**Hotel Management Networking Project**

1. There should be 3 routers connected to each others
2. All routers should be connected to each other with DCE cable.
3. Network should be (10.10.10.0/30, 10.10.10.4/30, 10.10.10.8/30).
4. One switch on each flr
5. One WIFI for Laptops and Phones on each flr.
6. One printer on each flr.
7. Each flr have diff VLan below.

1st floor,

* Reception- VLAN 80. Network of 192.168.8.0/24
* Store- VLAN 70. Network of 192.168.7.0/24
* Logistic- VLAN 60. Network of 192.168.6.0/24
* Subnet -se0/3/1 10.10.10.5 255.255.255.252,

-se0/3/0 10.10.10.9 255.255.255.252

2nd floor,

* Finance- VLAN 50. Network of 192.168.5.0/24
* HR- VLAN 40. Network of 192.168.4.0/24
* Sales- VLAN 30. Network of 192.168.3.0/24
* Subnet -se0/3/1 10.10.10.6 255.255.255.252,

-se0/3/0 10.10.10.10 255.255.255.252

3rd floor,

* Admin- VLAN 20. Network of 192.168.2.0/24
* IT- VLAN 10. Network of 192.168.1.0/24
* Subnet -se0/3/1 10.10.10.6 255.255.255.252,

-se0/3/0 10.10.10.2 255.255.255.252

1. Use OSPF Routing protocol for advertise routes.
2. All devices network expected in IP add dynamically in router configured as the DHCP server.
3. All device communicate with each others.
4. Configure SHH in all routes for Remote Login
5. In IT dept, add Test-PC to Port fa0/1 for remote login and test.
6. Configure port security to IT-dept switch to allow Test-PC to access port fa0/1

For inter vlan communication

Interface gig0/0.10

Encapsulation dot1q 10

Ip add 192.168.1.0 255.255.255.0

For assigning DHCP service in router

To assign dhcp Server

Service DHCP

Ip Dhcp pool (name)

Network (192.1678.8.0/24, 255.255.255.0)

Default-router (192.168.8.1)

Dns server (192.168.8.1)

How to assign OSPF in multiple Routers

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Router OSPF 10

Router:- Network (10.10.10.4 255.255.255.252 area 0)

Vlans :- Network (192.168.8.0 255.255.255.0)

Configuring SHH routers

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Hostname (Name)

Ip domain-name (Fayas)

Username (Fayas) password (Fayas@123)

Crypto key generate rsa

Set bits (1024)

Line vty 0 15

Login local

Transport input ssh

Do wr

\*Configure port security to IT-dept switch to allow Test-PC to access port fa0/1

Interface (fa0/1)

Switch port-security

Switch port-security maximum

Switch port-security mac-address sticky

Switch port-security voilation