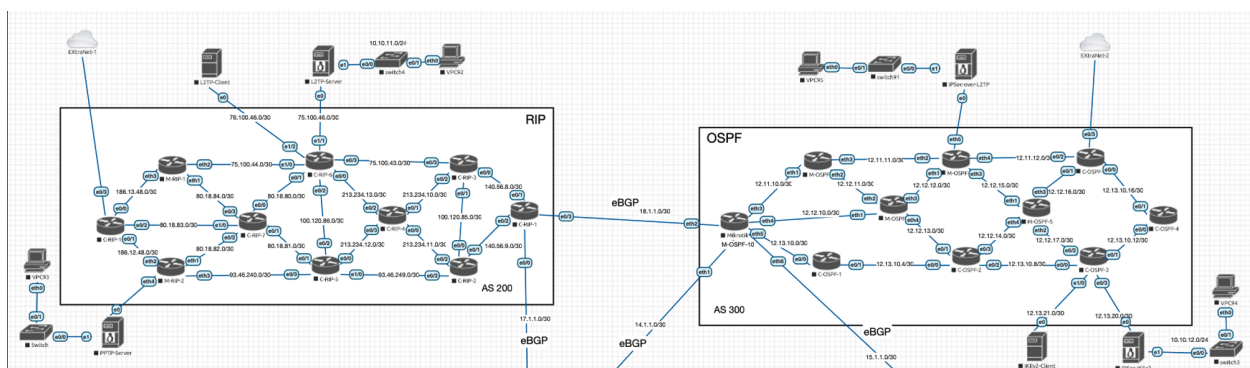
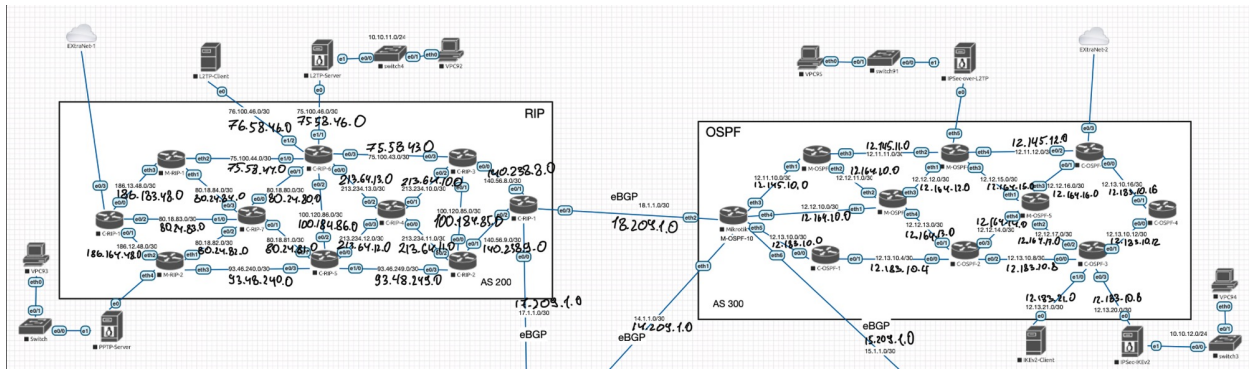




Практика 3, RIP и OSPF

Owner	sl4sh73r
Verification	Verified
Tags	Network





▼ RIP

▼ C-RIP-1

```

en
conf t
hostname LMyshivets-C-RIP-1
int e0/0
descr "LMyshivets-Main-Router"
ip addr 17.209.1.2 255.255.255.252
no shut
int e0/1
descr "LMyshivets-C-RIP-3"
ip addr 140.238.8.1 255.255.255.252
no shut
int e0/2
descr "LMyshivets-C-RIP-2"
ip addr 140.238.9.1 255.255.255.252
no shut
int e0/3
descr "LMyshivets-M-OSPF-10"
ip addr 18.209.1.1 255.255.255.252
no shut

router rip
version 2
redistribute static
redistribute bgp 200 metric 1

```

```
redistribute ospf 1 metric 1
network 18.209.1.0
network 17.209.1.0
network 140.238.9.0
network 140.238.8.0
default-metric 1
no auto-summary

router bgp 200
network 17.209.1.0 mask 255.255.255.252
network 18.209.1.0 mask 255.255.255.252

redistribute rip
redistribute connected
neighbor 17.209.1.1 remote-as 100
neighbor 18.209.1.2 remote-as 300

default-information originate
default-metric 1

end
write
```

▼ C-RIP-2

```
en
conf t
hostname LMySlivets-C-RIP-2
int e0/0
descr "LMySlivets-C-RIP-3"
ip addr 100.184.85.1 255.255.255.252
no shut
int e0/1
descr "LMySlivets-C-RIP-1"
ip addr 140.238.9.2 255.255.255.252
```

```
no shut
int e0/2
descr "LMYslivets-C-RIP-4"
ip addr 213.64.11.1 255.255.255.252
no shut
int e0/3
descr "LMYslivets-C-RIP-5"
ip addr 93.48.249.1 255.255.255.252
no shut

router rip
version 2
network 100.184.85.0
network 140.238.9.0
network 213.64.11.0
network 93.48.249.0
end
write
```

▼ C-RIP-3

```
en
conf t
hostname LMYslivets-C-RIP-3
int e0/0
descr "LMYslivets-C-RIP-1"
ip addr 140.238.8.2 255.255.255.252
no shut
int e0/1
descr "LMYslivets-C-RIP-2"
ip addr 100.184.85.2 255.255.255.252
no shut
int e0/2
descr "LMYslivets-C-RIP-4"
ip addr 213.64.10.1 255.255.255.252
```

```
nocwta shut
int e0/3
descr "LMYslivets-C-RIP-6"
ip addr 75.58.43.1 255.255.255.252
no shut

router rip
version 2
network 140.238.8.0
network 100.184.85.0
network 213.64.10.0
network 75.58.43.0
end
write
```

▼ C-RIP-4

```
en
conf t
hostname LMYslivets-C-RIP-4
int e0/0
descr "LMYslivets-C-RIP-2"
ip addr 213.64.11.2 255.255.255.252
no shut
int e0/1
descr "LMYslivets-C-RIP-3"
ip addr 213.64.10.2 255.255.255.252
no shut
int e0/2
descr "LMYslivets-C-RIP-6"
ip addr 213.64.13.1 255.255.255.252
no shut
int e0/3
descr "LMYslivets-C-RIP-5"
ip addr 213.64.12.1 255.255.255.252
```

```
no shut

router rip
version 2
network 213.64.11.0
network 213.64.10.0
network 213.64.13.0
network 213.64.12.0
end
write
```

▼ C-RIP-5

```
en
conf t
hostname LMYslivets-C-RIP-5
int e0/0
descr "LMYslivets-C-RIP-4"
ip addr 213.64.12.2 255.255.255.252
no shut
int e0/1
descr "LMYslivets-C-RIP-7"
ip addr 80.24.81.1 255.255.255.252
no shut
int e0/2
descr "LMYslivets-C-RIP-6"
ip addr 100.184.86.1 255.255.255.252
no shut
int e0/3
descr "LMYslivets-M-RIP-2"
ip addr 93.48.240.1 255.255.255.252
no shut
int e1/0
descr "LMYslivets-C-RIP-2"
ip addr 93.48.249.2 255.255.255.252
```

```
no shut

router rip
version 2
network 213.64.12.0
network 80.24.81.0
network 100.184.86.0
network 93.48.240.0
network 93.48.249.0
end
write
```

▼ C-RIP-6

```
en
conf t
hostname LMySlivets-C-RIP-6
int e0/0
descr "LMySlivets-C-RIP-4"
ip addr 213.64.13.2 255.255.255.252
no shut
int e0/1
descr "LMySlivets-C-RIP-7"
ip addr 80.24.80.1 255.255.255.252
no shut
int e0/2
descr "LMySlivets-C-RIP-5"
ip addr 100.184.86.2 255.255.255.252
no shut
int e0/3
descr "LMySlivets-C-RIP-3"
ip addr 75.58.43.2 255.255.255.252
no shut
int e1/0
descr "LMySlivets-M-RIP-1"
```

```
ip addr 75.58.44.1 255.255.255.252
no shut
int e1/1
descr "L2TP-Server"
ip addr 75.58.46.1 255.255.255.252
int e1/2
descr "L2TP-Client"
ip addr 76.58.46.1 255.255.255.252
no shut

router rip
version 2
network 213.64.13.0
network 80.24.80.0
network 100.184.86.0
network 75.58.43.0
network 75.58.44.0
redistribute connected
end
write
```

▼ C-RIP-7

```
en
conf t
hostname LMySlivets-C-RIP-7
int e0/0
descr "LMySlivets-C-RIP-6"
ip addr 80.24.80.2 255.255.255.252
no shut
int e0/1
descr "LMySlivets-C-RIP-5"
ip addr 80.24.81.2 255.255.255.252
no shut
int e0/2
```



```

descr "LMYslivets-M-RIP-2"
ip addr 80.24.82.1 255.255.255.252
no shut
int e0/3
descr "LMYslivets-M-RIP-1"
ip addr 80.24.84.1 255.255.255.252
no shut
int e1/0
descr "LMYslivets-C-RIP-10"
ip addr 80.24.83.1 255.255.255.252
no shut

router rip
version 2
network 80.24.80.0
network 80.24.81.0
network 80.24.82.0
network 80.24.83.0
network 80.24.84.0
end
write

```

▼ M-RIP-1

```

/system identity set name=LMYslivets-M-RIP-1

/ip address add address=80.24.84.2/30 interface=ether1 di
/ip address add address=75.58.44.2/30 interface=ether2 di
/ip address add address=186.183.48.1/30 interface=ether3 (
/ip dhcp-client remove 0
/routing rip network add network=80.24.84.0/30
/routing rip network add network=75.58.44.0/30
/routing rip network add network=186.183.48.0/30

```

▼ M-RIP-2

```
/system identity set name=LMySlivets-M-RIP-2
```

```
/ip address add address=80.24.82.2/30 interface=ether1 di  
/ip address add address=186.164.48.1/30 interface=ether2 (   
/ip address add address=93.48.240.2/30 interface=ether3 d:  
/ip address add address=77.58.46.1/30 interface=ether4 di:  
/ip dhcp-client remove 0  
/routing rip network add network=80.24.82.0/30  
/routing rip network add network=186.164.48.0/30  
/routing rip network add network=93.48.240.0/30  
/routing rip set redistribute-connected=yes
```

▼ C-RIP-10

```
en  
conf t  
hostname LMySlivets-C-RIP-10  
int e0/0  
descr "LMySlivets-M-RIP-1"  
ip addr 186.183.48.2 255.255.255.252  
no shut  
int e0/1  
descr "LMySlivets-M-RIP-2"  
ip addr 186.164.48.2 255.255.255.252  
no shut  
int e0/2  
descr "LMySlivets-C-RIP-7"  
ip addr 80.24.83.2 255.255.255.252  
no shut  
int e0/3  
descr "EXtraNet-1"  
no shut  
router rip  
version 2  
network 186.183.48.0
```

```
network 186.164.48.0
network 80.24.83.0
end
write
```

▼ OSPF

▼ C-OSPF-1

```
en
conf t
hostname LMyslivets-C-OSPF-1
int e0/0
descr "LMyslivets-M-OSPF-10"
ip address 12.183.10.2 255.255.255.252
no shut
int e0/1
description "LMyslivets-C-OSPF-2"
ip address 12.183.10.5 255.255.255.252
no shut

router ospf 1
network 12.183.10.0 0.0.0.3 area 0
router ospf 1
network 12.183.10.4 0.0.0.3 area 0
end
write
```

▼ C-OSPF-2

```
en
conf t
hostname LMyslivets-C-OSPF-2
int e0/0
descr "LMyslivets-C-OSPF-1"
ip address 12.183.10.6 255.255.255.252
```

```

no shut
int e0/1
description "LMyslivets-M-OSPF-3"
ip address 12.164.13.2 255.255.255.252
no shut
int e0/2
descr "LMyslivets-C-OSPF-3"
ip address 12.183.10.9 255.255.255.252
no shut
int e0/3
description "LMyslivets-M-OSPF-5"
ip address 12.164.14.1 255.255.255.252
no shut

router ospf 1
network 12.183.10.4 0.0.0.3 area 0
router ospf 1
network 12.164.13.0 0.0.0.3 area 0
router ospf 1
network 12.183.10.8 0.0.0.3 area 0
router ospf 1
network 12.164.14.0 0.0.0.3 area 0
end
write

```

▼ C-OSPF-3

```

en
conf t
hostname LMyslivets-C-OSPF-3
int e0/0
descr "LMyslivets-C-OSPF-2"
ip address 12.183.10.10 255.255.255.252
no shut
int e0/1

```

```

description "LMyslivets-C-OSPF-4"
ip address 12.183.10.13 255.255.255.252
no shut
int e0/2
description "LMyslivets-M-OSPF-5"
ip address 12.164.17.1 255.255.255.252
no shut
int e0/3
description "IPSec-IKEv2"
ip address 12.183.20.2 255.255.255.252
no shut
int e1/0
description "IPSec-IKEv2"
ip address 12.183.21.2 255.255.255.252
no shut

router ospf 1
network 12.183.10.8 0.0.0.3 area 0
router ospf 1
network 12.183.10.12 0.0.0.3 area 0
router ospf 1
network 12.164.17.0 0.0.0.3 area 0
router ospf 1
network 12.164.20.0 0.0.0.3 area 0
router ospf 1
network 12.183.21.0 0.0.0.3 area 0
end
write

```

▼ C-OSPF-4

```

en
conf t
hostname LMyslivets-C-OSPF-4
int e0/0

```

```
descr "LMyslivets-C-OSPF-3"
ip address 12.183.10.14 255.255.255.252
no shut
int e0/1
description "LMyslivets-C-OSPF-5"
ip address 12.183.10.17 255.255.255.252
no shut

router ospf 1
network 12.183.10.16 0.0.0.3 area 0
router ospf 1
network 12.183.10.12 0.0.0.3 area 0
end
write
```

▼ C-OSPF-5

```
en
conf t
hostname LMyslivets-C-OSPF-5
int e0/0
descr "LMyslivets-C-OSPF-4"
ip address 12.183.10.18 255.255.255.252
no shut
int e0/1
description "LMyslivets-M-OSPF-5"
ip address 12.164.16.2 255.255.255.252
no shut
int e0/2
description "LMyslivets-M-OSPF-4"
ip address 12.145.12.2 255.255.255.252
no shut
int e0/3
description "ExtraNet-2"
no shut
```

```
router ospf 1
network 12.183.10.16 0.0.0.3 area 0
router ospf 1
network 12.145.12.0 0.0.0.3 area 0
router ospf 1
network 12.164.16.0 0.0.0.3 area 0
end
write
```

▼ M-OSPF-2

```
/system identity set name=LMyshivets-M-OSPF-2

/ip address add address=12.145.10.2/30 interface=ether1
disabled=no comment=LMyshivets-M-OSPF-10
/ip address add address=12.164.11.1/30 interface=ether2
disabled=no comment=LMyshivets-M-OSPF-3
/ip address add address=12.145.11.1/30 interface=ether3
disabled=no comment=LMyshivets-M-OSPF-4

/routing ospf instance add name=default
/interface bridge add name=loopback
/ip address add address=10.255.255.2/32 interface=loopback

/routing ospf instance set 0 router-id=10.255.255.2
/routing ospf network add network=12.145.10.0/30 area=backbone
/routing ospf network add network=12.164.10.0/30 area=backbone
/routing ospf network add network=12.145.11.0/30 area=backbone
```

▼ M-OSPF-3

```
/system identity set name=LMyshivets-M-OSPF-3
```

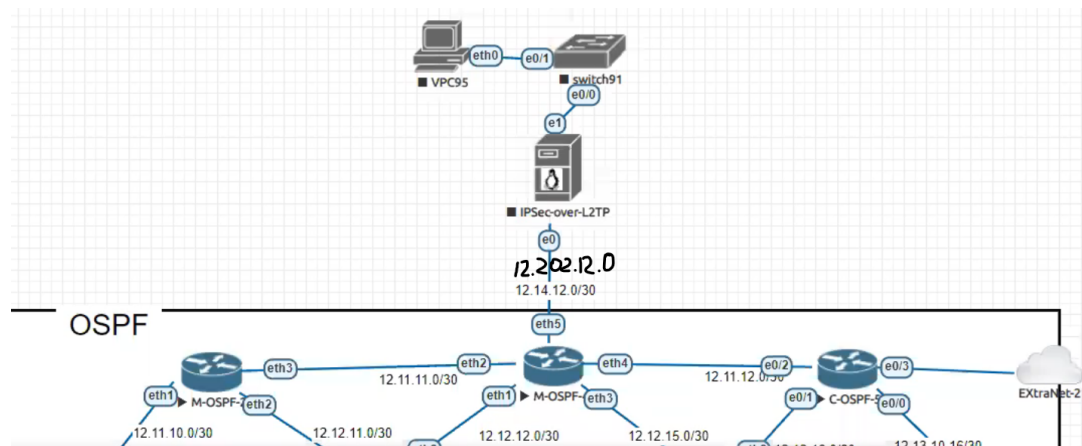
```
/ip address add address=12.164.10.2/30 interface=ether1 d:  
/ip address add address=12.164.11.2/30 interface=ether2 d:  
/ip address add address=12.164.12.1/30 interface=ether3 d:  
/ip address add address=12.164.13.1/30 interface=ether4 d:
```

```
/routing ospf instance add name=default  
/interface bridge add name=loopback  
/ip address add address=10.255.255.3/32 interface=loopback
```

```
/routing ospf instance set 0 router-id=10.255.255.3  
/routing ospf network add network=12.164.10.0/30 area=backbone  
/routing ospf network add network=12.164.11.0/30 area=backbone  
/routing ospf network add network=12.164.12.0/30 area=backbone  
/routing ospf network add network=12.164.13.0/30 area=backbone
```

▼ M-OSPF-4

▼ доп.рис.



```
/system identity set name=LMyshivets-M-OSPF-4
```



```

/ip address add address=12.164.12.2/30 interface=ether1 d:
/ip address add address=12.145.11.2/30 interface=ether2 d:
/ip address add address=12.164.15.1/30 interface=ether3 d:
/ip address add address=12.145.12.1/30 interface=ether4 d:
/ip address add address=12.202.12.2/30 interface=ether5 d:

/routing ospf instance add name=default
/interface bridge add name=loopback
/ip address add address=10.255.255.4/32 interface=loopback
/routing ospf instance set 0 router-id=10.255.255.4
/routing ospf network add network=12.164.12.0/30 area=backbone
/routing ospf network add network=12.145.11.0/30 area=backbone
/routing ospf network add network=12.164.15.0/30 area=backbone
/routing ospf network add network=12.145.12.0/30 area=backbone
/routing ospf network add network=12.202.12.0/30 area=backbone

```

▼ M-OSPF-5

```

/system identity set name=LMySlivets-M-OSPF-5

/ip address add address=12.164.15.2/30 interface=ether1 d:
/ip address add address=12.164.17.2/30 interface=ether2 d:
/ip address add address=12.164.16.1/30 interface=ether3 d:
/ip address add address=12.145.14.2/30 interface=ether4 d:

/routing ospf instance add name=default
/interface bridge add name=loopback
ip address add address=10.255.255.5/32 interface=loopback
/routing ospf instance set 0 router-id=10.255.255.5
/routing ospf network add network=12.164.15.0/30 area=backbone
/routing ospf network add network=12.164.17.0/30 area=backbone
/routing ospf network add network=12.164.16.0/30 area=backbone
/routing ospf network add network=12.164.14.0/30 area=backbone

```

▼ M-OSPF-10

```
/system identity set name=LMySlivets-M-OSPF-10

/ip address add address=14.209.1.2/30 interface=ether1 di:
/ip address add address=18.209.1.2/30 interface=ether2 di:

/ip address add address=12.145.10.1/30 interface=ether3 d:
/ip address add address=12.164.10.1/30 interface=ether4 d:
/ip address add address=12.183.10.1/30 interface=ether5 d:

/ip address add address=15.209.1.2/30 interface=ether6 di:

/routing ospf instance add name=default
/interface bridge add name=loopback
/ip address add address=10.255.255.10/32 interface=loopba:
/routing ospf instance set 0 router-id=10.255.255.10

/routing ospf network add network=12.145.10.0/30 area=back
/routing ospf network add network=12.164.10.0/30 area=back
/routing ospf network add network=12.183.10.0/30 area=back

/routing bgp instance set default as=300 router-id=10.255
/routing ospf instance set [ find default=yes ] distribute
/routing ospf instance set [ find default=yes ] metric-bgp
/routing ospf instance set [ find default=yes ] metric-de:

/routing bgp peer add name=C-RIP-1 remote-address=18.209.:
/routing bgp instance set 0 redistribute-connected=yes

/routing bgp network add network=14.209.1.0/30
/routing bgp peer add name=Main-Router remote-address=14.:

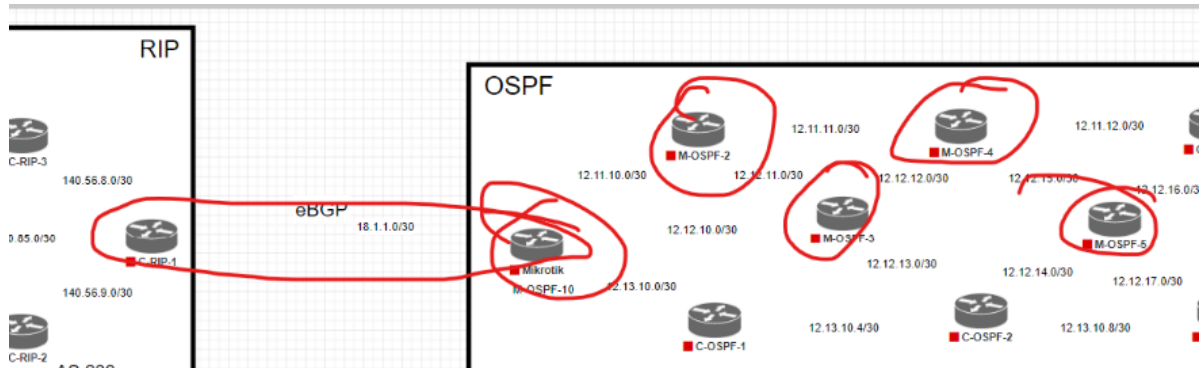
/routing bgp network add network=15.209.1.0/30
/routing bgp peer add name=CiBGP-102 remote-address=15.209:
```

```

/routing bgp instance set default redistribute-ospf=yes

/routing ospf instance set 0 redistribute-bgp=as-type-1

```



▼ Main-router

```

en
conf t
router bgp 100

network 14.209.1.0 mask 255.255.255.252
network 17.209.1.0 mask 255.255.255.252
redistribute static
redistribute connected
neighbor 14.209.1.2 remote-as 300
neighbor 17.209.1.2 remote-as 200
default-information originate
default-metric 1

```

▼ Default route

▼ C-R-4

```
ip route 0.0.0.0 0.0.0.0 10.62.0.2
```

C-R-4-1

```
ip route 0.0.0.0 0.0.0.0 10.126.10.2
```

C-R-4-2

```
ip route 0.0.0.0 0.0.0.0 30.252.2.2
```

C-R-4-3

```
ip route 0.0.0.0 0.0.0.0 30.252.3.2
```

▼ C-R-3

```
ip route 0.0.0.0 0.0.0.0 10.240.0.2
```

C-R-3-1

```
ip route 0.0.0.0 0.0.0.0 16.24.1.2
```

C-R-3-2

```
ip route 0.0.0.0 0.0.0.0 16.24.2.2
```

C-R-3-3

```
ip route 0.0.0.0 0.0.0.0 16.24.3.2
```

▼ C-R-2

```
ip route 0.0.0.0 0.0.0.0 10.43.0.2
```

C-R-2-1

```
ip route 0.0.0.0 0.0.0.0 18.62.1.2
```

C-R-2-2

```
ip route 0.0.0.0 0.0.0.0 18.62.2.2
```

C-R-2-3

```
ip route 0.0.0.0 0.0.0.0 18.62.3.2
```

▼ C-R-1

```
ip route 0.0.0.0 0.0.0.0 10.5.0.2
```

C-R-4-1

```
ip route 0.0.0.0 0.0.0.0 17.240.1.2
```

C-R-4-2

```
ip route 0.0.0.0 0.0.0.0 17.240.2.2
```

C-R-4-3

```
ip route 0.0.0.0 0.0.0.0 17.240.3.2
```



Network_БББО-01-

21_(КБ-2)_Myslivets_Leonid_19_Лабораторная-3_МИРЭА-2023