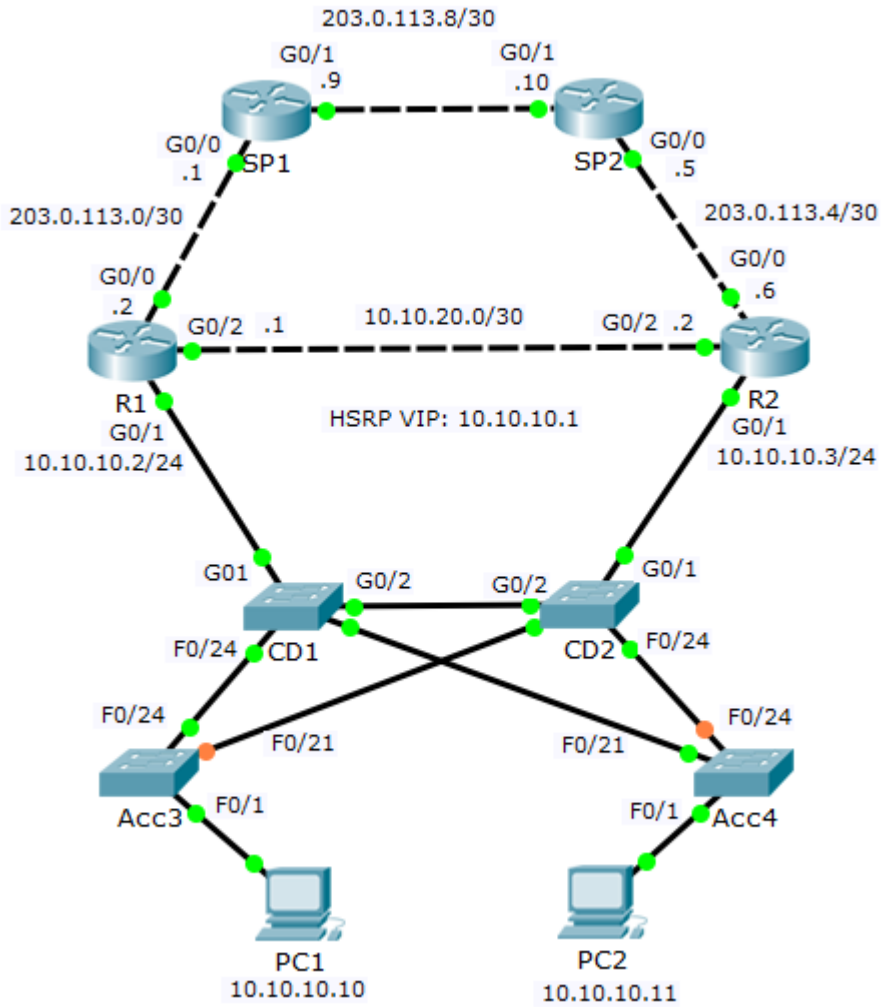
# Spanning Tree and HSRP Relationship



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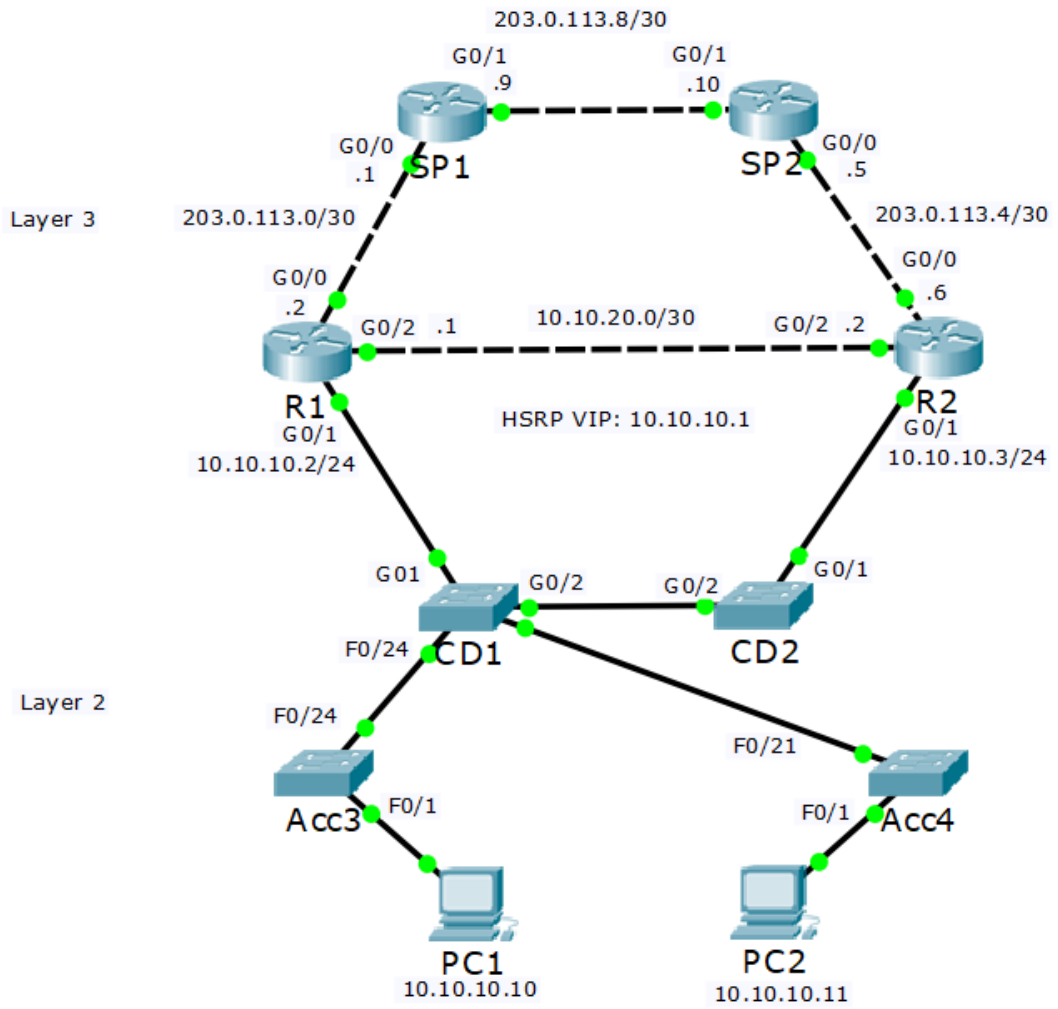


- HSRP should be configured to match the Spanning Tree path
- In this example R1 should be given a higher HSRP priority than R2 so that it is selected as the HSRP active router
- This allows traffic from the PCs to take the most direct path to their default gateway
- If R2 was the HSRP active router, traffic would have to transit via an extra device over the CD1>CD2 link

# Aligned ‘Active/Active’ HSRP & Spanning Tree

```
R1(config)#interface g0/1.10
R1(config)#encap dot1 10
R1(config-if)#ip address 10.10.10.2 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#standby 1 ip 10.10.10.1
R1(config-if)#standby 1 priority 110
R1(config-if)#standby 1 pre-empt

R1(config)#interface g0/1.20
R1(config)#encap dot1 20
R1(config-if)#ip address 10.10.20.2 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#standby 1 ip 10.10.20.1
R1(config-if)#standby 1 priority 90
```

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```
CD1(config)#spanning-tree vlan 10 root primary
CD1(config)#spanning-tree vlan 20 root secondary
```

```
R2(config)#interface g0/1.10
R2(config)#encap dot1 10
R2(config-if)#ip address 10.10.10.3 255.255.255.0
R2(config-if)#no shutdown
R2(config-if)#standby 1 ip 10.10.10.1
R2(config-if)#standby 1 priority 90

R2(config)#interface g0/1.20
R2(config)#encap dot1 20
R2(config-if)#ip address 10.10.20.3 255.255.255.0
R2(config-if)#no shutdown
R2(config-if)#standby 1 ip 10.10.20.1
R2(config-if)#standby 1 priority 110
R2(config-if)#standby 1 pre-empt
```

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```
CD2(config)#spanning-tree vlan 20 root primary
CD2(config)#spanning-tree vlan 10 root secondary
```