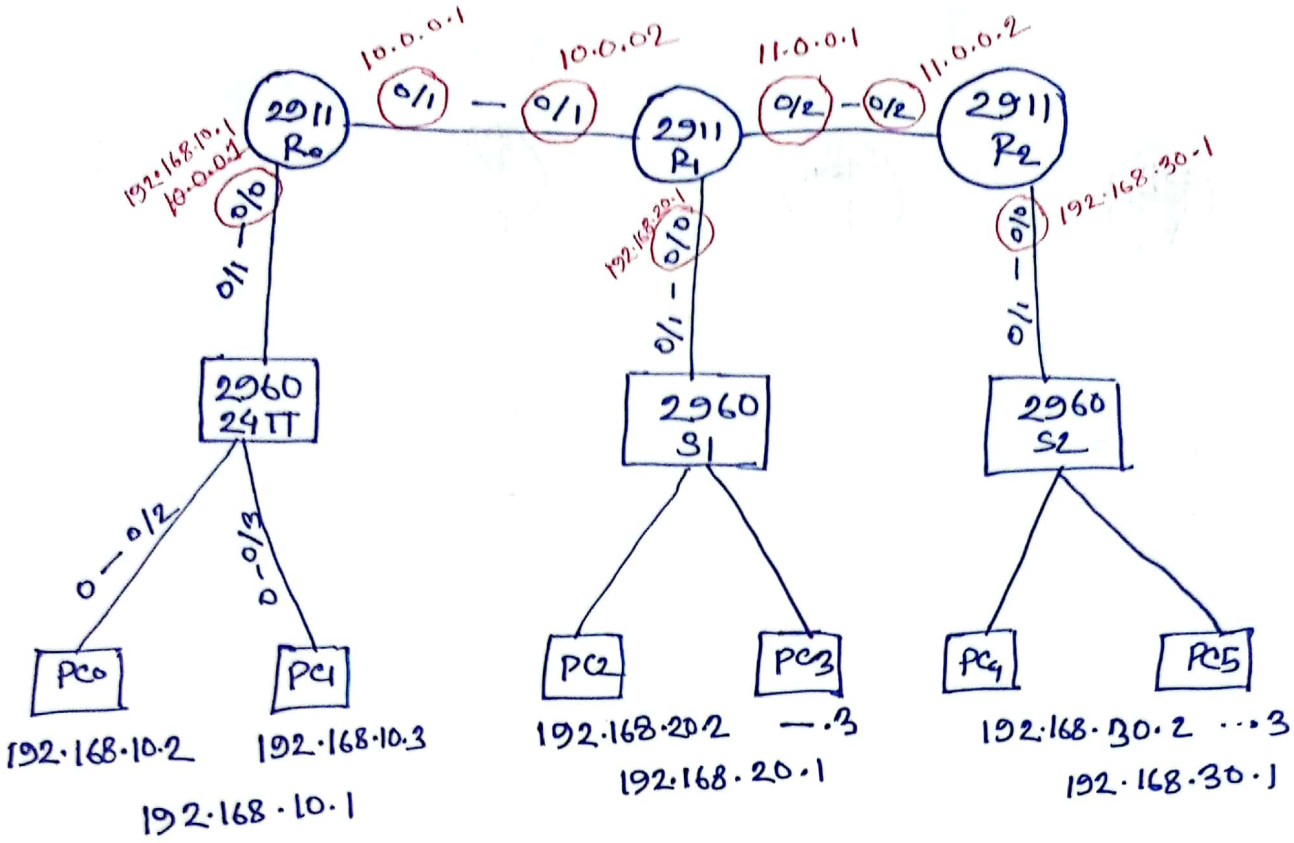


CLI:

→ Enable
→ Configure terminal
→ interface gigabitEthernet 0/0
→ ip address 192.168.10.1 255.255.255.0
→ no shut
→ exit

→ 0/1
→ 10.0.0.1 255.0.0.0

R3

→ 0/0 → 192.168.30.1 255...0
→ 0/2 → 11.0.0.2 255.0.0.0

R2

→ 0/0
→ 192.168.20.1 255.255.255.0

→ 0/1
→ 10.0.0.2 255.255.255.0

→ 0/2
→ 11.0.0.1 255.0.0.0

Route
R1

→ Router rip
→ network 192.168.10.0
→ network 10.0.0.0
→ exit

R2

→
→ network 10.0.0.0
→ network 11.0.0.0
→ network 192.168.20.0

R3

→ network 11.0.0.0
→ network 192.168.30.0
→ ~~do write~~ exit

⇒ do write mem

VLAN Routing

S1

→ enable → show vlan brief

→ Config. term
→ Vlan 10 → V1 20 → V1 30 → show vlan brief

→ Config. ter
→ Vlan 10 → name students
→ Vlan 20 → name Faculty
→ Vlan 30 → name Guest → show vlan bri.

→ Config. ter
→ interfa. fastEther 0/1
→ switchport mode access
→ switch. access vlan 10 → show vlan.

→
→ 0/2
→ vlan 20

→ 0/3
→ vlan 30

S3 + S4

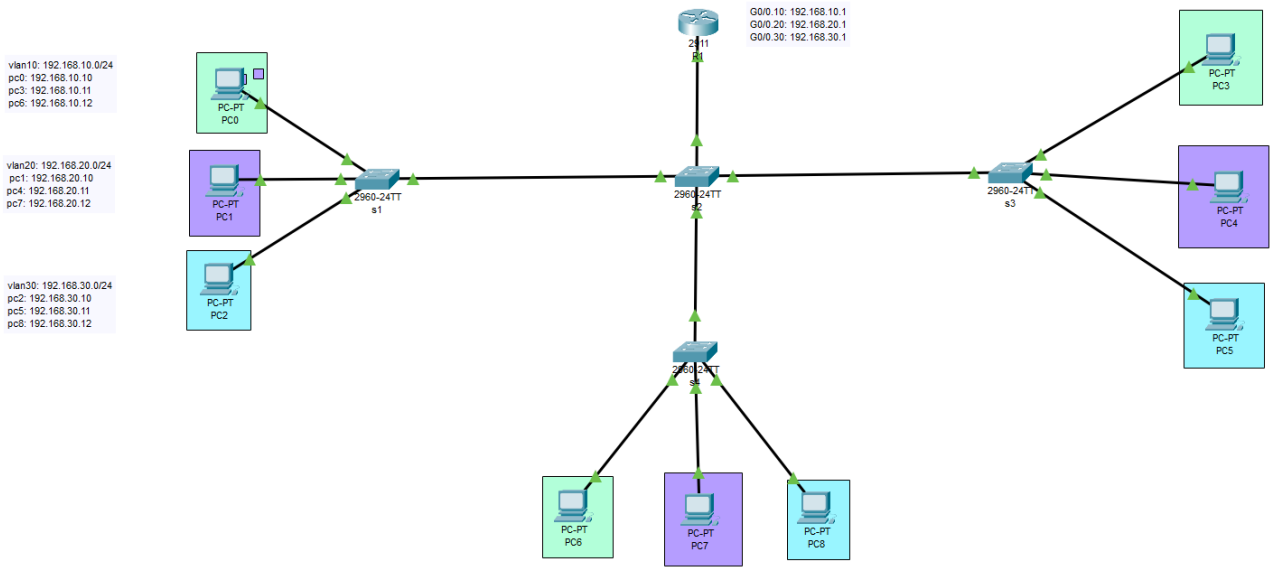
→ enable

→ Conf. ter
→ vlan 10 → name students
→

→ 0/1
→ vlan 10

→ 0/2
→ vlan 20

→ 0/3
→ vlan 30


vlan10: 192.168.10.0/24
pc0: 192.168.10.10
pc3: 192.168.10.11
pc6: 192.168.10.12
vlan20: 192.168.20.0/24
pc1: 192.168.20.10
pc4: 192.168.20.11
pc7: 192.168.20.12
vlan30: 192.168.30.0/24
pc2: 192.168.30.10
pc5: 192.168.30.11
pc8: 192.168.30.12
G0/0.10: 192.168.10.1
G0/0.20: 192.168.20.1
G0/0.30: 192.168.30.1
2911
R1
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
2960-24TT
s1
2960-24TT
s2
2960-24TT
s3
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
PC-PT
PC6
PC-PT
PC7
PC-PT
PC8

S2 Configure

→ en → conf. ter

→ vlan 10 → name students
→ vlan 20 → " Faculty
→ vlan 30 → " Guest

→ show interfaces trunk

→ conf. ter.
→ interface range fastEt. 0/1-3
→ switchport mode trunk
→ show vlan brief
→ show interfaces trunk

Check S1, S3, S4

R1: Router Confi

→ en → conf. ter.
→ interface gigabitEthernent 0/0.10
→ encapsulation dot1Q ?.
→ encapsulation dot1Q 10
→ ip address 192.168.10.1 255.255.255.0 → exit

→ 0/0.20
→ dot1Q 20 → 192.168.20.1 255.255.255.0

→ 0/0.30
→ dot1Q 30 → 192.168.30.1 255...

→ Show ip interface brief

→ conf. term
→ interface gigabitEthernet 0/0
→ no shutdown

S2

→ sho enable → show vlan brief

→ conf. ter
→ interfa gigabitE 0/1
→ switchport mode trunk

→ show interfaces trunk