



Project Report

Course Code: CSE405

Title: Computer Networks

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Network Background:

International APOLLO University, is an enterprise like East West University, owns a large number of computers, with a complex network infrastructure. Apart from wired internet access to all the classrooms, labs, employee PCs, library and other administrative and academic wings, the university also provides wireless internet access for everyone. On top of that the university runs a number of complex networked systems to support several of its business process like admissions, advising, results, eTender, library management, accounts and so on. This complex network infrastructure is sub netted and switching/routing mechanisms are in practice.

Tools:

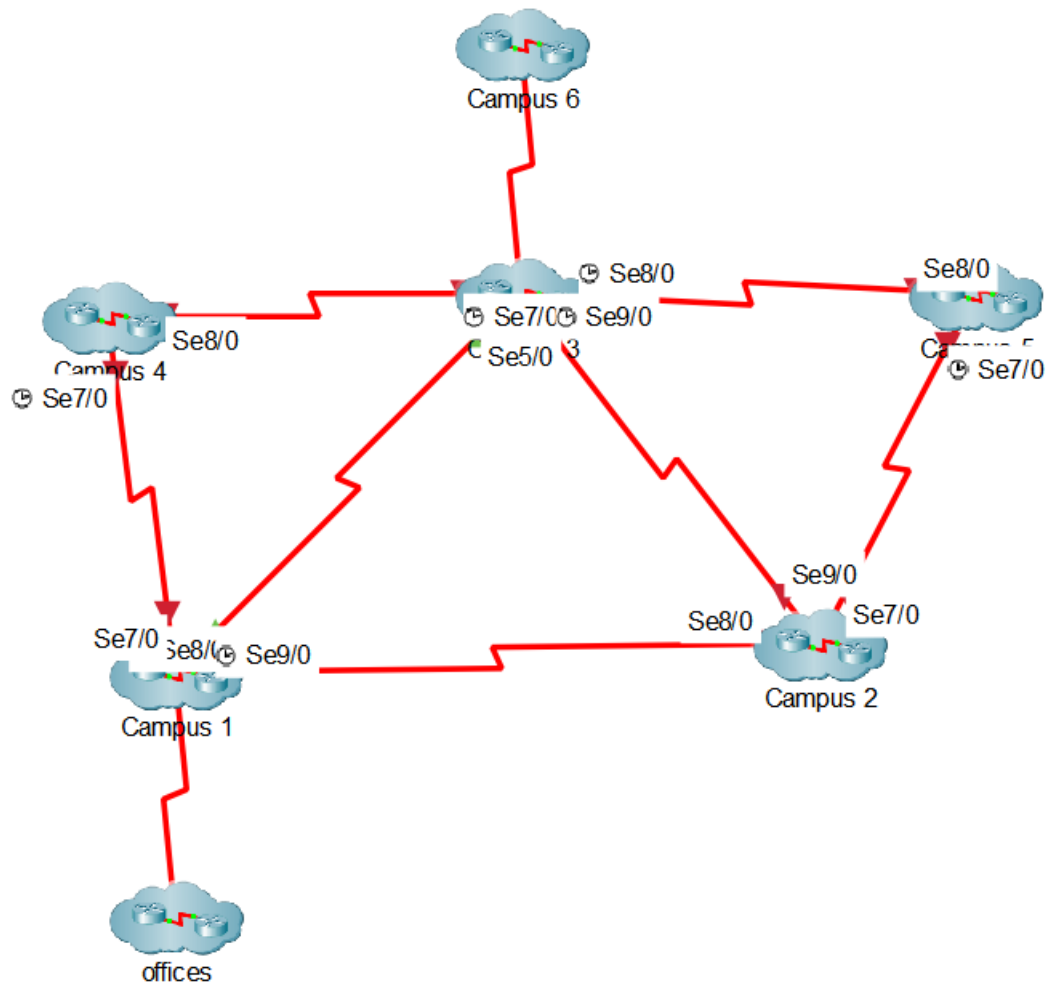
‘Cisco Packet tracer’ has been used to implement the whole network.

Description:

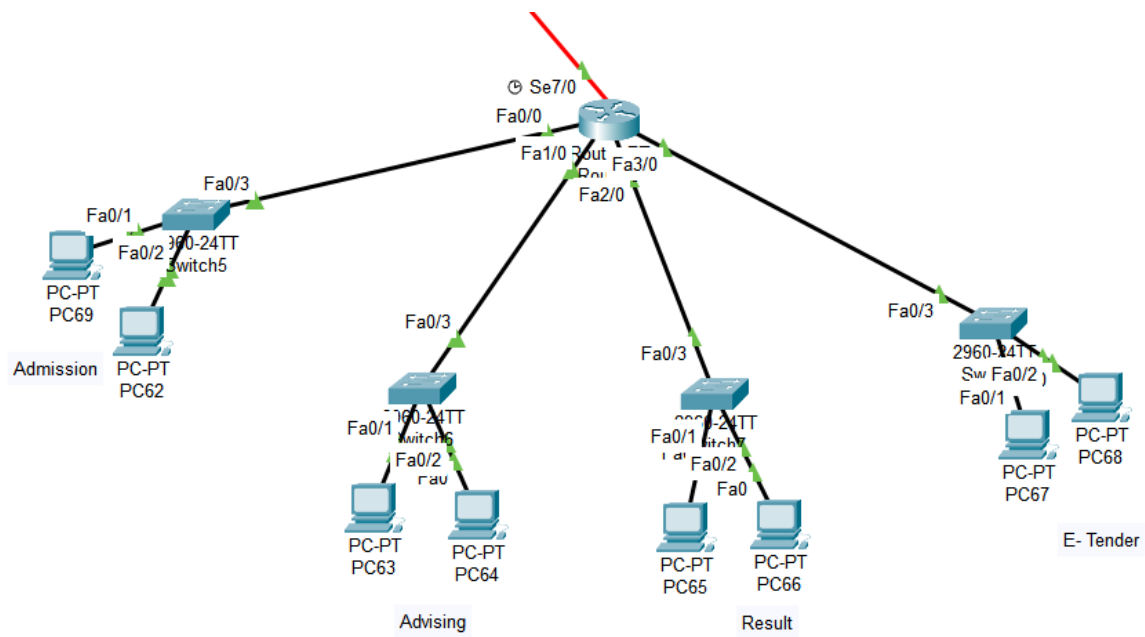
There are 6 campuses throughout the network. Campuses are grouped. Each campus has a network of all 20 classrooms on that campus (one PC per classroom), a computer lab with 30 PCs, other labs, seminar rooms, and libraries. All networks are open to extensions. There are about 428 hosts in total. All hosts are subnetted. The IP address is configured by the DHCP server. We also have a cluster of 4 networks connected to router of campus 1 advising, admission, result and e tender processes.

Design:

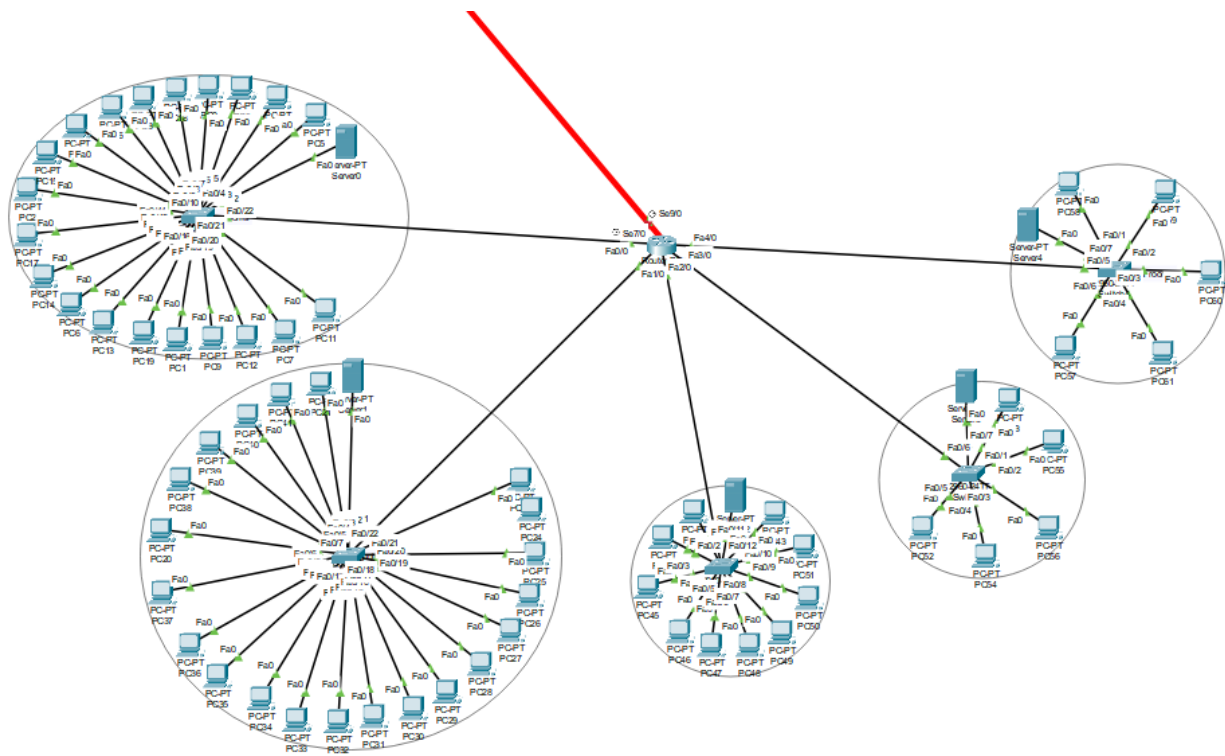
All the campuses:



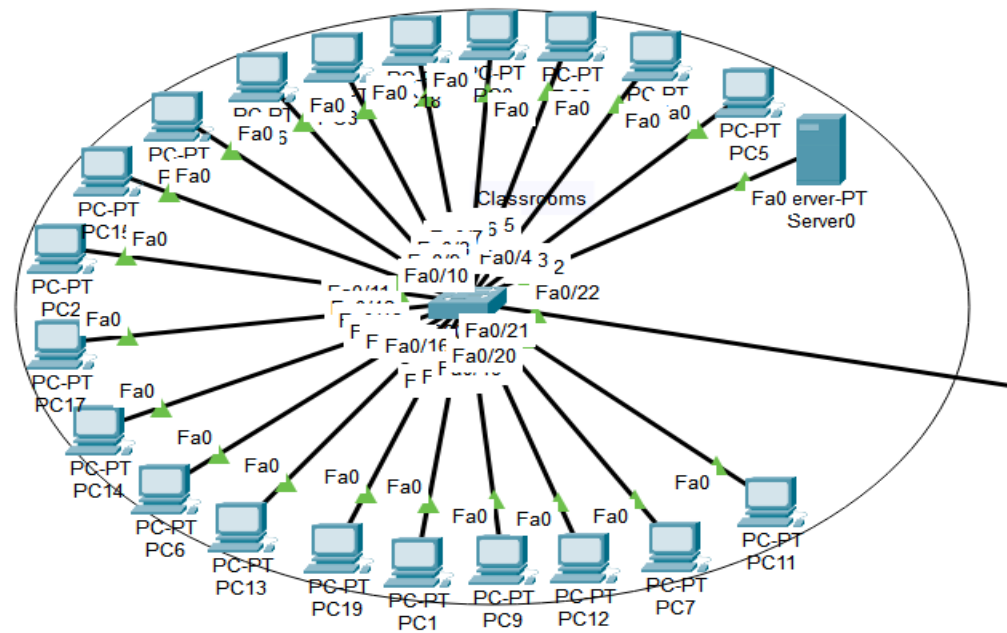
Office:



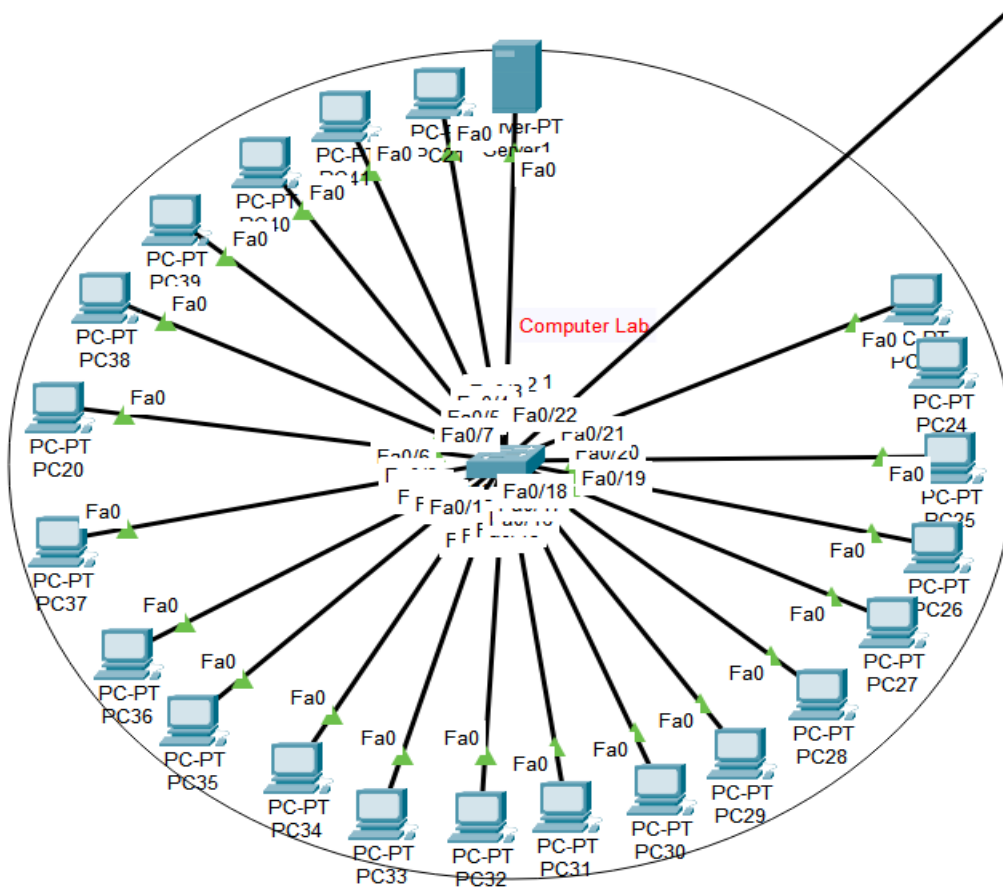
A Campus:



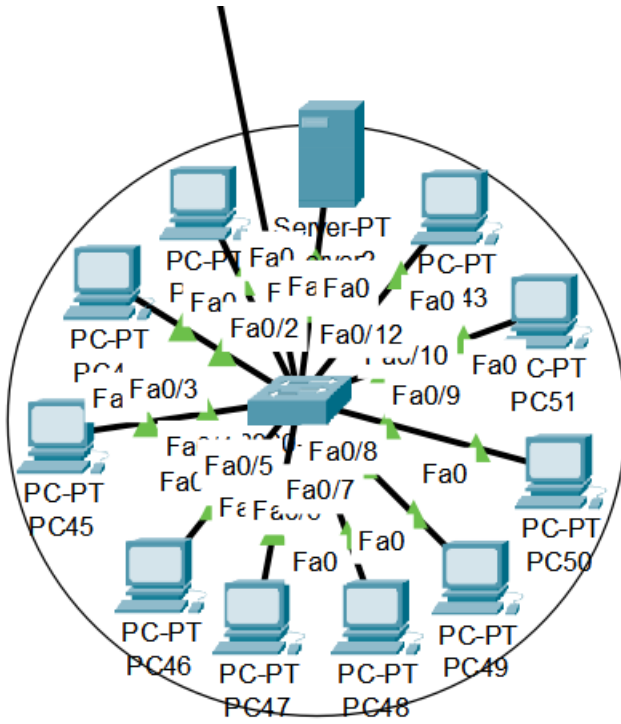
Classroom in a campus:



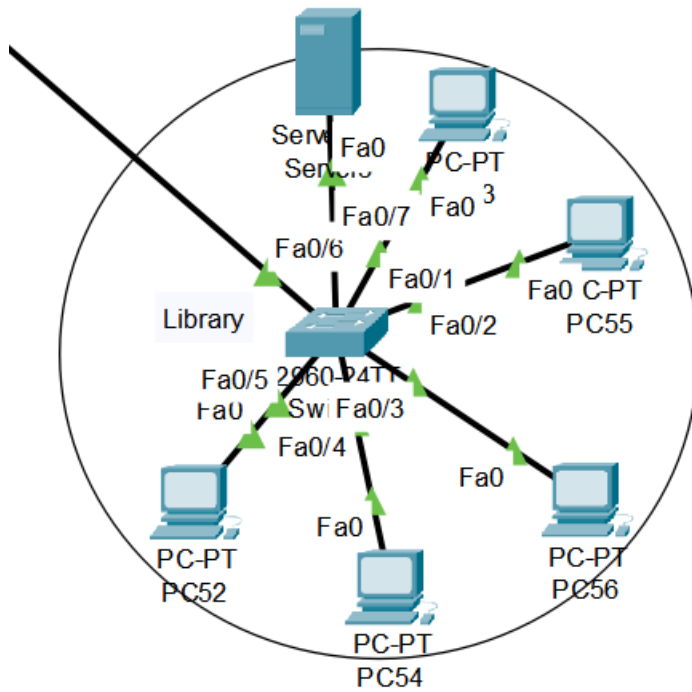
Computer Lab:



Other Lab:



Library:



Seminar room:

