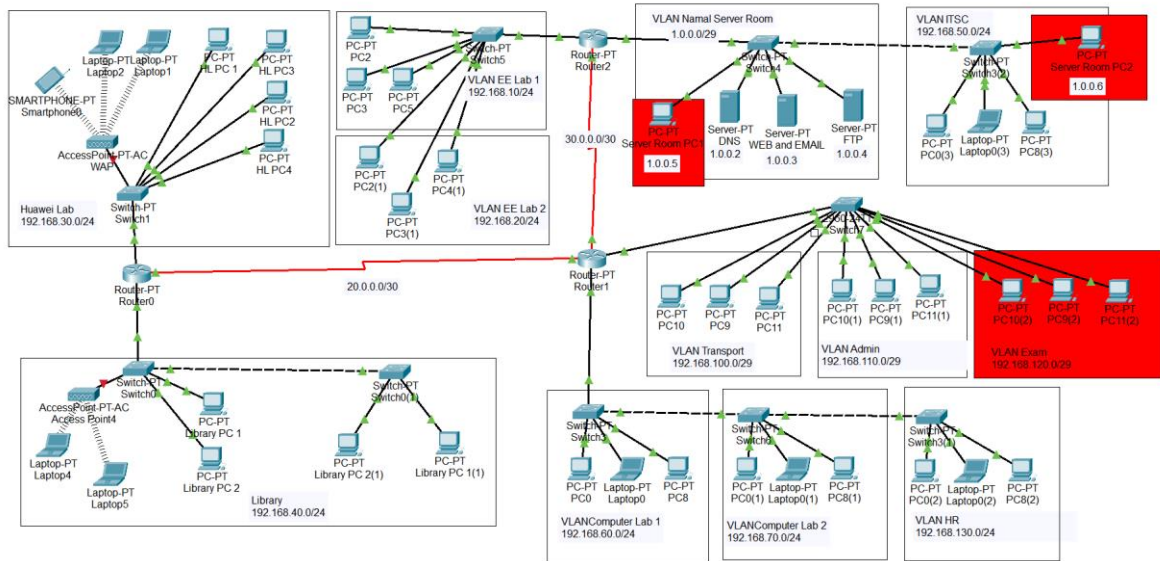


## Computer Networks Lab Project



### Guidelines:

- Configure Email Server that contains your Namal email addresses. (Email address of each working member should be added)
- Configure the DNS server to resolve the email and website address of the Namal.
- Configure HTTP (Web) server to serve the Namal website page upon request.
- Configure the FTP server and a .txt file should be uploaded to FTP by each member in which he/she will describe his/her contribution to the project. Each group member should add an account to the FTP server to access the files.
- VLANs/Computers that are marked red should be protected from other networks by using Access Control Lists (ACLs)
- DHCP should be configured on each router (excluding the server room connection) to assign the IP address to each host.
- Wireless Access Points (WAP) should be protected by passwords.
- VLAN should be configured on the desired switches and Router on a stick configuration should be used.
- OSPF should be used as a Routing protocol. VLANs should be able to connect to other VLANs.
- Configure email client for each group member on Huawei Lab PCs. The test emails should be exchanged between each group member.
- Namal Website and FTP should be accessible from all PCs.

- A project report should be made for this project. The project report should contain the following at minimum:
  - Project Description
  - Work description that describes the work that you have done to achieve the desired results
  - Snapshots of the commands that you used to configure the routers (for routing, router-on-a-stick configuration, DHCP configuration) and switches (for VLANs, Trunk tagging)
  - Snapshot of the Namal webpage accessible from other PCs.
  - Snapshots of the emails sent and received
  - Working of ACL in the network (include screenshots)
  - Contribution of each group member
  - The outcome of the project i.e., the skills that you have learned and the knowledge that you have gained from this project
- Upload .pkt and project report on QoBE

### Rubrics Sheet

Task	Marks
Network Creation in Packet Tracer	5
Project Report	5
Viva Voce	5

Best of Luck 😊