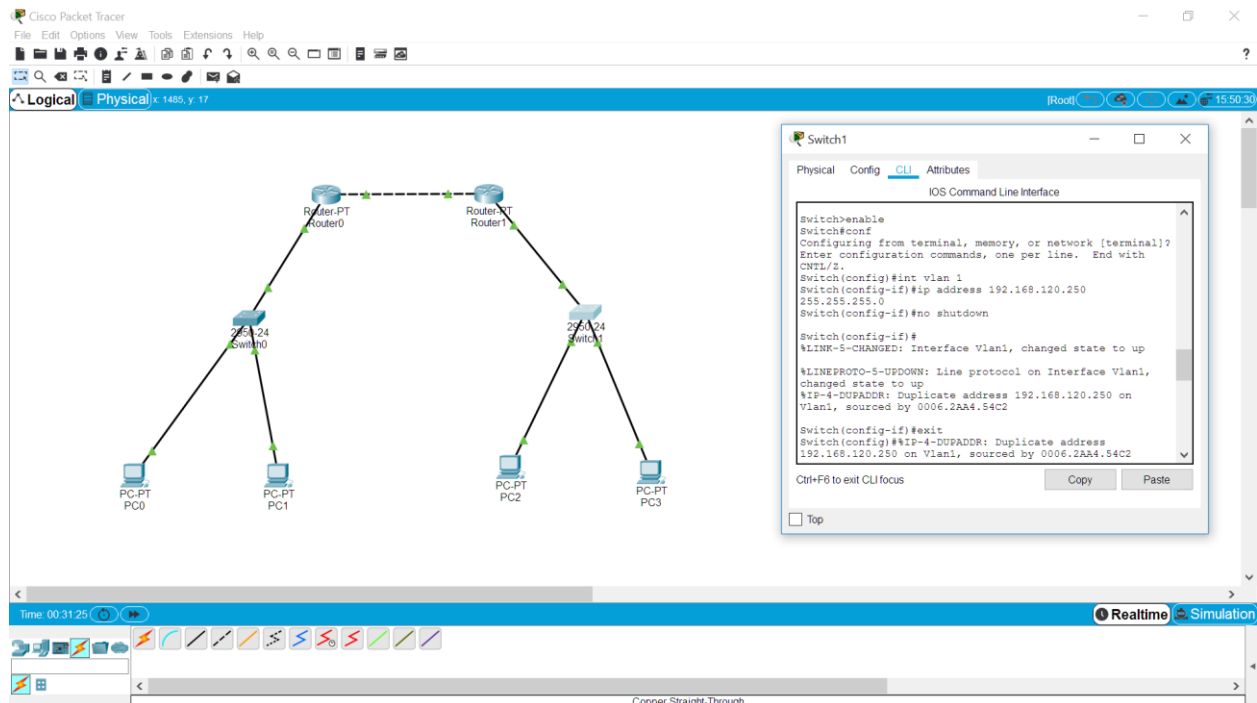
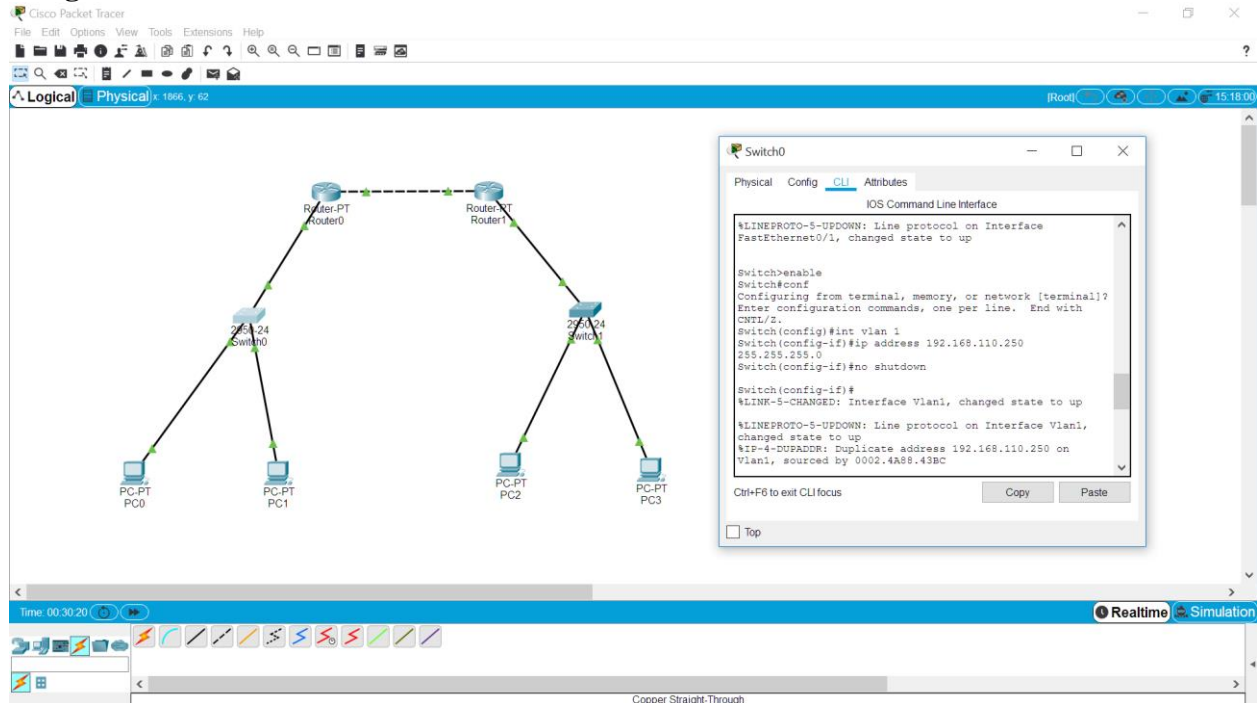


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Kegiatan 1

Langkah 1-9



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1858, y: 409 [Root] 16:13:30

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 192.168.110.0
Router(config-router)#network 192.168.10.0
Router(config-router)#*2
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Ctrl+F6 to exit CLI focus
```

Copy Paste

Top

Time: 00:32:11 Realtime Simulation

Copper Straight-Through

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1861, y: 150 [Root] 16:28:30

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with
CTRL/Z.
Router(config)#router rip
Router(config-router)#network 192.168.120.0
Router(config-router)#network 192.168.10.0
Router(config-router)#*2
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Ctrl+F6 to exit CLI focus
```

Copy Paste

Top

Time: 00:32:40 Realtime Simulation

Copper Straight-Through

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 984, y: 54 [Root] 16:45:00

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA -
OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA
external type 2
E1 - OSPF external type 1, E2 - OSPF external type
2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2,
ia - IS-IS inter area
* - candidate default, U - per-user static route,
o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

C 192.168.10.0/24 is directly connected,
FastEthernet0/0
C 192.168.110.0/24 is directly connected,
FastEthernet1/0
R 192.168.120.0/24 [120/1] via 192.168.10.2, 00:00:19,
FastEthernet0/0
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

Time: 00:33:13

Realtime Simulation

Copper Straight-Through

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1871, y: 426 [Root] 17:02:00

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
D - EIGRP, EX - EIGRP external, O - OSPF, IA -
OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA
external type 2
E1 - OSPF external type 1, E2 - OSPF external type
2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2,
ia - IS-IS inter area
* - candidate default, U - per-user static route,
o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

C 192.168.10.0/24 is directly connected,
FastEthernet0/0
R 192.168.110.0/24 [120/1] via 192.168.10.1, 00:00:11,
FastEthernet0/0
C 192.168.120.0/24 is directly connected,
FastEthernet1/0
```

Router#

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

Time: 00:33:46

Realtime Simulation

Copper Straight-Through

Langkah 10

The screenshot shows the Cisco Packet Tracer interface. The network topology consists of two routers, Router-PT Router0 and Router-PT Router1, connected by a dashed line. Router0 is connected to Switch0, which is connected to PC-PT PC0 and PC-PT PC1. Router1 is connected to Switch1, which is connected to PC-PT PC2 and PC-PT PC3. The interface is set to the Physical tab. A Command Prompt window is open, showing the results of a ping command from PC0 to 192.168.120.4. The output shows that the ping was successful with 4 packets sent and received, and a round trip time of approximately 6ms.

```
C:\>ping 192.168.120.4

Pinging 192.168.120.4 with 32 bytes of data:

Reply from 192.168.120.4: bytes=32 time<1ms TTL=126
Reply from 192.168.120.4: bytes=32 time=13ms TTL=126
Reply from 192.168.120.4: bytes=32 time=13ms TTL=126
Reply from 192.168.120.4: bytes=32 time=11ms TTL=126

Ping statistics for 192.168.120.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 13ms, Average = 6ms

C:\>ping 192.168.120.4

Pinging 192.168.120.4 with 32 bytes of data:

Reply from 192.168.120.4: bytes=32 time<1ms TTL=126
Reply from 192.168.120.4: bytes=32 time=8ms TTL=126
Reply from 192.168.120.4: bytes=32 time=11ms TTL=126
Reply from 192.168.120.4: bytes=32 time=12ms TTL=126

Ping statistics for 192.168.120.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 7ms

C:\>
```

Langkah 11-14

The screenshot shows the Cisco Packet Tracer interface. The network topology is the same as in the previous step. The interface is set to the Physical tab. A configuration window for Router0 is open, showing the configuration of an access list and an interface. The configuration includes setting the interface to fast Ethernet 1/0, enabling it, and applying the access list. The output of the configuration commands is shown in the window.

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface

Router#conf term
Enter configuration commands, one per line. End with
CTRL/Z.
Router(config)#access-list 10 permit 192.168.120.0
0.0.255.255
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#conf term
Enter configuration commands, one per line. End with
CTRL/Z.
Router(config)#int fa 1/0
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show access-lists
Standard IP access list 10
  10 permit 192.168.0.0 0.0.255.255

Ctrl+F6 to exit CLI focus
Copy Paste
```

The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with two routers, Router0 and Router1, connected by a dashed line. Router0 is connected to Switch0, which is connected to PC0 and PC1. Router1 is connected to Switch1, which is connected to PC2 and PC3. The top status bar indicates the Logical/Physical tab is active, showing 1884 bytes and 319 connections. The bottom status bar shows the time as 00:47:53 and the simulation status as Realtime.

A CLI window for Router0 is open, showing the following configuration:

```

Router0
Physical Config CLI Attributes
IOS Command Line Interface

Router#show running-config
Building configuration...

Current configuration : 845 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
ip cef
no ipv6 cef
!

```

The CLI window also includes a "Copy" button, a "Paste" button, and a "Top" button.

The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with two PT Routers (Router0 and Router1) connected via a dashed line. Each router is connected to a 2950-24 Switch. Router0's switch is connected to two PC-PT devices (PC0 and PC1), and Router1's switch is connected to two PC-PT devices (PC2 and PC3). The interface includes a top menu bar (File, Edit, Options, View, Tools, Extensions, Help), a toolbar, and a status bar at the bottom showing 'Time: 00:49:34' and 'Realtime' simulation mode.

Overlaid on the right is a window titled 'PC2' with tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, showing a 'Command Prompt' window. The command prompt displays the output of a ping command:

```

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Reply from 192.168.110.3: bytes=32 time=1ms TTL=126
Reply from 192.168.110.3: bytes=32 time=12ms TTL=126
Reply from 192.168.110.3: bytes=32 time=10ms TTL=126
Reply from 192.168.110.3: bytes=32 time=10ms TTL=126

Ping statistics for 192.168.110.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 12ms, Average = 6ms

C:\>
  
```

Langkah 17-19

The screenshot shows the Cisco Packet Tracer interface. The network topology consists of two routers, Router-PT Router0 and Router-PT Router1, connected by a dashed line. Router0 is connected to Switch0 (250/24), which is connected to PC-PT PC0 and PC-PT PC1. Router1 is connected to Switch1 (250/24), which is connected to PC-PT PC2 and PC-PT PC3. The Router0 CLI window is open, showing the following configuration:

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface

Router#conf term
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#access-list 20 permit 192.168.120.4
0.0.0.0
Router(config)#*2
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#conf term
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#int fa 1/0
Router(config-if)#ip access-group 20 out
Router(config-if)#*2
Router#
%SYS-5-CONFIG_I: Configured from console by console

Ctrl+F6 to exit CLI focus
Copy Paste
Top
```

Langkah 20

The screenshot shows the Cisco Packet Tracer interface with the same network topology as in the previous step. The PC2 Command Prompt window is open, showing the following output:

```
PC2
Physical Config Desktop Programming Attributes
Command Prompt

Copy from Packet Tracer Desktop of PC2
Ping statistics for 192.168.110.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 12ms, Average = 8ms
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.

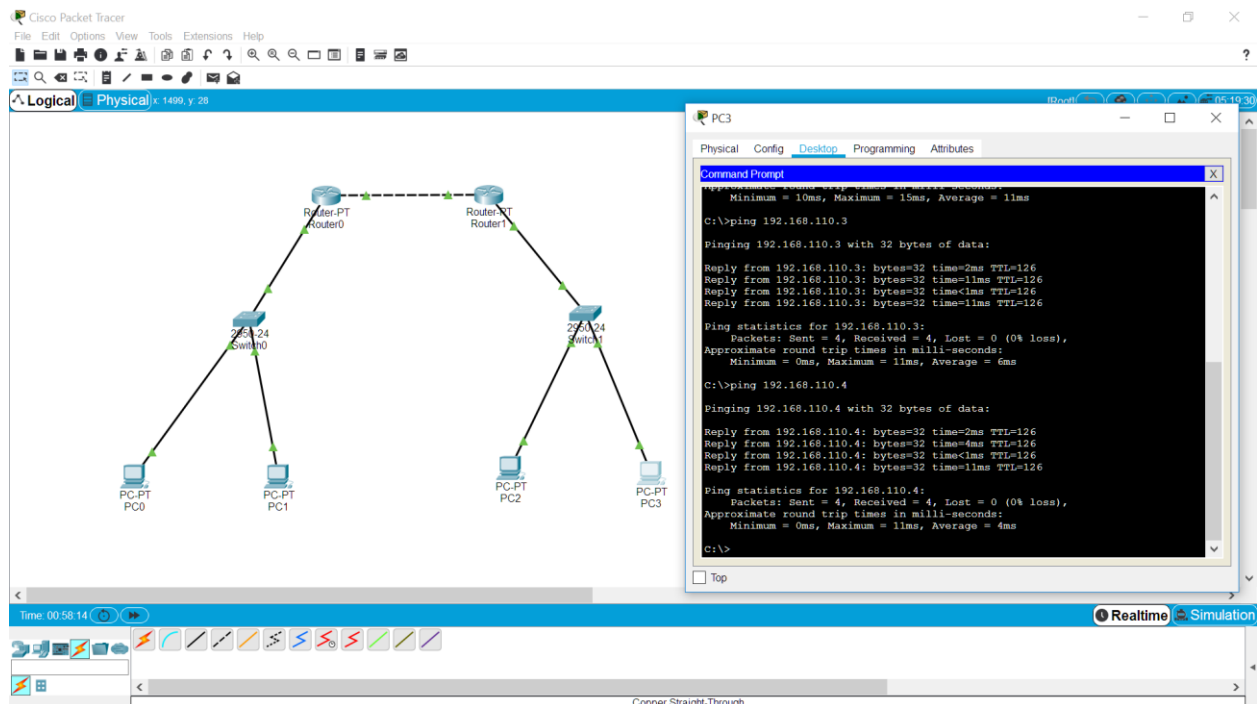
Ping statistics for 192.168.110.3:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.

Ping statistics for 192.168.110.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

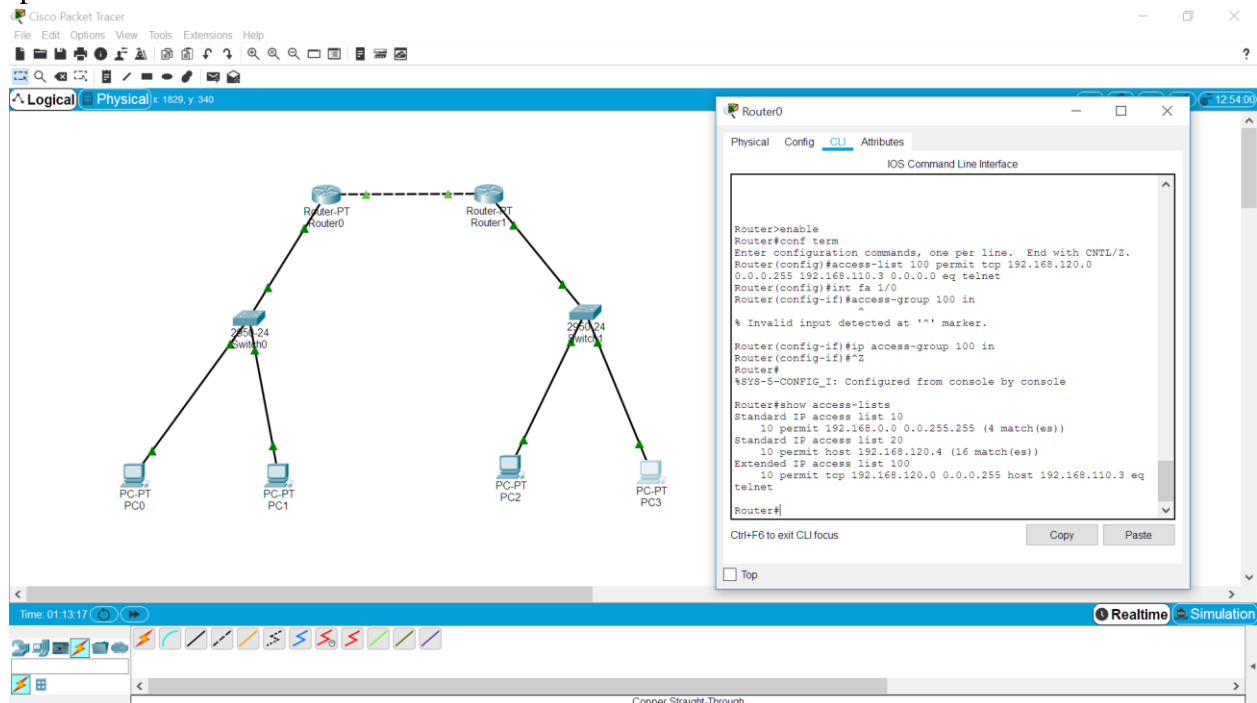
Langkah 21

->>router 1 memberikan hak akses pada PC4 agar dapat mengakses, sehingga saat dilakukan ping dari PC4 ke PC 1 dan PC 2 berhasil.



Kegiatan 2

-permit



-deny

The network diagram shows two routers, Router0 and Router1, connected via a dashed line. Router0 is connected to Switch0, which is connected to PC0 and PC1. Router1 is connected to Switch1, which is connected to PC2 and PC3. The configuration window for Router0 shows the following commands:

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 10 deny 192.168.120.4 0.0.0.0
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show access-lists
Standard IP access list 10
 10 permit 192.168.0.0 0.0.255.255 (4 match(es))
 20 deny host 192.168.120.4
Standard IP access list 20
 10 permit host 192.168.120.4 (16 match(es))
Extended IP access list 100
 10 permit tcp 192.168.120.0 0.0.0.255 host 192.168.110.3 eq telnet
Router#
```

Pengujian:

The network diagram is the same as in the first image. The command prompt window for PC3 shows the following output:

```
Command Prompt
C:\>ping 192.168.110.4
Pinging 192.168.110.4 with 32 bytes of data:
64 bytes: 4 bytes received over 4ms round trip
Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 4ms
C:\>ping 192.168.110.3
Pinging 192.168.110.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.110.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.110.3
Pinging 192.168.110.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.110.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```