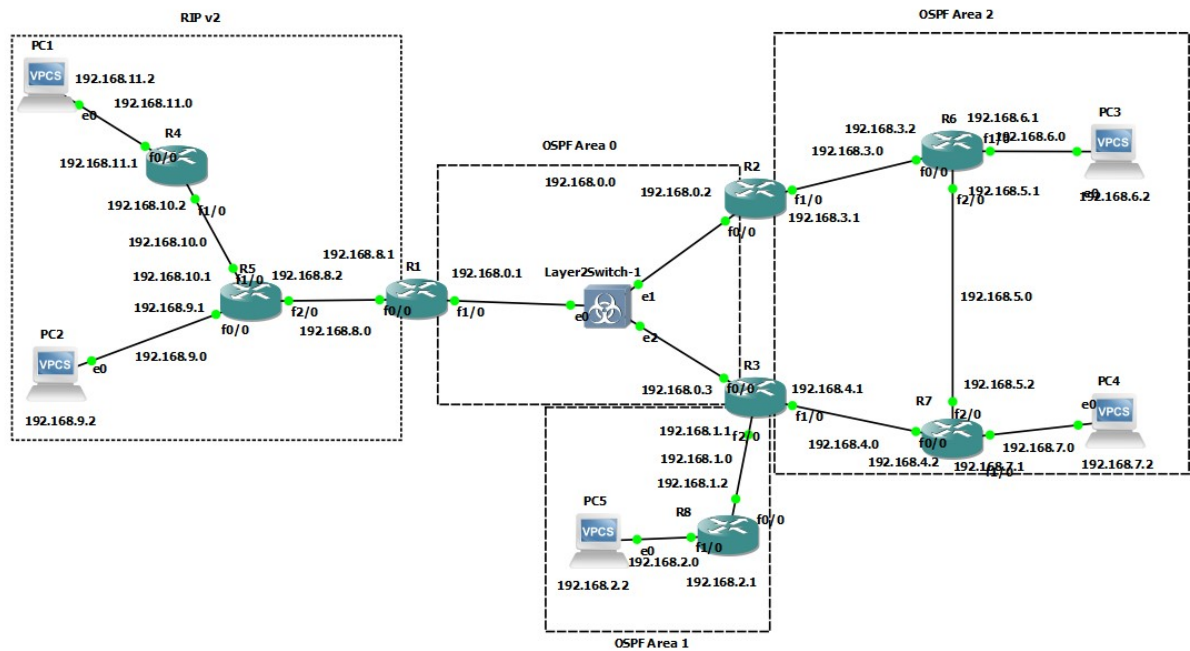


Схема:



R4:

```
R4#conf t
R4(config)#interface FastEthernet0/0
R4(config-if)#ip address 192.168.11.1 255.255.255.0
R4(config-if)#no shutdown
R4(config)#interface FastEthernet1/0
R4(config-if)#ip address 192.168.10.2 255.255.255.0
R4(config-if)#no shutdown
R4#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R4(config)#router rip
R4(config-router)#version 2
R4(config-router)#network 192.168.11.0
R4(config-router)#network 192.168.10.0
R4(config-router)#no auto-summary
```

R5#conf t

```
R5(config)#interface FastEthernet0/0
R5(config-if)#ip address 192.168.9.1 255.255.255.0
R5(config-if)#no shutdown
R5(config)#interface FastEthernet1/0
R5(config-if)#ip address 192.168.10.1 255.255.255.0
R5(config-if)#no shutdown
R5(config)#interface FastEthernet2/0
R5(config-if)#ip address 192.168.8.2 255.255.255.0
R5(config-if)#no shutdown
R5#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R5(config)#router rip
R5(config-router)#version 2
R5(config-router)#network 192.168.8.0
R5(config-router)#network 192.168.10.0
R5(config-router)#network 192.168.9.0
R5(config-router)#no auto-summary
```

```
R1#conf t
R1(config)#interface fastEthernet 0/0
R1(config-if)#ip address 192.168.8.1 255.255.255.0
R1(config)#no shutdown
R1(config-if)#interface fastEthernet 1/0
R1(config-if)#ip address 192.168.0.1 255.255.255.0
R1(config)#no shutdown
R1#conf t
R1(config)#router rip
R1(config-router)#version 2
R1(config-router)#network 192.168.8.0
R1(config)#router ospf 1
R1(config-router)#router-id 192.168.0.1
R1(config-router)#network 192.168.0.0 0.0.0.255 area 0
R1#conf t
R1(config)#router ospf 1
R1(config-router)#redistribute rip subnets metric 100
R1(config-router)#router rip
R1(config-router)#redistribute ospf 1 metric 5
```

```
R3#conf t
R3(config)#interface fastEthernet 0/0
R3(config-if)#ip address 192.168.0.3 255.255.255.0
R3(config)#no shutdown
R3(config-if)#interface fastEthernet 1/0
R3(config-if)#ip address 192.168.4.1 255.255.255.0
R3(config)#no shutdown
R3(config-if)#interface fastEthernet 2/0
R3(config-if)#ip address 192.168.1.1 255.255.255.0
R3(config)#no shutdown
R3#conf t
R3(config)#router ospf 1
R3(config-router)#router-id 192.168.0.3
R3(config-router)#network 192.168.0.0 0.0.0.255 area 0
R3(config-router)#network 192.168.1.0 0.0.0.255 area 1
R3(config-router)#network 192.168.4.0 0.0.0.255 area 2
R3(config-router)#area 1 stub no-summary
```

```
R2#conf t
R2(config)#interface fastEthernet 0/0
R2(config-if)#ip address 192.168.0.2 255.255.255.0
R2(config)#no shutdown
R2(config-if)#interface fastEthernet 1/0
R2(config-if)#ip address 192.168.3.1 255.255.255.0
R2(config)#no shutdown
R2#conf t
R2(config)#router ospf 1
R2(config-router)#router-id 192.168.0.2
R2(config-router)#network 192.168.0.0 0.0.0.255 area 0
R2(config-router)#network 192.168.3.0 0.0.0.255 area 2
```

```
R6#conf t
R6(config)#interface fastEthernet 0/0
R6(config-if)#ip address 192.168.3.2 255.255.255.0
R6(config)#no shutdown
R6(config-if)#interface fastEthernet 1/0
R6(config-if)#ip address 192.168.6.1 255.255.255.0
R6(config)#no shutdown
R6(config-if)#interface fastEthernet 2/0
R6(config-if)#ip address 192.168.5.1 255.255.255.0
R6(config)#no shutdown
R6#conf t
R6(config)#router ospf 1
R6(config-router)#router-id 192.168.3.2
R6(config-router)#network 192.168.3.0 0.0.0.255 area 2
R6(config-router)#network 192.168.6.0 0.0.0.255 area 2
R6(config-router)#network 192.168.5.0 0.0.0.255 area 2
```

```
R7#conf t
R7(config)#interface fastEthernet 0/0
R7(config-if)#ip address 192.168.4.2 255.255.255.0
R7(config)#no shutdown
R7(config-if)#interface fastEthernet 1/0
R7(config-if)#ip address 192.168.7.1 255.255.255.0
R7(config)#no shutdown
R7(config-if)#interface fastEthernet 2/0
R7(config-if)#ip address 192.168.5.2 255.255.255.0
R7(config)#no shutdown
R7#conf t
R7(config)#router ospf 1
R7(config-router)#router-id 192.168.4.2
R7(config-router)#network 192.168.4.0 0.0.0.255 area 2
R7(config-router)#network 192.168.7.0 0.0.0.255 area 2
R7(config-router)#network 192.168.5.0 0.0.0.255 area 2
```

```
R8#conf t
R8(config)#interface fastEthernet 0/0
R8(config-if)#ip address 192.168.1.2 255.255.255.0
R8(config)#no shutdown
R8(config-if)#interface fastEthernet 1/0
R8(config-if)#ip address 192.168.2.1 255.255.255.0
R8(config)#no shutdown
R8#conf t
R8(config)#router ospf 1
R8(config-router)#router-id 192.168.1.2
R8(config-router)#network 192.168.1.0 0.0.0.255 area 1
R8(config-router)#network 192.168.2.0 0.0.0.255 area 1
R8(config-router)#area 1 stub
```

```
PC1> ping 192.168.9.2
```

```
84 bytes from 192.168.9.2 icmp_seq=1 ttl=62 time=39.617 ms
84 bytes from 192.168.9.2 icmp_seq=2 ttl=62 time=25.401 ms
84 bytes from 192.168.9.2 icmp_seq=3 ttl=62 time=25.767 ms
84 bytes from 192.168.9.2 icmp_seq=4 ttl=62 time=25.136 ms
84 bytes from 192.168.9.2 icmp_seq=5 ttl=62 time=25.481 ms
```

```
PC1> ping 192.168.6.2
```

84 bytes from 192.168.6.2 icmp_seq=1 ttl=59 time=57.255 ms
84 bytes from 192.168.6.2 icmp_seq=2 ttl=59 time=55.037 ms
84 bytes from 192.168.6.2 icmp_seq=3 ttl=59 time=55.772 ms
84 bytes from 192.168.6.2 icmp_seq=4 ttl=59 time=55.602 ms
84 bytes from 192.168.6.2 icmp_seq=5 ttl=59 time=55.447 ms

PC1> ping 192.168.7.2

84 bytes from 192.168.7.2 icmp_seq=1 ttl=59 time=54.855 ms
84 bytes from 192.168.7.2 icmp_seq=2 ttl=59 time=55.809 ms
84 bytes from 192.168.7.2 icmp_seq=3 ttl=59 time=55.846 ms
84 bytes from 192.168.7.2 icmp_seq=4 ttl=59 time=56.154 ms
84 bytes from 192.168.7.2 icmp_seq=5 ttl=59 time=55.153 ms

PC1> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp_seq=1 ttl=59 time=69.976 ms
84 bytes from 192.168.2.2 icmp_seq=2 ttl=59 time=65.165 ms
84 bytes from 192.168.2.2 icmp_seq=3 ttl=59 time=65.671 ms
84 bytes from 192.168.2.2 icmp_seq=4 ttl=59 time=75.246 ms
84 bytes from 192.168.2.2 icmp_seq=5 ttl=59 time=75.003 ms

PC2> ping 192.168.11.2

84 bytes from 192.168.11.2 icmp_seq=1 ttl=62 time=29.790 ms
84 bytes from 192.168.11.2 icmp_seq=2 ttl=62 time=25.071 ms
84 bytes from 192.168.11.2 icmp_seq=3 ttl=62 time=25.908 ms
84 bytes from 192.168.11.2 icmp_seq=4 ttl=62 time=25.075 ms
84 bytes from 192.168.11.2 icmp_seq=5 ttl=62 time=25.628 ms

PC2> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp_seq=1 ttl=60 time=40.821 ms
84 bytes from 192.168.2.2 icmp_seq=2 ttl=60 time=45.536 ms
84 bytes from 192.168.2.2 icmp_seq=3 ttl=60 time=46.112 ms
84 bytes from 192.168.2.2 icmp_seq=4 ttl=60 time=45.627 ms
84 bytes from 192.168.2.2 icmp_seq=5 ttl=60 time=44.965 ms

PC2> ping 192.168.7.2

84 bytes from 192.168.7.2 icmp_seq=1 ttl=60 time=60.457 ms
84 bytes from 192.168.7.2 icmp_seq=2 ttl=60 time=45.191 ms
84 bytes from 192.168.7.2 icmp_seq=3 ttl=60 time=45.559 ms
84 bytes from 192.168.7.2 icmp_seq=4 ttl=60 time=45.191 ms
84 bytes from 192.168.7.2 icmp_seq=5 ttl=60 time=45.574 ms

PC2> ping 192.168.6.2

84 bytes from 192.168.6.2 icmp_seq=1 ttl=60 time=56.226 ms
84 bytes from 192.168.6.2 icmp_seq=2 ttl=60 time=45.127 ms
84 bytes from 192.168.6.2 icmp_seq=3 ttl=60 time=45.626 ms
84 bytes from 192.168.6.2 icmp_seq=4 ttl=60 time=45.371 ms
84 bytes from 192.168.6.2 icmp_seq=5 ttl=60 time=45.710 ms

PC3> ping 192.168.11.2

84 bytes from 192.168.11.2 icmp_seq=1 ttl=59 time=70.468 ms
84 bytes from 192.168.11.2 icmp_seq=2 ttl=59 time=65.766 ms
84 bytes from 192.168.11.2 icmp_seq=3 ttl=59 time=66.011 ms
84 bytes from 192.168.11.2 icmp_seq=4 ttl=59 time=65.580 ms
84 bytes from 192.168.11.2 icmp_seq=5 ttl=59 time=65.433 ms

PC3> ping 192.168.9.2

84 bytes from 192.168.9.2 icmp_seq=1 ttl=60 time=53.528 ms
84 bytes from 192.168.9.2 icmp_seq=2 ttl=60 time=45.496 ms
84 bytes from 192.168.9.2 icmp_seq=3 ttl=60 time=46.207 ms
84 bytes from 192.168.9.2 icmp_seq=4 ttl=60 time=45.597 ms
84 bytes from 192.168.9.2 icmp_seq=5 ttl=60 time=46.064 ms

PC3> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp_seq=1 ttl=60 time=68.338 ms
84 bytes from 192.168.2.2 icmp_seq=2 ttl=60 time=55.364 ms
84 bytes from 192.168.2.2 icmp_seq=3 ttl=60 time=55.477 ms
84 bytes from 192.168.2.2 icmp_seq=4 ttl=60 time=45.541 ms
84 bytes from 192.168.2.2 icmp_seq=5 ttl=60 time=45.223 ms

PC3> ping 192.168.7.2

84 bytes from 192.168.7.2 icmp_seq=1 ttl=62 time=24.166 ms
84 bytes from 192.168.7.2 icmp_seq=2 ttl=62 time=25.647 ms
84 bytes from 192.168.7.2 icmp_seq=3 ttl=62 time=25.096 ms
84 bytes from 192.168.7.2 icmp_seq=4 ttl=62 time=25.665 ms
84 bytes from 192.168.7.2 icmp_seq=5 ttl=62 time=25.071 ms

PC4> ping 192.168.11.2

84 bytes from 192.168.11.2 icmp_seq=1 ttl=59 time=69.212 ms
84 bytes from 192.168.11.2 icmp_seq=2 ttl=59 time=55.343 ms
84 bytes from 192.168.11.2 icmp_seq=3 ttl=59 time=55.349 ms
84 bytes from 192.168.11.2 icmp_seq=4 ttl=59 time=55.109 ms
84 bytes from 192.168.11.2 icmp_seq=5 ttl=59 time=55.258 ms

PC4> ping 192.168.9.2

84 bytes from 192.168.9.2 icmp_seq=1 ttl=60 time=56.672 ms
84 bytes from 192.168.9.2 icmp_seq=2 ttl=60 time=45.700 ms
84 bytes from 192.168.9.2 icmp_seq=3 ttl=60 time=45.145 ms
84 bytes from 192.168.9.2 icmp_seq=4 ttl=60 time=45.629 ms
84 bytes from 192.168.9.2 icmp_seq=5 ttl=60 time=45.152 ms

PC4> ping 192.168.6.2

84 bytes from 192.168.6.2 icmp_seq=1 ttl=62 time=23.098 ms
84 bytes from 192.168.6.2 icmp_seq=2 ttl=62 time=25.731 ms
84 bytes from 192.168.6.2 icmp_seq=3 ttl=62 time=25.146 ms
84 bytes from 192.168.6.2 icmp_seq=4 ttl=62 time=25.773 ms
84 bytes from 192.168.6.2 icmp_seq=5 ttl=62 time=25.259 ms

PC4> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp_seq=1 ttl=61 time=40.010 ms
84 bytes from 192.168.2.2 icmp_seq=2 ttl=61 time=35.593 ms
84 bytes from 192.168.2.2 icmp_seq=3 ttl=61 time=35.848 ms
84 bytes from 192.168.2.2 icmp_seq=4 ttl=61 time=35.903 ms
84 bytes from 192.168.2.2 icmp_seq=5 ttl=61 time=35.734 ms

PC5> ping 192.168.11.2

84 bytes from 192.168.11.2 icmp_seq=1 ttl=59 time=61.125 ms
84 bytes from 192.168.11.2 icmp_seq=2 ttl=59 time=55.852 ms
84 bytes from 192.168.11.2 icmp_seq=3 ttl=59 time=55.892 ms
84 bytes from 192.168.11.2 icmp_seq=4 ttl=59 time=55.844 ms
84 bytes from 192.168.11.2 icmp_seq=5 ttl=59 time=56.023 ms

PC5> ping 192.168.9.2

84 bytes from 192.168.9.2 icmp_seq=1 ttl=60 time=50.757 ms
84 bytes from 192.168.9.2 icmp_seq=2 ttl=60 time=56.161 ms
84 bytes from 192.168.9.2 icmp_seq=3 ttl=60 time=55.301 ms
84 bytes from 192.168.9.2 icmp_seq=4 ttl=60 time=45.240 ms
84 bytes from 192.168.9.2 icmp_seq=5 ttl=60 time=46.022 ms

PC5> ping 192.168.6.2

84 bytes from 192.168.6.2 icmp_seq=1 ttl=60 time=53.930 ms
84 bytes from 192.168.6.2 icmp_seq=2 ttl=60 time=46.076 ms
84 bytes from 192.168.6.2 icmp_seq=3 ttl=60 time=45.543 ms
84 bytes from 192.168.6.2 icmp_seq=4 ttl=60 time=45.946 ms
84 bytes from 192.168.6.2 icmp_seq=5 ttl=60 time=45.522 ms

PC5> ping 192.168.7.2

84 bytes from 192.168.7.2 icmp_seq=1 ttl=61 time=39.840 ms
84 bytes from 192.168.7.2 icmp_seq=2 ttl=61 time=35.730 ms
84 bytes from 192.168.7.2 icmp_seq=3 ttl=61 time=35.597 ms
84 bytes from 192.168.7.2 icmp_seq=4 ttl=61 time=35.818 ms
84 bytes from 192.168.7.2 icmp_seq=5 ttl=61 time=35.837 ms