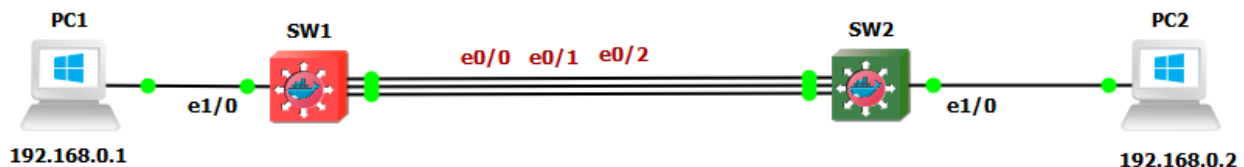


PAgP (Port Aggregation Protocol):

- o PAgP stand for Port Aggregation Protocol & cisco proprietary protocol.
- o It also creates EtherChannel links and is configured similarly to LACP.
- o PAgP automatically configure individual ports into a single logical link.
- o There are two modes for the Port Aggregation Protocol (PAgP).
- o **Auto** is the passive negotiating state, which responds to PAgP packets.
- o **Desirable** mode places interface or port into an active negotiating state.
- o Having two ends of a PAgP link in auto mode will not result in a PAgP link.
- o Because neither side will negotiate to bring up the PAgP EtherChannel.
- o PAgP advertises messages with the multicast MAC address **0100:0CCC:CCCC**.
- o You can have up to eight ports in a single PAgP EtherChannel or logical link.
- o All ports in PAgP EtherChannel must have the same speed & duplex settings.



SW1 PAgP Configuration
<code>SW1(config)#default interface range e0/0-2</code>
<code>SW1(config)#no interface port-channel 1</code>
<code>SW1(config)#interface range ethernet 0/0-2</code>
<code>SW1(config-if-range)#switchport trunk encapsulation dot1q</code>
<code>SW1(config-if-range)#switchport mode trunk</code>
<code>SW1(config-if-range)#channel-protocol pagp</code>
<code>SW1(config-if-range)#channel-group 1 mode auto</code>
<code>SW1# show etherchannel summary</code>
<code>SW1# show etherchannel detail</code>
<code>SW1# show etherchannel port-channel</code>
SW2 PAgP Configuration
<code>SW2(config)#default interface range e0/0-2</code>
<code>SW2(config)#no interface port-channel 1</code>
<code>SW2(config)#interface range e0/0-2</code>
<code>SW2(config-if-range)#switchport trunk encapsulation dot1q</code>
<code>SW2(config-if-range)#switchport mode trunk</code>
<code>SW2(config-if-range)#channel-protocol pagp</code>
<code>SW2(config-if-range)#channel-group 1 mode desirable</code>
<code>SW2# show etherchannel summary</code>
<code>SW2# show etherchannel detail</code>
<code>SW2# show etherchannel port-channel</code>