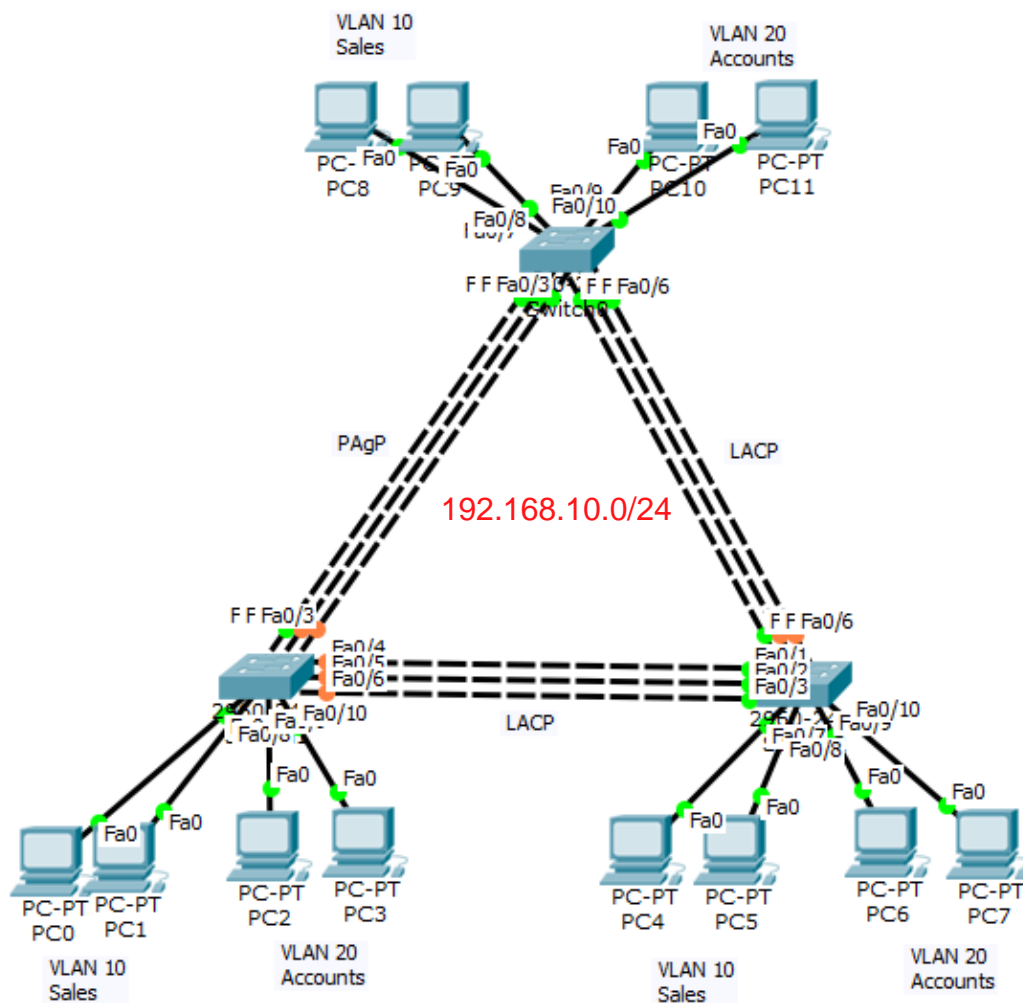


Ether channel Configuration



VLAN Configuration :

```
S1(config)# vlan 10
S1(config-vlan)# name SALES
S1(config)# vlan 20
S1(config-vlan)# name ACCOUNTS
S1(config)# interface range fastEthernet 0/7-8
S1 (config-if-range)# switchport mode access
S1 (config-if-range)# switchport access vlan 10
```

```
S1(config)# interface range fastEthernet 0/9-10
S1 (config-if-range)# switchport mode access
S1 (config-if-range)# switchport access vlan 20
```

```
S2(config)# vlan 10
S2(config-vlan)# name SALES
S2(config)# vlan 20
S2(config-vlan)# name ACCOUNTS
S2(config)# interface range fastEthernet 0/7-8
S2 (config-if-range)# switchport mode access
S2 (config-if-range)# switchport access vlan 10
```

```
S2(config)# interface range fastEthernet 0/9-10
```

```
S2 (config-if-range)# switchport mode access
S2 (config-if-range)# switchport access vlan 20
```

```
S3(config)# vlan 10
S3(config-vlan)# name SALES
S3(config)# vlan 20
S3(config-vlan)# name ACCOUNTS
S3(config)# interface range fastEthernet 0/7-8
S3 (config-if-range)# switchport mode access
S3 (config-if-range)# switchport access vlan 10
```

```
S3(config)# interface range fastEthernet 0/9-10
S3 (config-if-range)# switchport mode access
S3 (config-if-range)# switchport access vlan 20
```

Configure PAgP (Port Aggregation Protocol):

PAgP is a Cisco proprietary protocol for link aggregation. In Part 2, a link between S1 and S3 will be configured using PAgP.

```
S1(config)# interface port-channel 1 4
S1(config)# interface range f0/1-3 1
S1(config-if-range)# channel-group 1 mode desirable 2
1st S1(config-if-range)# no shutdown 3
S1 (config-if)# switchport mode trunk 5
S1 (config-if)# switchport trunk allowed vlan 10,20 6
```

```
S3(config)# interface port-channel 1
S3(config)# interface range f0/1-3
S3(config-if-range)# channel-group 1 mode auto
1st S3(config-if-range)# no shutdown
S3 (config-if)# switchport mode trunk
S3 (config-if)# switchport trunk allowed vlan 10,20
```

Configure LACP (Link Aggregation Control Protocol):

LACP is an open source protocol for link aggregation developed by the IEEE. In Part 3, the link between S1 and S2, and the link between S2 and S3 will be configured using LACP. Also, the individual links will be configured as trunks before they are bundled together as EtherChannels.

```
S1(config)# interface port-channel 2
S1(config)# interface range f0/4-6
S1(config-if-range)# channel-group 2 mode active
1st S1(config-if-range)# no shutdown
S1(config-if-range)# switchport mode trunk
S1(config-if-range)# switchport trunk allowed vlan 10,20
```

```
S2(config)# interface port-channel 2
S2(config)# interface range f0/1-3
S2(config-if-range)# channel-group 2 mode passive
S2(config-if-range)# no shutdown
```

1st

```
S2(config-if-range)# switchport mode trunk  
S2(config-if-range)# switchport trunk allowed vlan 10,20
```

```
S2(config)# interface port-channel 3  
S2(config)# interface range f0/4-6  
S2(config-if-range)# channel-group 3 mode active  
S2(config-if-range)# no shutdown
```

1st

```
S2(config-if-range)# switchport mode trunk  
S2(config-if-range)# switchport trunk allowed vlan 10,20
```

```
S3(config)# interface port-channel 3  
S3(config)# interface range f0/4-6  
S3(config-if-range)# channel-group 3 mode passive  
S3(config-if-range)# no shutdown
```

1st

```
S3 (config-if)# switchport mode trunk  
S3 (config-if)# switchport trunk allowed vlan 10,20
```