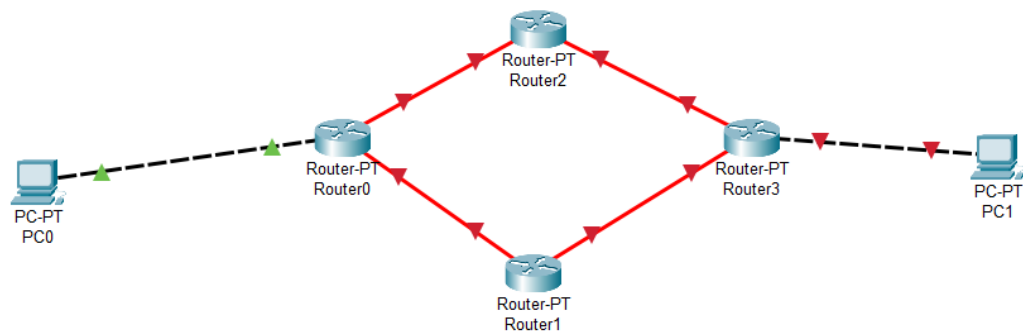


Cxema



Router0

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if)#ip address 192.168.1.100 255.255.255.0
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)#interface fa4/0
Router(config-if)#ip address 192.168.3.100 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to down
Router(config-if)#
Router(config-if)#interface fa5/0
Router(config-if)#ip address 192.168.4.100 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to down
Router(config-if)#router eigrp 100
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.3.0
Router(config-router)#network 192.168.4.0
Router(config-router)#exit
Router(config)#
```

Router1

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa4/0
Router(config-if)#ip address 192.168.3.200 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet4/0, changed state to up

Router(config-if)#interface fa5/0
Router(config-if)#ip address 192.168.5.200 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to down
Router(config-if)#router eigrp 100
Router(config-router)#network 192.168.3.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.3.100 (FastEthernet4/0) is up: new adjacency

Router(config-router)#network 192.168.5.0
Router(config-router)#exit
Router(config)#
```

Router2

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if)#ip address 192.168.2.100 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#interface fa4/0
Router(config-if)#ip address 192.168.5.100 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet4/0, changed state to up

Router(config-if)#interface fa5/0
Router(config-if)#ip address 192.168.6.100 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to down
Router(config-if)#router eigrp 100
Router(config-router)#network 192.168.2.0
Router(config-router)#network 192.168.5.0
Router(config-router)#network 192.168.6.0
Router(config-router)#exit
Router(config)#
```

Router3

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa4/0
Router(config-if)#ip address 192.168.4.200 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet4/0, changed state to up

Router(config-if)#interface fa5/0
Router(config-if)#ip address 192.168.6.200 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet5/0, changed state to up

Router(config-if)#router eigrp 100
Router(config-router)#network 192.168.4.0
Router(config-router)#network 192.168.6.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.6.100 (FastEthernet5/0) is up: new adjacency

Router(config-router)#exit
Router(config)#
```

Наблюдаем, что Router0 отправляет пакеты разными путями:

Первый пакет: Router0 → Router1 → Router2 → PC1

Второй пакет: Router0 → Router3 → Router2 → PC1

EIGRP успешно распределяет нагрузку между несколькими маршрутами. При отправке двух пакетов на один адрес, маршрутизатор использует разные пути, что подтверждает работу балансировки нагрузки.