

Faculty of Engineering & Technology Electrical & Computer Engineering Department

ENCS4130

Todo3 Exp4

Dynamic Routing 2 (Link State Routing Protocols) Open Shortest Path First (OSPF)

Prepared by:

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1190515

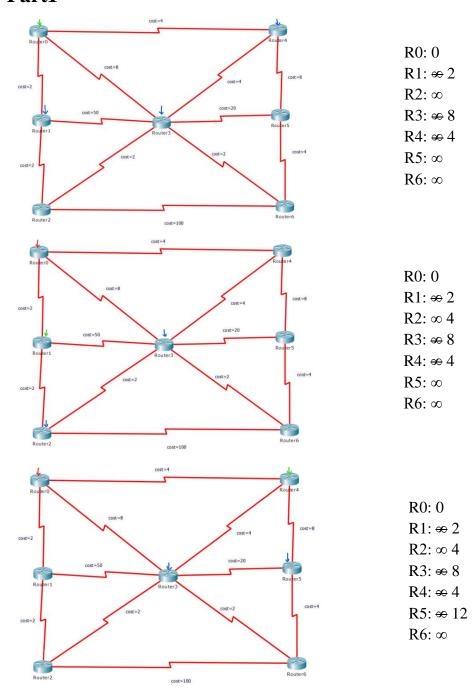
Instructor: Ismail Khater

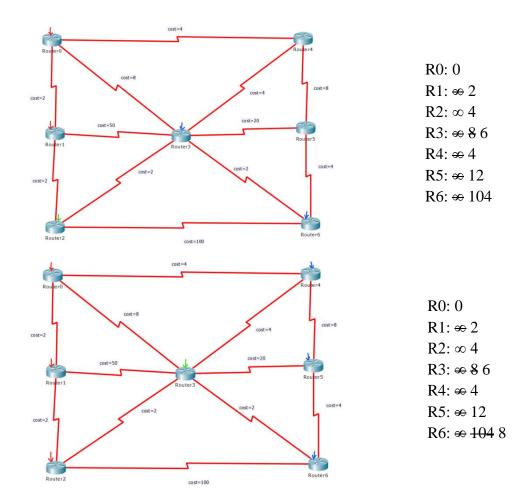
Assistant: Burhan Dar Assi

Section: 3

Date: 2022/7/31

Part1



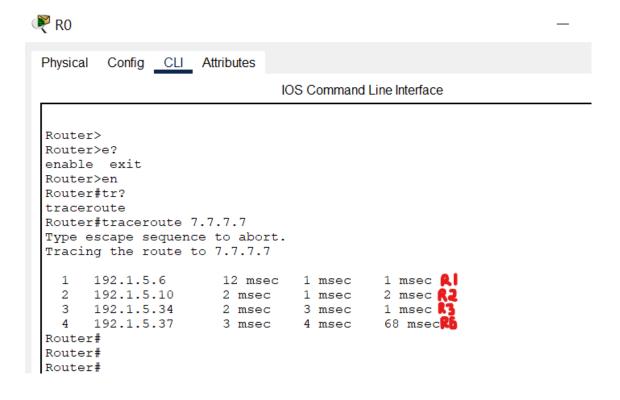


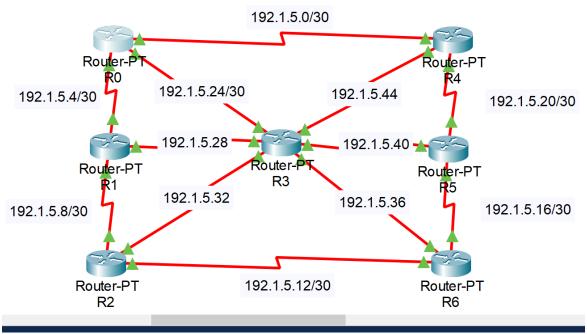
Shortest path: $R_0 \rightarrow R_1 \rightarrow R_2 \rightarrow R_3 \rightarrow R_6$

Shortest path cost: 8

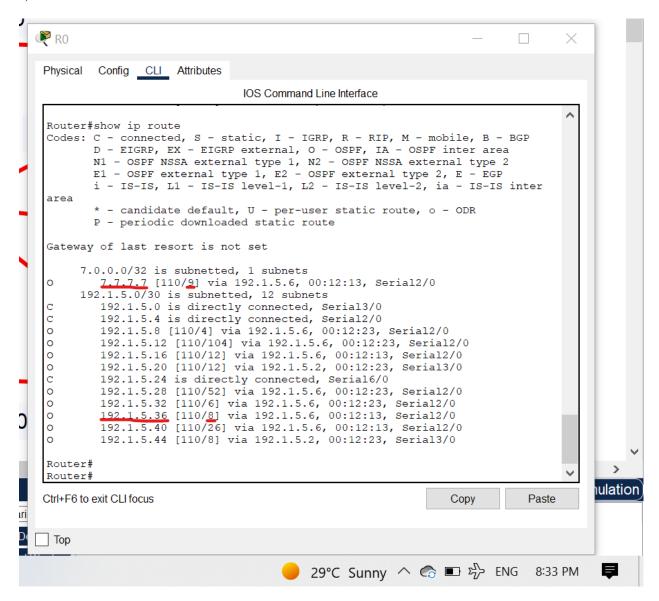
Part2

5)

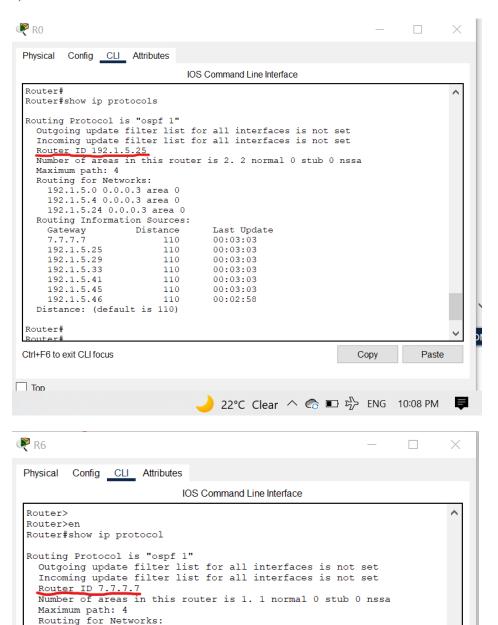




6)



As shown on the image above the cost to get from router0 to router6 is 8 where the packets received on the interface that belong to 192.1.5.36/30 network and to reach loopback0 for router6 you need more $1 \rightarrow 8 + 1 = 9$.



The highest IP on R0 is 192.1.5.25

Because is there an loopback on R6 then its IP is the router ID 7.7.7.7

Last Update

00:02:15

00:02:15

00:02:15

00:02:15

00:02:15

00:02:15

00:02:10

192.1.5.12 0.0.0.3 area 0 192.1.5.16 0.0.0.3 area 0 192.1.5.36 0.0.0.3 area 0 7.7.7.0 0.0.0.255 area 0 Routing Information Sources:

Gateway 7.7.7.7

192.1.5.25

192.1.5.29

192.1.5.33

192.1.5.41

192.1.5.45

192.1.5.46

Distance

110

110

110

110

110

110

110