

Modern Hotel Network Design - Project Summary

1. Floor Assignments

- Reception: VLAN 80 - Network: 192.168.8.0/24
- Store: VLAN 70 - Network: 192.168.7.0/24
- Logistics: VLAN 60 - Network: 192.168.6.0/24

2. Floor Assignments

- Finance: VLAN 50 - Network: 192.168.5.0/24
- HR: VLAN 40 - Network: 192.168.4.0/24
- Sales: VLAN 30 - Network: 192.168.3.0/24

3. Floor Assignments

- Admin: VLAN 20 - Network: 192.168.2.0/24
- IT: VLAN 10 - Network: 192.168.1.0/24

Router and Network Configuration

1. Use three routers to connect each floor, all located in the IT server room.
2. Connect all routers using serial DCE cables.
3. Router interconnection subnets:
 - 10.10.10.0/30
 - 10.10.10.4/30
 - 10.10.10.8/30

Switch and Wi-Fi Requirements

4. Each floor must have one switch.
5. Each floor must have Wi-Fi for laptops and mobile phones.

Device and Printer Setup

6. Each department must have one printer.
7. Each department must be in its own VLAN.

Routing and IP Management

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8. Use OSPF to advertise routes between routers.
9. All devices must obtain IP addresses dynamically via DHCP on routers.
10. All devices should be able to communicate with each other.

Security and Remote Access

11. Enable SSH on all routers for remote access.
12. In the IT department, connect a PC named 'Test-PC' to port fa0/1 and test SSH.
13. Configure port security on the IT switch:
 - Allow only 'Test-PC' on port fa0/1
 - Use sticky MAC address method
 - Set violation mode to 'shutdown'