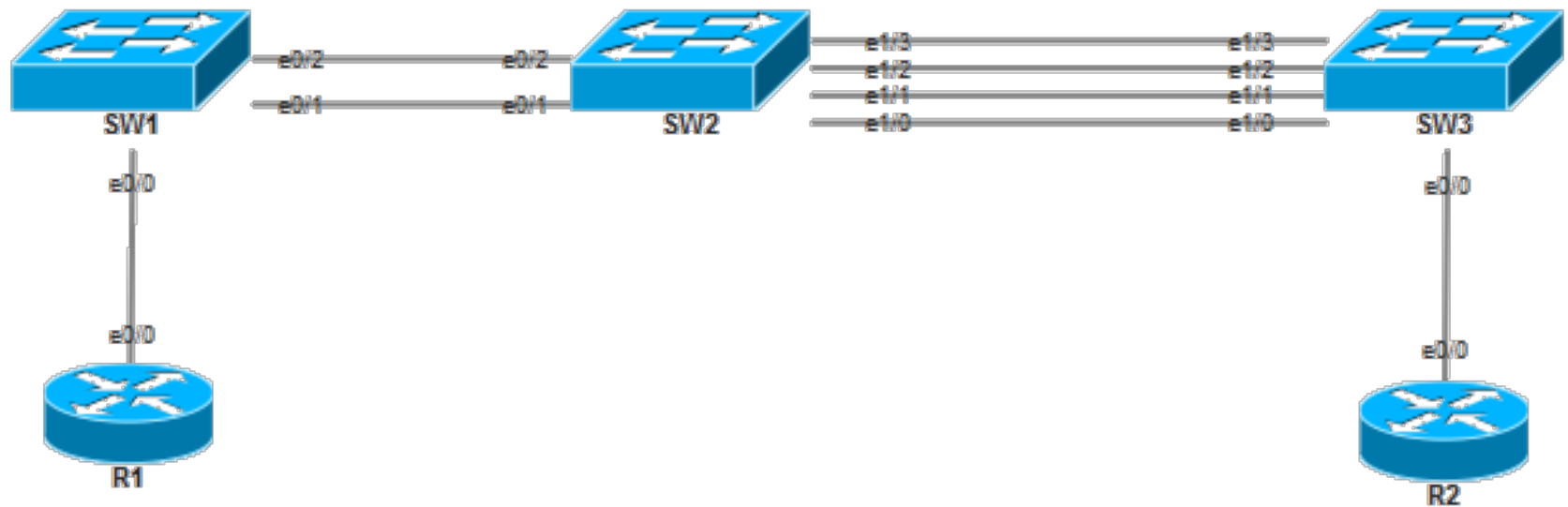


L2 EtherChannel

LACP and PAgP

Topology



Goals

- Configure IP address in R1 and R2
 - E0/0 of R1: 10.10.10.X/24
 - E0/0 of R2: 10.10.10.Y/24
- Ping E0/0 of R1 from R2 and vice-versa, it should work
- Configure EtherChannel in S1, S2 and S3
 - Channel-group number: XY
 - LACP mode active: E0/1 – 2 in S1
 - LACP mode passive: E0/1 – 2 in S2
 - PAgP mode desirable: E1/0 – 3 of S2
 - PAgP mode auto: E1/0 – 3 of S3
- Configure port-channel as trunk at both side with dot1q encapsulation
- Ping E0/0 of R1 from R2 and vice-versa, it should work

Sample configuration: R1

```
interface Ethernet0/0  
  no shutdown  
  ip address 10.10.10.1 255.255.255.0
```

Sample configuration: S2

```
interface range e0/1 - 2
  channel-group 21 mode passive
  channel-protocol lacp
int port-channel 21
  switchport trunk encapsulation dot1q
  switchport mode trunk
```

```
interface range e1/0 - 3
  channel-group 23 mode desirable
  channel-protocol pagp
int port-channel 23
  switchport trunk encapsulation dot1q
  switchport mode trunk
```

Verification

show etherchannel summary