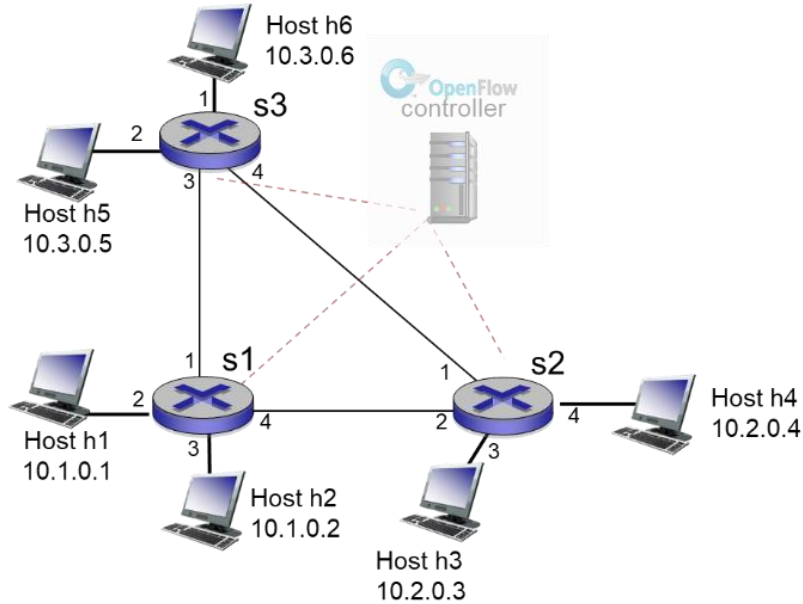


## Exercise 5

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_

### Question 1

Consider the SDN OpenFlow network as shown below.



Suppose that the desired forwarding behavior for datagrams arriving at s3 is as follows:

- any datagrams arriving on input port 4 from hosts h3 or h4 that are destined to hosts h1 or h2 should be forwarded over output port 3
- any datagrams arriving on input port 3 from hosts h1 or h2 that are destined to hosts h3 or h4 should be forwarded over output port 4
- any arriving datagrams on input ports 3 or 4 and destined to hosts h5 or h6 should be delivered to the host specified
- hosts h5 and h6 should be able to send datagrams to each other

Specify the flow table entries in s3 that implement this forwarding behavior.

[4 marks]