

# **Final Project.**

**Subject: CSE307 (INTERNETWORKING ESSENTIALS)** 

Name: Parimi Gandhi Balaji

Section: K23CH-(G-2)

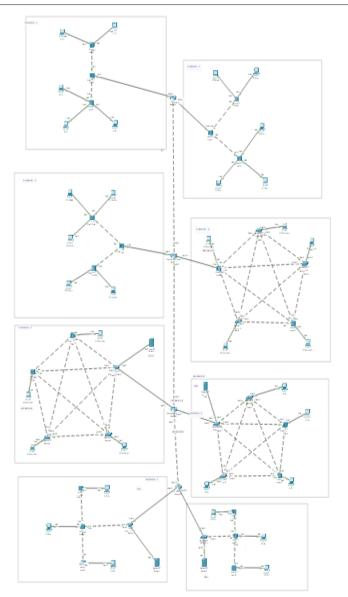
Roll No.: 52

Reg.No.: 12316619

Submitted To:

**Gagandeep Kaur** 

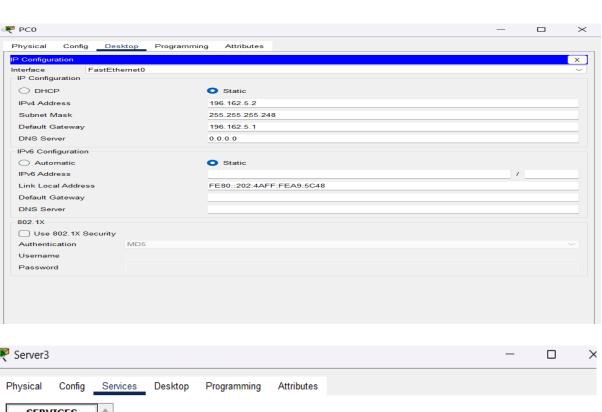
# 1. Physical scenario:

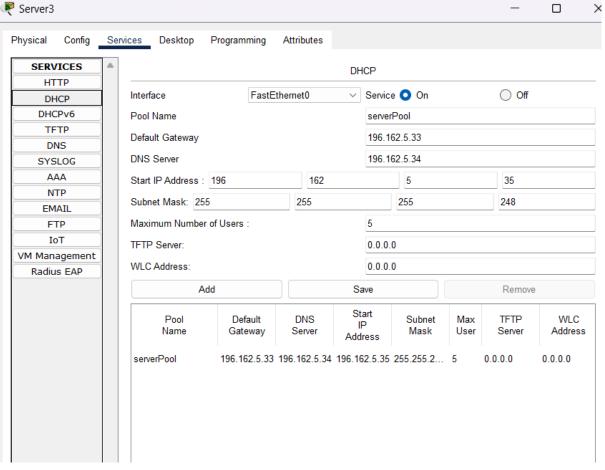


#### I have created network:

- Floors 1–3 have 7 computers each. (use of Hybrid Topology with hub)
- Floors 4–6 have 7 computers each. (use of Mesh Topology with switch and hub)
- Floors 7–8 have 7 computers each. (use of Bus Topology with Hub)

### 2. IP VALUES and Servers:





### using FLSM, with the network address 196.162.5.0

FLSM: Fixed Length Subnet Mask.

I have total subnets are 8. So using FLSM I have created new subnet mask and subnet address.

In FLSM, subnet mask is same for all networks .

$$2^{n} = 8$$

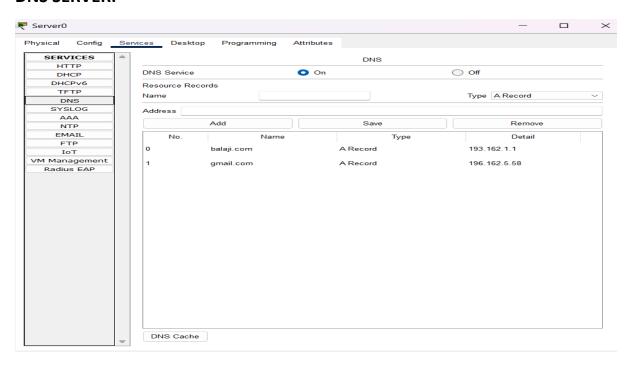
$$2^3 = 8$$
 (n = 3)

$$8 = 8$$

Given class was C:

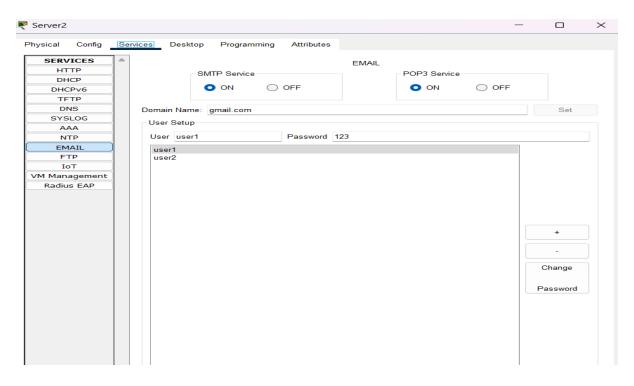
In class B we have 24 and 8 network and host. So we have to add 3 to network and subtract 3 from host. So the new network and host are 27 and 5.

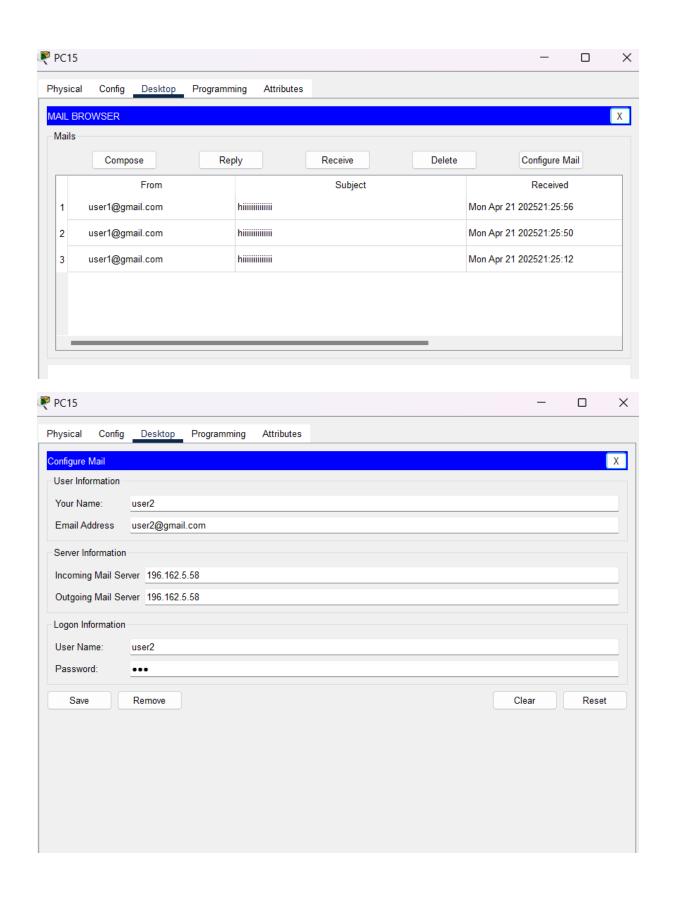
#### **DNS SERVER:**



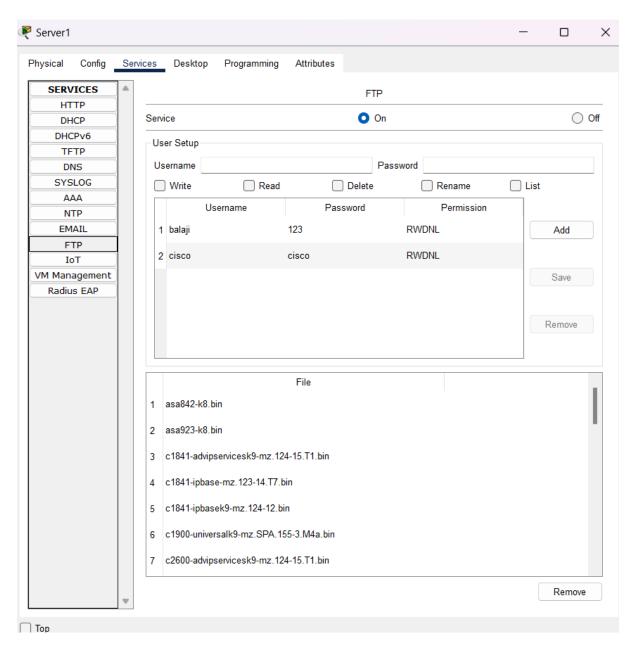


## **EMAIL:**





## FTP:



```
Physical Config Desktop Programming Attributes

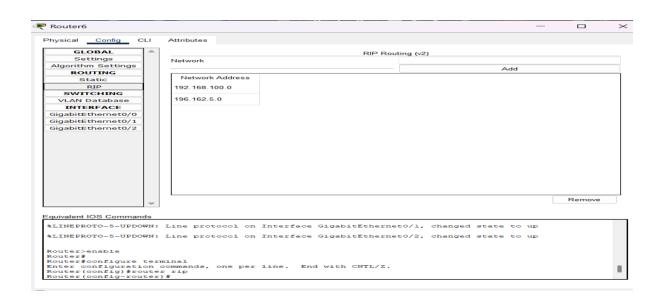
Command Prompt

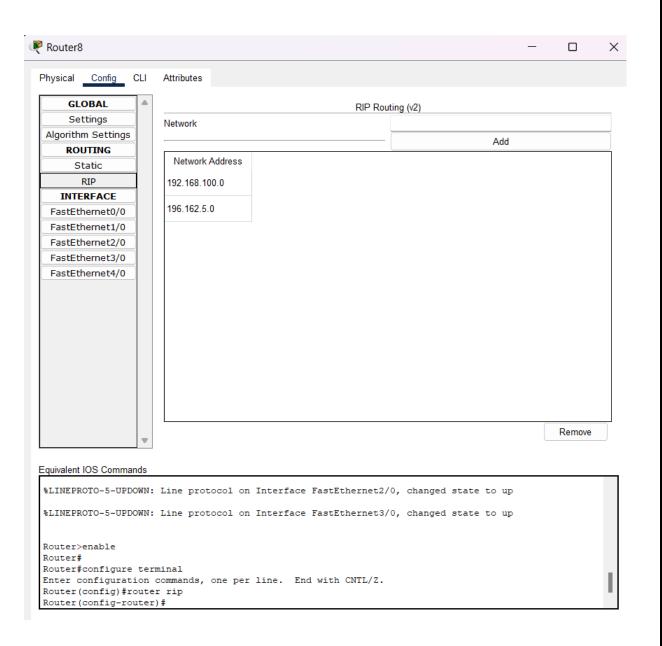
Trying to confisci... 196.162.5.50

Connected to 186.162.5.50

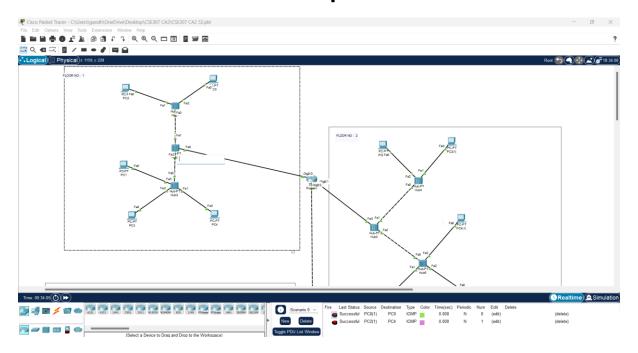
Jack Prompt Pr
```

# 3. Routing:





# 4. Communication between pc:



### After Routing:

You can see in above pic that all the message sent from one pc to another became successful.

Finally, we can send message pc to any pc.

GIT-HUB link: <a href="https://github.com/ParimiBalaji/CSE307">https://github.com/ParimiBalaji/CSE307</a>

\*THANK YOU\*