Hotel Management 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 Hotel area network is an essential part of Hotel system. A Hotel network has several uses such as, result publishing, resource sharing, file sharing, communication, etc. The Hotel Area Network design is about designing a topology of a network that is a LAN (Local Area Network) for a Hotel 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 Hotel, 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.

Hotel 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 2911
2. Cisco switch 2960 using
3. Pc using
4. Access-point
5. printers

1.1.2 Wireless Devices used is: -
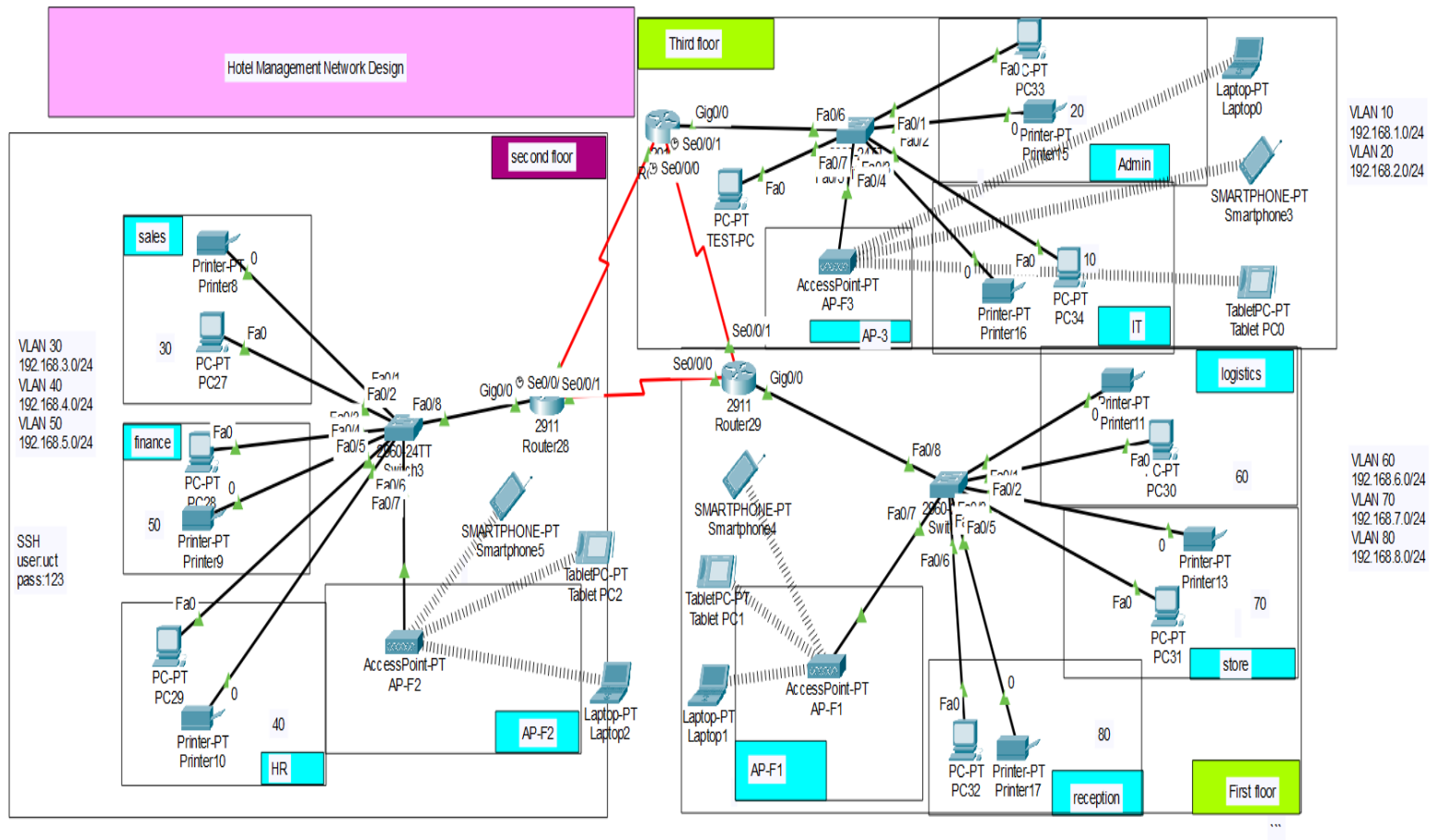
1. Smart phones
2. Tablets
3. Laptops

1.3 PROJECT TOPLOGY

FIGURE 1.0 PROJECT TOPOLOGY

1.4 Network IP Address Table

No.	LAN Network Address	WAN Network Address
1	192.168.1.0/24	10.10.10.0/30
2	192.168.2.0/24	10.10.10.4/30
3	192.168.3.0/24	10.10.10.8/30
4	192.168.4.0/24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5	192.168.5.0/24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6	192.168.6.0/24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7	192.168.7.0/24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
8	192.168.8.0/24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

1.5 Protocol used this Project

1.5.1 Router Protocols that used is: -
- ✓ OSPF (Open Shortest Path First).
- ✓ Dynamic Host Configuration Protocol (DHCP).
- ✓ Secure Shell (SSH).

1.5.2 Switch Configuration that used: -
- ➢ Vlan configuration.
- ➢ Port Security.
- ➢ Access point
- ➢ Trunk

1.6 Conclusion

Network design is about designing a topology of a network that is a LAN (Local Area Network) for a Hotel 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 Hotel, 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.