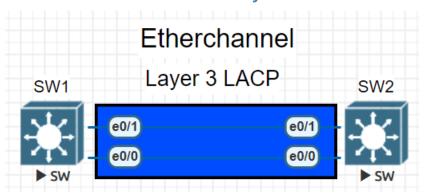
Etherchannel Layer 3 LACP Configuration

In this How To we will cover how to configure LACP for a Layer 3 Etherchannel on Cisco Catalyst switches.



- We will need to first bundle our interfaces into a port-channel. Then we will turn our member interfaces into Layer 3 Routed ports.

SW1(config)#interface range eth0/0 - 1 # This command will put you into the interface subconfiguration mode for multiple interfaces

SW1(config-if-range)#channel-group 44 mode active # This command will bundle the member interfaces into a port-channel using LACP negotiation to actively negotiate with the other side.

SW1(config-if-range)#no switchport # This command turns off the Layer 2 functionality of a switchport, and turns it into a Layer 3 routed port

- Now we will go into our port-channel configure an IP address

SW1(config)#interface po44 # This command will put us into the port-channel sub-configuration mode

SW1(config-if)#ip address [IPv4 address] [Subnet_Mask] # This command will configure an IP address for the interface

- The complete configuration for both switches is shown below

```
SW1(config)#interface range eth0/0 - 1
SW1(config-if-range)#channel-group 44 mode active
SW1(config-if-range)#no switchport
SW1(config-if-range)#exit
SW1(config)#interface po44
SW1(config-if)#ip address 10.10.10.1 255.255.255.0
SW1(config-if)#

SW2(config)#interface range eth0/0 - 1
SW2(config-if-range)#channel-group 44 mode active
SW2(config-if-range)#no switchport
SW2(config-if-range)#exit
SW2(config-if-range)#exit
SW2(config-if)#ip address 10.10.10.2 255.255.255.0
SW2(config-if)#ip address 10.10.10.2 255.255.255.0
```

Verification

• The following show commands will verify if the Etherchannel is working properly.

SW1#show etherchannel summary # This command will show us if our Etherchannel is bundled and active.

