

# January 2023 CSE 406

## Online on Firewall - A2

**Total Marks: 10**

**Time Duration: 30 minutes**

To guard against attacks on our internal network, we need to take caution. First and foremost, we only want TCP connections and UDP packets to be used for communication between hosts on the external network and the servers on the internal network. Second, a maximum of 3 TCP connection requests and 5 UDP packets can be sent by each IP address on the external network. The TCP and UDP connections can happen in any order. The additional request tries will be rejected.

**You must use Netfilter to implement this.** You can't use iptables.

Here is a diagram of the network given for your reference.

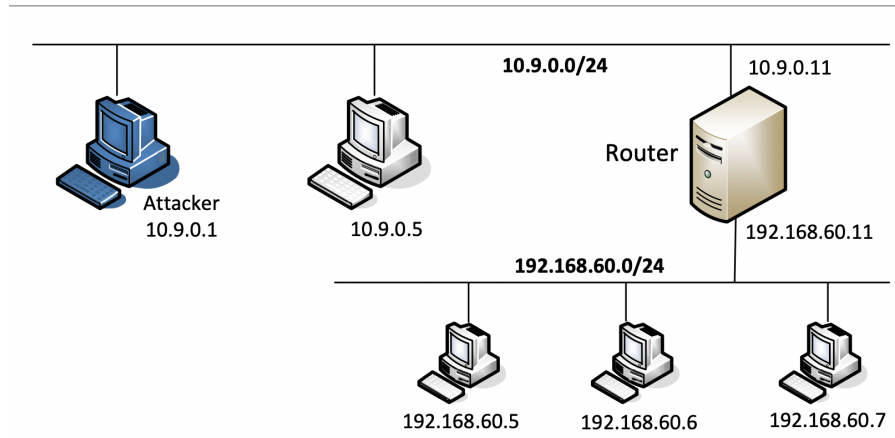


Figure 1: Lab setup

## Mark Distribution

	Task Detail	Marks
1	Proper Implementation of Task	8
2	Proper simulation of task	2

## Submission Guideline

1. Submit the source file only on Moodle. No need to submit MakeFile or any other files.