CAMPUS Network Design using Cisco Packet Tracer

Table Content

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1.0 INTRODUCTION

The Modern World used Communication System to Communicate whether Personal or Organization to share information between them such of documents.

This project is A Campus area network is an essential part of Campus. A Campus has several uses such as, result publishing, resource sharing, file sharing, communication, etc. The Campus Area Network is about designing a topology of a network that is Combine WAN(Wide Area Network) and LAN (Local Area Network) for a Campus in which various computers of different buildings and branch are Setup so that they can interact and communicate with each other by interchanging data. To design a network for a Campus, which connects various departments and buildings to each other's, it puts forward communication among them. One of the purposes of networking is to reduce isolated users.

Campus area in which different department has some computers in different buildings set up their network so that they can interact and communicate with each other by interchanging data. Network is designed using Cisco Packet Tracer. Cisco Packet Tracer (CPT).

1.1 PROJECT REQUIRMENT DEVICES

1.1.1 Cisco Network Devices used this project is:

1. Cisco router 2811
2. Cisco switch 2960 using
3. Pc using
4. Printers
5. Servers

1.2 PROJECT TOPLOGY

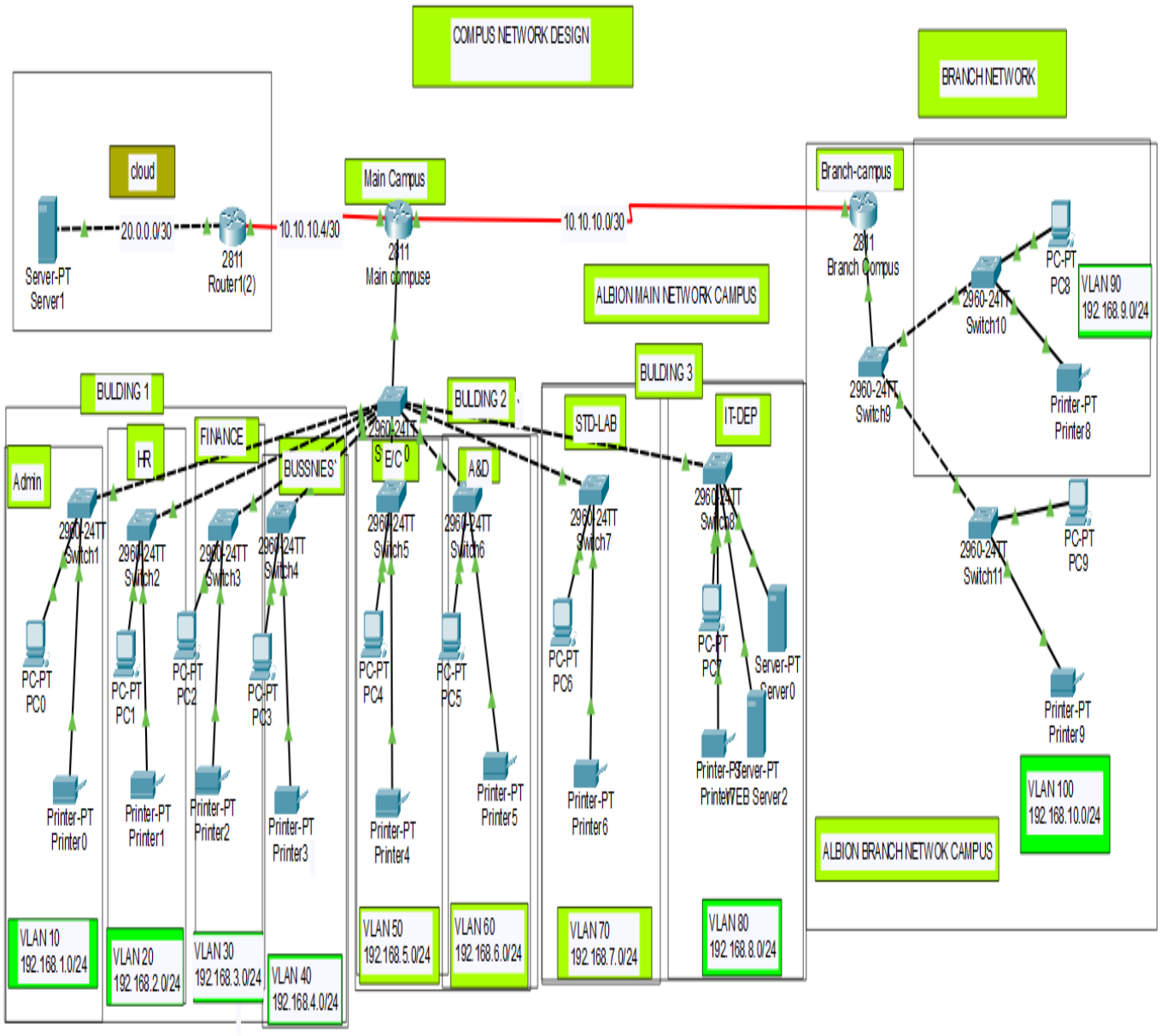

FIGURE 1.0 PROJECT TOPOLOGY

1.3 Network IP Address Table

LAN Network Address	WAN Network Address
192.168.1.0/24	10.10.10.0/30
192.168.2.0/24	10.10.10.4/30
192.168.3.0/24	,,
192.168.4.0/24	,,
192.168.5.0/24	,,
192.168.6.0/24	,,
192.168.7.0/24	,,
192.168.8.0/24	,,
192.168.9.0/24	,,
192.168.10.0/24	,,
20.0.0.0/30	,,
	,,
	,,

1.4 Protocol used this Project

1.4.1 Router Protocols that used is: -

- ✓ Dynamic Host Configuration Protocol (DHCP).
- ✓ Enhanced Interior Gateway Routing Protocol (EIGRP)
- ✓ Static routing for cloud network

1.4.2 Switch Configuration that used: -

- ➢ Vlan configuration.
- ➢ Access point
- ➢ Trunk

1.5 Conclusion

Network design is about designing a topology of a network that is a LAN (Local Area Network) and WAN (Wide Area Network) for a Campus NETWORK in which various computers of different departments and buildings are Setup so that they can interact and communicate with each other by interchanging data. To design a network for a Campus, which connects various departments and buildings to each other's, it puts forward communication among them. One of the purposes of networking is to reduce isolated users.