

Case Study of Prabhakar Kore Hospital, Belagavi.

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Problem Domain: Networking

Problem Definition:

To know about the network topology, present in the hospital, identifying gaps and implementing the gaps identified.

Objectives:

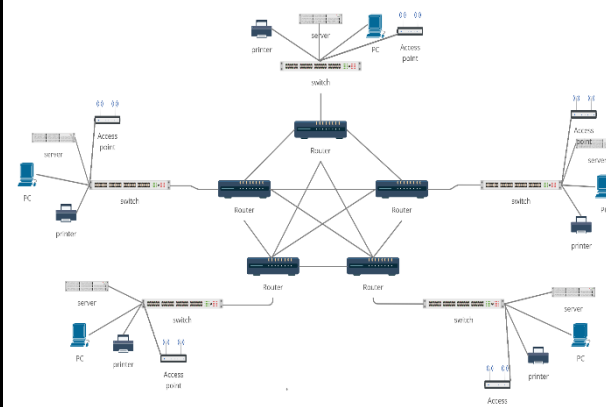
1. To understand the network architecture of kore hospital and implement the gaps identified.
2. To implement the AAA servers for security purpose.
3. To implement the DHCP servers for IP configuration.

Methodology:

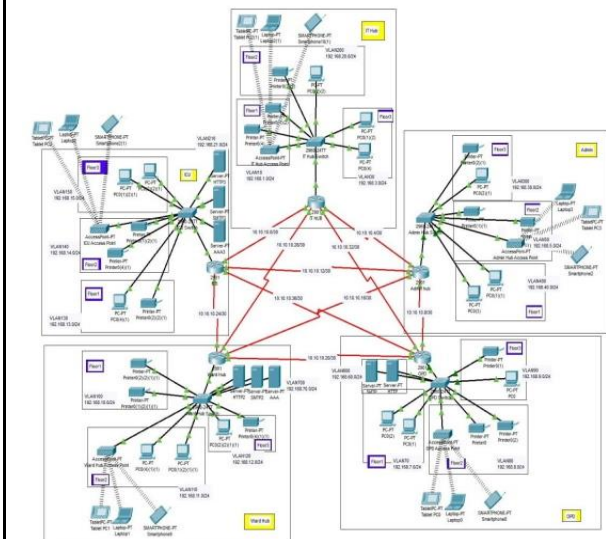
- 5 routers are connected to each other by Mesh topology.
- Each floor has one switch.
- Each floor has Wi-fi networks connected to laptops and phones.
- Each floor is in different VLAN.

- Using OSPF as routing protocol to advertise routers.
- All the devices in network communicate with each other.
- Configuring HTTP, SMTP and AAA services.
- All devices obtain IP dynamically with their router configured as DHCP server.
- All routers connected to each other using serial DCE cable.

Network Architecture:



Network Topology:



Conclusion:

Constructed a new framework for the network topology present in the hospital by implementing the gaps identified.

