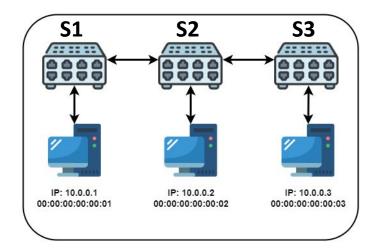


Assignment 6

You are given the following network topology created in Mininet. The switch is configured without a controller, and you are required to manually add OpenFlow rules using **ovs-ofctl** commands on the switch (s1, s2, and s3). The objective is to set up traffic rules based on the following requirements:

- ✓ Objective a: H1 should be allowed to send TCP traffic to H2 and H3.
- ✓ Objective b: H2 is blocked from sending TCP traffic to H3.



Adding Manual OpenFlow Rules on Switches

Task 9. VLAN Tagging and Modification

Tag Incoming Traffic with VLAN ID 100:

sudo ovs-ofctl add-flow s1 in_port=1,actions=mod_vlan_vid:100,output:2

Task 10. Strip VLAN Tag and Forward:

sudo ovs-ofctl add-flow s1 dl_vlan=100,actions=strip_vlan,output:3

Assignment 7

- You are given the following network topology created in Mininet. The switch is configured without a controller, and you are required to manually add OpenFlow rules using **ovs-ofctl** commands on the switch (s1, s2, and s3). The objective is to set up traffic rules based on the following requirements:
- ✔ Objective a: Assign traffic originating from H1 as vlan10, H2 traffic as vlan 20, and H3 traffic as vlan 30 using mod_vlan_vid.
- ✓ Objective b: Allow traffic from each source to destination host using strip_vlan action (i.e all host should be able to communicate despite their different vlan id.)
- Also, show the traffic on the wireshark.

