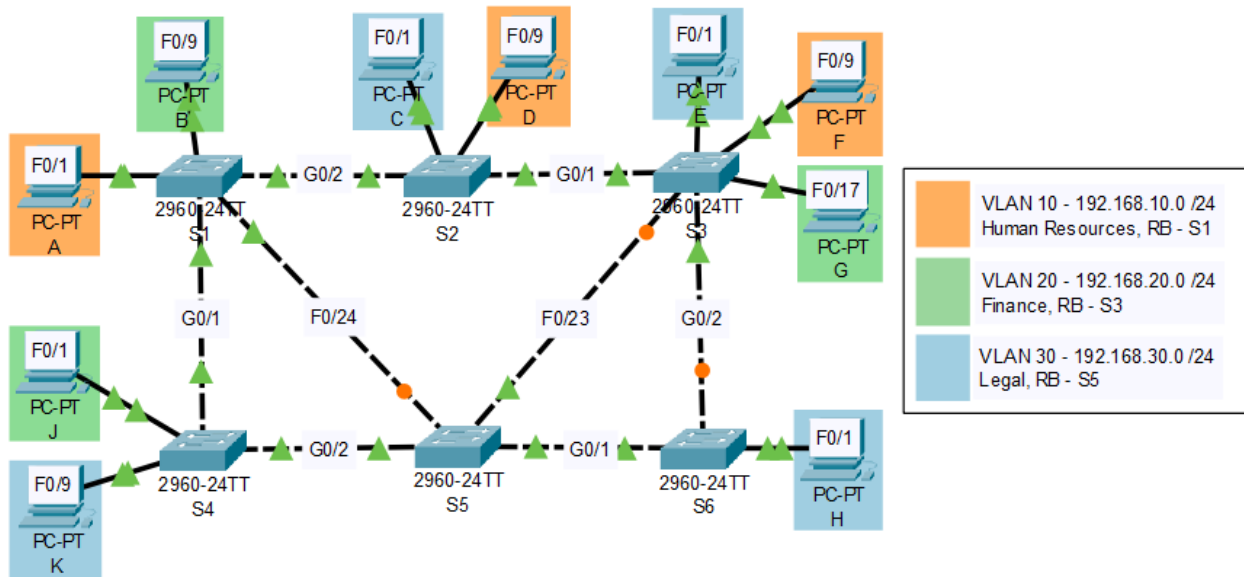


Goal. Use the provided PKT file and configure the following:

1. Hostname according to the diagram and *Rapid PVST* on all switches.
2. Access interfaces and VLANs – 8 interfaces per VLAN + *PortFast*.
3. Trunk interfaces.
4. Configure Root switches according to the diagram.
5. IP addresses on PCs.
6. Save the PKT file now, as “STP exercise without VTP.pkt”
7. Add all VLANs on all switches manually.



1. Hostname and Rapid PVST

```
Switch(config)#hostname S1
Switch(config)#spanning-tree mode rapid-pvst
...
```

2. Access + PortFast

```
S1(config)#interface range FastEthernet 0/1-8
S1(config-if-range)#switchport mode access
S1(config-if-range)#switchport access vlan 10
S1(config-if-range)# spanning-tree portfast

S1(config)#interface range FastEthernet 0/9-16
S1(config-if-range)#switchport mode access
S1(config-if-range)#switchport access vlan 20
S1(config-if-range)# spanning-tree portfast
...
```

3. Trunk

```
S1(config)#interface range GigabitEthernet 0/1-2
S1(config-if-range)#switchport mode trunk
```

```
S1(config)#interface FastEthernet F0/24  
S1(config-if-range)#switchport mode trunk
```

...

4. Root Bridge

```
S1(config)# spanning-tree vlan 10 root primary  
S3(config)# spanning-tree vlan 20 root primary  
S5(config)# spanning-tree vlan 30 root primary
```

5. PC IPs

PC -> Desktop -> IP Configuration -> allocate addresses according to the diagram

6. Save the file as "STP exercise without VTP.pkt"

7. Add VLANs manually

```
S1(config)#vlan 30  
S2(config)#vlan 20  
S4(config)#vlan 10  
S5(config)#vlan 10  
S5(config)#vlan 20  
S5(config)#vlan 30  
S6(config)#vlan 10  
S6(config)#vlan 20
```