

Computer Networks Lab 1

Due date: 2024/11/29 23:59

Topic: SDN controller & Mininet

1. Please identify the SDN controller you used in this lab and perform the installation.
2. Install Mininet as well.
3. Assuming that you are managing a network with the topology below:

IP address of A: IA, Ethernet address of A: EA; IP address of B: IB, Ethernet address of B: EB;

IP address of C: IC, Ethernet address of C: EC; IP address of D: ID, Ethernet address of D: ED.

Specify and realize the Openflow rules on switches S1, S2, S3 that enforce the following policies.

Make sure that all needed communication including acknowledgement can happen.

- (1) Nodes A, B, and C can talk to one another freely.
- (2) Node D has access to ports 22 and 80 of Nodes A and B, but nothing else.
- (3) Node D and Node C cannot talk to each other.

