

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

1. Trunk interfaces on MLS1 and MLS2.
2. VTP – MLS1 as a server, all others as clients.
3. Root bridge for both VLANs is MLS1.
4. Root guard on MLS1 interfaces facing the DIST switches.
5. Configure MLS1 as gateway.

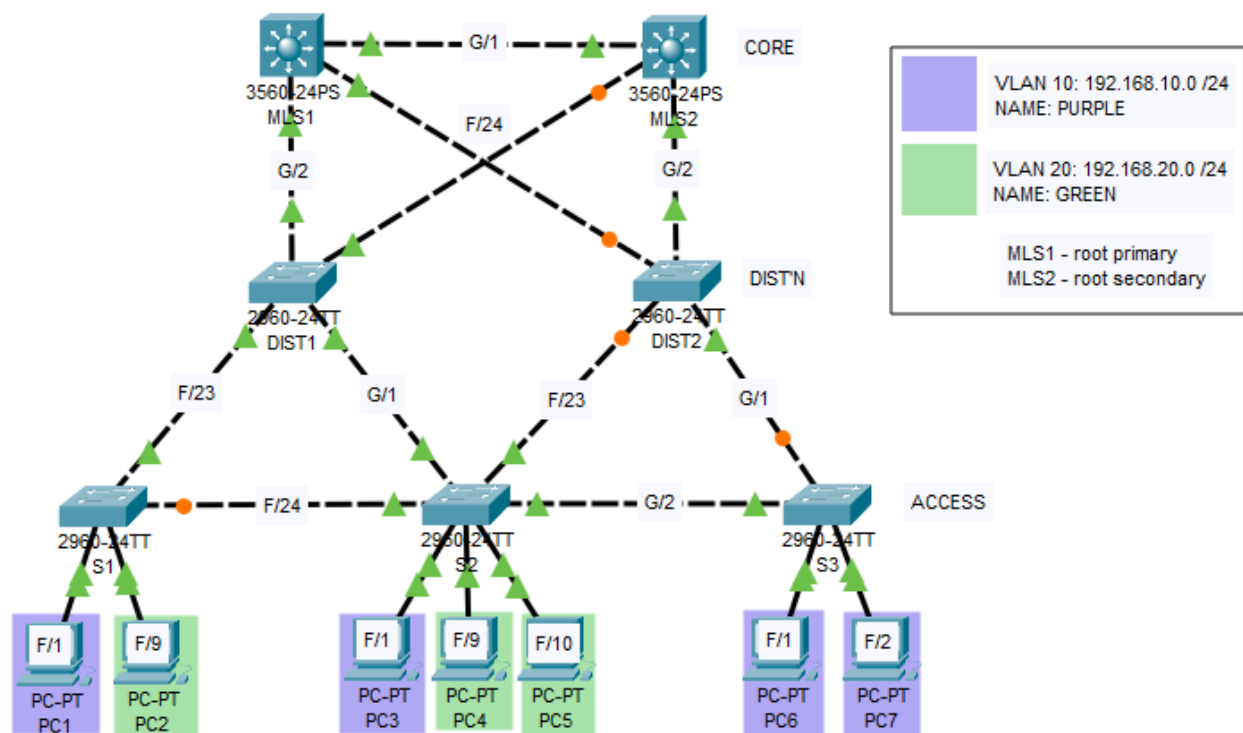
IP addresses are already assigned to PCs.

Hostnames are already configured according to the diagram below.

Rapid-PVST is already configured on all switches (and MLSs)

Access ports (with Portfast) are already configured according to the diagram below.

Trunk ports are already configured on all 2960 switches.



1. Trunk on MLSS

```
MLS(config)#interface GigabitEthernet 0/1
MLS(config-if)#switchport trunk encapsulation dot1Q
MLS(config-if)#switchport mode trunk
```

2. VTP

```
MLS1(config)#vtp mode server
MLS1(config)#vtp domain Cyber
MLS1(config)#vtp password cyber
```

Create VLANs, configure their names:

```
MLS1(config)#vlan 10  
MLS1(config-vlan)#name PURPLE
```

Client switches (including MLS2):

```
S(config)#vtp mode client  
S(config)#vtp password cyber
```

3. Root Bridge

```
MLS1(config)#spanning-tree vlan 10 root primary  
MLS1(config)#spanning-tree vlan 20 root primary
```

4. Root guard on MLS1

```
MLS1(config)#interface FastEthernet 0/24  
MLS1(config)#spanning-tree guard root  
  
MLS1(config)#interface GigabitEthernet 0/2  
MLS1(config)#spanning-tree guard root
```

5. MLS1 -> Gateway

Create VLAN interfaces:

```
MLS1(config)#interface vlan 10  
MLS1(config-if)#ip address 192.168.10.1 255.255.255.0  
  
MLS1(config)#interface vlan 20  
MLS1(config-if)#ip address 192.168.20.1 255.255.255.0
```

Enable routing::

```
MLS1(config)#ip routing
```