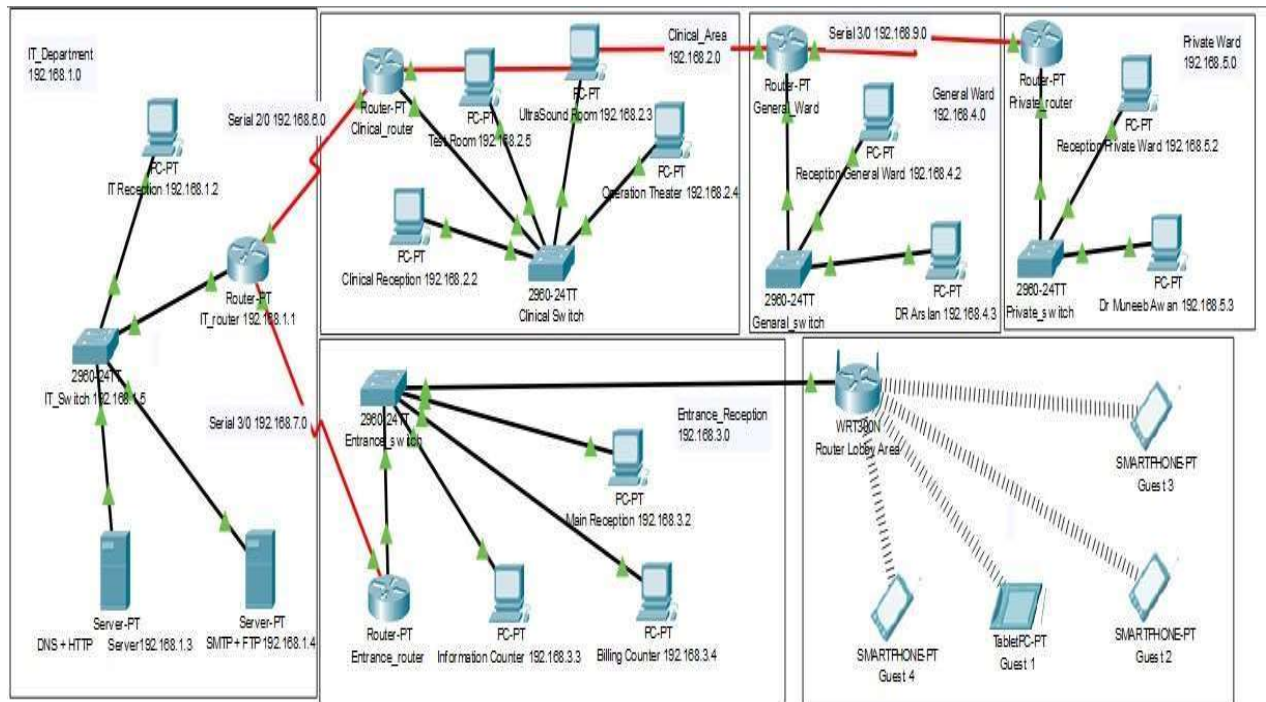


ARCHITECTURE AND DESIGN

Network Architecture

The network architecture is as follows:



The architecture consists of five major networks:

- IT Department
- Tech Room
- Reception General Ward
- Reception Private Ward
- Entrance Reception

IMPLEMENTATION

Address Table

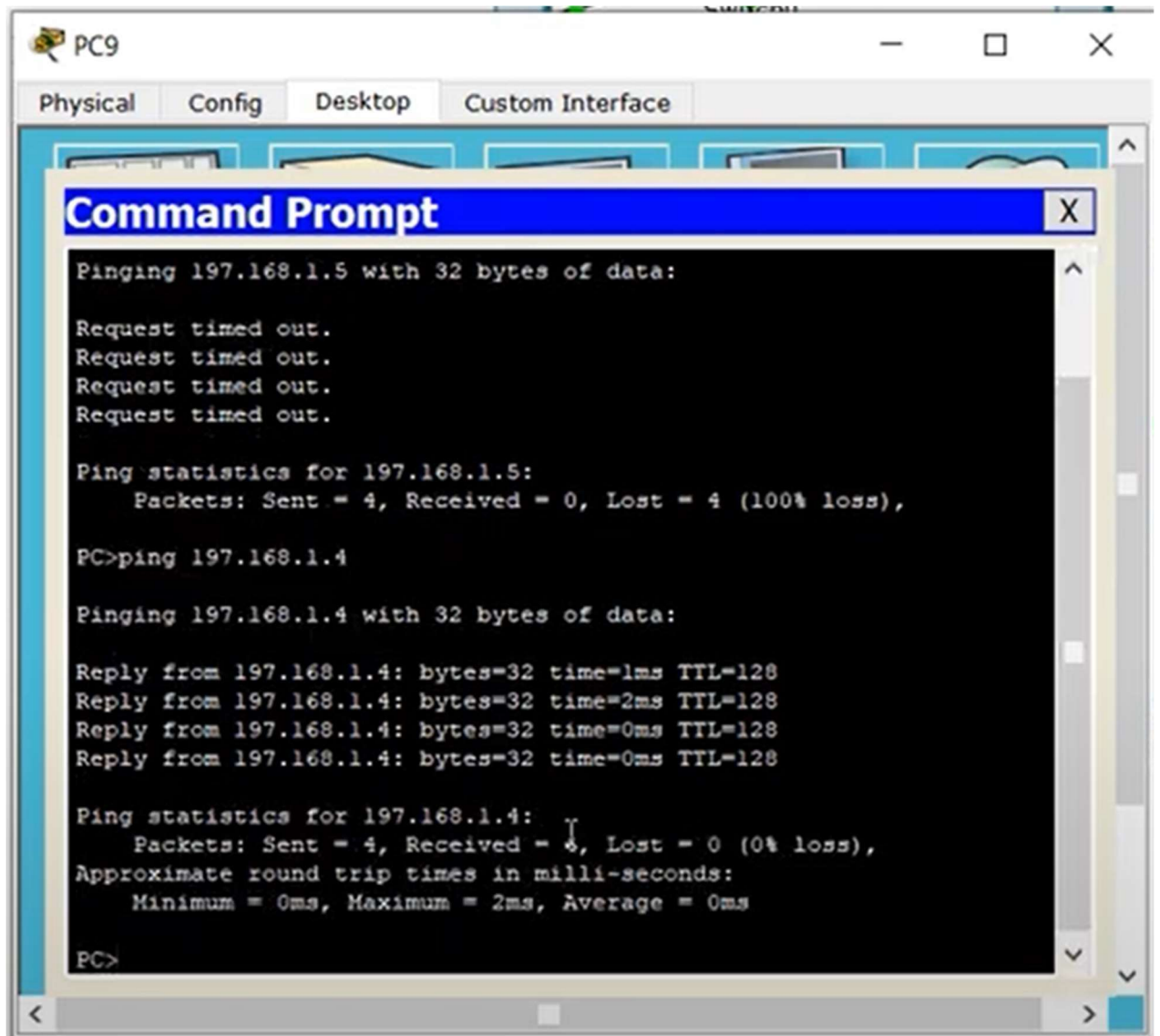
The address table is as follows:

Device	Interface	Address
Server	Fa0	172.16.0.2
Router	Fa0/0	172.16.0.1
	Fa1/0	192.16.0.1
	Se2/0	10.0.0.1
PC(Employees)	Fa0/0	192.16.0.2 to 192.16.0.7
Broadband Router	Se2/0	10.0.0.2
	Fa0/0	192.168.10.1
PC(Lobby Area)	Fa0/0	192.168.10.2 to 192.168.10.4

RESULTS AND DISCUSSION

Connection Check

The network connections were checked by ping requests:



The screenshot shows a Windows-style window titled "PC9" with tabs for "Physical", "Config", "Desktop", and "Custom Interface". The "Desktop" tab is active, and a "Command Prompt" window is open. The Command Prompt displays the results of two ping commands. The first command is "ping 197.168.1.5", which results in four "Request timed out." messages and a summary showing 100% loss. The second command is "ping 197.168.1.4", which results in four successful replies with 0ms response times and a summary showing 0% loss.

```
PC9
Physical Config Desktop Custom Interface

Command Prompt

Pinging 197.168.1.5 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 197.168.1.5:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 197.168.1.4

Pinging 197.168.1.4 with 32 bytes of data:

Reply from 197.168.1.4: bytes=32 time=1ms TTL=128
Reply from 197.168.1.4: bytes=32 time=2ms TTL=128
Reply from 197.168.1.4: bytes=32 time=0ms TTL=128
Reply from 197.168.1.4: bytes=32 time=0ms TTL=128

Ping statistics for 197.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 0ms

PC>
```