

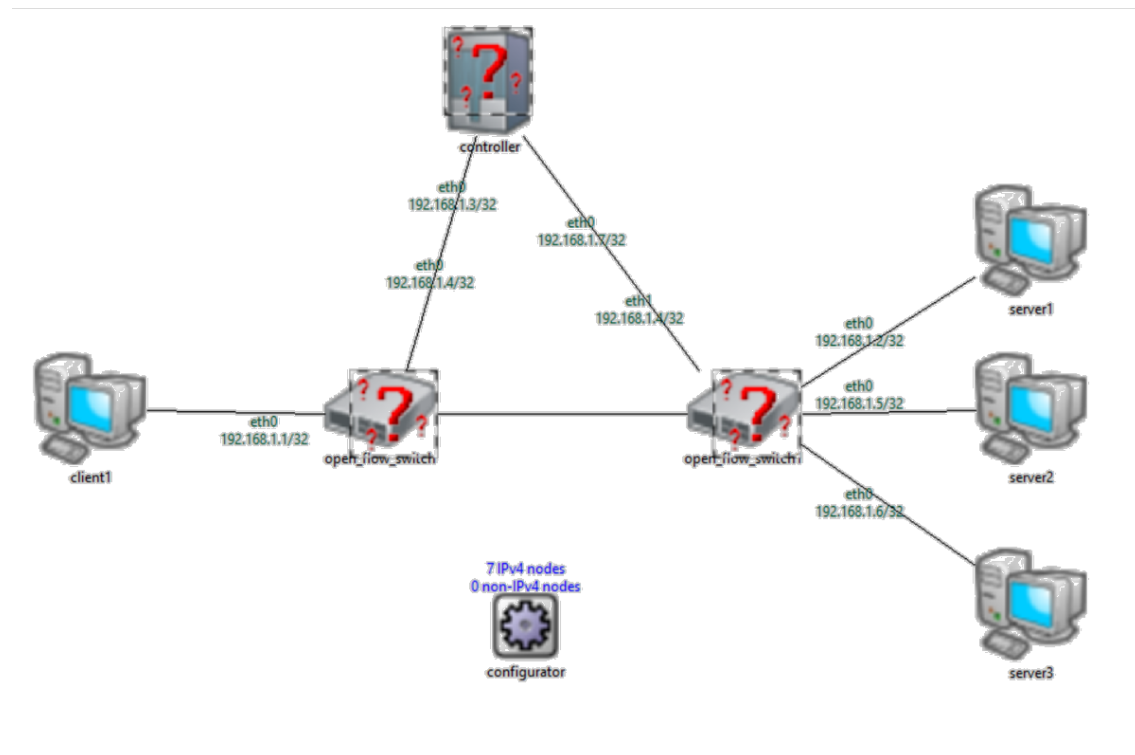
# Selected Topics in Computer Networks

## CO515

### Exercise 1 (submission deadline 19th June 2020)

#### Implementing a packet filtering with omnet++.

Use the model shown below.



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. Identify the criteria that you can use for packet filtering.
2. Use MAC address or IP address to filter packets and simulate it using Omnet++.
3. Identify the security implications of your module.
4. Propose a mechanism to overcome this.
5. Change your simulation model to overcome the said problem.