

NAMA : WINDI SAPUTRI

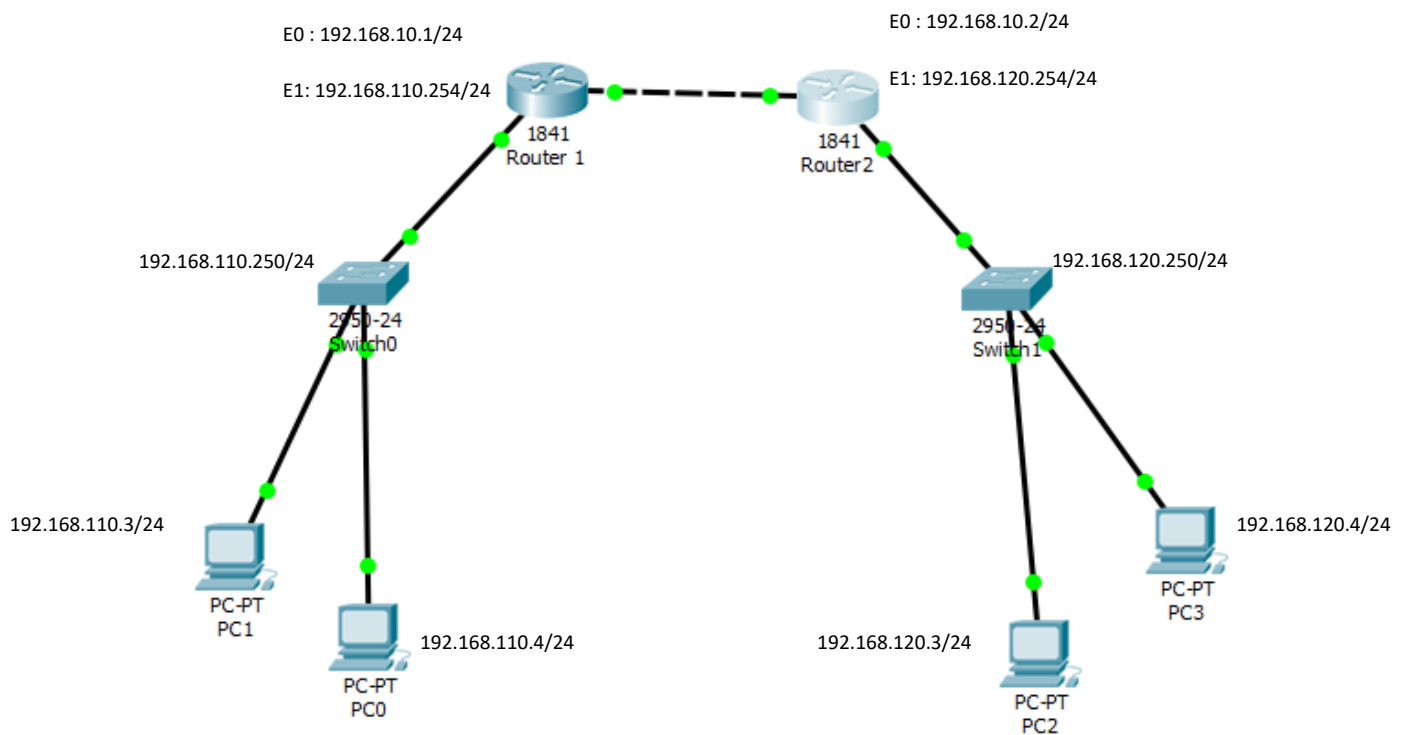
KELAS : C

NIM : L200170115

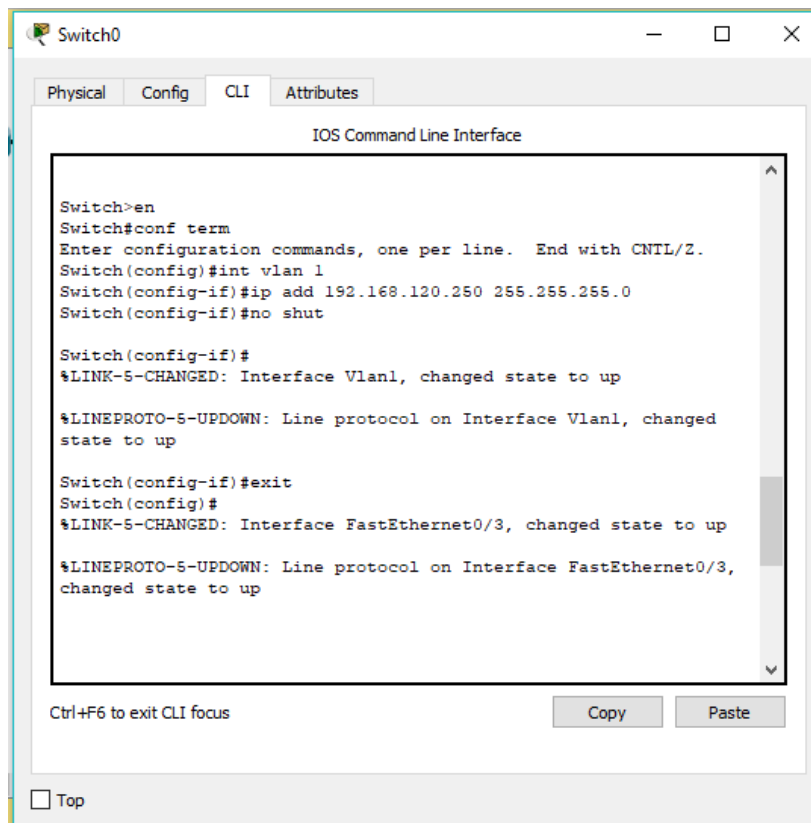
MODUL 8

KEGIATAN 1.

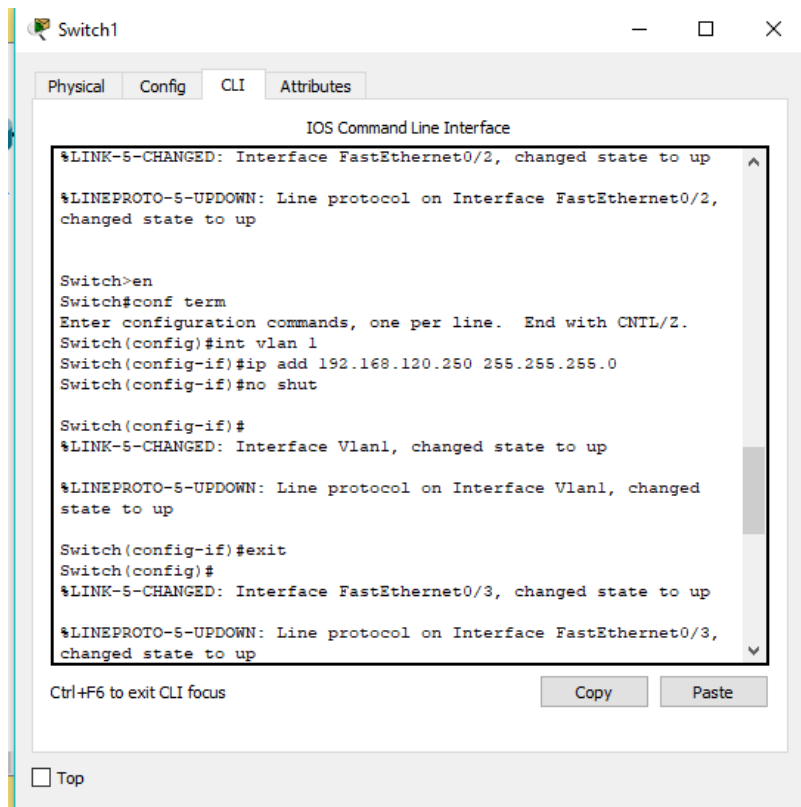
1. KONFIGURASI ACCESS LIST



2. KONFIGURASI ALAMAT IP UNTUK SWITCH SWITCH 1



SWITCH 2



3. MEMBERI ALAMAT IP , SUBNET MASK, DAN DEFAULT GATEWAY PADA MASING2 PC

PC 1

The screenshot shows the configuration window for PC 1. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IP Address is set to 192.168.110.3, Subnet Mask to 255.255.255.0, and Default Gateway to 192.168.110.254. The DNS Server is set to 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected, and the Link Local Address is set to FE80::2E0:F7FF:FE55:E33B.

Field	Value
IP Configuration	<input checked="" type="radio"/> Static
IP Address	192.168.110.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.110.254
DNS Server	0.0.0.0
IPv6 Configuration	<input checked="" type="radio"/> Static
IPv6 Address	
Link Local Address	FE80::2E0:F7FF:FE55:E33B
IPv6 Gateway	
IPv6 DNS Server	

PC 2

The screenshot shows the configuration window for PC 2. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Static' radio button is chosen. The IP Address is set to 192.168.110.4, Subnet Mask to 255.255.255.0, and Default Gateway to 192.168.110.254. The DNS Server is set to 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected, and the Link Local Address is set to FE80::201:97FF:FEEA:D12E.

Field	Value
IP Configuration	<input checked="" type="radio"/> Static
IP Address	192.168.110.4
Subnet Mask	255.255.255.0
Default Gateway	192.168.110.254
DNS Server	0.0.0.0
IPv6 Configuration	<input checked="" type="radio"/> Static
IPv6 Address	
Link Local Address	FE80::201:97FF:FEEA:D12E
IPv6 Gateway	
IPv6 DNS Server	

PC 3

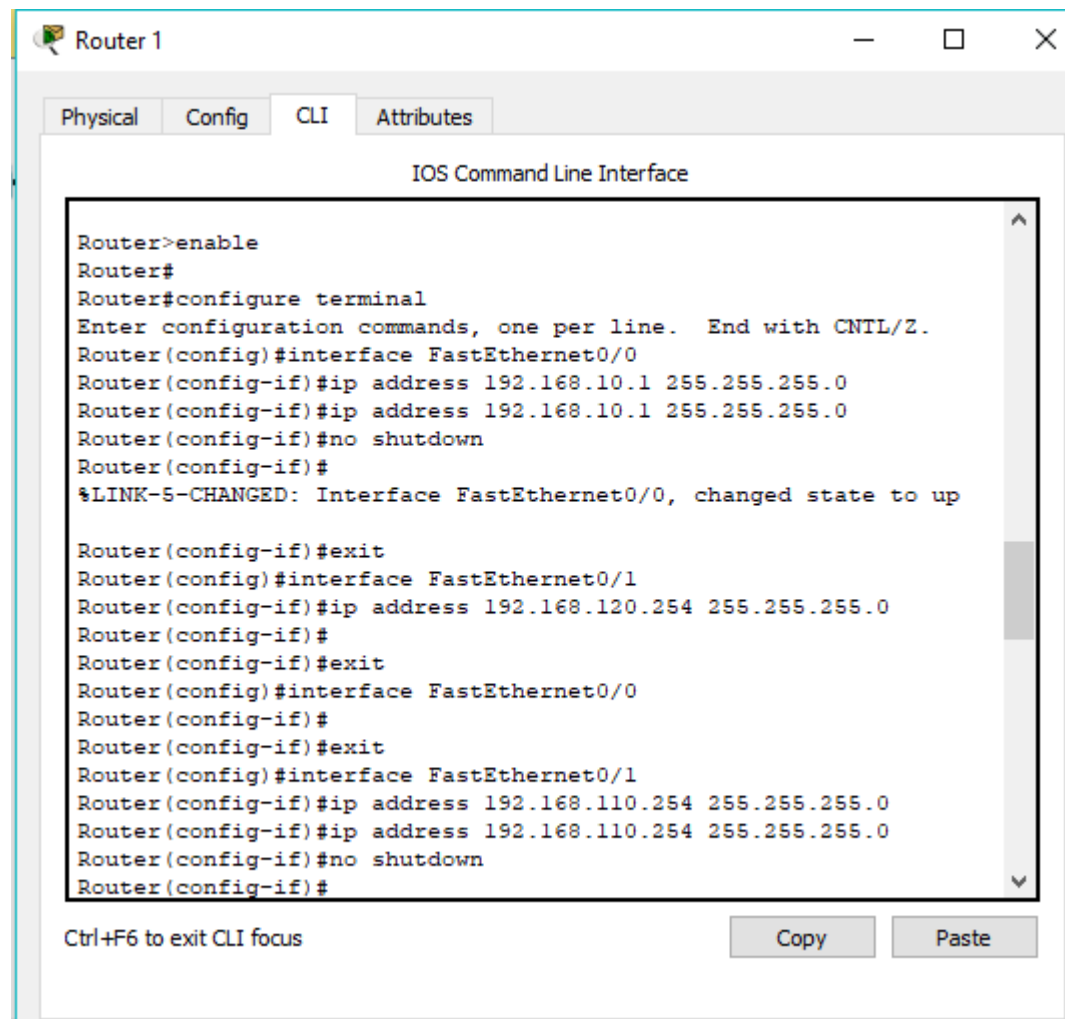
Physical	Config	Desktop	Programming	Attributes
IP Configuration				
IP Configuration				
<input type="radio"/> DHCP <input checked="" type="radio"/> Static				
IP Address		192.168.120.3		
Subnet Mask		255.255.255.0		
Default Gateway		192.168.120.254		
DNS Server		0.0.0.0		
IPv6 Configuration				
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static				
IPv6 Address				
Link Local Address		FE80::230:F2FF:FE8C:62DB		
IPv6 Gateway				
IPv6 DNS Server				

PC 4

Physical	Config	Desktop	Programming	Attributes
IP Configuration				
IP Configuration				
<input type="radio"/> DHCP <input checked="" type="radio"/> Static				
IP Address		192.168.120.4		
Subnet Mask		255.255.255.0		
Default Gateway		192.168.120.254		
DNS Server		0.0.0.0		
IPv6 Configuration				
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static				
IPv6 Address				
Link Local Address		FE80::2D0:FFFF:FE89:872A		
IPv6 Gateway				
IPv6 DNS Server				

4. MELAKUKAN ROUTING PADA KEDUA JARINGAN

ROUTER 1



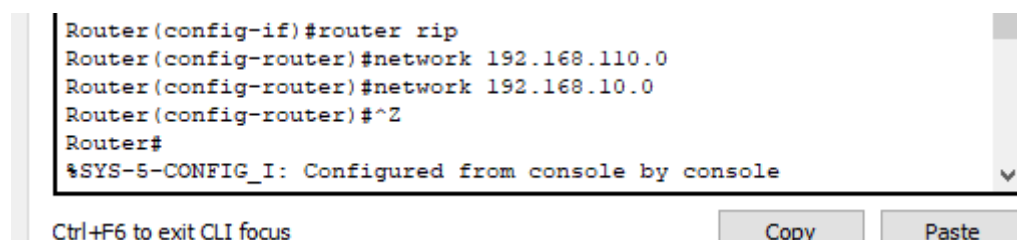
The screenshot shows a window titled "Router 1" with tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, displaying the "IOS Command Line Interface". The terminal text shows the configuration of three interfaces: FastEthernet0/0, FastEthernet0/1, and FastEthernet0/2. Each interface is assigned the IP address 192.168.10.1, 192.168.120.254, and 192.168.110.254 respectively, with a 255.255.255.0 subnet mask. The configuration is saved, and the prompt returns to Router#. Below the terminal, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons.

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.120.254 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.110.254 255.255.255.0
Router(config-if)#ip address 192.168.110.254 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#
```

Ctrl+F6 to exit CLI focus

Copy Paste



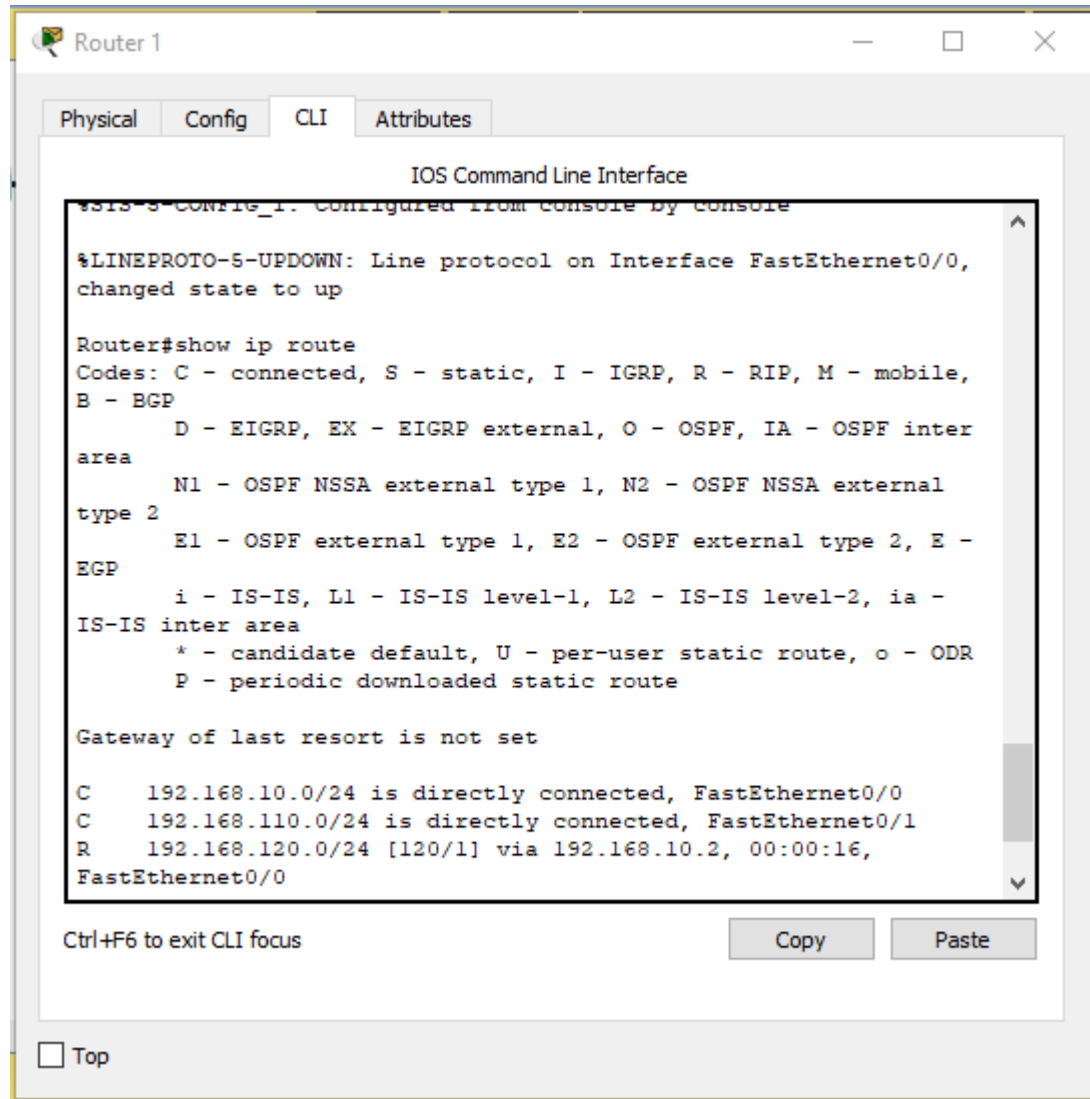
This screenshot shows the continuation of the configuration on Router 1. The terminal text shows the configuration of the routing protocol RIP. The network 192.168.110.0 and 192.168.10.0 are added to the RIP configuration. The configuration is saved, and the prompt returns to Router#. Below the terminal, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons.

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

Ctrl+F6 to exit CLI focus

Copy Paste

CEK LABEL ROUTING (SHOW IP ROUTE)



Router 1

Physical Config CLI Attributes

IOS Command Line Interface

```
%SIS-S-CONFIG_1: Configured from console by console
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

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

Gateway of last resort is not set

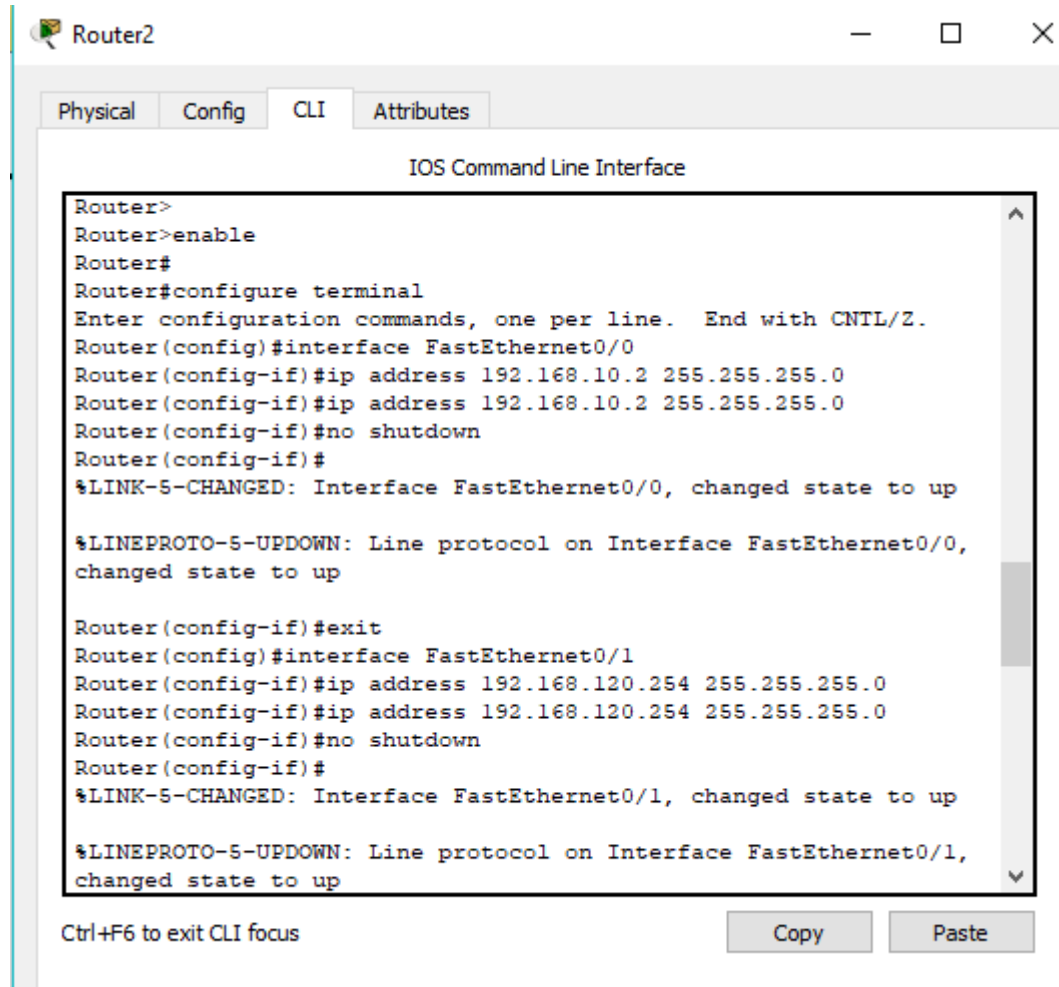
C    192.168.10.0/24 is directly connected, FastEthernet0/0
C    192.168.110.0/24 is directly connected, FastEthernet0/1
R    192.168.120.0/24 [120/1] via 192.168.10.2, 00:00:16,
FastEthernet0/0
```

Ctrl+F6 to exit CLI focus

Copy Paste

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ROUTER 2



The screenshot shows the Router2 application window with the CLI tab selected. The window title is "Router2". The CLI interface displays the following commands and output:

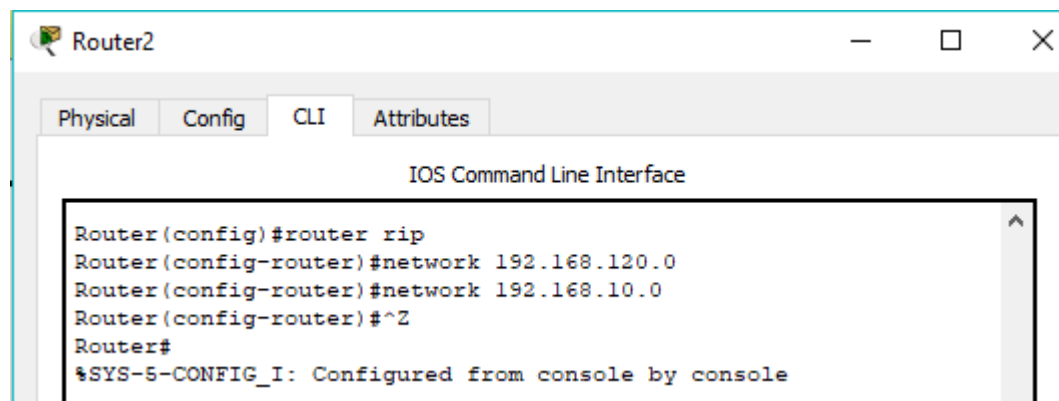
```
Router>
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.10.2 255.255.255.0
Router(config-if)#ip address 192.168.10.2 255.255.255.0
Router(config-if)#no shutdown
Router(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

Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.120.254 255.255.255.0
Router(config-if)#ip address 192.168.120.254 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up
```

Below the CLI window, there is a status bar that says "Ctrl+F6 to exit CLI focus" and two buttons: "Copy" and "Paste".



The screenshot shows the Router2 application window with the CLI tab selected. The window title is "Router2". The CLI interface displays the following commands and output:

```
Router(config)#router rip
Router(config-router)#network 192.168.120.0
Router(config-router)#network 192.168.10.0
Router(config-router)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

CEK LABEL ROUTING (SHOW IP ROUTE)

Router2

Physical Config CLI Attributes

IOS Command Line Interface

```
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

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, 00:00:20,
FastEthernet0/0
C    192.168.120.0/24 is directly connected, FastEthernet0/1

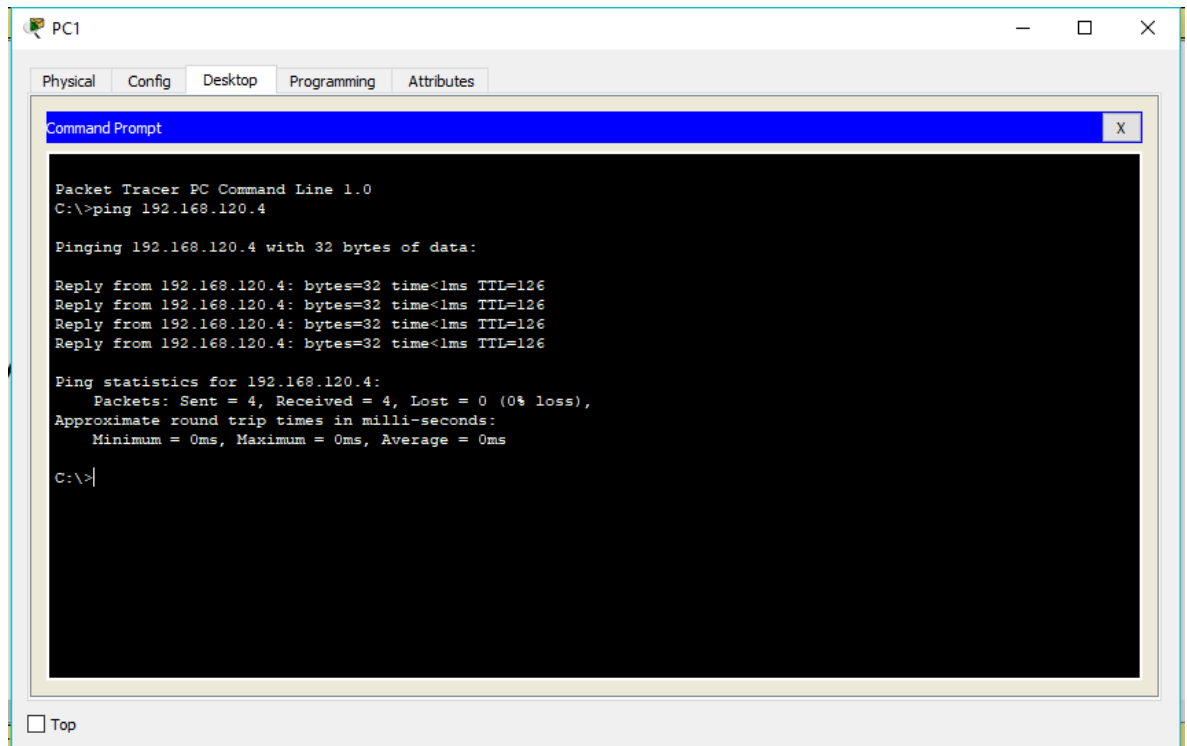
Router#
```

Ctrl+F6 to exit CLI focus

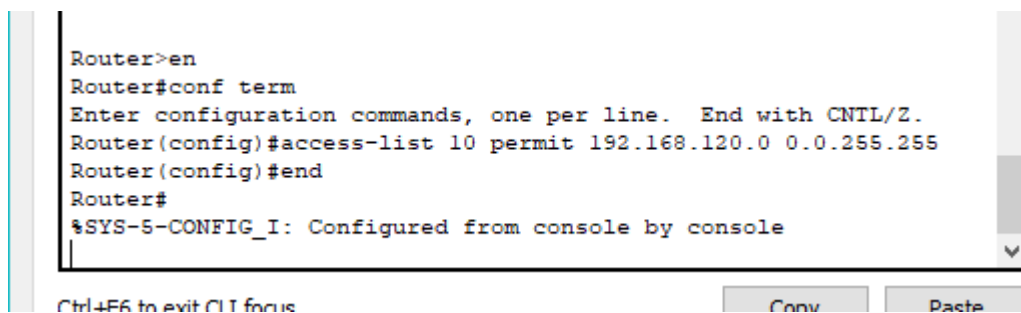
Copy Paste

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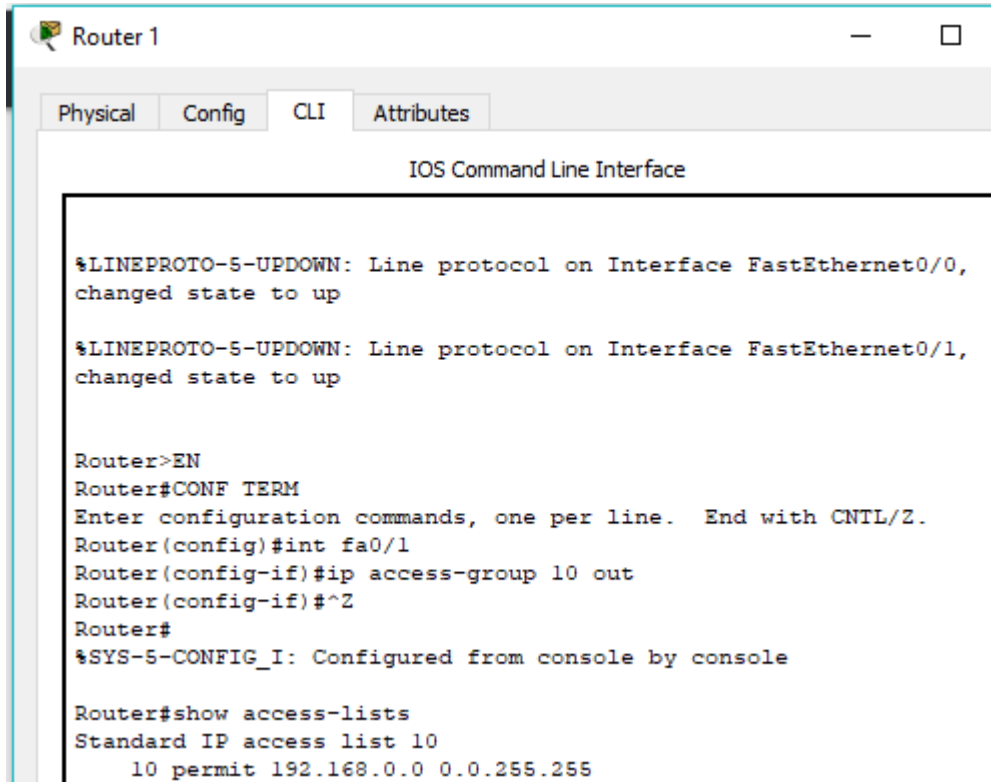
5. PING DARI PC 1 KE PC 4



6. MENENTUKAN ACCESS-LIST YANG DITERAPKAN PADA ROUTER 1



7. MENERAPKAN ACCESS-LIST KE INTERFACE ROUTER 1



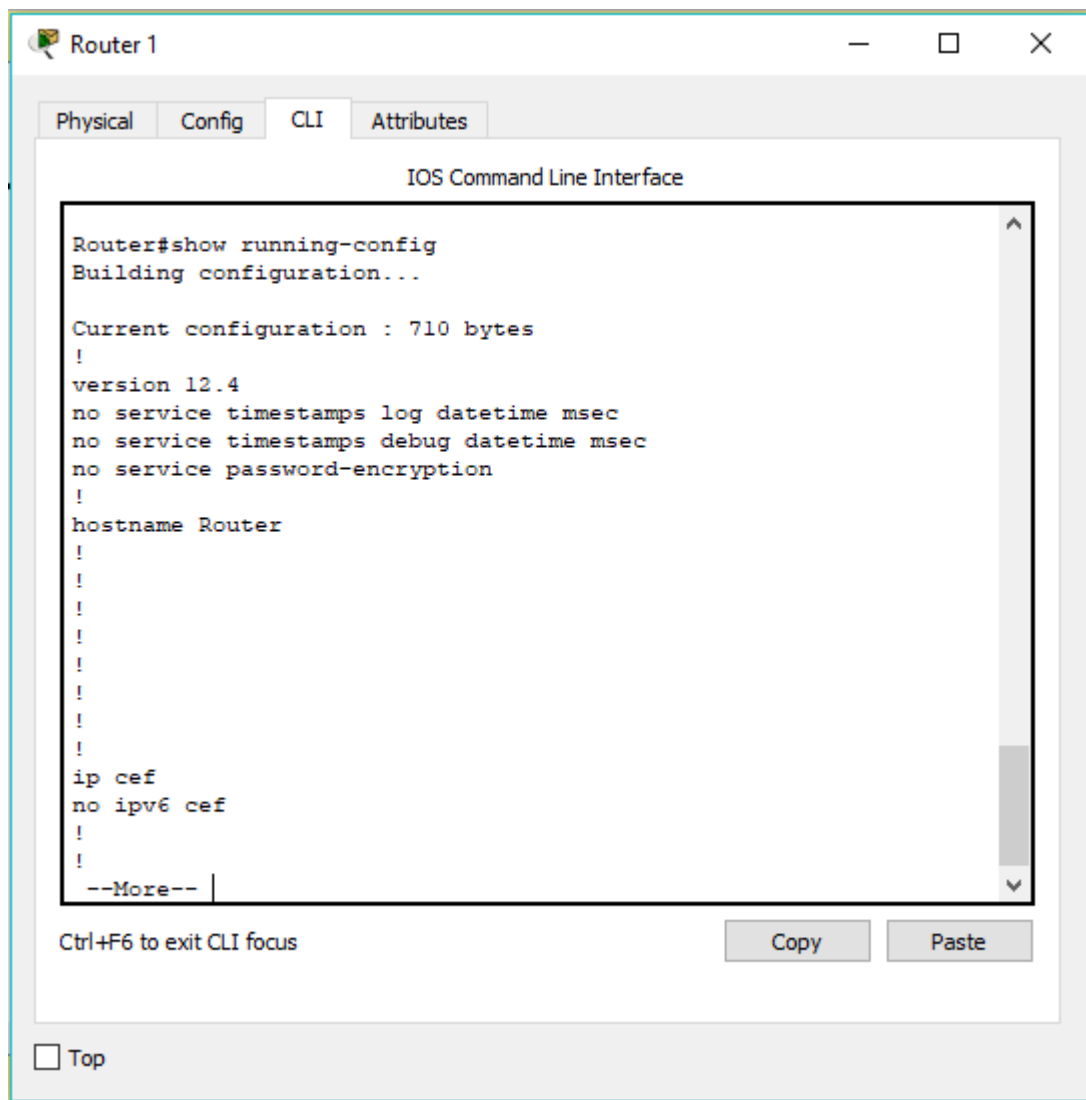
The screenshot shows a window titled "Router 1" with four tabs: "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is selected, and the title of the CLI window is "IOS Command Line Interface". The CLI window displays the following text:

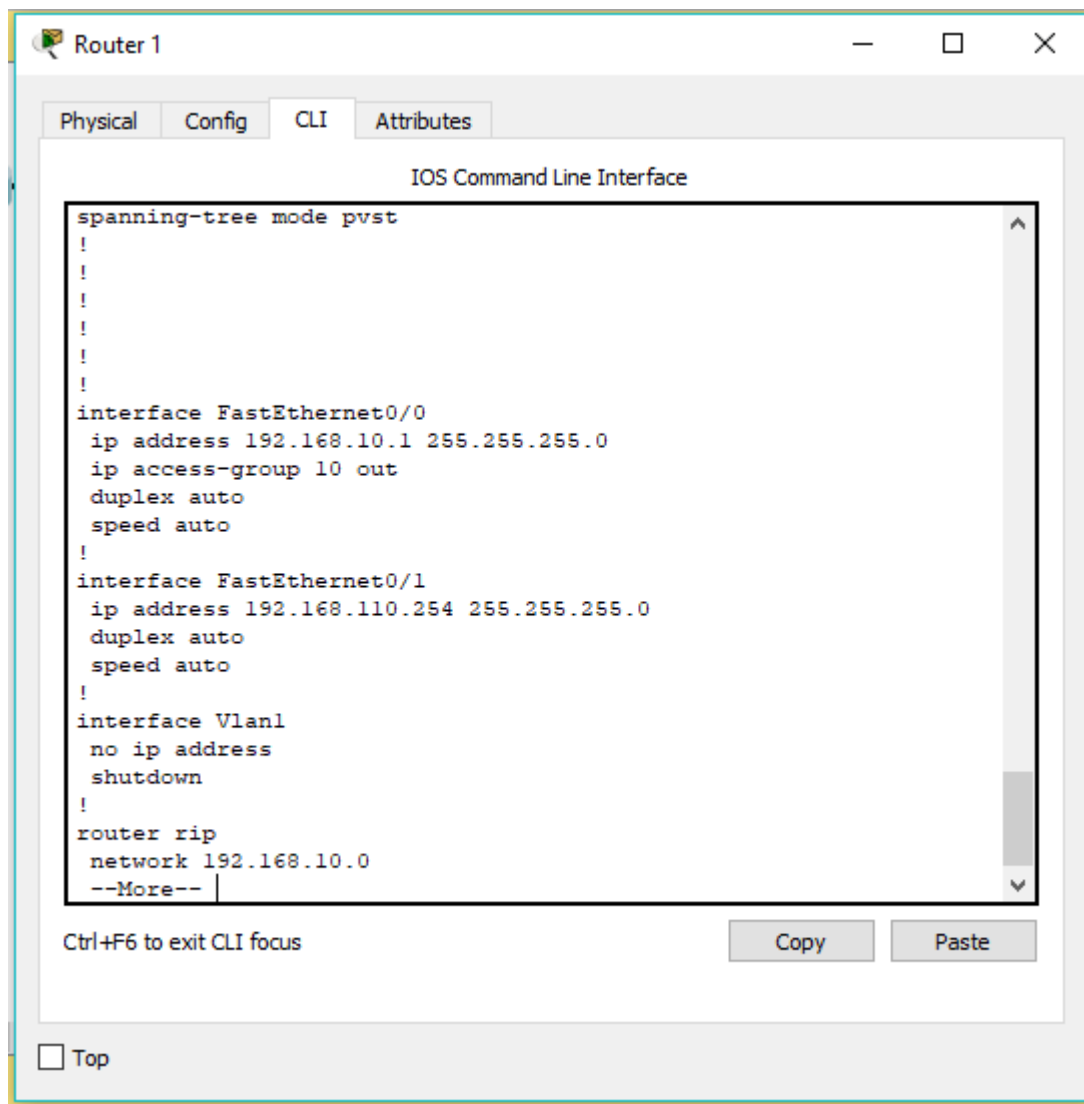
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up

Router>EN
Router#CONF TERM
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/1
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
```





8. PING DARI PC 3 KE PC 1

PC 3

Physical Config Desktop Programming Attributes

Command Prompt

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<1ms TTL=126

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

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

Ping statistics for 192.168.110.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

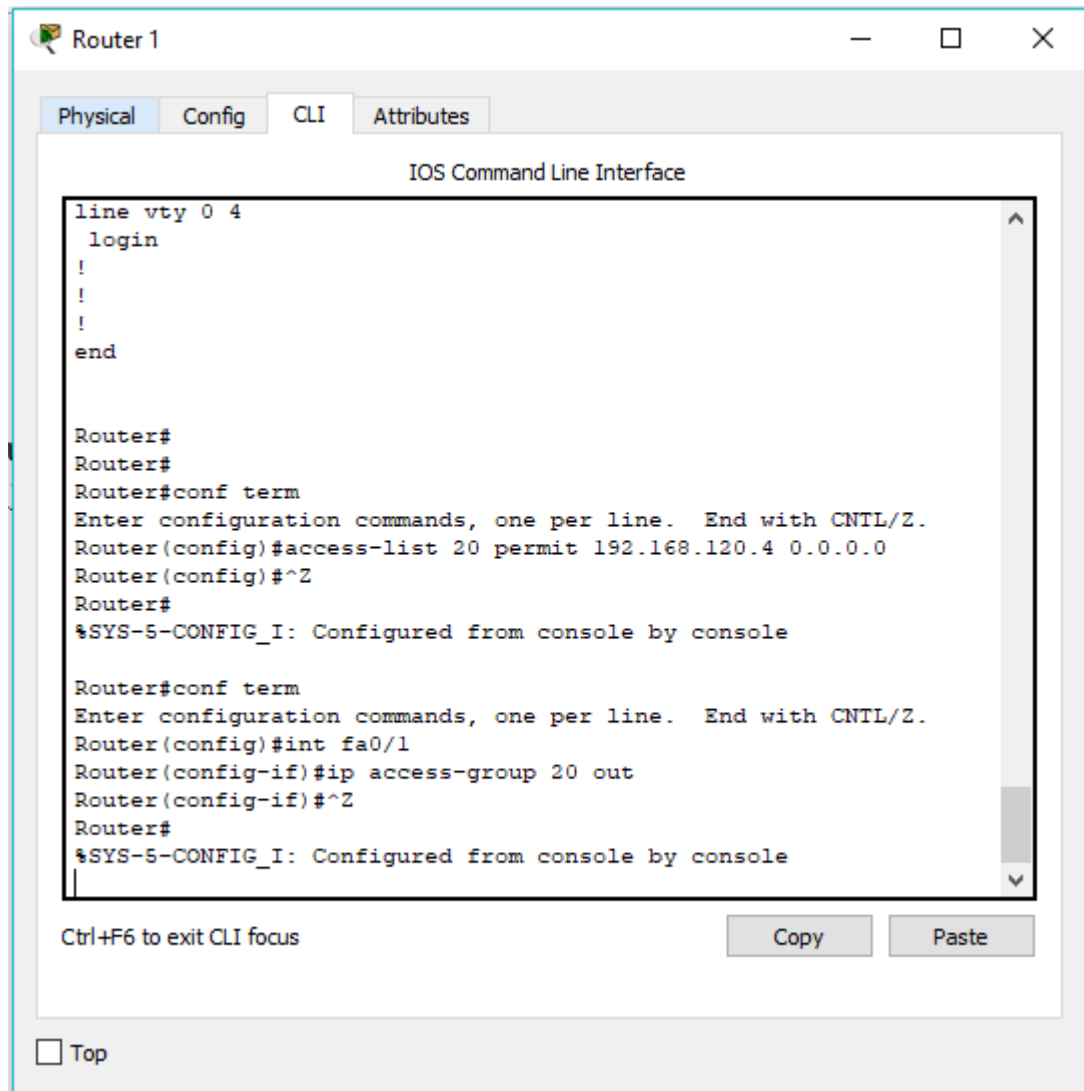
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

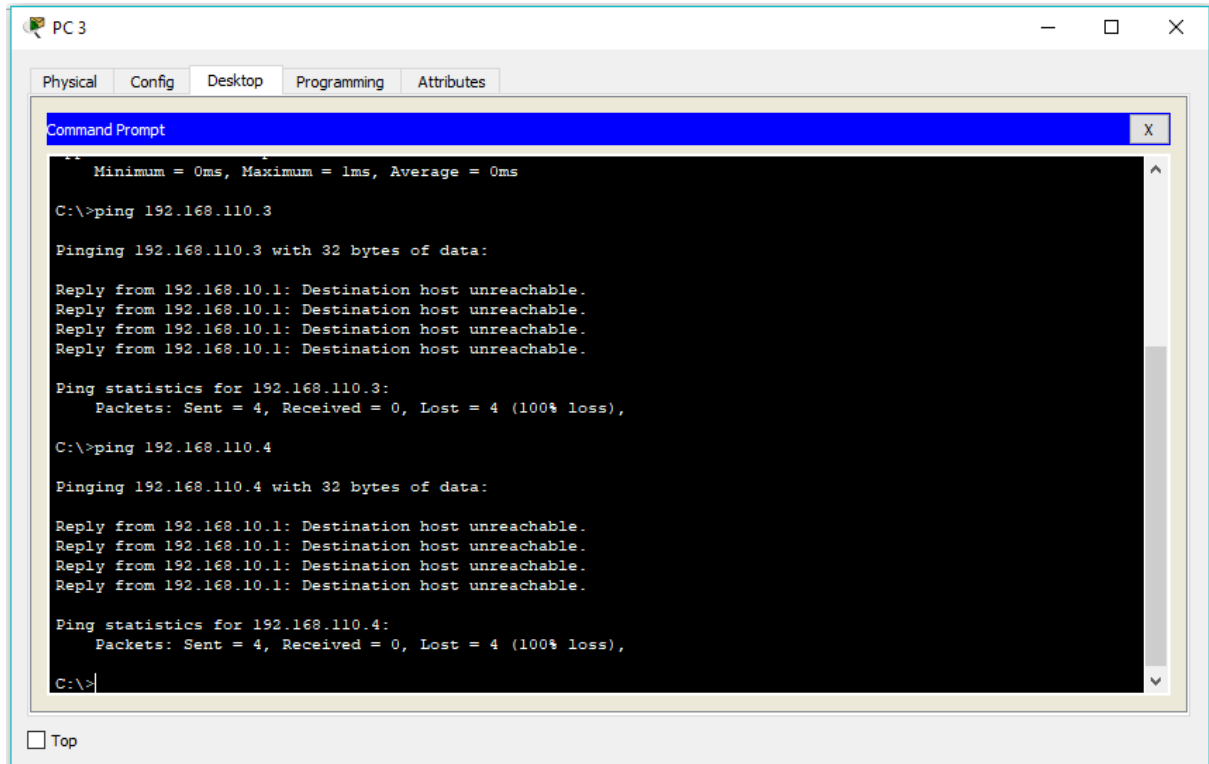
C:\>|

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9. MEMBERIKAN AKSES PADA 1 HOST DENGAN IP 192.168.120.4 AGAR DAPAT MENGAKSES KE JARINGAN 192.168.110.0



10. PING DARI PC3 YANG BERADA PADA JARINGAN 192.168.120.0 KE PC1 DAN PC2 YANG ADA PADA JARINGAN 192.168.110.0



PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
Minimum = 0ms, Maximum = 1ms, Average = 0ms

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:

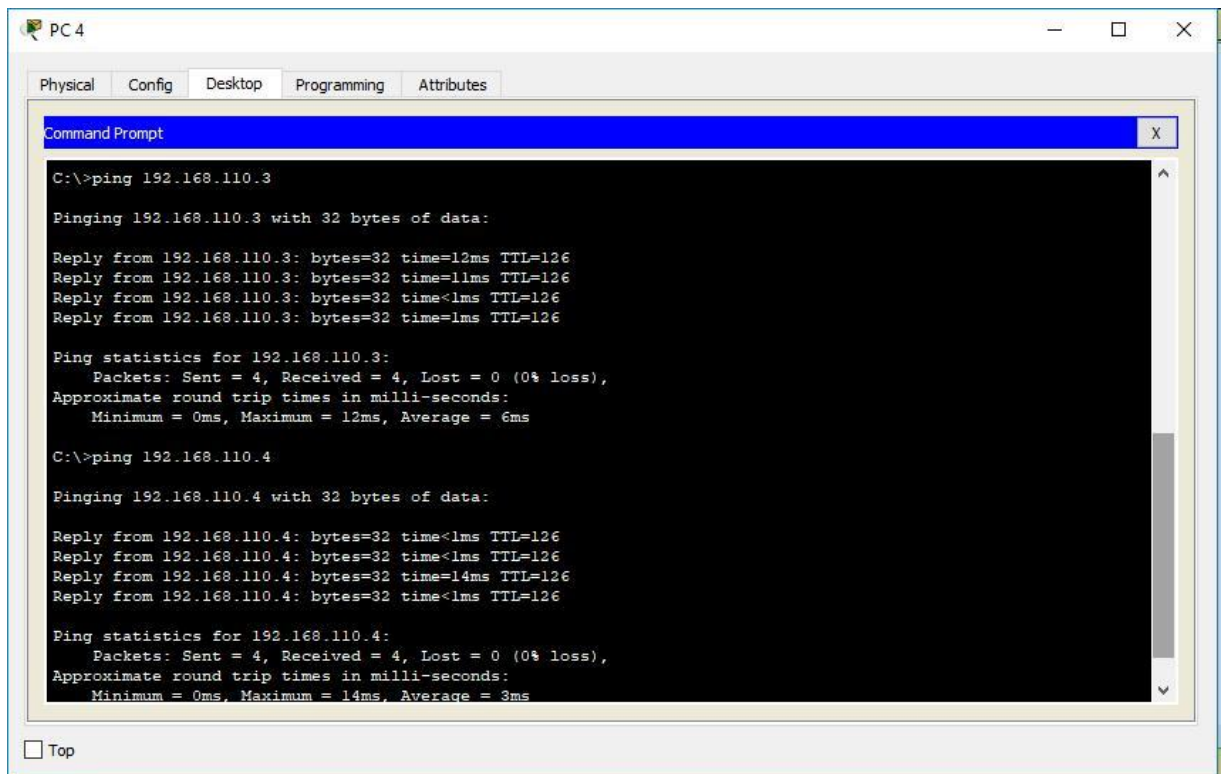
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.

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

C:\>
```

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11. MELAKUKAN TEST KONEKSI DARI PC4 KE PC1 DAN PC2



PC4

Physical Config Desktop Programming Attributes

Command Prompt

```
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=12ms TTL=126
Reply from 192.168.110.3: bytes=32 time=11ms TTL=126
Reply from 192.168.110.3: bytes=32 time<1ms TTL=126
Reply from 192.168.110.3: bytes=32 time=1ms 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 = 0ms, Maximum = 12ms, Average = 6ms

C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

Reply from 192.168.110.4: bytes=32 time<1ms TTL=126
Reply from 192.168.110.4: bytes=32 time<1ms TTL=126
Reply from 192.168.110.4: bytes=32 time=14ms TTL=126
Reply from 192.168.110.4: bytes=32 time<1ms TTL=126

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 = 14ms, Average = 3ms

C:\>
```

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KEGIATAN 2. KONFIGURASI EXTENDED ACCESS LIST

