

Cisco交换机上的链路聚合 PDF转换可能丢失图片或格式，建议阅读原文

https://www.100test.com/kao_ti2020/270/2021_2022_Cisco_E4_BA_A4_E6_8D_c67_270368.htm cisco交换机上的链路聚合 一、2

层 ethernet channel (interface)#channel-group number mode {on | auto [no-silent]|desirable [no-silent]} on 使用EthernetChannel 但不发送pagp分组 off 禁用EthernetChannel desirable 交换机主动要求形成一个EthernetChannel 发送pagp分组 auto 交换机被动形成一个EthernetChannel 不发送pagp分组 默认取值 往往可能EthernetChannel的一端 (一台服务器或者是网络分析仪)#没有产生pagp分组或者说是保持 “ 沉默”，可以使用关键字silent 在15秒的延迟之后，让对端成为EthernetChannel.起对端为 ” 沉默 “ 使用non - silent关键字则要求在激活EthernetChannel之前现进行pagp协商、 Catalyst 2900 3500xl 平台上没有pagp 只有 on off不进行协商 ios (global)# port-channel load-balance method 源地址 src-ip 目的地址 dst - ip 源和目的 src - dst - ip 源mac地址 src - mac 目的mac地址 dst - mac 源和目的mac src - dst - mac 源端口号 src - port 目的端口号 dst-port 源和目的端口号 src-dst-port example(global)# interface fastethernet 4/1(interface)#channel-group 100 mode desirable non-silent(global)# interface fastethernet 4/2(interface)#channel-group 100 mode desirable non-silent(global)# interface fastethernet 5/1(interface)#channel-group 100 mode desirable non-silent(global)# interface fastethernet 5/2(interface)#channel-group 100 mode desirable

non-silent(global)#port-channel load-balance src-dst-ipshow
etherchannel [channel-group] load-balance 绑定到一起的端口必须具有相同的属性如：速度 双工模式 vlan 干路模式 允许的vlan范围 3层 etherchannel 1创建逻辑端口通道 interface port - channel number 2.配置端口通道上的协议信息 ip address address netmask 3.把物理3层接口分配给通道 interface type mod/port 选择的端口必须是一个3层接口 no switchport 4.删除任何协议地址 no ip address 5.把接口分配给通道组 channel-group number mode {auto | desirable | on} 6.核实接口已经启用 no shutdown 7核实通道 show ethernetchannel number port-channel show interface type number etherchannel show ethernetchannel summary example 分布层交换机

上(config)#interface channel-group 1(config-if)#ip address 192.168.1.1 255.255.255.0(config-if)#interface gigabitethernet 1/1(config-if)#no switchport(config-if)#no ip address(config-if)#channel-group 1 mod on(config-if)#no shutdown(config-)#interface gigabitethernet 1/2(config-if)#no switchport(config-if)#no ip address(config-if)#channel-group 1 mode on(config-if)#endcopy run start 接入层交换机

(3500xl)#(config)#interface gigabitethernet 0/1(config-if)#port group 1(config)#interface gigabitethernet 0/2(config-if)#port group 1(config)#end#copy run start 我的试验3750配置实例 CastLyst 3750GSwitch#config tSwitch(config)#int gigabitEthernet 1/0/23Switch(config-if)#channel-group 10 mode ?active Enable LACP unconditionallyauto Enable PAgP only if a PAgP device is detecteddesirable Enable PAgP unconditionallyon Enable

```
Etherchannel onlypassive Enable LACP only if a LACP device is
detectedSwitch(config-if)#channel-group 10 mode desirable
non-silentSwitch(config)#int gigabitEthernet
1/0/24Switch(config-if)#channel-group 10 mode desirable
non-silentSwitch(config)#port-channel ?load-balance Load
Balancing methodSwitch(config)#port-channel load-balance ?dst-ip
Dst IP Addrsrc-dst-mac Dst Mac Addrsrc-dst-ip Src XOR Dst IP
Addrsrc-dst-mac Src XOR Dst Mac Addrsrc-ip Src IP Addrsrc-mac
Src Mac AddrSwitch(config)#port-channel load-balance
src-dst-ipSwitch#writeSwitch#show interfaces gigabitEthernet 1/0/23
etherchannelPort state = Up Sngl-port-Bndl Mstr
Not-in-BndlChannel group = 10 Mode = Desirable-NonSI
Gcchange = 0Port-channel = null GC = 0x000A0001 Pseudo
port-channel = Po10Port index = 0 Load = 0x00 Protocol =
PAgPFlags: S - Device is sending Slow hello. C - Device is in
Consistent state.A - Device is in Auto mode. P - Device learns on
physical port.d - PAgP is down.Timers: H - Hello timer is running.
Q - Quit timer is running.S - Switching timer is running. I - Interface
timer is running.Local information:Hello Partner PAgP Learning
GroupPort Flags State Timers Interval Count Priority Method
IfindexGi1/0/23 U4/S4 H 30s 0 128 Any 10123Age of the port in the
current state: 00d:00h:03m:30sSwitch#show etherchannel
summaryFlags: D - down P - in port-channell - stand-alone s -
suspendedH - Hot-standby (LACP only)#R - Layer3 S - Layer2U -
in use f - failed to allocate aggregatoru - unsuitable for bundlingw -
waiting to be aggregatedd - default portNumber of channel-groups
```

in use: 1 Number of aggregators: 1 Group Port-channel Protocol
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