

Computer Networks Laboratory
Home Assignment
Full marks: 20

This assignment must be submitted in groups of two students.

Submit two files - one should be a packet tracer file and the other should be a pdf file. They must include the following:

1. The packet tracer file must contain a network where you must apply Network Address Translation. You have to watch 4 videos on NAT and do this assignment. Go to youtube -> SkyNet Academy -> Playlists -> Network Address Translation (NAT):

<https://www.youtube.com/watch?v=kNigLMmo8SA&list=PLUlvGVVr3HwDu3JdkcsFFnB01op0sPyAz>

In the network, you must keep the following:

- a. At least 10 PCs.
- b. At least 4 routers.
- c. At least 5 servers.
- d. At least 7 switches.

Then apply NAT on this network. The design of the network can be anything according to your wish. But do not copy the network from the lab manual or the youtube video. In that case, your marks will be deducted.

2. The second file that you have to submit is a pdf file that will contain a report on your work. Briefly describe what NAT is and why you need it, then take a screenshot of your network and keep it in the report. Describe your unique network and give a detailed description of the IP addresses and any other setup. Do not exceed 2 pages.

You must write the Student ID and names of both the members in the pdf report. Only one member from each group needs to make a submission on elms in that case. Please submit the assignment within 3 weeks. Notice the deadline on elms.