



COMPUTER NETWORK

SECTION 02

PROJECT (TASK 7b)

LECTURER : Ms. Hazinah Kutty Mammi

GROUP NAME : NetSecret

GROUP MEMBERS :

NAME	MATRICS NUM
PRAVIN SIVANATHAN	A21EC0123
SADIK AL MAHMUD	A20EC4049
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MOHAMMED HUSSEIN SALEH BA ABBAD	A21EC4015

My contribution to the group and the project work

Starting off with Task 1, I've given ideas on altering the existing topology based on the current project's criteria. Through discussion we have selected Mohammed's previous Network communication projects's network topology as our Computer Networks project network topology. On task 2, I came up with the network topology design. I suggested my team to place a router at each floor instead of on each room due to cost cutting and not to make the configurations complex on later parts of the project. Additionally, I suggested the arrangements of each subnet and hosts in each subnet as such to look more organized and easier to make changes in future if needed. In task 3, I was responsible for subnetting the given network address according to the needs in our network topology. I did the calculations on the subnetting which later guided my team to transfer it on the google docs for report purposes. In task 4, I took care of the dynamic routing algorithm on our network. I used the EIGRP routing algorithm in our network so that the routers could learn by themselves in case any changes happen in the network. On task 5, I was involved in planning the VLANs that can be implemented in our network. Additionally, I was responsible for documenting the configurations in the report. Moving on to task 6, I was responsible for documenting the report. I did screenshots of the configurations which were done by my other team members.

Detail group members' contribution to the group and the project work

1. Mohammad

I'm glad that he is part of our group since he has given his full commitment to the project. He is so enthusiastic about this project as he will be always referring to the lecturer in case of any errors or difficulties we face during the configurations. He will always manage to attend the project meeting regardless of the time. He showed much involvement in this project as

He took care of the whole configurations in task 5 and task 6 which are involved with VLANs and DHCP. Apart from that, he transferred all the subnetting calculations to documentations.

2. Sadik

He does his part if others take effort to divide the tasks among us. Most of the time he was doing documentation. Not so responsive in the whatsapp group. Hence, missed quite a number of group meetings.

3. Abdul Azim

Helped during designing the network topology. Took care of most of the documentation work. Managed to attend most of the program meetings.

Explanation on how did i work as a group

I always took the first step throughout this project as initiating a meeting to divide tasks. Most of the task division will be done by me. There were times where one should wait for others to complete their part in order to complete theirs. In that case dueline for each of the project members varies. To overcome the situation, I volunteered myself to do tasks which have shorter duelines. When a team mate failed to complete his tasks within the given time, I didn't hesitate to do his parts in order to submit the tasks before the deadline. During floor plan and topology designing we as a team sat together and managed to come up with better designs after some time of brainstorming.

Explanation on what I learned from working as a group

I learned that completely relying on teammates would bring up some complications in the group. Since there were times where my group mate wasn't able to finish his part within the time given, others were not knowledgeable about the part. That caused havoc in the group. So the foremost lesson I learned then was that I have to learn to do everything regarding the project even if it's not related to the tasks assigned to me. Secondly, I learned to be a good leader of a project team. Each and every time we received a task, I dragged myself to have meetings to discuss and divide the tasks so that we could finish up before the due. At any instance, if i failed to do the progression of the tasks will be slow and we all had to rush when the due is around the corner.

Explanation on what I learned from doing this project

I tend to learn deeply the syllabus taught in Network Communication class when progressing the projects. Packet Tracer was new and difficult to me during the early semester which turned out to be a piece of cake after trying out various designs of our network topology. Secondly, the project helps me to understand configurations on dynamic and static routing algorithms very well. When I implement those algorithms in my own network topology, I tend to understand the back-end concepts in depth.

On the other hand, I learned to do subnetting very well once task 2 and task 3 was done. Since in our network there are rooms with different numbers of hosts, the subnetting got a little complicated which we managed to complete. Through the hassle, subnetting became hands-on to me. Lastly, VLANs and DHCP concepts were well understood after completion of this project.

Comments and suggestions on the project

From my personal opinion, I would suggest that we should get acknowledged about VLANs, DHCP and routing algorithms before starting the project. This is because, when tasks were passed one by one there were changes made on our topology and initial configurations. If we were already alert about the changes we are probably going to face we could prepare a topology with configurations which is easier and more convenient to modify. As a group we came up with a good project but it can be much better if all of the group mates were given their commitments throughout the project. Carrying out the project with less functioning team members was tough.