

CS348 Computer Networks

Assignment 7

Indian Institute of Technology, Patna

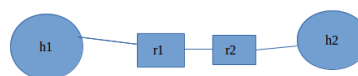
April 1, 2019

Instructions : You have to upload the code along with the outputs for this assignment in a tar file using the lab submission website on or before 14.04.2019. The submission file name should be assign7.tgz.

Problem 1. Write a python code in Mininet to create the topology as shown in the figure 1, where hosts h_1 and h_2 are connected to routers r_1 and r_2 respectively. You need to do a static configuration of the forwarding tables in the hosts and routers so that the hosts are able to ping each other.

A code for a similar topology (figure 2) is uploaded with the name *MininetVM.ova*. You can use VirtualBox to run the VM. The credentials of the user are, userName : mininet, password: mininet. Further, to run the code, follow these steps:

- open Terminal
- `cd /Desktop/cs358_lab7`
- `./run_pox.sh`
- open another Terminal
- `cd /Desktop/cs358_lab7`
- `./run_mininet.sh`
- open a third terminal
- `cd /Desktop/cs358_lab7/router`



h

Figure 1: A switching network

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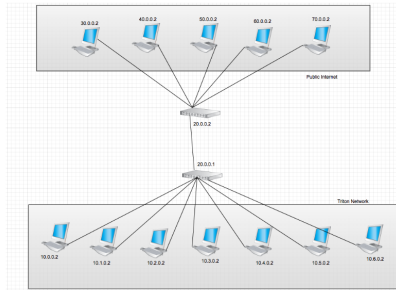


Figure 2: A switching network

- `./sr -v sw1 -r rtable_topoa1`
- open fourth terminal
- `cd /Desktop/cs358_lab7/router`
- `./sr -v sw2 -r rtable_topoa2`

You need to submit a documentation of the available code.