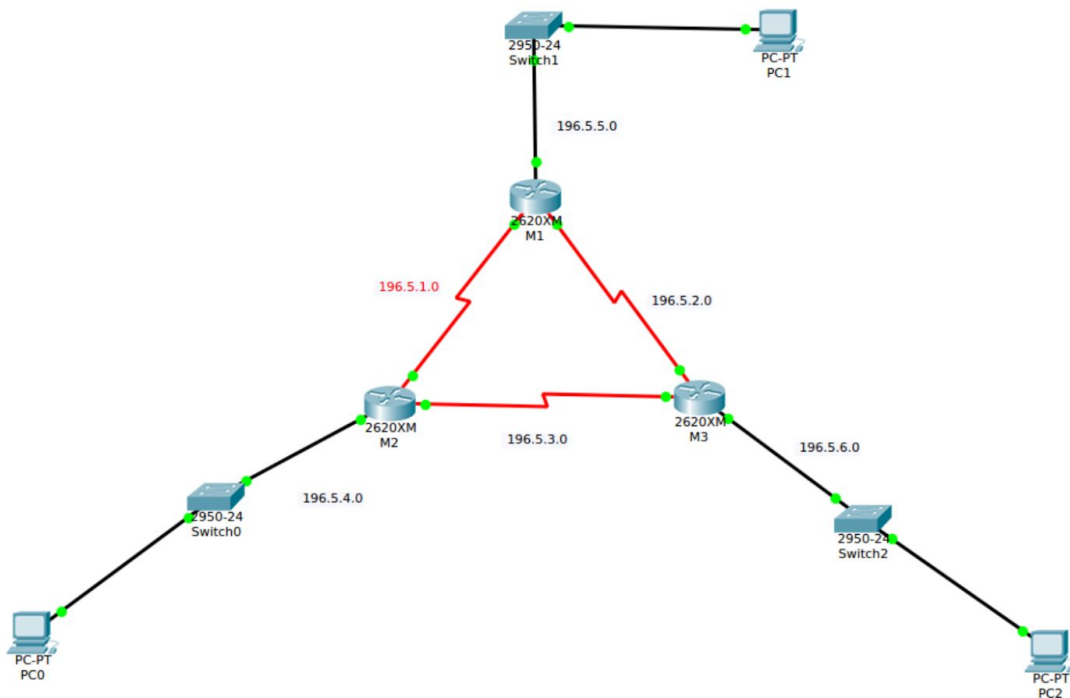# Лабараторная работа 6
Канфігурацыя RIPv2 і яе праверка

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Схему сеткі вызначылі, IP-адрасы раздалі:

Наладжваем на роўтарах RIPv2 (на прыкладзе M1):

```
Router(config)#
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 196.5.1.0
Router(config-router)#network 196.5.2.0
Router(config-router)#network 196.5.5.0
Router(config-router)#
```

for M1:
show ip protocols:

```
Router#
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 24 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
  Interface            Send  Recv  Triggered RIP  Key-chain
  Serial0/1             2     2
  Serial0/0             2     2
  FastEthernet0/0       2     2
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
          196.5.1.0
          196.5.2.0
          196.5.5.0
Passive Interface(s):
Routing Information Sources:
          Gateway          Distance      Last Update
          196.5.1.1            120        00:00:00
          196.5.2.2            120        00:00:02
 --More--
```

show ip route:

```
Router#
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    196.5.1.0/24 is directly connected, Serial0/1
C    196.5.2.0/24 is directly connected, Serial0/0
R    196.5.3.0/24 [120/1] via 196.5.1.1, 00:00:05, Serial0/1
                  [120/1] via 196.5.2.2, 00:00:10, Serial0/0
R    196.5.4.0/24 [120/1] via 196.5.1.1, 00:00:05, Serial0/1
C    196.5.5.0/24 is directly connected, FastEthernet0/0
R    196.5.6.0/24 [120/1] via 196.5.2.2, 00:00:10, Serial0/0
Router#
```

Канфігуруем пасіўныя інтэрфейсы (на кожным з роўтараў):

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#passive-interface FastEthernet 0/0
Router(config-router)#
```

Правяраем дасягальнасць камп'ютараў з розныз сетак:

```
Packet Tracer PC Command Line 1.0
PC>ping 196.5.5.1

Pinging 196.5.5.1 with 32 bytes of data:

Reply from 196.5.5.1: bytes=32 time=1ms TTL=254
Reply from 196.5.5.1: bytes=32 time=1ms TTL=254
Reply from 196.5.5.1: bytes=32 time=1ms TTL=254
Reply from 196.5.5.1: bytes=32 time=9ms TTL=254

Ping statistics for 196.5.5.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 9ms, Average = 3ms

PC>traceroute 196.5.5.1
Invalid Command.

PC>tracert 196.5.5.1

Tracing route to 196.5.5.1 over a maximum of 30 hops:

  1    0 ms      0 ms      0 ms       196.5.4.1
  2    1 ms      1 ms      0 ms       196.5.5.1

Trace complete.

PC>
```