

CCNA 1 Project: Basic Hospital Network for Patient Information Management

Project Overview

This project demonstrates how CCNA 1 networking concepts can be applied in a hospital setting to support patient information management, inter-department communication, and efficient healthcare service delivery.

Hospital Departments Connected

Reception, Nursing Station, Medical Records, Pharmacy, Administration.

Network Design

A star topology LAN using a Cisco 2960 switch. All devices are connected using Ethernet cables.

IP Addressing Plan

Device	IP Address	Purpose
Server	192.168.10.10	Patient Database
Reception PC	192.168.10.11	Patient Registration
Nursing PC	192.168.10.12	Patient Monitoring
Records PC	192.168.10.13	Medical Records
Pharmacy PC	192.168.10.14	Medication Management
Admin PC	192.168.10.15	Billing & Reports

Skills Demonstrated

Ethernet networking, IPv4 addressing, Cisco CLI basics, hospital workflow understanding, basic troubleshooting.

Tools Used

Cisco Packet Tracer, Cisco IOS, CCNA 1 Networking Concepts.