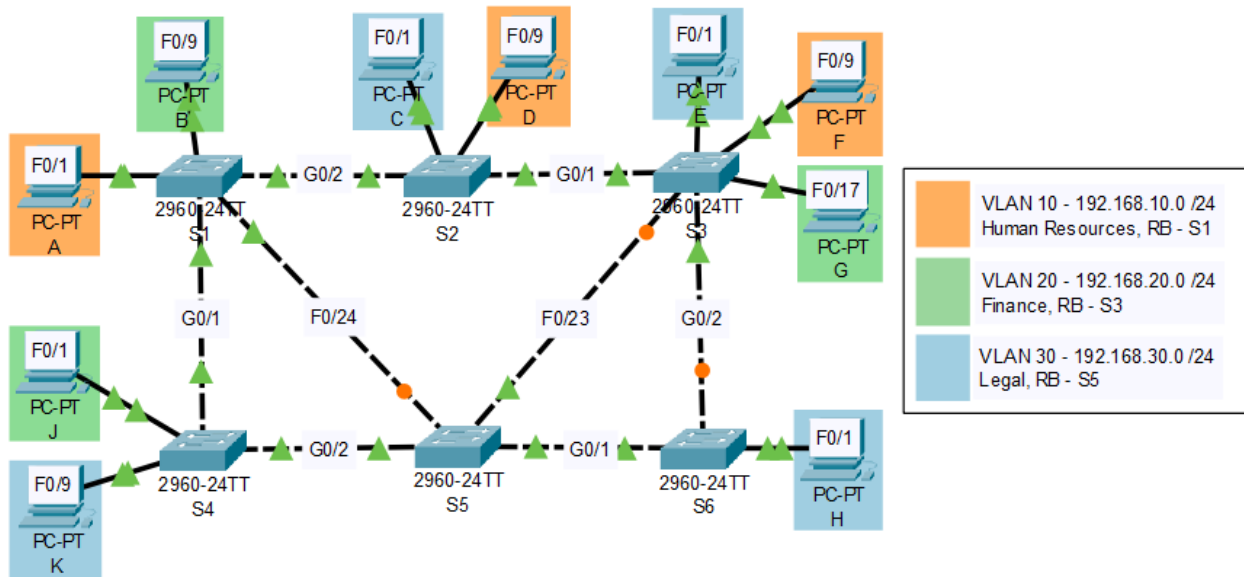


Goal. Use the provided PKT file and configure the following:

- ✓ 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
```