#### Lab 4: EIGRP

#### Router 0

```
Router#
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router eigrp 100
Router(config-router) #no auto-summary
Router(config-router) #network 192.168.1.0
Router(config-router) #network 192.168.2.0
Router(config-router)#
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.2.2 (FastEthernet0/1) is up:
new adjacency
```

Copy Paste

Тор

#### Router 1:

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router eigrp 100
Router(config-router) #no auto-summary
Router(config-router) #network 192.168.2.0
Router(config-router) #
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.2.1 (FastEthernet0/0) is up:
new adjacency

Router(config-router) #network 192.168.3.0
Router(config-router) #
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.3.2 (FastEthernet0/1) is up:
new adjacency
```

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Тор

#### Router 2:

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) #router eigrp 100
Router (config-router) #no auto-summary
Router (config-router) #network 192.168.3.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.3.1 (FastEthernet0/0) is up:
new adjacency
Router(config-router) #network 192.168.4.0
Router(config-router)#
```

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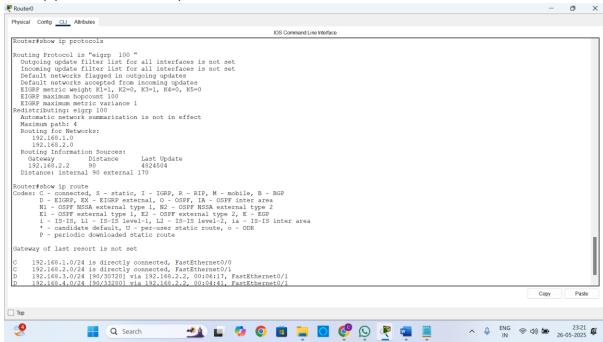
Top

### Show run for router 0:

```
interface FastEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 duplex auto
speed auto
interface FastEthernet0/1
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
interface Vlan1
no ip address
shutdown
router eigrp 100
network 192.168.1.0
network 192.168.2.0
no auto-summary
ip classless
ip flow-export version 9
line con 0
line aux 0
                                                                     Сору
                                                                               Paste
```

) Top

Show ip protocols and show ip route:



## Outputs for the commands:

### #show ip route eigrp

## #show ip eigrp neighbour

# #show ip eigrp topology

```
Router#show ip route eigrp
D 192.168.3.0/24 [90/30720] via 192.168.2.2, 00:07:43, FastEthernet0/1
D 192.168.4.0/24 [90/33280] via 192.168.2.2, 00:06:07, FastEthernet0/1
Router#show ip eigrp neighbor
TP-EIGRP neighbors for process 100
H Address Interface Hold Uptime SRTT RTO Q Seq
(sec) (ms) Cnt Num
0 192.168.2.2 Fa0/1 12 00:09:08 40 1000 0 7
Router#show ip eigrp topology
IP-EIGRP Topology Table for AS 100/ID(192.168.2.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
r - Reply status
P 192.168.1.0/24, 1 successors, FD is 28160
via Connected, FastEthernet0/0
P 192.168.2.0/24, 1 successors, FD is 28160
via Connected, FastEthernet0/1
P 192.168.3.0/24, 1 successors, FD is 30720
via 192.168.2.2 (30720/28160), FastEthernet0/1
P 192.168.4.0/24, 1 successors, FD is 33280
via 192.168.2.2 (33280/30720), FastEthernet0/1
Router#
```

# Ping output:

```
C:\>ping 192.168.4.4

Pinging 192.168.4.4 with 32 bytes of data:

Request timed out.

Reply from 192.168.4.4: bytes=32 time=lms TTL=125

Reply from 192.168.4.4: bytes=32 time<lms TTL=125

Reply from 192.168.4.4: bytes=32 time<lms TTL=125

Ping statistics for 192.168.4.4:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = lms, Average = 0ms

C:\>ping 192.168.4.4

Pinging 192.168.4.4 bytes=32 time=lms TTL=125

Reply from 192.168.4.4: bytes=32 time=lms TTL=125

Reply from 192.168.4.4: bytes=32 time<lms TTL=125

Reply from 192.168.4.4: bytes=32 time<lms TTL=125

Reply from 192.168.4.4: bytes=32 time<lms TTL=125

Ping statistics for 192.168.4.4: bytes=32 time=lms TTL=125

Ping statistics for 192.168.4.4: bytes=32 time=lms TTL=125

Mapproximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = lms, Average = 0ms
```