



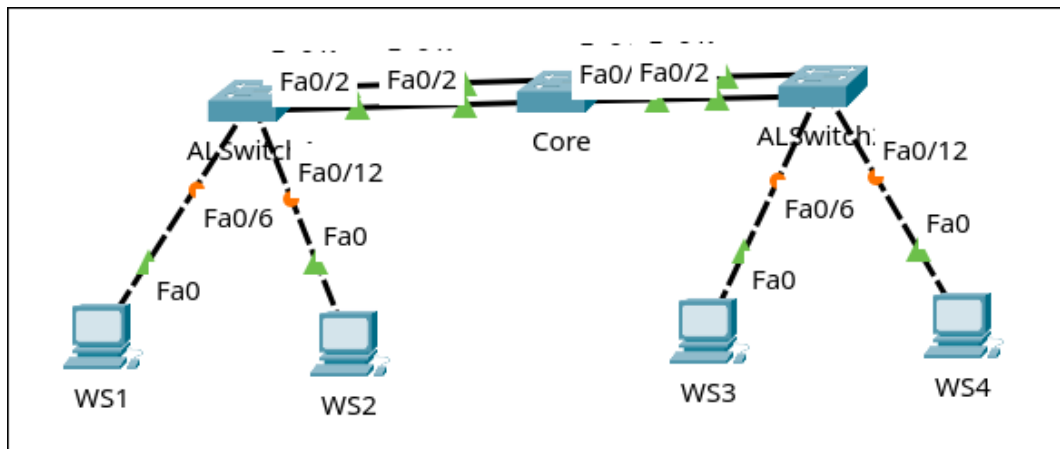
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FACULTAD DE INGENIERÍA ELÉCTRICA Y ELECTRÓNICA

# REDES DE COMPUTADORAS

*E14 - Etherchannel*  
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# 1 Topología de Red



## 2 Información del Etherchannel

### 2.1 show etherchannel summary

```
ALSwitch1(config)#do show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

```
Number of channel-groups in use: 1
Number of aggregators:          1
```

Group	Port-channel	Protocol	Ports
1	Po1(SU)	PAgP	Fa0/1(P) Fa0/2(P)

```
ALSwitch2(config)#do show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

```
Number of channel-groups in use: 1
Number of aggregators:          1
```

Group	Port-channel	Protocol	Ports
2	Po2(SU)	PAgP	Fa0/1(P) Fa0/2(P)

```
Core(config)#do show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

```
Number of channel-groups in use: 2
Number of aggregators:          2
```

Group	Port-channel	Protocol	Ports
1	Po1(SU)	PAgP	Fa0/1(P) Fa0/2(P)
2	Po2(SU)	PAgP	Fa0/3(P) Fa0/4(P)

```
Core(config)#
```

## 2.2 show interface port-channel1

```
Core(config)#do show interface Port-channel1
Port-channel1 is up, line protocol is up (connected)
  Hardware is EtherChannel, address is 0060.3eb9.d622 (bia
0060.3eb9.d622)
  MTU 1500 bytes, BW 200000 Kbit, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Half-duplex, 200Mb/s
  input flow-control is off, output flow-control is off
  Members in this channel: Fa0/1 ,Fa0/2 ,
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:08, output 00:00:05, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue :0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    956 packets input, 193351 bytes, 0 no buffer
    Received 956 broadcasts, 0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    2357 packets output, 263570 bytes, 0 underruns
    0 output errors, 0 collisions, 10 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
```

## 2.3 show interfaces f0/1

```
Core(config)#do show etherchannel
Channel-group listing:
-----

Group: 1
-----
Group state = L2
Ports: 2 Maxports = 8
Port-channels: 1 Max Portchannels = 1
Protocol:   PAGP

Group: 2
-----
Group state = L2
Ports: 2 Maxports = 8
Port-channels: 1 Max Portchannels = 1
Protocol:   PAGP
Core(config)# |
```

```
Core(config)#do show etherchannel port-channel
Channel-group listing:
-----

Group: 1
-----
Port-channels in the group:
-----

Port-channel: Po1
-----

Age of the Port-channel   = 00d:00h:10m:51s
Logical slot/port        = 2/1          Number of ports = 2
GC                        = 0x00000000   HotStandBy port = null
Port state                = Port-channel
Protocol                  =   PAGP
Port Security              = Disabled

Ports in the Port-channel:

Index  Load  Port    EC state    No of bits
-----+-----+-----+-----+-----
  0    00    Fa0/1    Desirable-Sl    0
  0    00    Fa0/2    Desirable-Sl    0
Time since last port bundled:  00d:00h:08m:35s   Fa0/2
Group: 2
-----
Port-channels in the group:
-----

Port-channel: Po2
-----

Age of the Port-channel   = 00d:00h:10m:20s
Logical slot/port        = 2/2          Number of ports = 2
GC                        = 0x00000000   HotStandBy port = null
Port state                = Port-channel
Protocol                  =   PAGP
Port Security              = Disabled
```