CAN201 In-Class Test 2

Building Network Topology with Mininet

Objective

In this in-class test, you are assigned the task of learning how to depict and tailor a network topology utilizing the Mininet Python library.

Task Description

Based on the provided network topology diagram (see Fig. 1), create a network description file that defines the network topology based on the Mininet Python library.

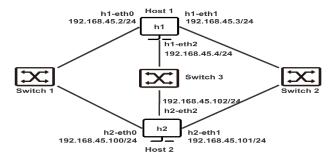


Fig. 1: Network Topology for the in-class test.

Grading Criteria (Total: 5 points)

1. Network Creation (3 points)

- O All the IP addresses are correct according to the specification (1 point).
- o The network topology is correct according to the specification (1 point).
- The network description file executes correctly (1 point).

2. Network Connectivity (2 points)

The Mininet 'pingall' command confirms that all nodes in the network topology can communicate with each other.

Penalty Rules for Late Submission

- 1. [No penalty] Submission before the lab session due.
- 2. [5% penalty] Submission within 24 hours after the due.
- 3. [10% penalty] Submission within 2 days
- 4. [15% penalty] Submission within 3 days.
- 5. [20% penalty] Submission within 4 days.
- 6. [25% penalty] Submission within 5 days.

Submission Guidelines

- ZIP file (name): In-class Test2_StudentName_StudentID.zip
 This zip file includes:
 myTopo StudentName StudentID.py
- 2. Submission: upload the python code file through the submission link on LMO.