Network simulation

TREE

1st Ip-> 193.168.1.0

Building A: 212 hosts

Awl network

1-Subnet mask: 255.255.255.0

2- Network Ip: 193.168.1.0

3- Broadcast Ip: 2^8+0-1 = 193.168.1.255

4- First valid: 193.168.1.2

5- Last valid: 193.168.1.254

6- Default gateway: 193.168.1.1 (ROUTER)

IPS : 11 switch 10 mnhom 7y4elo 20 w l a5er 7y4el 12 bs .

BUS

Building B: 36 hosts -

Ip: 193.168.2.0

1-Subnet mask: 255.255.255.192

2- Network Ip: 193.168.2.0

3- Broadcast Ip: 2^6+0 - 1 = 193.168.1.63

4- First valid: 193.168.2.2

5- Last valid: 193.168.2.62

6- Default gateway: 193.168.2.1 (ROUTER)

4 \* 9 = 36

Star

Building C: 47 hosts

1-Subnet mask: 255.255.255.192

2- Network Ip: 193.168.2.64

3- Broadcast Ip: 2^6+ 64 - 1 = 193.168.1.127

4- First valid: 193.168.2.66

5- Last valid: 193.168.2.126

6- Default gateway: 193.168.2.65 (ROUTER)

9+9+9+9+11

Ring

Building D: 125 hosts

1-Subnet mask: 255.255.255.128

2- Network Ip: 193.168.2.128

3- Broadcast Ip: 2^7+ 128 - 1 = 193.168.1.255

4- First valid: 193.168.2.130

5- Last valid: 193.168.2.254

6- Default gateway: 193.168.2.129 (ROUTER)

25 \* 5