Group 1 - Broadcast Groups with ONOS VPLS

Scenario: With reference to Figure 1, consider a network of SDN-enabled switches attached to an ONOS controller. The network connects *N* clients to *M* servers.

Design and realize a system that pre-assigns three servers to each client, so that, at runtime, a (layer 2) broadcast packet sent by the client only reaches the assigned servers.

The candidates must use the VPLS application for ONOS to realize the system described above. References and a tutorial can be found online at
https://wiki.onosproject.org/display/ONOS/Virtual+Private+LAN+Service+-+VPLS

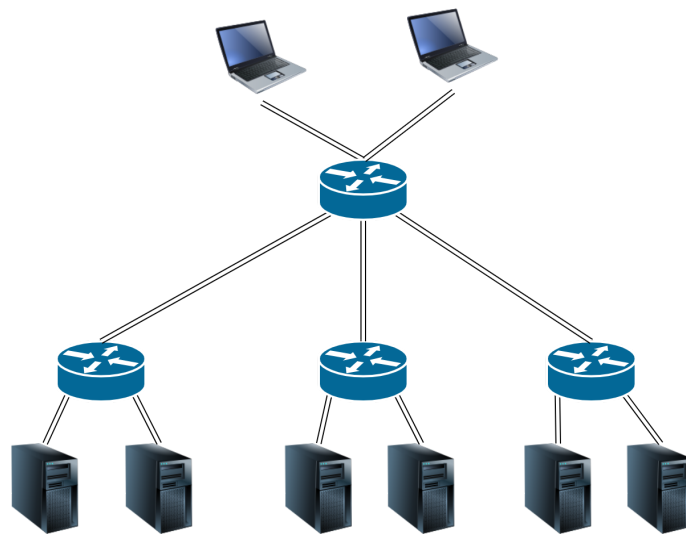Test and demonstrate the network behavior using Mininet and ONOS. The topology in Figure 1 can be used as an example.

Figure 1