

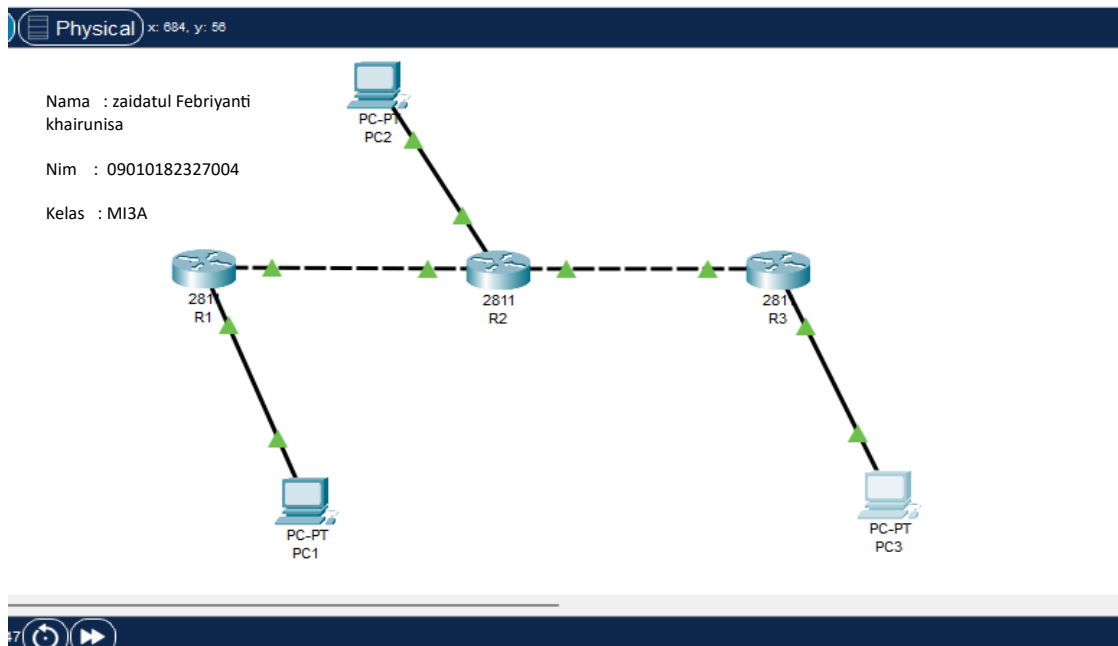
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Laparak Praktikum jarkom RIP & EIGRP Dynamic Routing

Topologi RIP



Konfigurasi R1

```
R1
Physical Config CLI Attributes
IOS Command Line Interface

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R1_09010182327004
R1_09010182327004(config)#interface fa0/0
R1_09010182327004(config-if)#ip address 192.168.1.1 255.255.255.0
R1_09010182327004(config-if)#no shutdown

R1_09010182327004(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/0, changed state to up

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

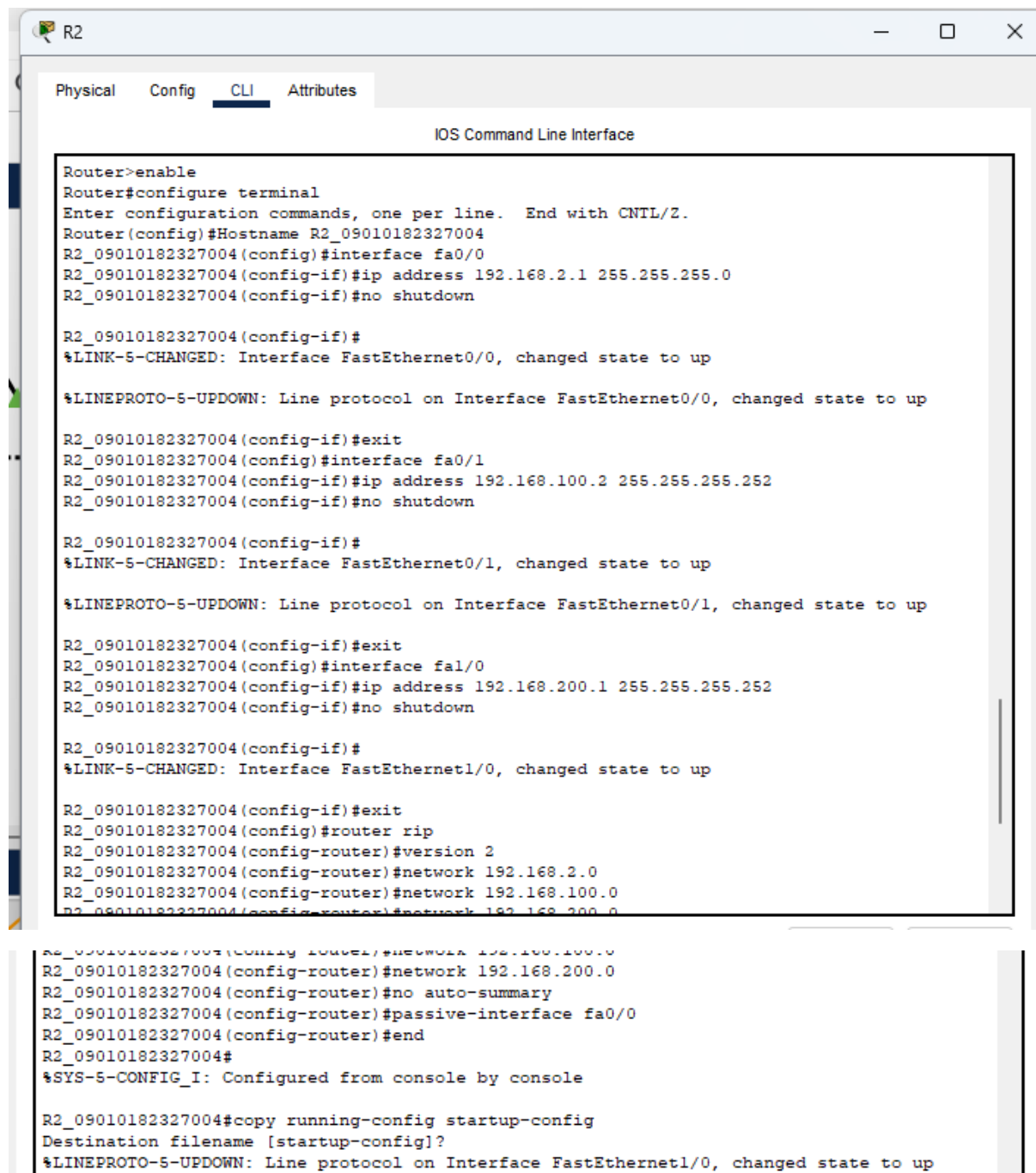
R1_09010182327004(config-if)#exit
R1_09010182327004(config)#interface fa0/1
R1_09010182327004(config-if)#ip address 192.168.100.1 255.255.255.252
R1_09010182327004(config-if)#no shutdown

R1_09010182327004(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/1, changed state to up

R1_09010182327004(config-if)#exit
R1_09010182327004(config)#router rip
R1_09010182327004(config-router)#version 2
R1_09010182327004(config-router)#network 192.168.1.0
R1_09010182327004(config-router)#network 192.168.100.0
R1_09010182327004(config-router)#no auto-summary
R1_09010182327004(config-router)#passive-interface fa0/0
R1_09010182327004(config-router)#end
R1_09010182327004#
%SYS-S-CONFIG_I: Configured from console by console

R1_09010182327004#copy running-config startup-config
Destination filename [startup-config]?
%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

Konfigurasi R2



```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R2_09010182327004
R2_09010182327004(config)#interface fa0/0
R2_09010182327004(config-if)#ip address 192.168.2.1 255.255.255.0
R2_09010182327004(config-if)#no shutdown

R2_09010182327004(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

R2_09010182327004(config-if)#exit
R2_09010182327004(config)#interface fa0/1
R2_09010182327004(config-if)#ip address 192.168.100.2 255.255.255.252
R2_09010182327004(config-if)#no shutdown

R2_09010182327004(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

R2_09010182327004(config-if)#exit
R2_09010182327004(config)#interface fa1/0
R2_09010182327004(config-if)#ip address 192.168.200.1 255.255.255.252
R2_09010182327004(config-if)#no shutdown

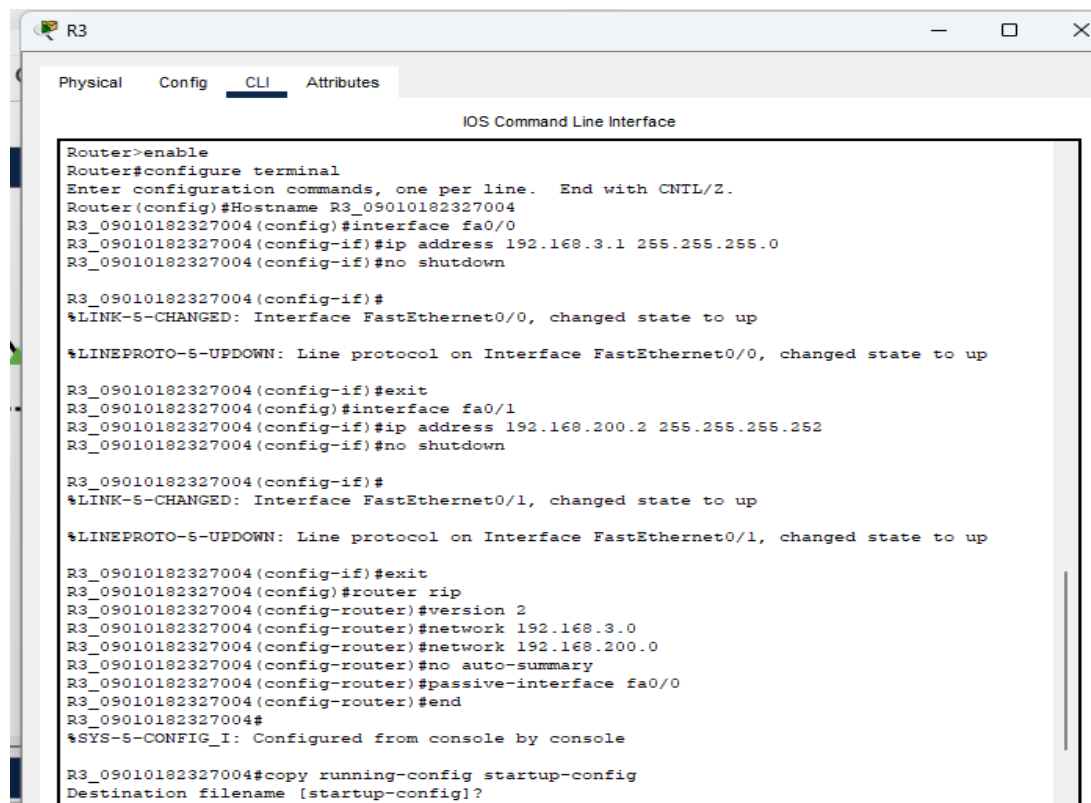
R2_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

R2_09010182327004(config-if)#exit
R2_09010182327004(config)#router rip
R2_09010182327004(config-router)#version 2
R2_09010182327004(config-router)#network 192.168.2.0
R2_09010182327004(config-router)#network 192.168.100.0
R2_09010182327004(config-router)#network 192.168.200.0

R2_09010182327004(config-router)#network 192.168.100.0
R2_09010182327004(config-router)#network 192.168.200.0
R2_09010182327004(config-router)#no auto-summary
R2_09010182327004(config-router)#passive-interface fa0/0
R2_09010182327004(config-router)#end
R2_09010182327004#
%SYS-5-CONFIG_I: Configured from console by console

R2_09010182327004#copy running-config startup-config
Destination filename [startup-config]?
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
```

Konfigurasi R3



```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R3_09010182327004
R3_09010182327004(config)#interface fa0/0
R3_09010182327004(config-if)#ip address 192.168.3.1 255.255.255.0
R3_09010182327004(config-if)#no shutdown

R3_09010182327004(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

R3_09010182327004(config-if)#exit
R3_09010182327004(config)#interface fa0/1
R3_09010182327004(config-if)#ip address 192.168.200.2 255.255.255.252
R3_09010182327004(config-if)#no shutdown

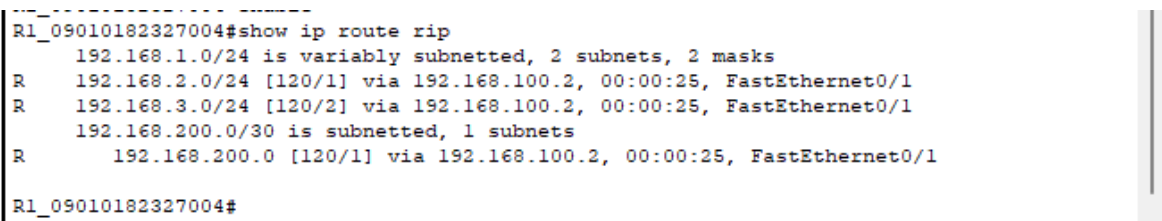
R3_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

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

R3_09010182327004(config-if)#exit
R3_09010182327004(config)#router rip
R3_09010182327004(config-router)#version 2
R3_09010182327004(config-router)#network 192.168.3.0
R3_09010182327004(config-router)#network 192.168.200.0
R3_09010182327004(config-router)#no auto-summary
R3_09010182327004(config-router)#passive-interface fa0/0
R3_09010182327004(config-router)#end
R3_09010182327004#
%SYS-5-CONFIG_I: Configured from console by console

R3_09010182327004#copy running-config startup-config
Destination filename [startup-config]?
..
```

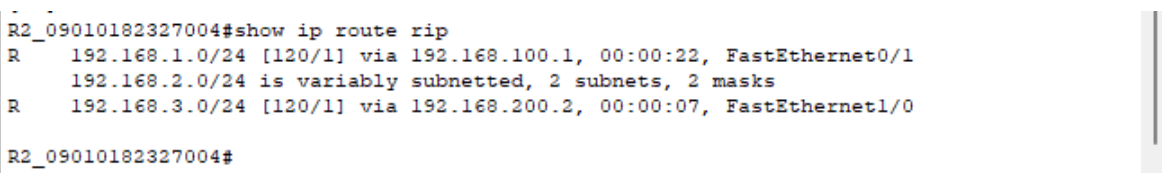
- Show ip route rip R1



```
R1_09010182327004#show ip route rip
      192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
R       192.168.2.0/24 [120/1] via 192.168.100.2, 00:00:25, FastEthernet0/1
R       192.168.3.0/24 [120/2] via 192.168.100.2, 00:00:25, FastEthernet0/1
      192.168.200.0/30 is subnetted, 1 subnets
R       192.168.200.0 [120/1] via 192.168.100.2, 00:00:25, FastEthernet0/1

R1_09010182327004#
```

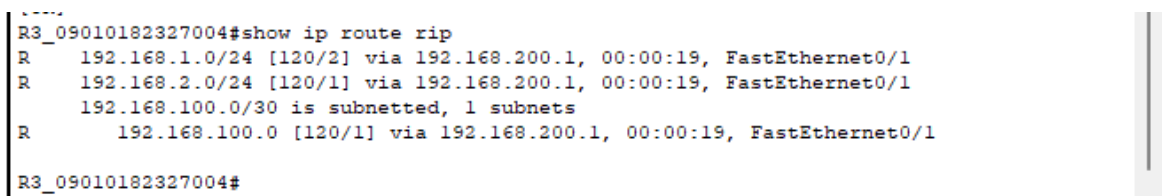
- Show ip route rip R2



```
R2_09010182327004#show ip route rip
R       192.168.1.0/24 [120/1] via 192.168.100.1, 00:00:22, FastEthernet0/1
      192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
R       192.168.3.0/24 [120/1] via 192.168.200.2, 00:00:07, FastEthernet1/0

R2_09010182327004#
```

- Show ip route rip R3



```
R3_09010182327004#show ip route rip
R       192.168.1.0/24 [120/2] via 192.168.200.1, 00:00:19, FastEthernet0/1
R       192.168.2.0/24 [120/1] via 192.168.200.1, 00:00:19, FastEthernet0/1
      192.168.100.0/30 is subnetted, 1 subnets
R       192.168.100.0 [120/1] via 192.168.200.1, 00:00:19, FastEthernet0/1

R3_09010182327004#
```

No	Sumber	Tujuan	Hasil	
			Ya	Tidak
1	PC1	PC2	Ya	
		PC3	Ya	

2	PC2	PC1	Ya	
		PC3	Ya	

3	PC3	PC1	Ya	
		PC2	Ya	

Hasil Ping dari PC 1 ke PC2 dan 3

```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=33ms TTL=128
Reply from 192.168.1.10: bytes=32 time=37ms TTL=128
Reply from 192.168.1.10: bytes=32 time=6ms TTL=128

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 37ms, Average = 19ms

C:\>ping 192.168.2.10

Pinging 192.168.2.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
  
```

```

C:\>ping 192.168.3.10

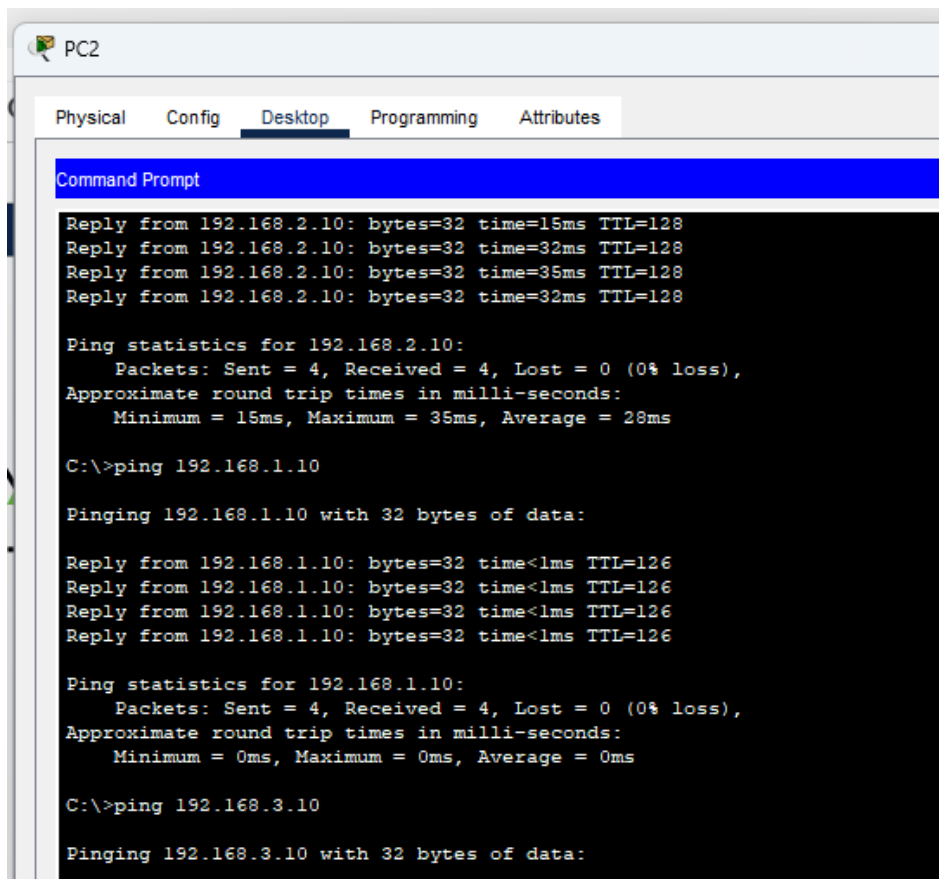
Pinging 192.168.3.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.10: bytes=32 time=11ms TTL=125
Reply from 192.168.3.10: bytes=32 time=12ms TTL=125
Reply from 192.168.3.10: bytes=32 time=35ms TTL=125

Ping statistics for 192.168.3.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 35ms, Average = 19ms

C:\>
  
```

Hasil Ping dari PC2 ke PC1 dan PC 3



The screenshot shows a Cisco Packet Tracer PC window for PC2. The 'Desktop' tab is active, displaying a Command Prompt window. The Command Prompt shows the results of four ping commands. The first command is a continuous ping to 192.168.2.10, showing four successful replies with times between 15ms and 35ms. The second command is a single ping to 192.168.1.10, showing a successful reply with a time of less than 1ms. The third command is a single ping to 192.168.3.10, showing a successful reply with a time of less than 1ms. The fourth command is a continuous ping to 192.168.2.10, showing four successful replies with times between 15ms and 35ms.

```
PC2
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.2.10: bytes=32 time=15ms TTL=128
Reply from 192.168.2.10: bytes=32 time=32ms TTL=128
Reply from 192.168.2.10: bytes=32 time=35ms TTL=128
Reply from 192.168.2.10: bytes=32 time=32ms TTL=128

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 15ms, Maximum = 35ms, Average = 28ms

C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

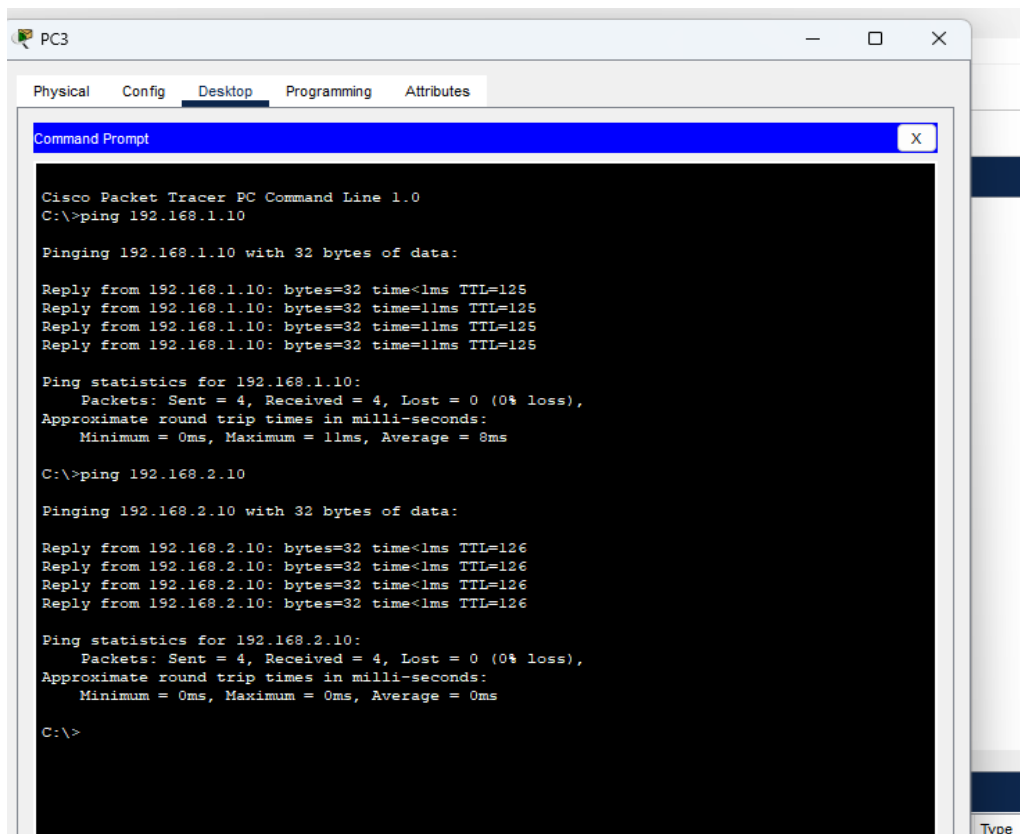
Reply from 192.168.1.10: bytes=32 time<1ms TTL=126
Reply from 192.168.1.10: bytes=32 time<1ms TTL=126
Reply from 192.168.1.10: bytes=32 time<1ms TTL=126
Reply from 192.168.1.10: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.3.10

Pinging 192.168.3.10 with 32 bytes of data:
```

Hasil ping PC3 ke PC1 dan PC2



The screenshot shows a Cisco Packet Tracer PC window for PC3. The 'Desktop' tab is active, displaying a Command Prompt window. The Command Prompt shows the results of four ping commands. The first command is a continuous ping to 192.168.1.10, showing four successful replies with times between 11ms and 125ms. The second command is a single ping to 192.168.2.10, showing a successful reply with a time of less than 1ms. The third command is a single ping to 192.168.2.10, showing a successful reply with a time of less than 1ms. The fourth command is a continuous ping to 192.168.2.10, showing four successful replies with times between 15ms and 35ms.

```
PC3
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time=125ms TTL=125
Reply from 192.168.1.10: bytes=32 time=11ms TTL=125
Reply from 192.168.1.10: bytes=32 time=11ms TTL=125
Reply from 192.168.1.10: bytes=32 time=11ms TTL=125

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 8ms

C:\>ping 192.168.2.10

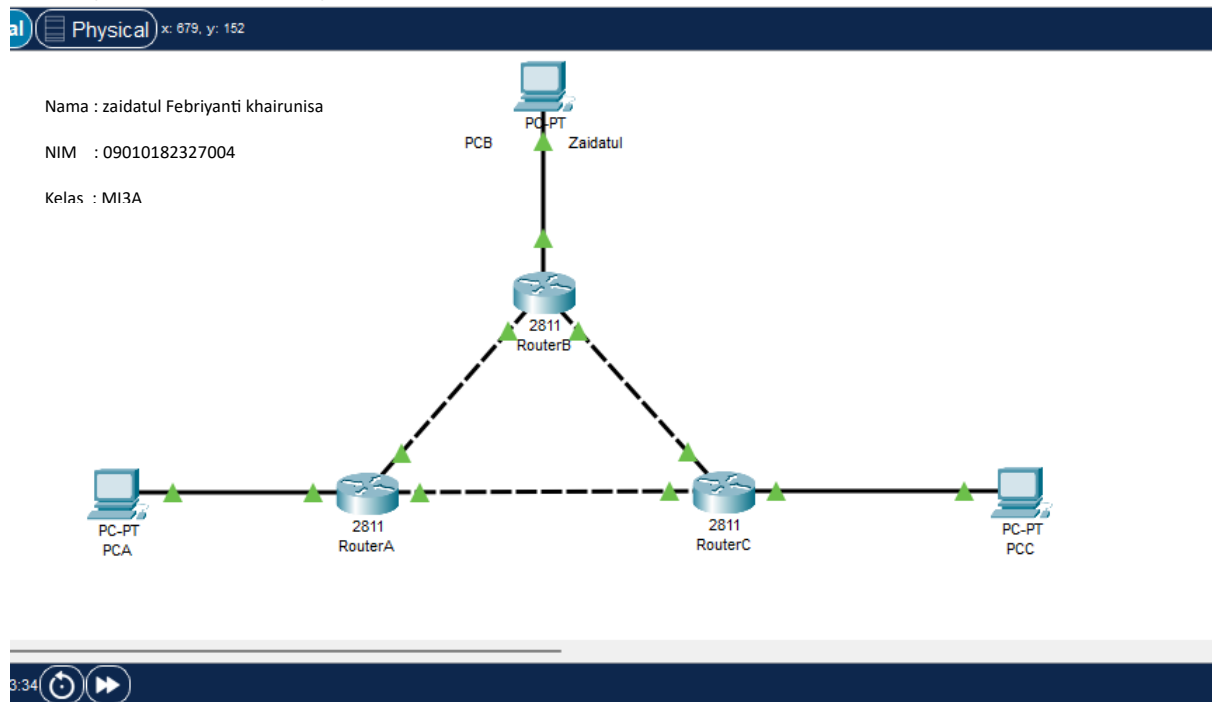
Pinging 192.168.2.10 with 32 bytes of data:

Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126

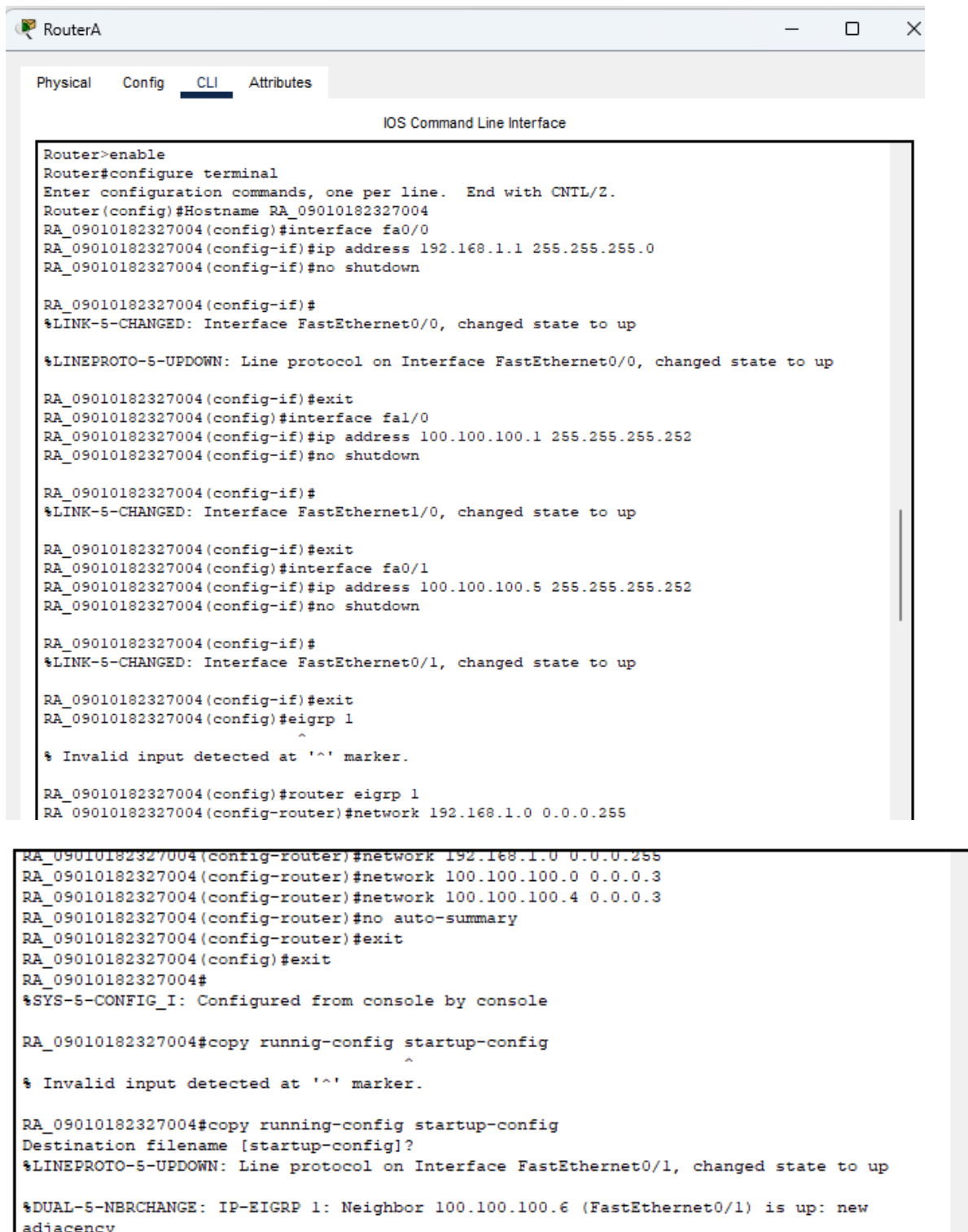
Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Topologi EIGRP



Konfigurasi router A



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

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname RA_09010182327004
RA_09010182327004(config)#interface fa0/0
RA_09010182327004(config-if)#ip address 192.168.1.1 255.255.255.0
RA_09010182327004(config-if)#no shutdown

RA_09010182327004(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

RA_09010182327004(config-if)#exit
RA_09010182327004(config)#interface fa1/0
RA_09010182327004(config-if)#ip address 100.100.100.1 255.255.255.252
RA_09010182327004(config-if)#no shutdown

RA_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

RA_09010182327004(config-if)#exit
RA_09010182327004(config)#interface fa0/1
RA_09010182327004(config-if)#ip address 100.100.100.5 255.255.255.252
RA_09010182327004(config-if)#no shutdown

RA_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

RA_09010182327004(config-if)#exit
RA_09010182327004(config)#eigrp 1
^
% Invalid input detected at '^' marker.

RA_09010182327004(config)#router eigrp 1
RA_09010182327004(config-router)#network 192.168.1.0 0.0.0.255

RA_09010182327004(config-router)#network 192.168.1.0 0.0.0.255
RA_09010182327004(config-router)#network 100.100.100.0 0.0.0.3
RA_09010182327004(config-router)#network 100.100.100.4 0.0.0.3
RA_09010182327004(config-router)#no auto-summary
RA_09010182327004(config-router)#exit
RA_09010182327004(config)#exit
RA_09010182327004#
%SYS-5-CONFIG_I: Configured from console by console

RA_09010182327004#copy runnig-config startup-config
^
% Invalid input detected at '^' marker.

RA_09010182327004#copy running-config startup-config
Destination filename [startup-config]?
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 100.100.100.6 (FastEthernet0/1) is up: new adjacency
```

Konfigurasi router B

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

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname RB_09010182327004
RB_09010182327004(config)#interface fa0/0
RB_09010182327004(config-if)#ip address 192.168.2.1 255.255.255.0
RB_09010182327004(config-if)#no shutdown

RB_09010182327004(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

RB_09010182327004(config-if)#exit
RB_09010182327004(config)#interface fa1/0
RB_09010182327004(config-if)#ip address 100.100.100.6 255.255.255.252
RB_09010182327004(config-if)#no shutdown

RB_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

RB_09010182327004(config-if)#exit
RB_09010182327004(config)#interface fa0/1
RB_09010182327004(config-if)#ip address 100.100.100.9 255.255.255.252
RB_09010182327004(config-if)#no shutdown

RB_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

RB_09010182327004(config-if)#exit
RB_09010182327004(config)#router eigrp 1
RB_09010182327004(config-router)#192.168.2.0 0.0.0.255
^
% Invalid input detected at '^' marker.
```

```
RB_09010182327004(config-router)#network 192.168.2.0 0.0.0.255
RB_09010182327004(config-router)#network 100.100.100.4 0.0.0.3
RB_09010182327004(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 100.100.100.5 (FastEthernet1/0) is up: new adjacency

RB_09010182327004(config-router)#network 100.100.100.8 0.0.0.3
RB_09010182327004(config-router)#no auto-summary
RB_09010182327004(config-router)#exit
RB_09010182327004(config)#copy running-config startup-config
^
% Invalid input detected at '^' marker.

RB_09010182327004(config)#exit
RB_09010182327004#
%SYS-5-CONFIG_I: Configured from console by console

RB_09010182327004#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
```

Konfigurasi router C

RouterC

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname RC_09010182327004
RC_09010182327004(config)#interface fa0/0
RC_09010182327004(config-if)#ip address 192.168.3.1 255.255.255.0
RC_09010182327004(config-if)#no shutdown

RC_09010182327004(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

RC_09010182327004(config-if)#exit
RC_09010182327004(config)#interface fa1/0
RC_09010182327004(config-if)#ip address 100.100.100.10 255.255.255.252
RC_09010182327004(config-if)#no shutdown

RC_09010182327004(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

RC_09010182327004(config-if)#exit
RC_09010182327004(config)#interface fa0/1
RC_09010182327004(config-if)#ip address 100.100.100.2 255.255.255.252
RC_09010182327004(config-if)#no shutdown

RC_09010182327004(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

RC_09010182327004(config-if)#exit
RC_09010182327004(config)#router eigrp 1

RC_09010182327004(config)#router eigrp 1
RC_09010182327004(config-router)#network 192.168.3.0 0.0.0.255
RC_09010182327004(config-router)#network 100.100.100.8 0.0.0.3
RC_09010182327004(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 100.100.100.9 (FastEthernet1/0) is up: new adjacency
network 100.100.100.8 0.0.0.3
RC_09010182327004(config-router)#network 100.100.100.0 0.0.0.3
RC_09010182327004(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 100.100.100.1 (FastEthernet0/1) is up: new adjacency

RC_09010182327004(config-router)#no auto-summary
RC_09010182327004(config-router)#end
RC_09010182327004#
%SYS-5-CONFIG_I: Configured from console by console

RC_09010182327004#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
```

Show ip route rip Router A

```

RA_09010182327004#show ip route eigrp
  100.0.0.0/8 is variably subnetted, 5 subnets, 2 masks
D    100.100.100.8/30 [90/30720] via 100.100.100.6, 00:04:35, FastEthernet0/1
      [90/30720] via 100.100.100.2, 00:01:41, FastEthernet1/0
  192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
D    192.168.2.0/24 [90/30720] via 100.100.100.6, 00:11:11, FastEthernet0/1
D    192.168.3.0/24 [90/30720] via 100.100.100.2, 00:01:41, FastEthernet1/0

RA_09010182327004#

```

Show ip route rip Router B

```

RB_09010182327004#show ip route eigrp
  100.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
D    192.168.1.0/24 [90/30720] via 100.100.100.5, 00:02:19, FastEthernet1/0

RB_09010182327004#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

```

Show ip route rip Router C

```

RC_09010182327004#show ip route eigrp
  100.0.0.0/8 is variably subnetted, 5 subnets, 2 masks
D    100.100.100.4/30 [90/30720] via 100.100.100.9, 00:01:24, FastEthernet1/0
      [90/30720] via 100.100.100.1, 00:01:05, FastEthernet0/1
D    192.168.1.0/24 [90/30720] via 100.100.100.1, 00:01:05, FastEthernet0/1
D    192.168.2.0/24 [90/30720] via 100.100.100.9, 00:01:24, FastEthernet1/0

```

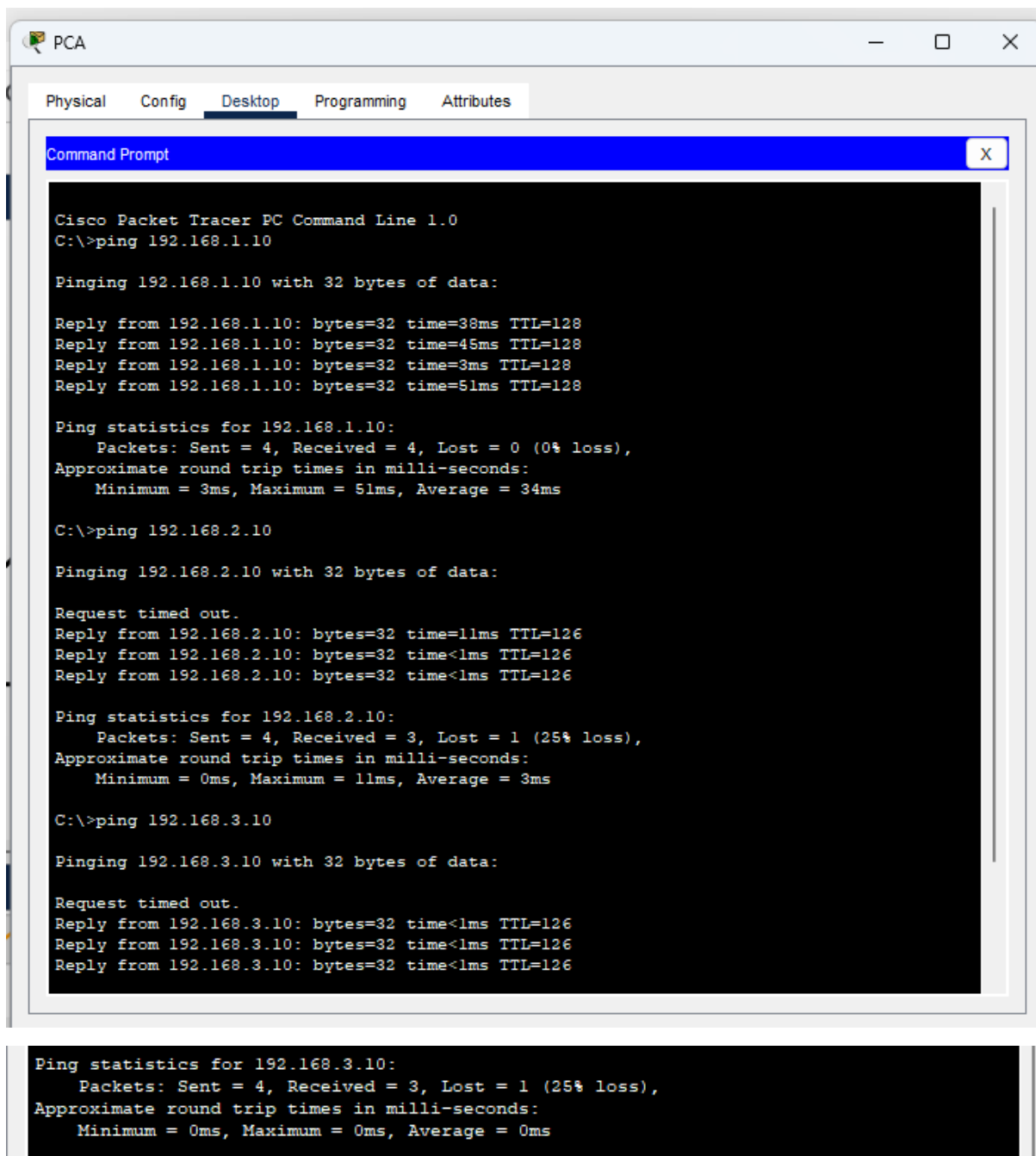
Ping

No	Sumber	Tujuan	Hasil	
			Ya	Tidak
1	PCA	PCB	Ya	
		PCC	Ya	

2	PCB	PCA	Ya	
		PCC	Ya	

3	PCC	PCA	Ya	
		PCB	Ya	

Hasil ping dari router A ke B dan C



The screenshot shows a Cisco Packet Tracer PC Command Line window for a device named PCA. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with Desktop selected. The Command Prompt shows the following output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time=38ms TTL=128
Reply from 192.168.1.10: bytes=32 time=45ms TTL=128
Reply from 192.168.1.10: bytes=32 time=3ms TTL=128
Reply from 192.168.1.10: bytes=32 time=51ms TTL=128

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 51ms, Average = 34ms

C:\>ping 192.168.2.10

Pinging 192.168.2.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.10: bytes=32 time=11ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 3ms

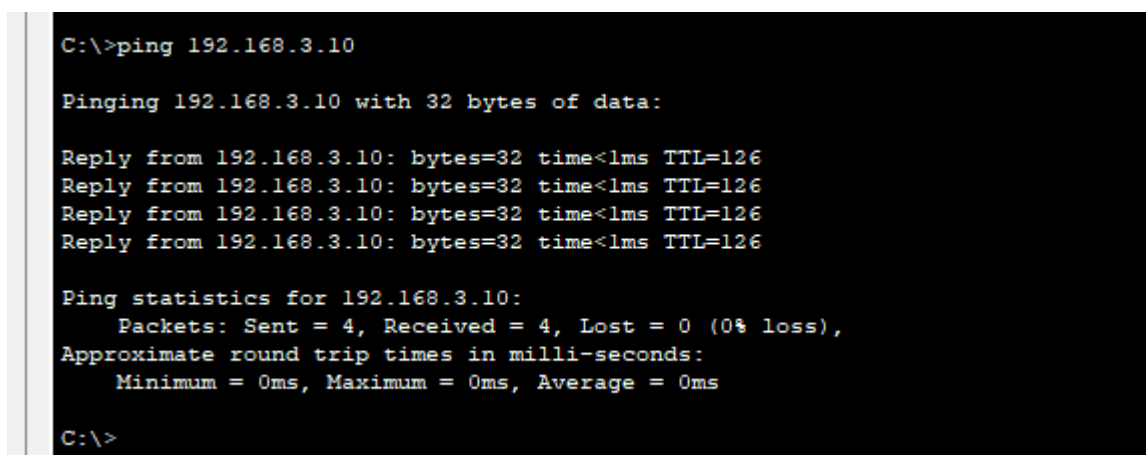
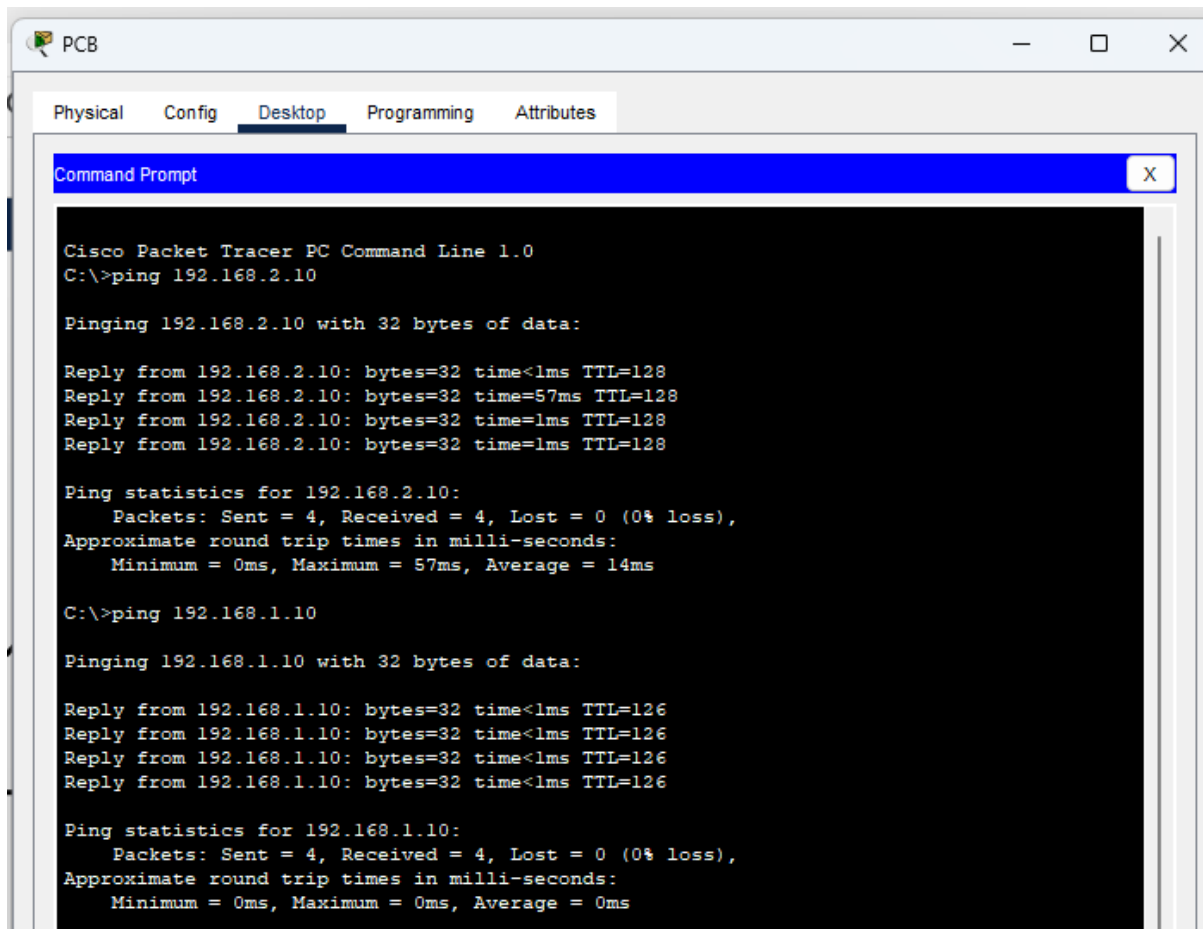
C:\>ping 192.168.3.10

Pinging 192.168.3.10 with 32 bytes of data:

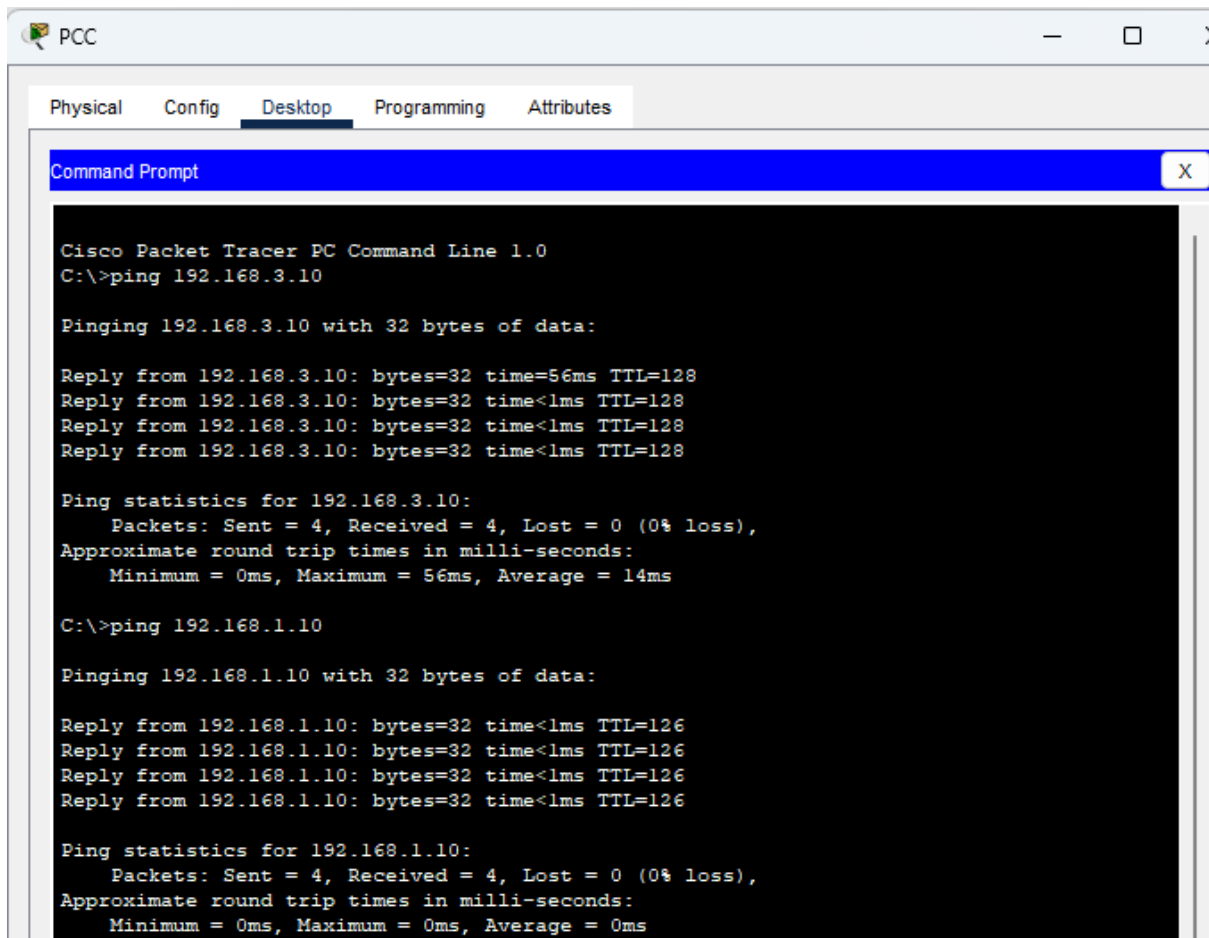
Request timed out.
Reply from 192.168.3.10: bytes=32 time<1ms TTL=126
Reply from 192.168.3.10: bytes=32 time<1ms TTL=126
Reply from 192.168.3.10: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.3.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Hasil ping dari router B ke A dan C



Hasil ping dari PCC ke PCA dan PCB



```
C:\>ping 192.168.2.10

Pinging 192.168.2.10 with 32 bytes of data:

Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126
Reply from 192.168.2.10: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

Penjelasan Hasil Praktikum

Pada praktikum ini, dilakukan konfigurasi routing menggunakan dua protokol dinamis, yaitu Routing Information Protocol (RIP) dan Enhanced Interior Gateway Routing Protocol (EIGRP). Praktikum dimulai dengan membuat topologi jaringan sesuai diagram pada modul, di mana setiap router dikonfigurasi IP Address pada antarmuka yang berbeda. Pengujian koneksi dilakukan menggunakan perintah ping dan traceroute untuk memverifikasi konektivitas antar perangkat di jaringan.

1. **RIP Configuration:** Router R1, R2, dan R3 dikonfigurasi dengan protokol RIP versi 2 untuk memungkinkan pembagian informasi routing secara dinamis. Setelah konfigurasi, hasil perintah `show ip route rip` menunjukkan tabel routing yang dihasilkan oleh protokol RIP di setiap router.
2. **EIGRP Configuration:** Topologi diubah untuk konfigurasi EIGRP antara RouterA, RouterB, dan RouterC. Protokol EIGRP memungkinkan penggunaan nomor Autonomous System (AS) dan lebih efisien dibanding RIP dalam pembagian informasi routing.

Analisis

Praktikum ini menunjukkan perbandingan antara RIP dan EIGRP dalam hal konfigurasi, fleksibilitas, dan efisiensi dalam pembagian informasi routing:

- **RIP** terbatas pada jarak maksimum (hops), sehingga kurang cocok untuk jaringan skala besar. RIP melakukan update routing secara periodik, menyebabkan potensi penggunaan bandwidth lebih besar.
- **EIGRP** lebih efisien karena hanya mengirimkan perubahan topologi, bukan update penuh, yang membantu mengurangi penggunaan bandwidth. EIGRP juga menggunakan metrik yang lebih kompleks (bandwidth dan delay), memberikan kontrol routing yang lebih baik di jaringan besar.

Kesimpulan

Praktikum ini memberikan pemahaman tentang penggunaan dan konfigurasi RIP dan EIGRP. RIP sederhana namun memiliki keterbatasan untuk jaringan besar, sedangkan EIGRP lebih cocok untuk jaringan besar dengan efisiensi yang lebih tinggi. EIGRP mampu menjaga stabilitas jaringan dengan lebih baik karena hanya mengirimkan pembaruan jika ada perubahan topologi.