PAMANTASAN NG LUNGSOD NG MAYNILA
(University of the City of Manila)
Intramuros, Manila

COLLEGE OF ENGINEERING AND TECHNOLOGY

Major Project for Networking 2 (Lab & Lecture)

Scenario:

The school/company has assigned your team to develop a network architecture that supports the needed requirements.

1. The school/company has 5 different sites which contains different servers. See details below.
   a. Singapore City, Singapore
      i. SMTP Server (Secondary)
      ii. DNS Server (Secondary)
   b. Kuala Lumpur, Malaysia
      i. Web Server (Secondary)
      ii. Database Server (Primary)
   c. Los Angeles, California
      i. Web Server (Primary)
      ii. FTP Server (Secondary)
   d. Manila, Philippines
      i. SMTP Server (Primary)
      ii. DNS Server (Primary)
   e. Taipei, Taiwan
      i. FTP Server (Primary)
      ii. Database Server (Secondary)
2. Each site/s has 4-5 different departments with 300 employees on each (per site)
3. Each server/s and network devices should have redundancy to make sure that it is up and running at all times
4. The following configuration is needed.
   a. DHCP
   b. Static NAT
   c. Access-list
   d. VLAN
   e. High Availability
   f. Routing protocols i.e EIGRP, OSPF, RIPv2
5. The school/company has given you the private IP: 10.0.0.0/8 (Your professor will provide you the Public IP Range per group)
6. Your team should present your work on or before January 15, 2022.