

Nama : Ikhwan fahmi T

NIM : L200170174

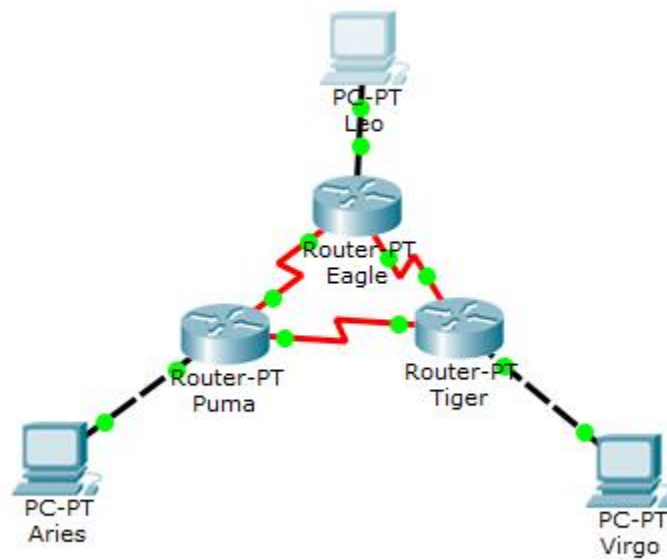
Kelas : D

Modul : 7

Praktikum

1 Tampilan CPT dan

2 Nama masing- masing router



3 Konfigurasi

Router 1 (eagle)

Ethernet 0

```
Eagle#enable
Eagle#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Eagle(config)#int fa 0/0
Eagle(config-if)#ip add 172.21.10.10 255.255.255.0
Eagle(config-if)#no shut
```

Serial 0

```
Eagle(config)#interface Serial2/0
Eagle(config-if)#clock rate
% Incomplete command.
Eagle(config-if)#clock rate 2000000
Eagle(config-if)#ip address 172.21.1.100 255.255.255.0
Eagle(config-if)#no shut
```

Router 2(Puma)

Ethernet 0

```
Puma>enable
Puma#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Puma(config)#int fa 0/0
Puma(config-if)#ip add 172.21.20.20 255.255.255.0
Puma(config-if)#no shut
```

Serial 0

```
% Incomplete command.
Puma(config)#interface Serial2/0
Puma(config-if)#ip add 172.21.3.2 255.255.255.0
Puma(config-if)#no shut
```

Router 3 (Tiger)

Ethernet 0

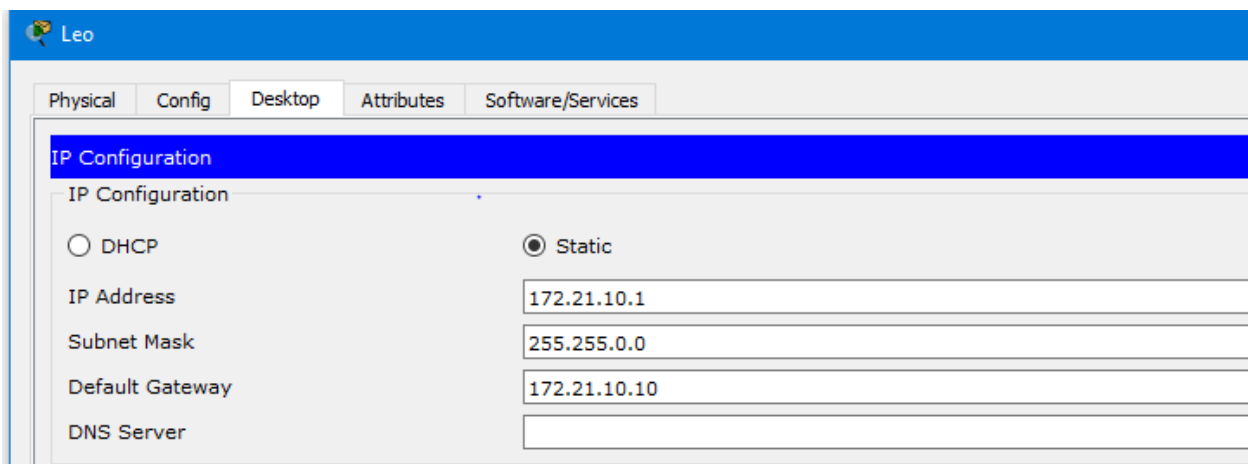
```
Tiger>en
Tiger#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Tiger(config)#int fa0/0
Tiger(config-if)#ip add 172.21.30.30 255.255.255.0
Tiger(config-if)#no shut
```

Serial 0

```
Tiger(config-if)#exit
Tiger(config)#interface Serial2/0
Tiger(config-if)#ip add 172.21.2.3 255.255.255.0
Tiger(config-if)#no shut
```

4 Konfigurasi nama dan alamat ip PC

Leo



The screenshot shows the 'Leo' configuration window with the 'Config' tab selected. The 'IP Configuration' section is expanded, showing the 'Static' radio button selected. The fields are filled with the following values:

Field	Value
IP Address	172.21.10.1
Subnet Mask	255.255.0.0
Default Gateway	172.21.10.10
DNS Server	

Aries

The screenshot shows the 'Aries' network configuration window. The 'Config' tab is selected, and the 'IP Configuration' section is highlighted. The configuration is set to 'Static' with the following values:

Field	Value
IP Address	172.21.20.2
Subnet Mask	255.255.0.0
Default Gateway	172.21.20.20
DNS Server	

Virgo

The screenshot shows the 'Virgo' network configuration window. The 'Config' tab is selected, and the 'IP Configuration' section is highlighted. The configuration is set to 'Static' with the following values:

Field	Value
IP Address	172.21.30.3
Subnet Mask	255.255.0.0
Default Gateway	172.21.30.30
DNS Server	

5 Uji konfigurasi

Ping PC Leo ke router Eagle

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=68ms TTL=255
Reply from 172.21.1.1: bytes=32 time=81ms TTL=255
Reply from 172.21.1.1: bytes=32 time<1ms TTL=255
Reply from 172.21.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 81ms, Average = 37ms

C:\>|
```

Ping Aries ke router Puma

```
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Reply from 172.21.1.2: bytes=32 time=70ms TTL=255
Reply from 172.21.1.2: bytes=32 time<1ms TTL=255
Reply from 172.21.1.2: bytes=32 time=15ms TTL=255
Reply from 172.21.1.2: bytes=32 time=16ms TTL=255

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 70ms, Average = 25ms
```

Ping PC Virgo ke router Tiger

```
C:\>ping 172.21.2.3

Pinging 172.21.2.3 with 32 bytes of data:

Reply from 172.21.2.3: bytes=32 time=67ms TTL=255
Reply from 172.21.2.3: bytes=32 time<1ms TTL=255
Reply from 172.21.2.3: bytes=32 time=16ms TTL=255
Reply from 172.21.2.3: bytes=32 time=16ms TTL=255

Ping statistics for 172.21.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 67ms, Average = 24ms
```

Ping router Eagle ke router Puma

```
-----
Router#ping 172.21.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.1.2, timeout is 2
seconds:
.....
Success rate is 0 percent (0/5)
```

Ping router Eagle ke Tiger

```
Router#ping 172.21.2.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.2.3, timeout is 2
seconds:
.....
Success rate is 0 percent (0/5)
```

Ping router Puma ke Tiger

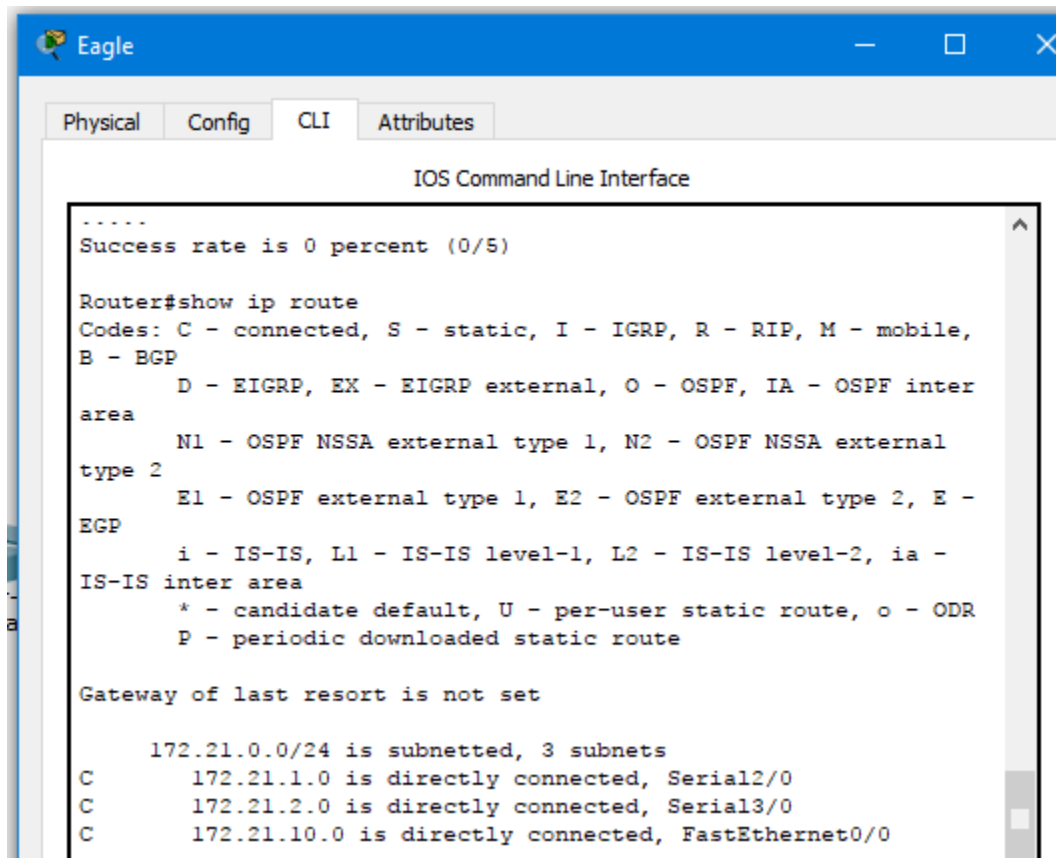
```
Router#ping 172.21.3.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.3.3, timeout is 2
seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max =
1/6/30 ms
```

6 Simpan konfigurasi

7 show ip route masing- masing Router

Router Eagle



The screenshot shows the Eagle network simulator window. The 'CLI' tab is selected, displaying the 'IOS Command Line Interface'. The output of the 'show ip route' command is shown, including a success rate of 0 percent (0/5) and a list of routes. The routes are categorized by code: 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), and P (periodic downloaded static route). The gateway of last resort is not set. The routes are listed as follows:

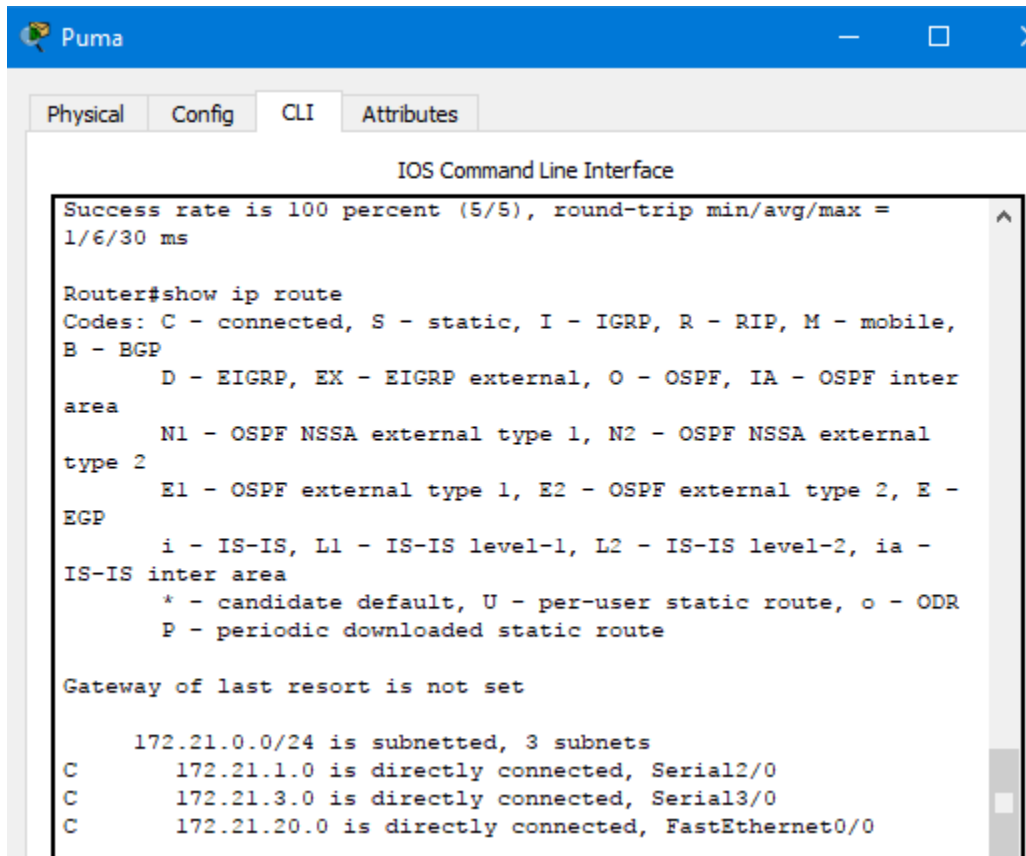
```
.....
Success rate is 0 percent (0/5)

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

      172.21.0.0/24 is subnetted, 3 subnets
C        172.21.1.0 is directly connected, Serial2/0
C        172.21.2.0 is directly connected, Serial3/0
C        172.21.10.0 is directly connected, FastEthernet0/0
```

Router Puma



The screenshot shows a window titled "Puma" with four tabs: "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, displaying the "IOS Command Line Interface". The output of the command "Router#show ip route" is shown, including success rates, route codes, and a list of connected subnets.

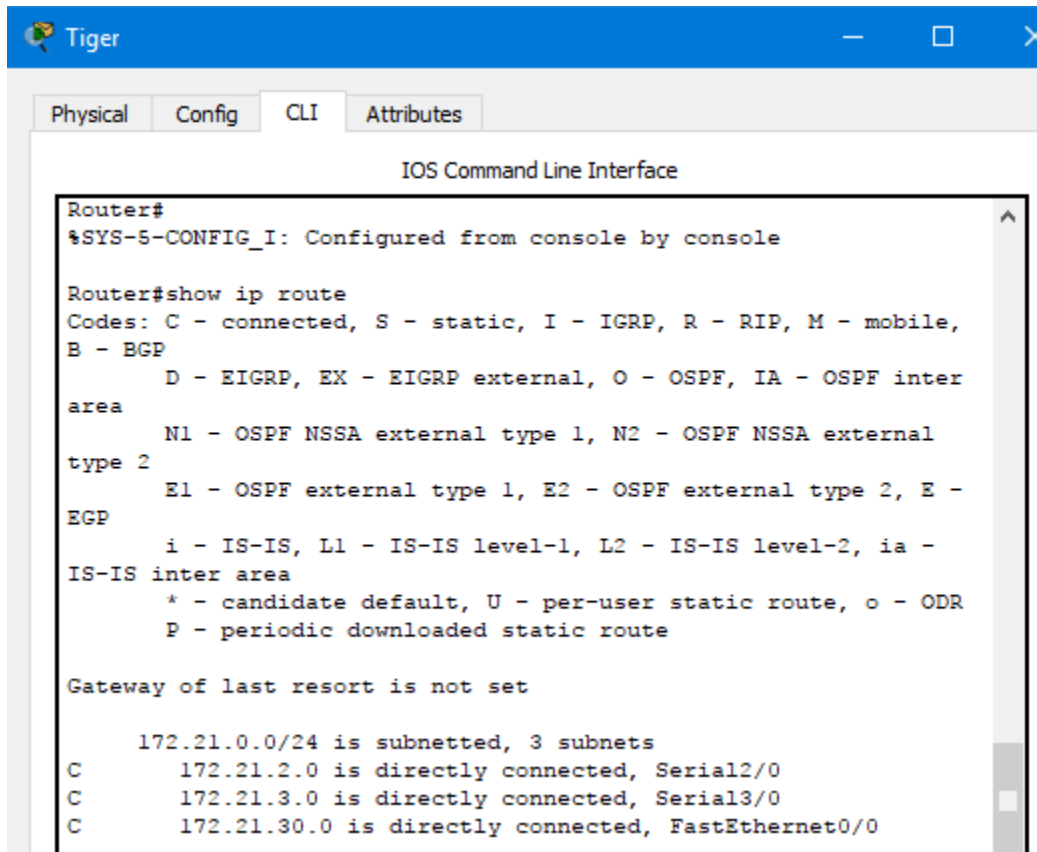
```
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/6/30 ms

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

      172.21.0.0/24 is subnetted, 3 subnets
C        172.21.1.0 is directly connected, Serial2/0
C        172.21.3.0 is directly connected, Serial3/0
C        172.21.20.0 is directly connected, FastEthernet0/0
```


Router Tiger



The screenshot shows a window titled "Tiger" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". The prompt is "Router#". The first command entered is "%SYS-5-CONFIG_I: Configured from console by console". The second command is "Router#show ip route". The output lists various routing codes and their meanings: 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), and P (periodic downloaded static route). It also states "Gateway of last resort is not set". Finally, it shows the subnetting of 172.21.0.0/24 into 3 subnets: 172.21.2.0 (Serial2/0), 172.21.3.0 (Serial3/0), and 172.21.30.0 (FastEthernet0/0).

```
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

      172.21.0.0/24 is subnetted, 3 subnets
C       172.21.2.0 is directly connected, Serial2/0
C       172.21.3.0 is directly connected, Serial3/0
C       172.21.30.0 is directly connected, FastEthernet0/0
```

8 ping Eagle ke Puma

```
Router#ping 172.21.20.20

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.21.20.20, timeout is 2
seconds:
.....
Success rate is 0 percent (0/5)
```

9 tracert 172.21.20.2

```
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  1  *          *          *          Request timed out.
  2  *          *          *          Request timed out.
  3  *          *          *          Request timed out.
  4  *          *          *          Request timed out.
  5  *          *          *          Request timed out.
  6  *          *          *          Request timed out.
  7  *          *          *          Request timed out.
  8  *          *          *          Request timed out.
  9  *          *          *          Request timed out.
 10 *          *          *          Request timed out.
 11 *          *          *          Request timed out.
 12 *          *          *          Request timed out.
```

10 tracert 172.21.1.1

```
C:\>tracert 172.21.1.1

Tracing route to 172.21.1.1 over a maximum of 30 hops:

  1  1 ms      11 ms     0 ms      172.21.1.1

Trace complete.
```

11 penambahan route table

Route Eagle

```
Router#en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.1.2
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.2.3
Router(config)#
```

Route Puma

```
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.3.3
Router(config)#
```

Route Tiger

```
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
Router(config)#
```

12 Ping PC Leo ke Aries dan Trace dari PC Leo ke Aries

```
C:\>tracert 172.21.1.1

Tracing route to 172.21.1.1 over a maximum of 30 hops:

  1    0 ms    0 ms    0 ms    172.21.1.1

Trace complete.

C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

Reply from 172.21.20.2: bytes=32 time=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=2ms TTL=126
Reply from 172.21.20.2: bytes=32 time=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=1ms TTL=126

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

```
C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  1    0 ms    0 ms    0 ms    172.21.10.10
  2    1 ms    4 ms    13 ms   172.21.1.2
  3   13 ms    3 ms    10 ms   172.21.20.2

Trace complete.

C:\>
```

Kegiatan 2 RIP(Routing Information Protocol)

3. Proses konfigurasi

```
Router#en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#
```

4. Hasil 'show running-config'

```
Router(config-router)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show running-config
Building configuration...

Current configuration : 775 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
!
!
Router#
```

5. Hasil 'debug ip rip'

```
Router#debug ip rip
RIP protocol debugging is on
Router#RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
    network 172.21.2.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
    network 172.21.2.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
    network 172.21.2.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.10.0 metric 1
```

```

RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
    network 172.21.2.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
    network 172.21.2.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via FastEthernet0/0 (172.21.10.10)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
    network 172.21.2.0 metric 1
    network 172.21.10.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
    network 172.21.1.0 metric 1
    network 172.21.10.0 metric 1

```

6. Proses routing rip pada router puma dan tiger

Puma

```

Router#en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#

```

Tiger

```

Router#en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#

```

7. Trace dari PC Leo ke PC Aries

```
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

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

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:
```

8. Buat router Puma dan Tiger terputus

```
Router(config)#int se2/0
Router(config-if)#shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to
administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to down
```

9. Trace dari PC Leo ke PC Aries

```
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

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

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:
```

Kegiatan 3 IGRP (Interior Gateway Routing Protocol)

3. Proses konfigurasi

```
%SYS-5-CONFIG_I: Configured from console by console

Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

4. Hasil 'show running-conf'

```
Router#show running-conf
Building configuration...

Current configuration : 825 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
!
!
!
!
!
!
!
!
!
!
```



```
!  
interface FastEthernet0/0  
  ip address 172.21.20.20 255.255.255.0  
  duplex auto  
  speed auto  
!  
interface FastEthernet1/0  
  no ip address  
  duplex auto  
  speed auto  
  shutdown  
!  
interface Serial2/0  
  ip address 172.21.1.2 255.255.255.0  
  clock rate 2000000  
  shutdown  
!  
interface Serial3/0  
  ip address 172.21.3.2 255.255.255.0  
  clock rate 2000000  
!  
interface FastEthernet4/0  
  no ip address  
  shutdown  
!  
interface FastEthernet5/0  
  no ip address  
  shutdown  
!  
router eigrp 100  
  network 172.21.0.0  
  auto-summary  
!  
ip classless  
!  
ip flow-export version 9  
!  
!  
!
```

```
line con 0  
!  
line aux 0  
!  
line vty 0 4  
  login  
!  
!  
!  
end
```

5. hasil 'debug eigrp transactions

```
EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iadbQ un/rely 0/0
```

6.

7. Konfigurasi EIGRP pada router Puma dan Tiger

Puma

```
%SYS-5-CONFIG_1: Configured from console by console

Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Hasil konfigurasi

```
Router#show running-conf
Building configuration...

Current configuration : 825 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
!
!
!
!
!
!
!
!
!
!
```

Tiger

```
%SYS-5-CONFIG_I: Configured from console by console

Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Hasil Konfigurasi

```
Router#show running-conf
Building configuration...

Current configuration : 825 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
!
!
!
!
!
!
!
!
!
!
```

8. Lakukan Trace dari PC Leo ke PC Aries

```
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

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

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:
```

9. Buat hubungan router puma dan tiger terputus

```
Router(config)#int se2/0
Router(config-if)#shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to
administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to down
```

10. Trace PC Leo ke PC Aries

```
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

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

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:
```