

Computer Networks Lab Project Intro

Course Code: CSE320, Section: D1

Instructor: Molla Rashied Hussein

Network Design for Hotel Management System

Team members



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Hotel Management System



Objectives

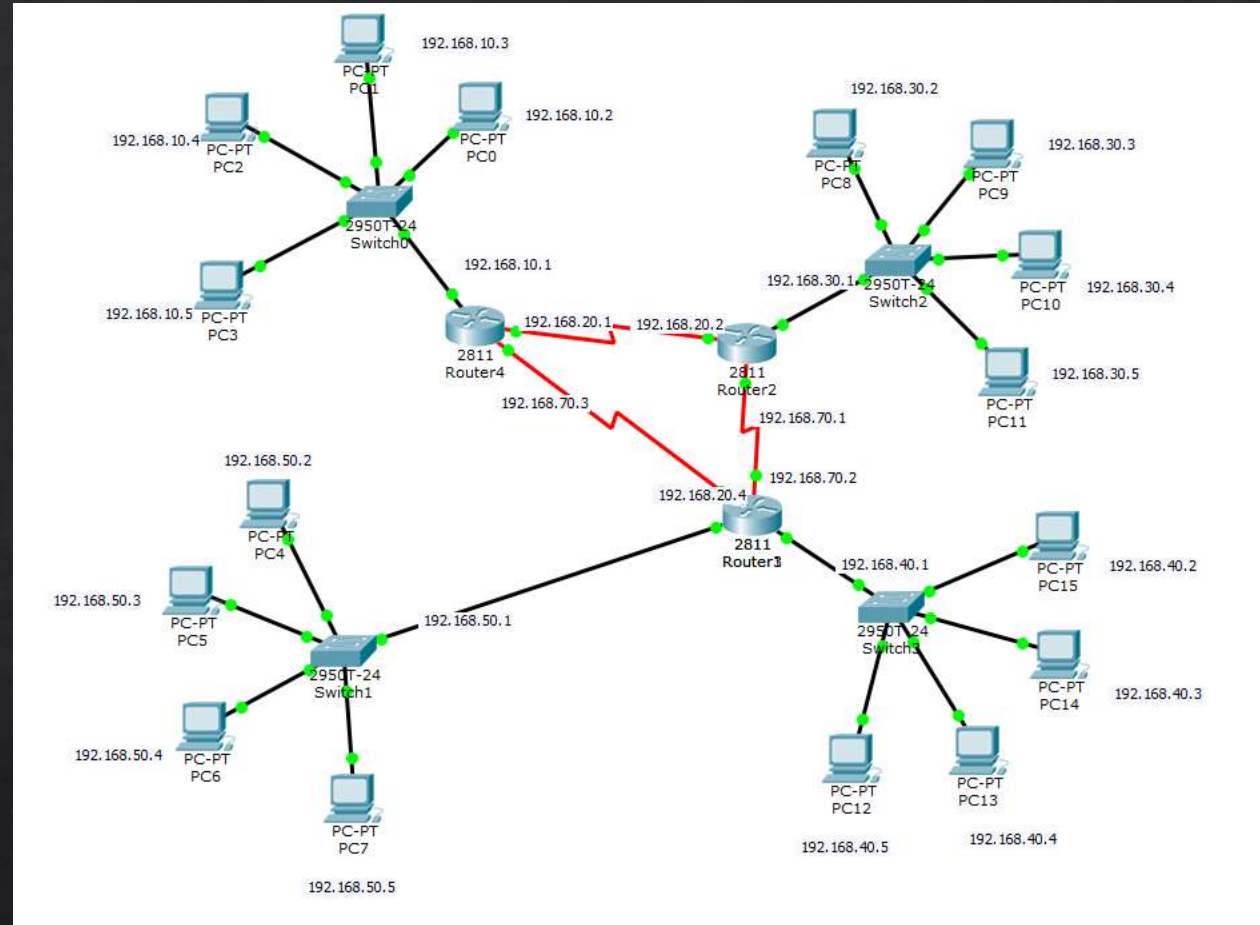
Design a secure, scalable, and efficient network infrastructure for a modern hotel using Cisco Packet Tracer, integrating:

- **Guest Wi-Fi with captive portal authentication.**
- **Staff VoIP for internal communication.**
- **Surveillance (IP cameras) and POS systems for payments.**
- **Centralized PMS (Property Management System) for bookings.**

Why This Project?

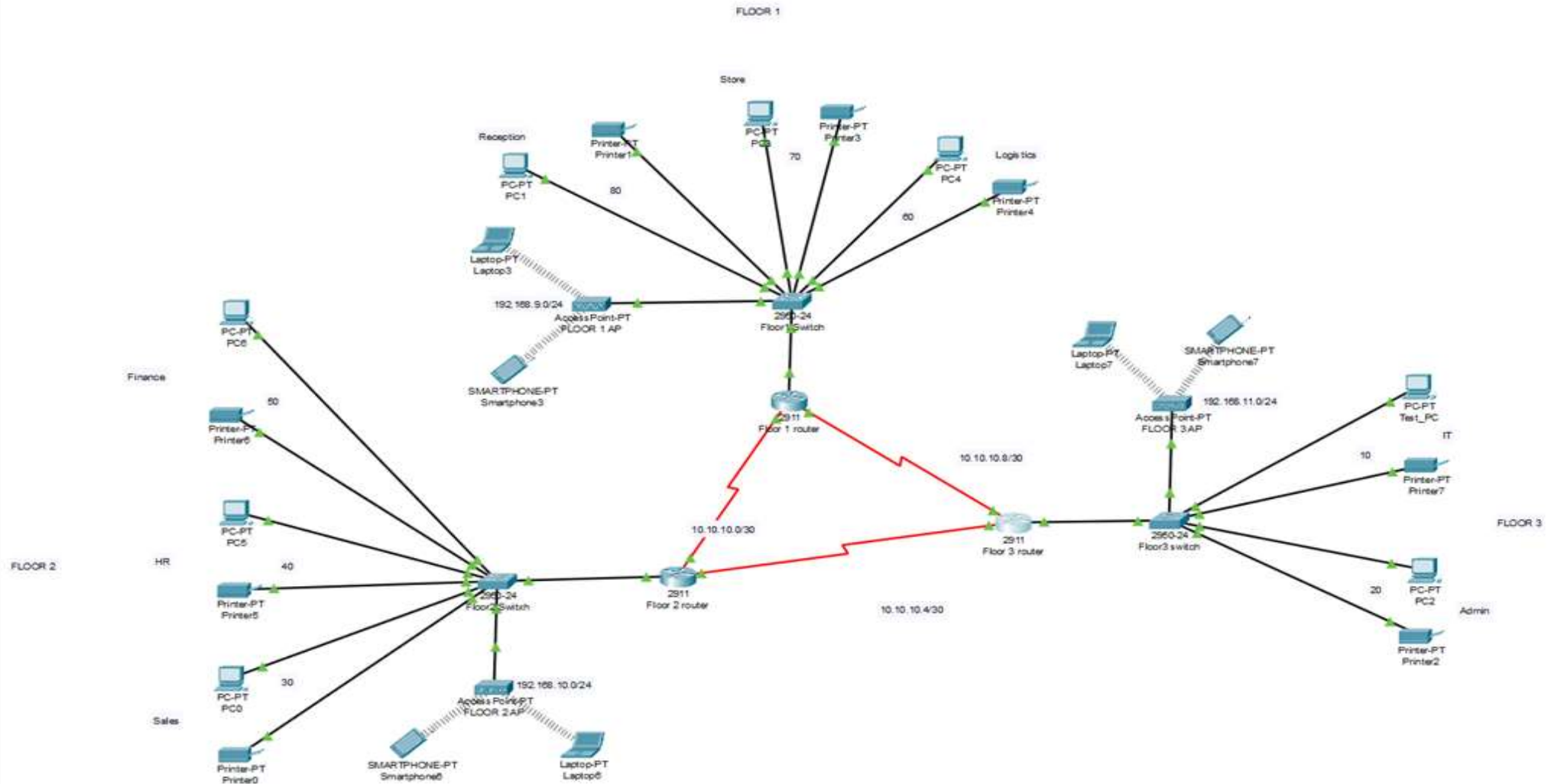
- ◆ **Real-world relevance:** Hotels rely on robust networks for operations.
- ◆ **Hands-on learning:** Practice enterprise-grade networking (VLANs, security, QoS).
- ◆ **Cisco skills:** Master Packet Tracer for network simulations.

Topology we're using



3 Routers-based Ring Topology

Sample Networking Operations



Q&A
Section
Any Questions?

**Thank
You**