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Ikatlah ilmu dengan menuliskannya

Menyetting Router RIP

Lutfi Nur Niswati

lutfinurniswati@gmail.com
http://luppippa.blogspot.com

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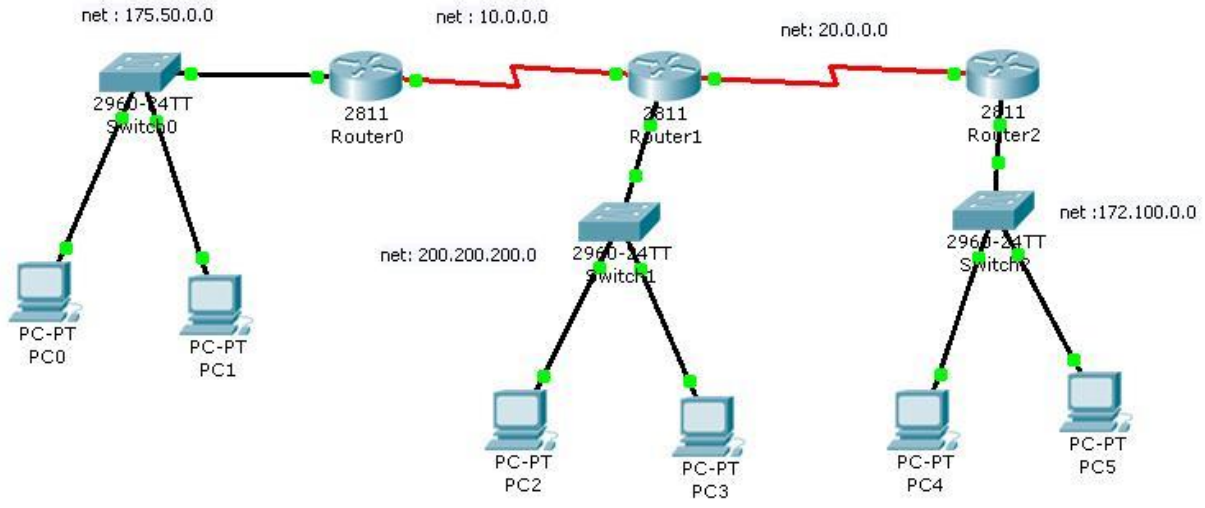
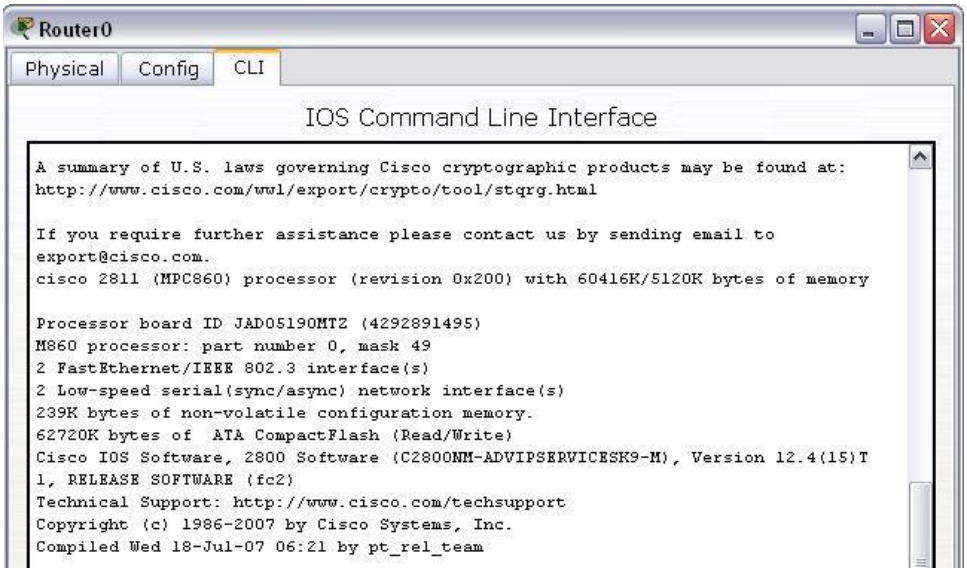


1. MENYETTING ROUTER DAN IP PC

A. Mengkonfigurasi Router 0



Continue with configuration dialog?[yes/no]:no

Press RETURN to get started!

Router>enable

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname Router0

Router0(config)#enable secret jarkom

Router0(config)#line con 0

Router0(config-line)#password cisco

Router0(config-line)#login

Router0(config-line)#exit

Router0(config)#line vty 0 4

Router0(config-line)#password cisco

Router0(config-line)#login

Router0(config-line)#exit

Router0(config)#interface FastEthernet0/0

Router0(config-if)#ip address 175.50.0.1 255.255.0.0

Router0(config-if)#description Router0 FastEthernet0/0

Router0(config-if)#no shutdown

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%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

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

Router0(config-if)#exit

Router0(config)#Router RIP

Router0(config-router) #network 175.50.0.0

Router0(config-router)#network 10.0.0.0

Router0(config-router)#exit

Router0(config)#interface serial0/3/0

Router0(config-if)#ip address 10.10.10.10 255.0.0.0

Router1(config-if)#no shut

Router1(config-if)#

%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up

Router0(config-if)#exit

Router0(config)#exit

Router0#

Router0#show running-config

----------melihat configurasi router0----------

Router0#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router0#exit

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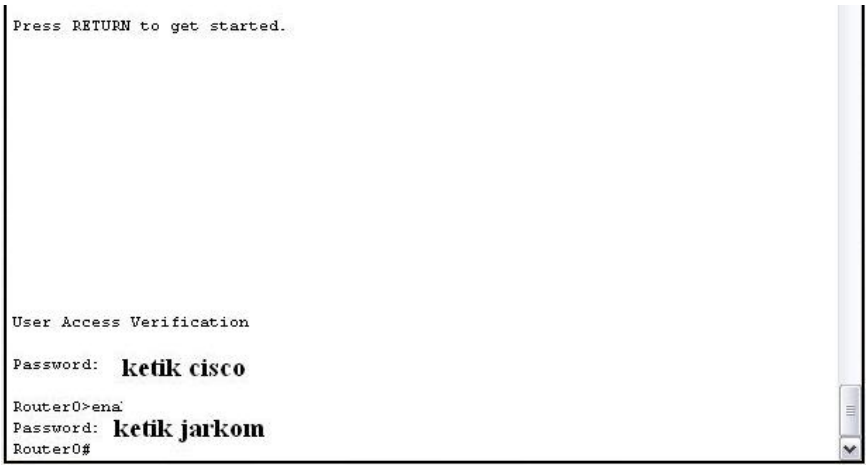


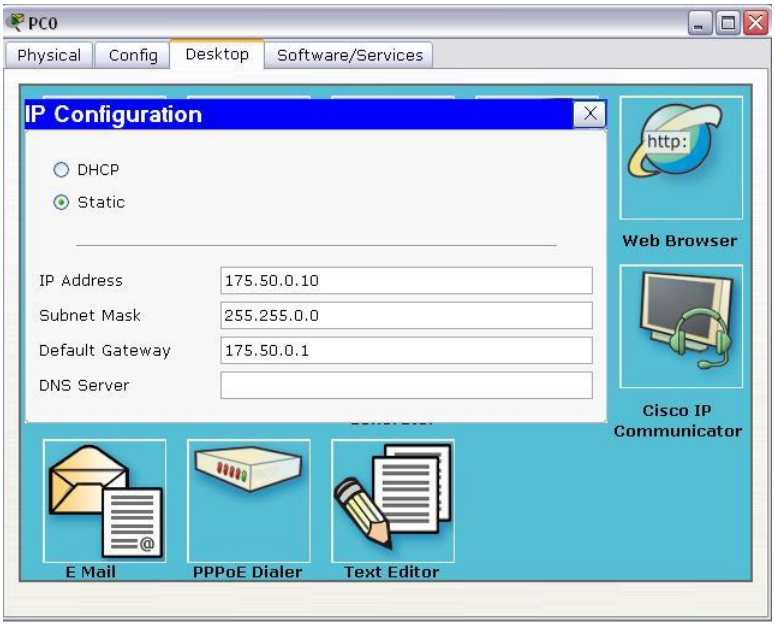
----mengkonfigurasi PC0----

Klik PC0

Pilih Dekstop

Pilih IP Configuration

Ketik konfigurasi PC0:



----menngconfigurasi PC1----

Klik PC1

Pilih Desktop

Pilih IP Configuration

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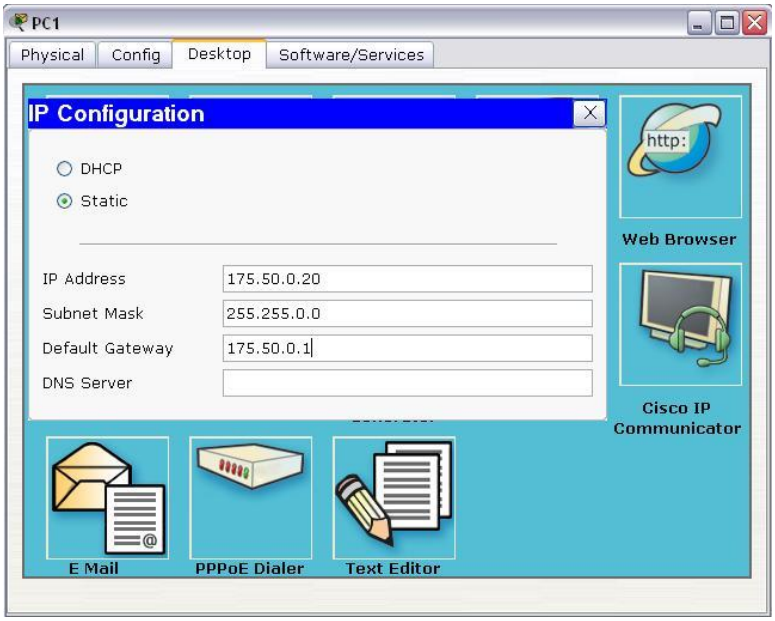
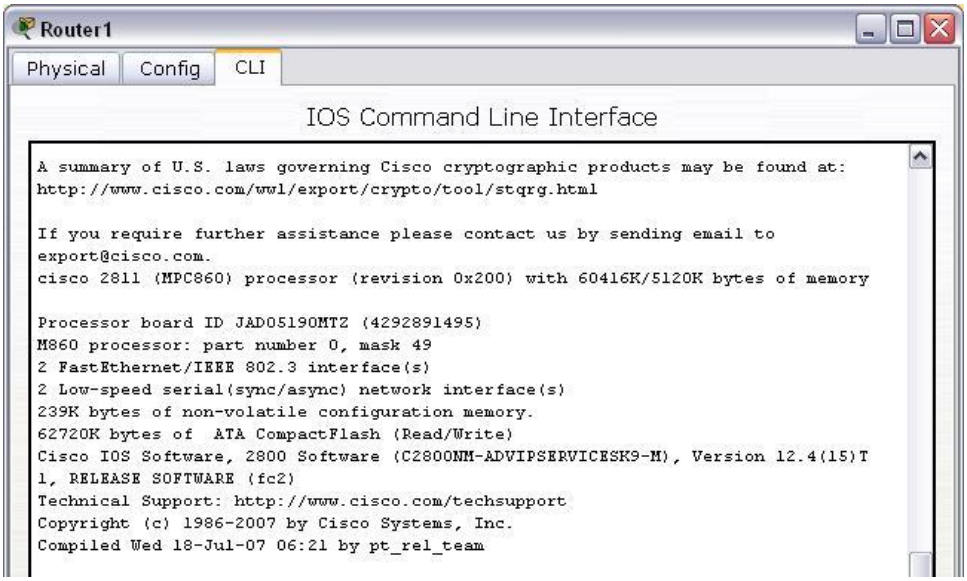
Ketik konfigurasi PC1:



B. Mengkonfigurasi Router1



--- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: no

Press RETURN to get started!

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```
Router>enable
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Router1
Router1(config)#enable secret jarkom1
Router1(config)#line con 0
Router1(config-line)#password cisco
Router1(config-line)#login
Router1(config-line)#exit
Router1(config)#line vty 0 4
Router1(config-line)#password cisco
Router1(config-line)#login
Router1(config-line)#exit
Router1(config)#interface FastEthernet0/0
Router1(config-if)#ip address 200.200.200.1 255.255.255.0
Router1(config-if)#description Router1 FastEthernet0/0
Router1(config-if)#no shutdown
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
Router1(config-if)#exit
outer1(config)#interface serial0/3/0
Router1(config-if)#ip address 20.10.10.10 255.0.0.0
Router1(config-if)#no shut
Router1(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
Router1(config-if)#exit
Router1(config)#interface serial0/3/1
Router1(config-if)#ip address 10.10.10.20 255.0.0.0
```


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Router1(config-if)#clock rate 64000

Router1(config-if)#exit

Router1(config)#router RIP

Router1(config-router)#network 10.0.0.0

Router1(config-router)#network 200.200.200.0

Router1(config-router)#network 20.0.0.0

Router1(config-router)#exit

Router1(config)#exit

Router1#

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

Router1#show running-config

…..Building configuration.....

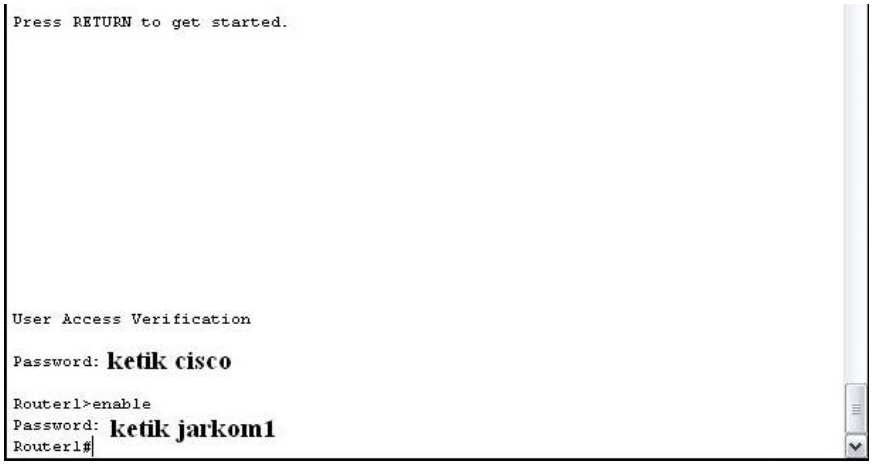
Router1#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router1#exit



----mengkonfigurasi PC2----

Klik PC2

Pilih Dekstop

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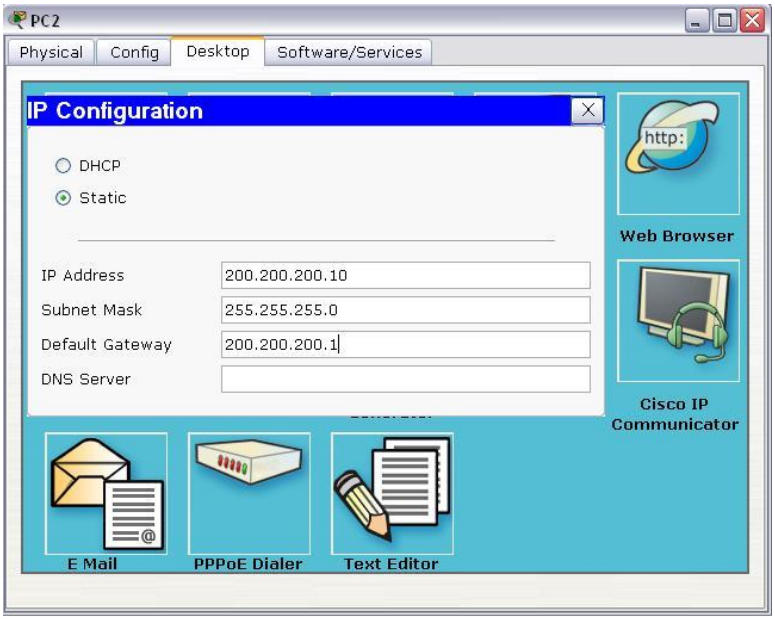
Pilih IP Configuration

Ketik konfigurasi PC2:



----mengkonfigurasi PC3----

Klik PC3

Pilih Dekstop

Pilih IP Configuration

Ketik konfigurasi PC3:

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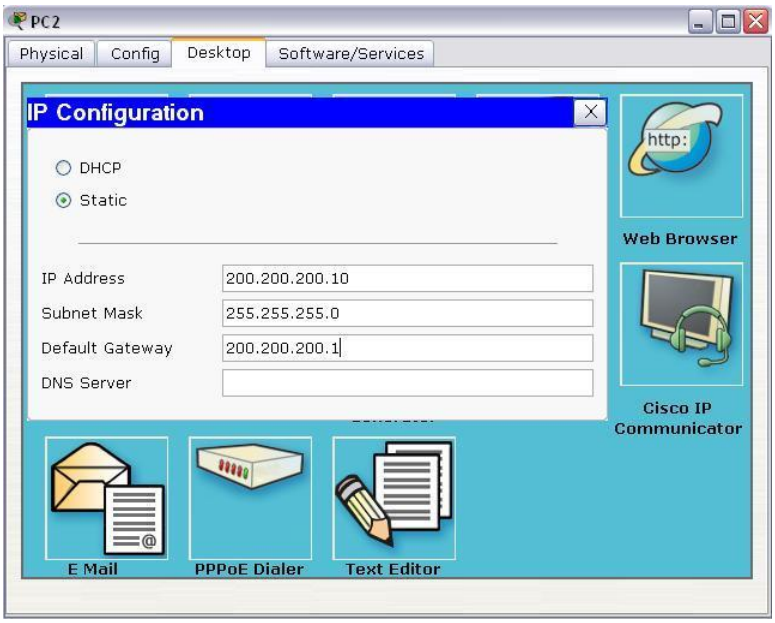
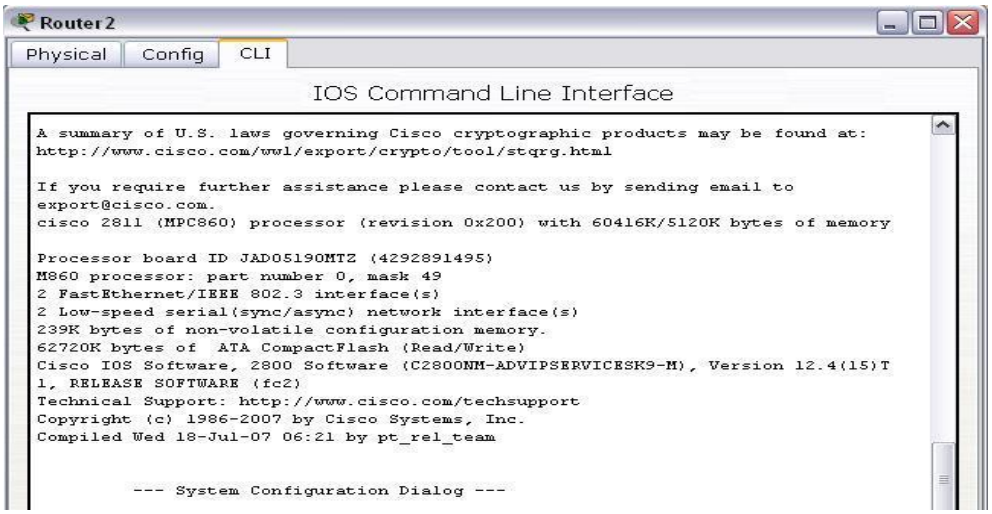


C. Mengkonfigurasi Router2



Continue with configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>enable

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname Router2

Router2(config)#enable secret jarkom2

Router2(config)#line con 0

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```
Router2(config-line)#password cisco
Router2(config-line)#login
Router2(config-line)#exit
Router2(config)#line vty 0 4
Router2(config-line)#password cisco
Router2(config-line)#login
Router2(config-line)#exit
Router2(config)#interface FastEthernet0/0
Router2(config-if)#ip address 172.100.0.1 255.255.0.0
Router2(config-if)#description Router2 FastEthernet0/0
Router2(config-if)#no shut
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
Router2(config-if)#exit
Router2(config)#interface serial0/3/1
Router2(config-if)#ip address 20.10.10.20 255.0.0.0
Router1(config-if)#no shut
Router1(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/1, changed state to up
Router2(config-if)#exit
Router2(config)#router RIP
Router2(config-router)#network 20.0.0.0
Router2(config-router)#network 172.100.0.0
Router2(config-router)#exit
Router2(config)#exit
Router2#
%SYS-5-CONFIG_I: Configured from console by console
Router2#show running-config
```


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….Building configuration.....

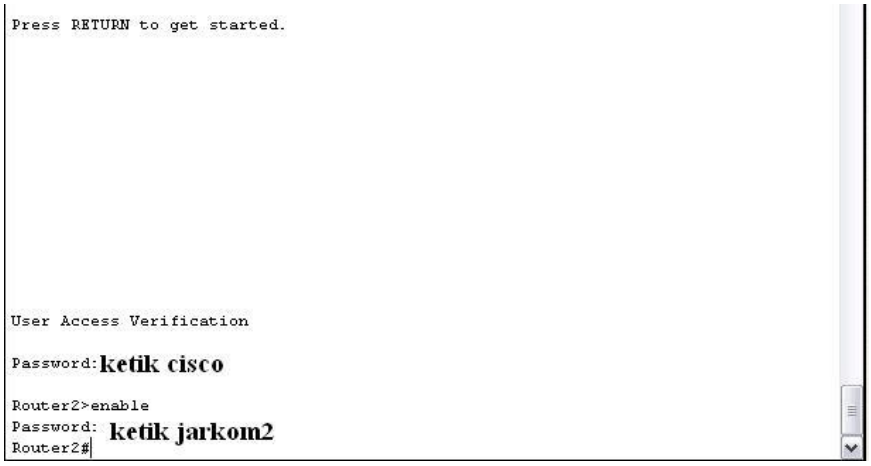
Router2#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router2#exit



-----mengkonfigurasi PC4----

Klik PC4

Pilih Dekstop

Pilih IP Configuration

Ketik konfigurasi PC4:

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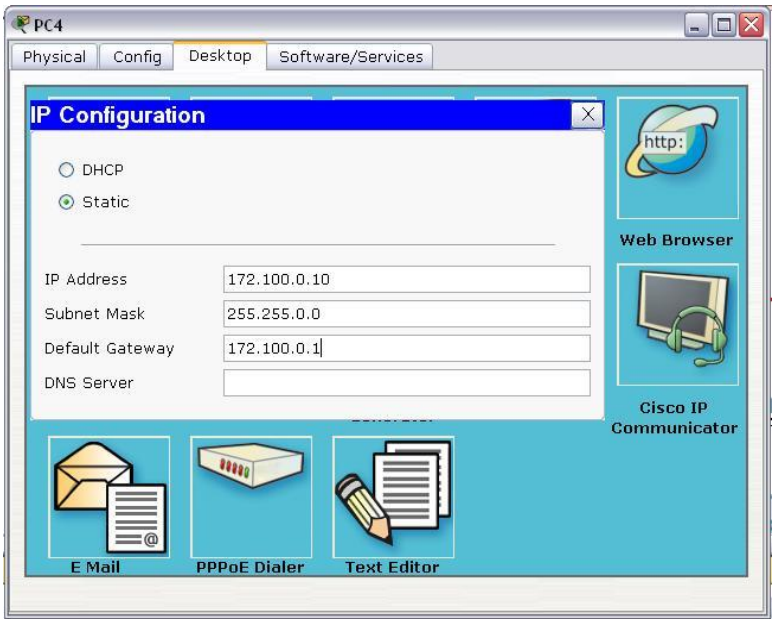


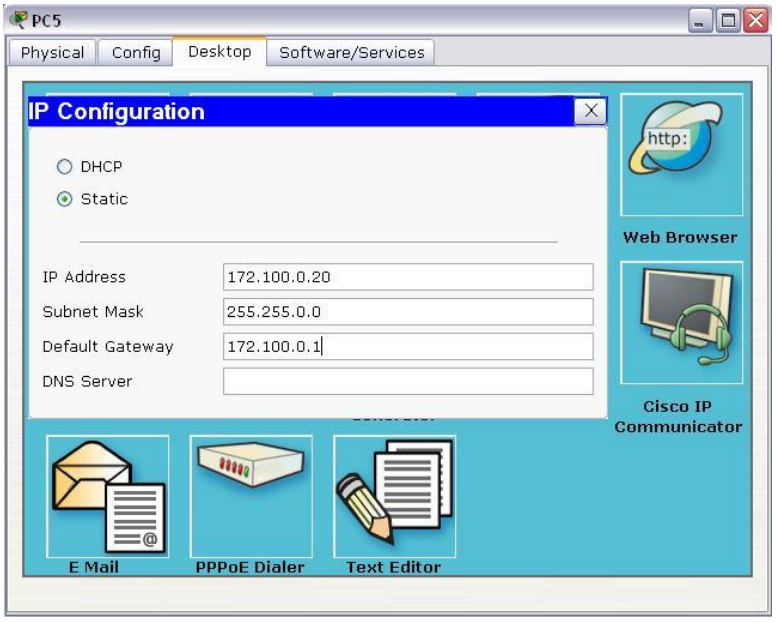
-----mengkonfigurasi PC5----

Klik PC5

Pilih Dekstop

Pilih IP Configuration

Ketik konfigurasi PC5:



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2. KONFIGURASI PC

---melihat konfigurasi PC0---

Klik PC0

Pilih Dekstop

Packet Tracer PC Command Line 1.0

PC>ipconfig

IP Address.....: 175.50.0.10

Subnet Mask.....: 255.255.0.0

Default Gateway.....: 175.50.0.1

---melihat konfigurasi PC1---

Klik PC1

Pilih Dekstop

Packet Tracer PC Command Line 1.0

PC>ipconfig

IP Address.....: 175.50.0.20

Subnet Mask.....: 255.255.0.0

Default Gateway.....: 175.50.0.1

---melihat konfigurasi PC2---

Klik PC2

Pilih Dekstop

Packet Tracer PC Command Line 1.0

PC>ipconfig

IP Address.....: 200.200.200.10

Subnet Mask.....: 255.255.255.0

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Default Gateway.....: 200.200.200.1

---melihat konfigurasi PC3---

Klik PC3

Pilih Dekstop

Packet Tracer PC Command Line 1.0

PC>ipconfig

IP Address.....: 200.200.200.20

Subnet Mask.....: 255.255.255.0

Default Gateway.....: 200.200.200.1

---melihat konfigurasi PC4---

Klik PC4

Pilih Dekstop

Packet Tracer PC Command Line 1.0

PC>ipconfig

IP Address.....: 172.100.0.10

Subnet Mask.....: 255.255.0.0

Default Gateway.....: 172.100.0.1

---melihat konfigurasi PC5---

Klik PC4

Pilih Dekstop

Packet Tracer PC Command Line 1.0

PC>ipconfig

IP Address.....: 172.100.0.20

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Subnet Mask.....: 255.255.0.0

Default Gateway.....: 172.100.0.1

3. MENGUJI KONEKSI ANTAR PC

a. PC0 ke PC1

PC>ping 175.50.0.20

Pinging 175.50.0.20 with 32 bytes of data:

Reply from 175.50.0.20: bytes=32 time=141ms TTL=128

Reply from 175.50.0.20: bytes=32 time=62ms TTL=128

Reply from 175.50.0.20: bytes=32 time=62ms TTL=128

Reply from 175.50.0.20: bytes=32 time=62ms TTL=128

Ping statistics for 175.50.0.20:

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

Approximate round trip times in milli-seconds:

Minimum = 62ms, Maximum = 141ms, Average = 81ms

b. PC0 ke PC2

PC>ping 200.200.200.10

Pinging 200.200.200.10 with 32 bytes of data:

Request timed out.

Reply from 200.200.200.10: bytes=32 time=156ms TTL=126

Reply from 200.200.200.10: bytes=32 time=156ms TTL=126

Reply from 200.200.200.10: bytes=32 time=141ms TTL=126

Ping statistics for 200.200.200.10:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 141ms, Maximum = 156ms, Average = 151ms

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Coba ping ke PC2 sekali lagi:

PC>ping 200.200.200.10

Pinging 200.200.200.10 with 32 bytes of data:
Reply from 200.200.200.10: bytes=32 time=128ms TTL=126
Reply from 200.200.200.10: bytes=32 time=140ms TTL=126
Reply from 200.200.200.10: bytes=32 time=107ms TTL=126
Reply from 200.200.200.10: bytes=32 time=141ms TTL=126
Ping statistics for 200.200.200.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 107ms, Maximum = 141ms, Average = 129ms

c. **PC0 ke PC3**

PC>ping 200.200.200.20

Pinging 200.200.200.20 with 32 bytes of data:

Request timed out.
Reply from 200.200.200.20: bytes=32 time=125ms TTL=126
Reply from 200.200.200.20: bytes=32 time=157ms TTL=126
Reply from 200.200.200.20: bytes=32 time=141ms TTL=126
Ping statistics for 200.200.200.20:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 125ms, Maximum = 157ms, Average = 141ms

Coba ping ke PC3 sekali lagi:

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PC>ping 200.200.200.20

Pinging 200.200.200.20 with 32 bytes of data:
Reply from 200.200.200.20: bytes=32 time=141ms TTL=126
Reply from 200.200.200.20: bytes=32 time=141ms TTL=126
Reply from 200.200.200.20: bytes=32 time=125ms TTL=126
Reply from 200.200.200.20: bytes=32 time=156ms TTL=126
Ping statistics for 200.200.200.20:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 125ms, Maximum = 156ms, Average = 140ms

d. PC0 ke PC4

PC>ping 172.100.0.10

Pinging 172.100.0.10 with 32 bytes of data:
Reply from 172.100.0.10: bytes=32 time=12ms TTL=125
Reply from 172.100.0.10: bytes=32 time=12ms TTL=125
Reply from 172.100.0.10: bytes=32 time=12ms TTL=125
Reply from 172.100.0.10: bytes=32 time=12ms TTL=125
Ping statistics for 172.100.0.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 12ms, Maximum = 12ms, Average = 12ms

e. PC0 ke PC5

PC>ping 172.100.0.20

Pinging 172.100.0.20 with 32 bytes of data:
Reply from 172.100.0.20: bytes=32 time=12ms TTL=125
Reply from 172.100.0.20: bytes=32 time=12ms TTL=125

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Reply from 172.100.0.20: bytes=32 time=12ms TTL=125

Reply from 172.100.0.20: bytes=32 time=12ms TTL=125

Ping statistics for 172.100.0.20:

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

Approximate round trip times in milli-seconds:

Minimum = 12ms, Maximum = 12ms, Average = 12ms

4. SIMULASI ICMP

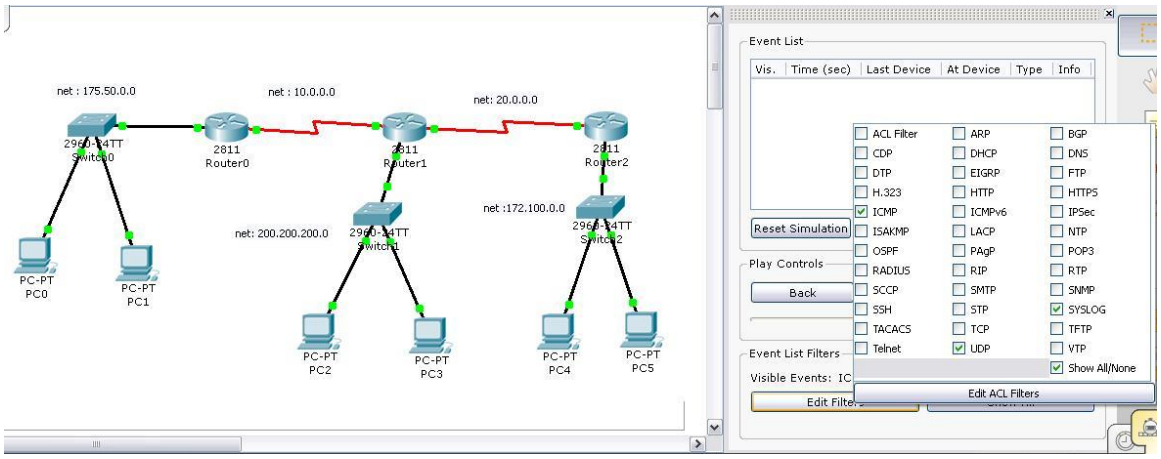
Pilih simulation

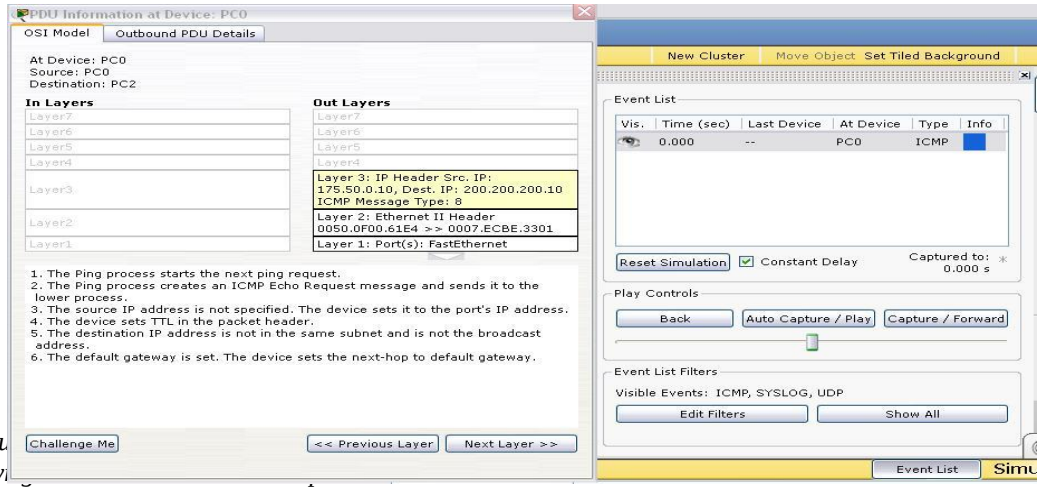
Edit Filters

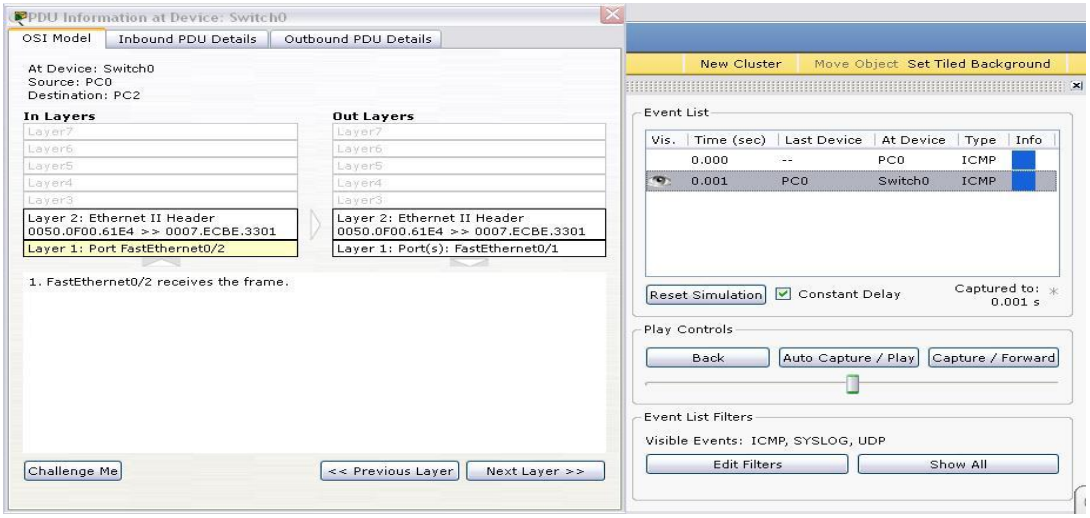
Klik Show All/None

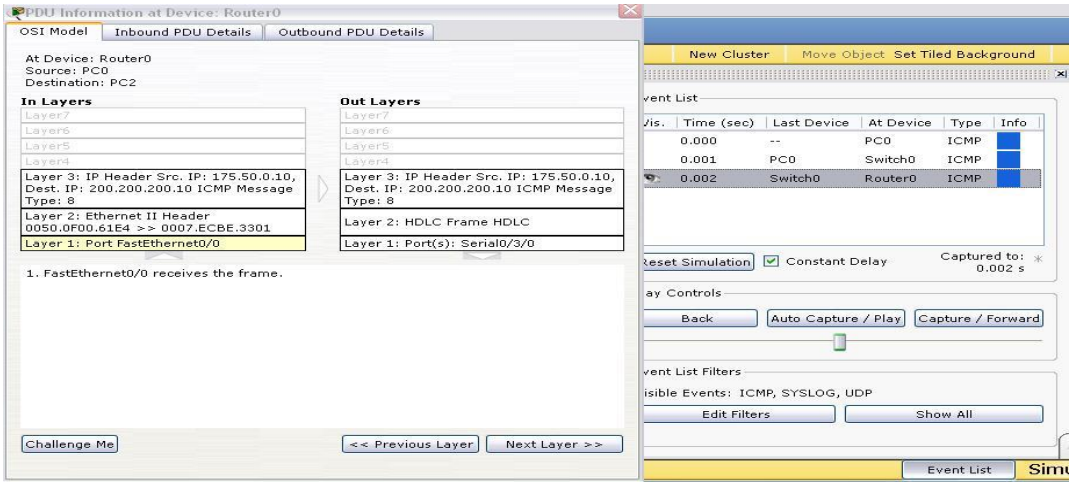
Pilih ICMP

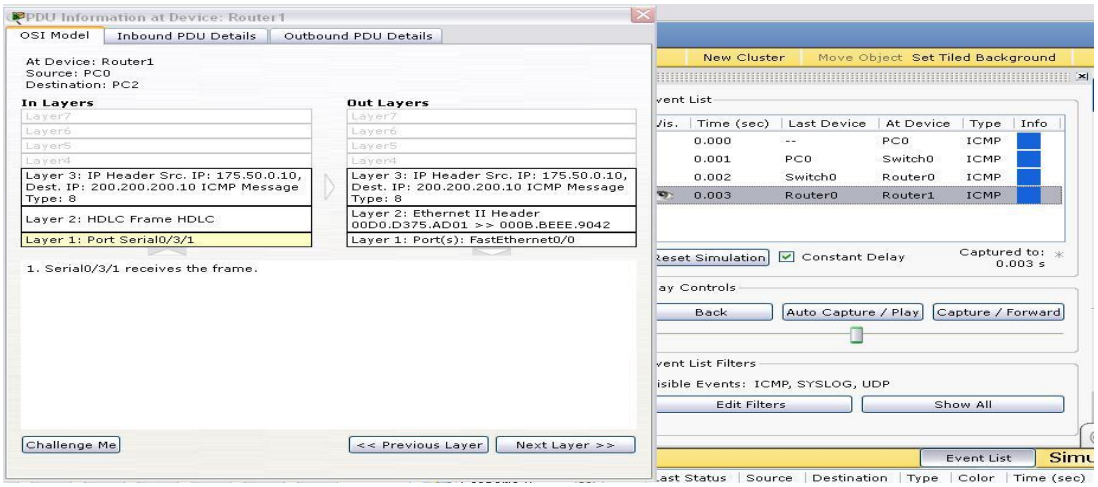
a. Klik dan bawa gambar sampul ke PC0 dan klik kemudian klik di PC2 klik Auto Capture/Play











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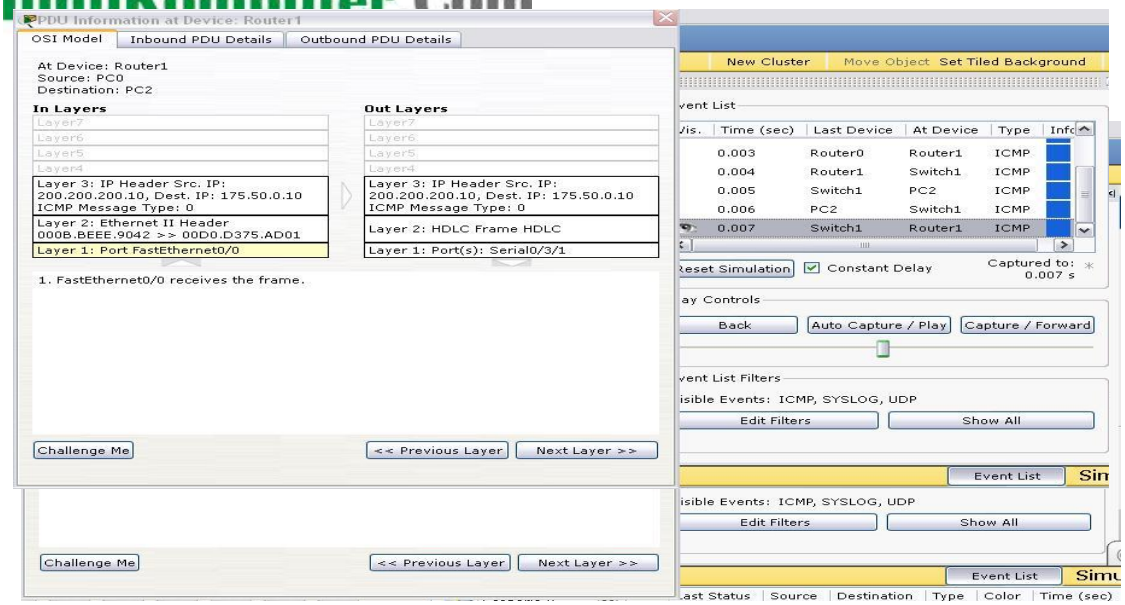

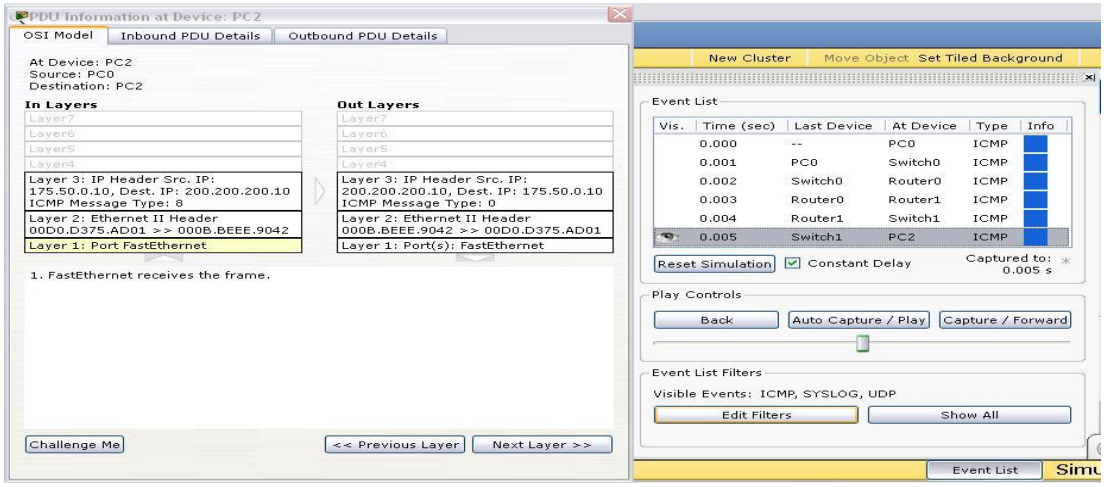

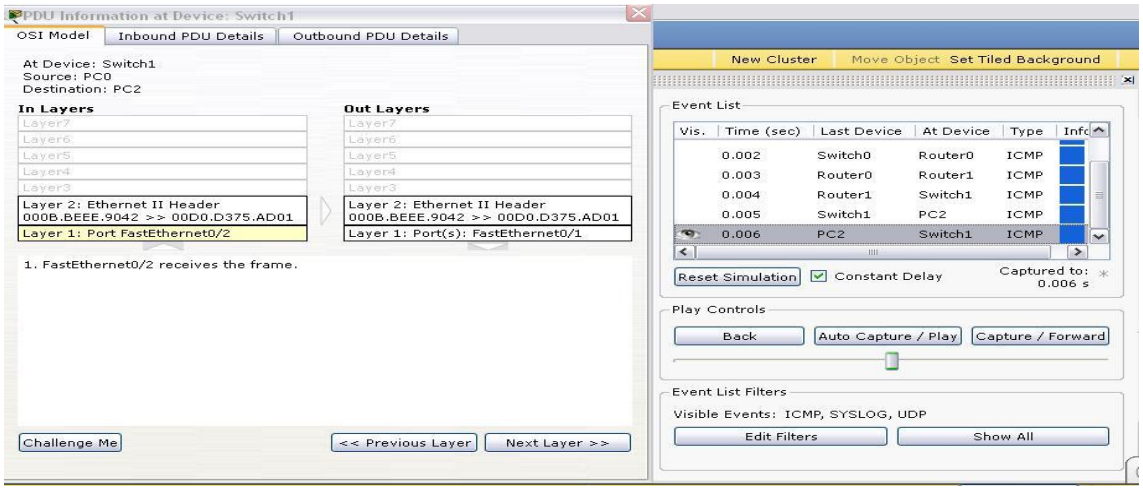

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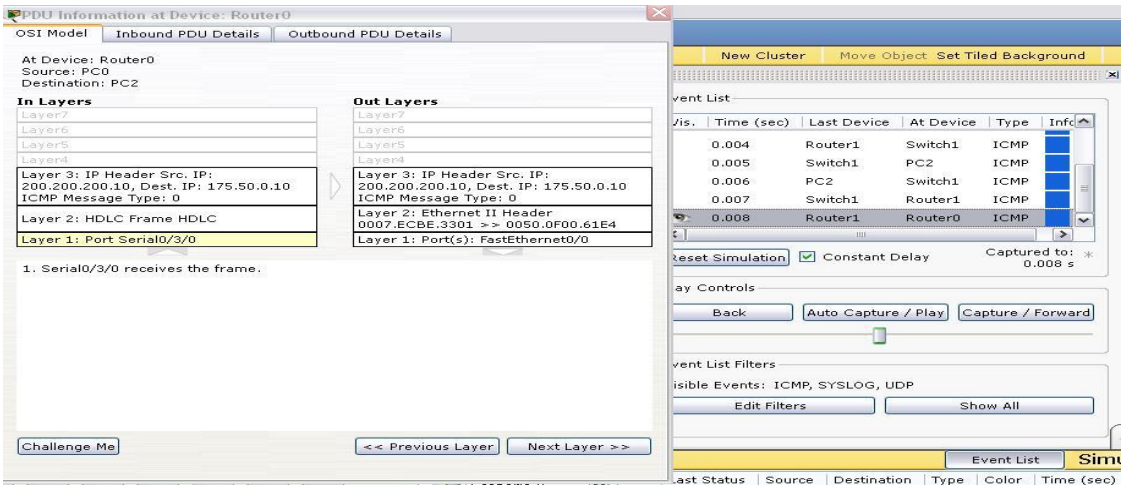

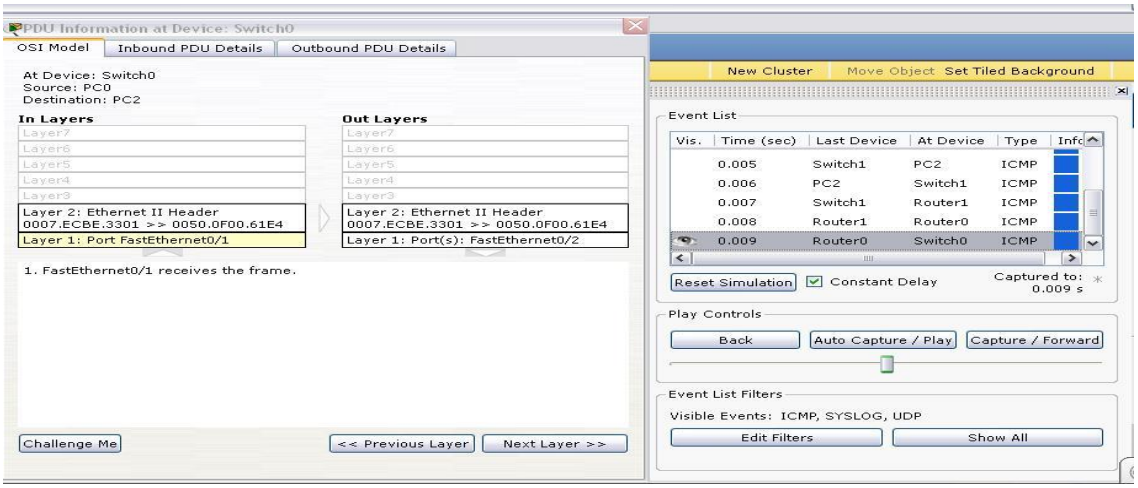

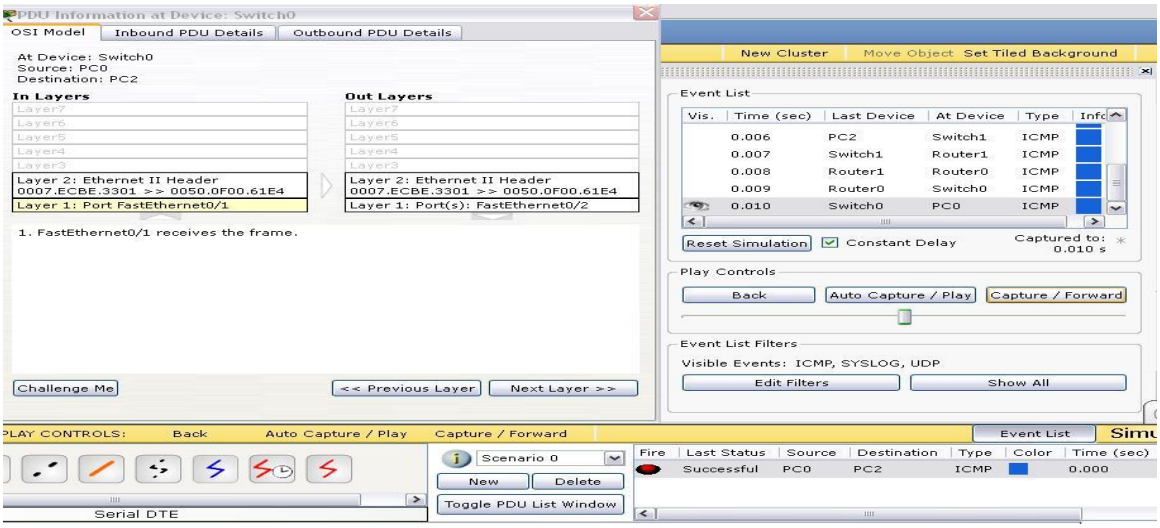

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5. SHOW IP ROUTE

a. Router0

```
Router0#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    10.0.0.0/8 is directly connected, Serial0/3/0
R    20.0.0.0/8 [120/1] via 10.10.10.20, 00:00:15, Serial0/3/0
R    172.100.0.0/16 [120/2] via 10.10.10.20, 00:00:15, Serial0/3/0
C    175.50.0.0/16 is directly connected, FastEthernet0/0
R    200.200.200.0/24 [120/1] via 10.10.10.20, 00:00:15, Serial0/3/0
```

b. Router1

```
Router1#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
```


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Gateway of last resort is not set

C 10.0.0.0/8 is directly connected, Serial0/3/1

C 20.0.0.0/8 is directly connected, Serial0/3/0

R 172.100.0.0/16 [120/1] via 20.10.10.20, 00:00:15, Serial0/3/0

R 175.50.0.0/16 [120/1] via 10.10.10.10, 00:00:17, Serial0/3/1

C 200.200.200.0/24 is directly connected, FastEthernet0/0

c. Router2

Router2#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

R 10.0.0.0/8 [120/1] via 20.10.10.10, 00:00:15, Serial0/3/1

C 20.0.0.0/8 is directly connected, Serial0/3/1

C 172.100.0.0/16 is directly connected, FastEthernet0/0

R 175.50.0.0/16 [120/2] via 20.10.10.10, 00:00:15, Serial0/3/1

R 200.200.200.0/24 [120/1] via 20.10.10.10, 00:00:15, Serial0/3/1

Biografi Penulis

Lutfi Nur Niswati. Lahir di Semarang pada Tanggal 29 Agustus 1991, dan sekarang masih terdaftar sebagai Mahasiswi POLITEKNIK NEGERI SEMARANG. Jurusan Teknik Elektro Program Studi D4 Teknik Telekomunikasi.

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FB : Lutfi Nur Niswati

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