



Лабораториска вежба бр. 7	GNS3 рутирање		
Име и презиме	Индекс	Група	Датум
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01. Рутирачката табела на рутерот F:

```
R_F#show ip route
Codes: C - connected, S - static, 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
       i - IS-IS, su - IS-IS summary, 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

172.16.0.0/24 is subnetted, 3 subnets
C       172.16.50.0 is directly connected, Serial0/1
C       172.16.40.0 is directly connected, Serial0/0
C       172.16.10.0 is directly connected, FastEthernet1/0
```

R_A		
Destination Network	Mask	Next Hop
172.16.30.0	255.255.255.0	172.16.20.1
172.16.70.0	255.255.255.0	172.16.20.1
172.16.10.0	255.255.255.0	172.16.20.1
172.16.80.0	255.255.255.0	172.16.20.1
172.16.40.0	255.255.255.0	172.16.20.1
172.16.50.0	255.255.255.0	172.16.20.1
172.16.90.0	255.255.255.0	172.16.20.1
R_B		
Destination Network	Mask	Next Hop
172.16.20.0	255.255.255.0	172.16.30.1
172.16.60.0	255.255.255.0	172.16.30.1
172.16.10.0	255.255.255.0	172.16.30.1
172.16.80.0	255.255.255.0	172.16.30.1
172.16.40.0	255.255.255.0	172.16.30.1
172.16.50.0	255.255.255.0	172.16.30.1
172.16.90.0	255.255.255.0	172.16.30.1
R_C		
Destination Network	Mask	Next Hop
172.16.50.0	255.255.255.0	172.16.40.1
172.16.90.0	255.255.255.0	172.16.40.1
172.16.10.0	255.255.255.0	172.16.40.1
172.16.60.0	255.255.255.0	172.16.40.1
172.16.20.0	255.255.255.0	172.16.40.1
172.16.30.0	255.255.255.0	172.16.40.1
172.16.70.0	255.255.255.0	172.16.40.1



R_D		
Destination Network	Mask	Next Hop
172.16.40.0	255.255.255.0	172.16.50.1
172.16.80.0	255.255.255.0	172.16.50.1
172.16.10.0	255.255.255.0	172.16.50.1
172.16.60.0	255.255.255.0	172.16.50.1
172.16.20.0	255.255.255.0	172.16.50.1
172.16.30.0	255.255.255.0	172.16.50.1
172.16.70.0	255.255.255.0	172.16.50.1
R_E		
Destination Network	Mask	Next Hop
172.16.60.0	255.255.255.0	172.16.20.2
172.16.70.0	255.255.255.0	172.16.30.2
172.16.80.0	255.255.255.0	172.16.10.2
172.16.40.0	255.255.255.0	172.16.10.2
172.16.50.0	255.255.255.0	172.16.10.2
172.16.90.0	255.255.255.0	172.16.10.2
R_F		
Destination Network	Mask	Next Hop
172.16.80.0	255.255.255.0	172.16.40.2
172.16.90.0	255.255.255.0	172.16.50.2
172.16.60.0	255.255.255.0	172.16.10.1
172.16.20.0	255.255.255.0	172.16.10.1
172.16.30.0	255.255.255.0	172.16.10.1
172.16.70.0	255.255.255.0	172.16.10.1

02. Рутирачката табела на рутерот Е:

```
This is the R_E Router
R_E#show ip route
Codes: C - connected, S - static, 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
        i - IS-IS, su - IS-IS summary, 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

    172.16.0.0/24 is subnetted, 9 subnets
S       172.16.60.0 [1/0] via 172.16.20.2
S       172.16.50.0 [1/0] via 172.16.10.2
S       172.16.40.0 [1/0] via 172.16.10.2
C       172.16.30.0 is directly connected, Serial0/1
C       172.16.20.0 is directly connected, Serial0/0
C       172.16.10.0 is directly connected, FastEthernet1/0
S       172.16.90.0 [1/0] via 172.16.10.2
S       172.16.80.0 [1/0] via 172.16.10.2
S       172.16.70.0 [1/0] via 172.16.30.2
```



03. Пинг од хостот Е до 172.16.10.1:

```
H-E> ping 172.16.10.1
84 bytes from 172.16.10.1 icmp_seq=1 ttl=254 time=45.176 ms
84 bytes from 172.16.10.1 icmp_seq=2 ttl=254 time=45.361 ms
84 bytes from 172.16.10.1 icmp_seq=3 ttl=254 time=45.292 ms
84 bytes from 172.16.10.1 icmp_seq=4 ttl=254 time=45.032 ms
84 bytes from 172.16.10.1 icmp_seq=5 ttl=254 time=45.148 ms
```

04. Пинг од рутерот А до 172.16.90.1:

```
This is the R_A Router
R_A#ping 172.16.90.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.16.90.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 120/125/128 ms
```

05. Конфигурацијата на рутерот А е:

```
R_A(config)#ip classless
R_A(config)#ip route 0.0.0.0 0.0.0.0 172.16.20.1
R_A(config)#exit
```

06. Конфигурацијата на рутерот В е:

```
R_B(config)#ip route 0.0.0.0 0.0.0.0 172.16.30.1
R_B(config)#ip classless
R_B(config)#exit
```

07. Конфигурацијата на рутерот С е:

```
R_C(config)#ip route 0.0.0.0 0.0.0.0 172.16.40.1
R_C(config)#ip classless
R_C(config)#exit
```

08. Конфигурацијата на рутерот D е:

```
R_D(config)#ip route 0.0.0.0 0.0.0.0 172.16.50.1
R_D(config)#ip classless
R_D(config)#exit
```

09. Рутирачката табела на А:

```
This is the R_A Router
R_A#show ip route
Codes: C - connected, S - static, 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
       i - IS-IS, su - IS-IS summary, 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 172.16.20.1 to network 0.0.0.0

    172.16.0.0/24 is subnetted, 2 subnets
C      172.16.60.0 is directly connected, FastEthernet1/0
C      172.16.20.0 is directly connected, Serial0/0
S*    0.0.0.0/0 [1/0] via 172.16.20.1
```



10. Пинг од хостот Н Е до адресата 172.16.50.2:

```
H-E> ping 172.16.50.2
84 bytes from 172.16.50.2 icmp_seq=1 ttl=252 time=106.695 ms
84 bytes from 172.16.50.2 icmp_seq=2 ttl=252 time=106.438 ms
84 bytes from 172.16.50.2 icmp_seq=3 ttl=252 time=104.900 ms
84 bytes from 172.16.50.2 icmp_seq=4 ttl=252 time=105.283 ms
84 bytes from 172.16.50.2 icmp_seq=5 ttl=252 time=105.669 ms
```

11. Конфигурацијата со RIP за рутерот В:

- `config t, router rip, version 2, network 172.16.30.0, network 172.16.70.0.`

12. Рутирачка табела на рутерот С:

```
R_C#show ip route
Codes: C - connected, S - static, 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
       i - IS-IS, su - IS-IS summary, 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

      172.16.0.0/24 is subnetted, 2 subnets
C      172.16.40.0 is directly connected, Serial0/0
C      172.16.80.0 is directly connected, FastEthernet1/0
```