

# 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.

