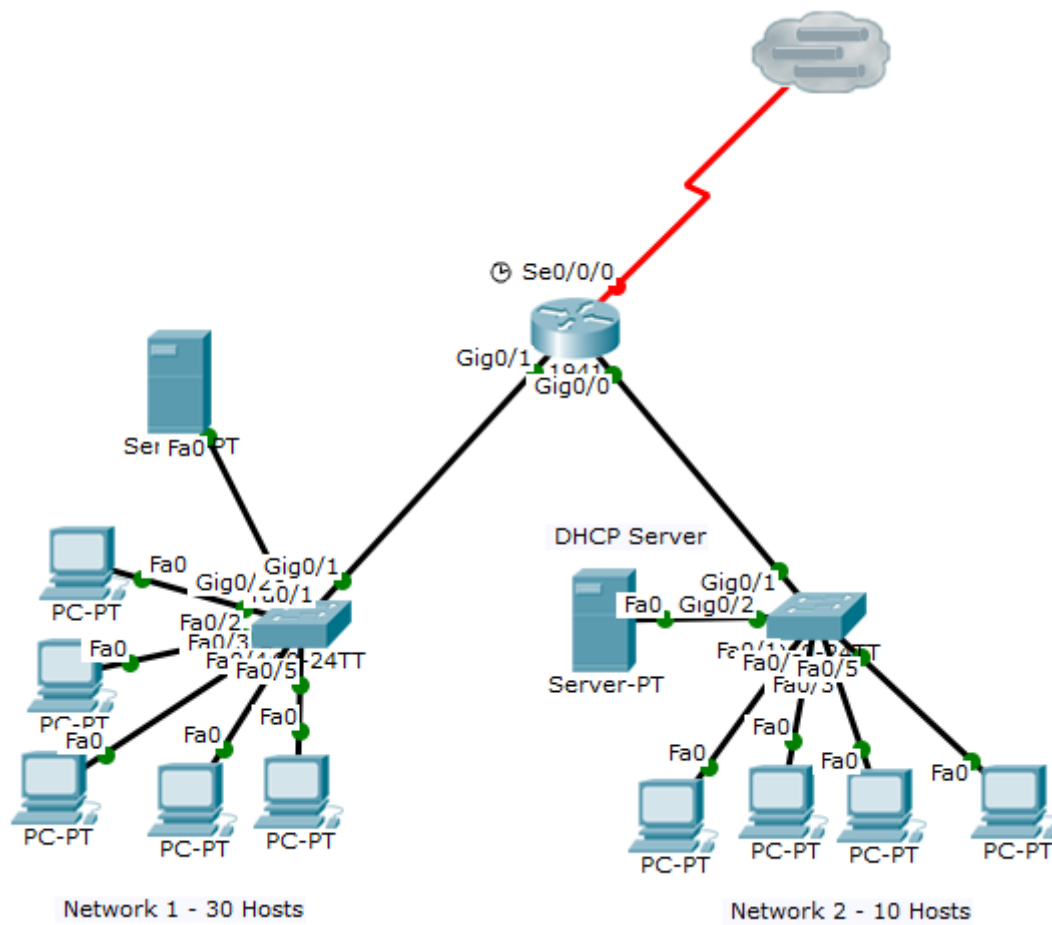
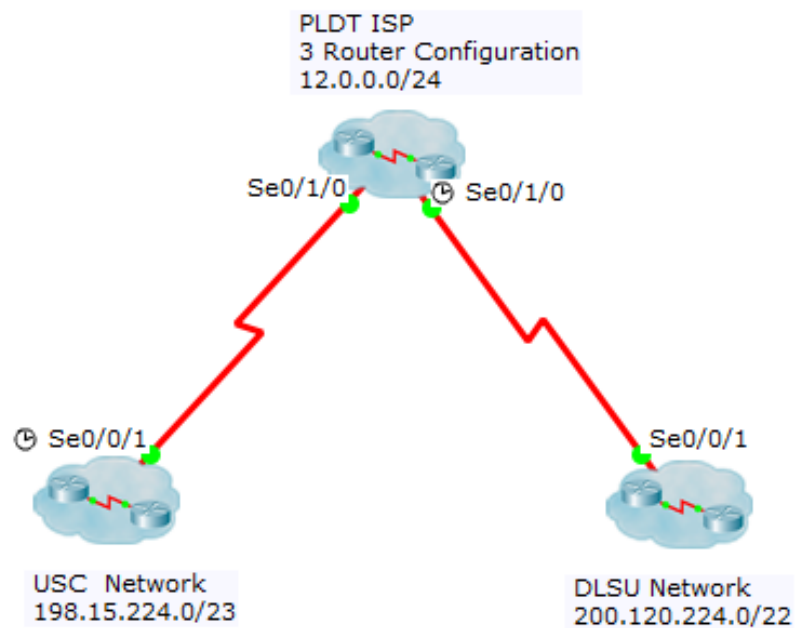


F Lab Activity 8.0.2.1 - Implementing Access Control List over multi-user setup

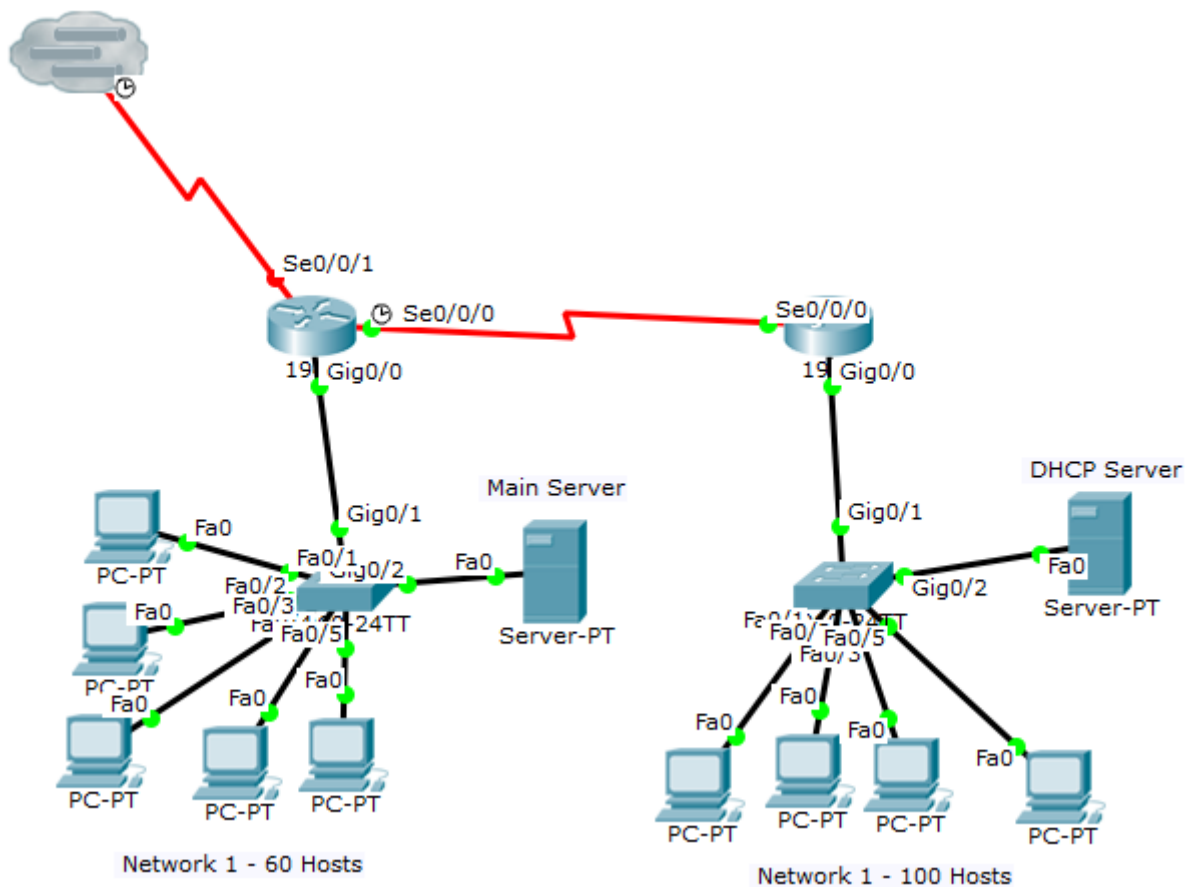
Topology



DLSU NETWORK



PLDT ISP



USC NETWORK

Objectives:

1. Develop the topology consisting of different files

File 1: University of San Carlos Network

File 2: De La Salle University Network

File 3: PLDT ISP

2. Compute for the Addresses basing on the given topology

3. Configure the services of the server for USC and DLSU

Main Server

- DHCP
- DNS
- HTTP
- FTP
- SMTP

4. Protocol Configuration

- DLSU - OSPF 10
- USC - EIGRP 10
- PLDT - EIGRP 20

5. Use Multi-user set up connect USC and DLSU via PLDT ISP

6. Access Control List Implementation

a. USC Network - use Extended ACL

- All PC including DHCP Server are blocked to access VTY to all Routers except the ISP Routers; the Main Server is permitted to telnet USC Routers but denied to telnet DLSU Routers
- All PC from Network 2 - 100 hosts are denied to access the FTP Server but can access Email and Web
- All PC from Network 2 - 100 hosts are denied to access the FTP Server of DLSU but can access Email and Web, All PC from Network 1 - 60 hosts are permitted to access FTP, HTTP and SMTP

b. DLSU Network - use Extended ACL

- All PC including DHCP Server are blocked to access VTY to all Routers except the ISP Routers; the Main Server is permitted to telnet DLSU Routers but denied to telnet USC Routers
- All PC from Network 2 - 10 hosts are denied to access the FTP Server but can access Email and Web
- All PC from Network 2 - 10 hosts are denied to access the FTP Server of DLSU but can access Email and Web, All PC from Network 1 - 30 hosts are permitted to access FTP, HTTP and SMTP

c. PLDT Network - use Standard ACL

- A connected host from PLDT network can telnet only the directly connected router on the ISP, denied to access internal routers of USC and DLSU

Rubrics/Checking

1. Topology - 10 pts

2. Addressing - 5 pts

3. Server setup - 15 pts

- DHCP - 2 pts
- DNS - 2 pts
- HTTP - 2 pts
- FTP - 4 pts
- SMTP - 5 pts

4. MultiUser Set up - 5 pts

5. ACL Implementation - 30 pts

PLDT - 10 pts

USC - 10 pts

DLSU - 10 pts

6. Connectivity - 10 pts