

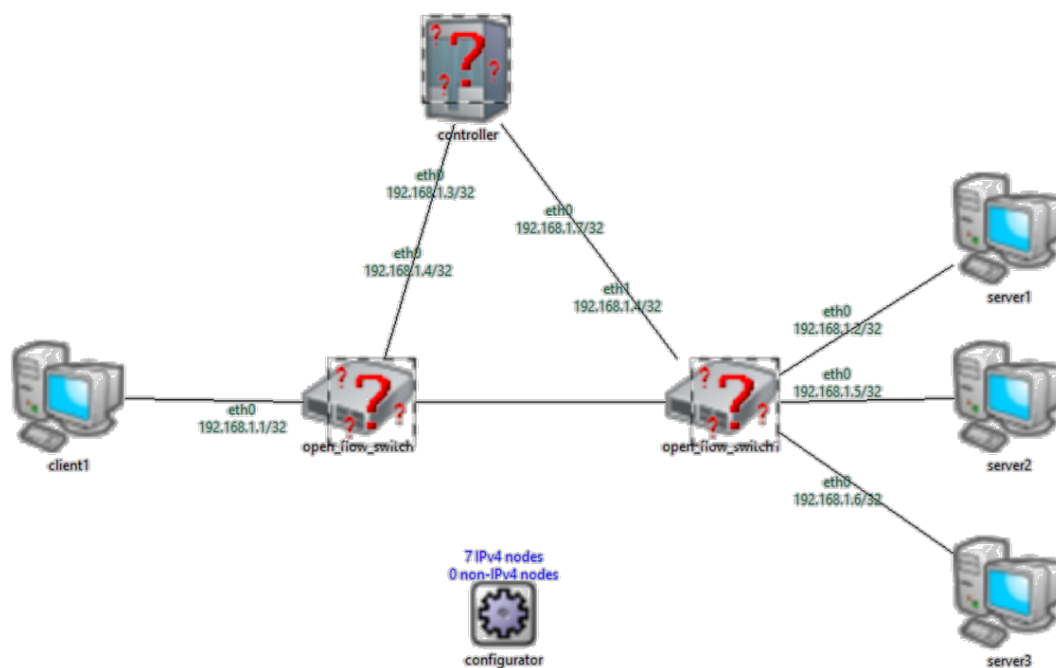
Selected Topics in Computer Networks

CO515

Exercise 2 (submission deadline 31st May 2020)

Implementing a load-balancing application with omnet++.

Use the model shown below and extend the network by introducing more clients (at least more than 15) attached to the OpenFlow switches. You may use more switches if you want to expand the network.



Server 1, Server 2 and Server 3 provide services to the clients. You will simulate this by establishing TCP or UDP packet flow towards the servers (you can decide any service the model supports).

Tasks:

1. Implement load balancing considering the number of user as the criterion for server selection.
2. Briefly describe the deficiencies in the selection criterion given in task 1.
3. Suggest the improvements that you would like to propose over the above criterion.
4. Simulate the above solution by using omnet++ tool.