Layer 2

1. Vlan
2. 建立vlan

vlan [number]

name [Name]

show vlan

1. 放入vlan

int [interfaces]

switchport access vlan [number]

1. 起Trunk

int [interfaces]

switchport trunk encapsulation dot1q

switchport mode trunk

show interfaces trunk

1. Allowed VLAN

switchport trunk allowed vlan [number]

1. Ether-channel
2. 建立ether-channel

channel-group [1-256(channel group number)] mode [mode]

|  |  |  |
| --- | --- | --- |
| Protocol | SW1 | SW2 |
| Static on mode | On | on |
| PAGP | desirable | auto |
| LACP | active | passive |

show etherchannel summary

show interfaces port-channel [group number]

port-channel load-balance [method]

Layer 3

1. Route Table

show ip route

show run | include ip route

1. Static route

ip route [destination ad] [mask] [next hop interface]

預設：

Ip route 0.0.0.0 0.0.0.0 [next hop interface]

1. Dynamic route

FHRP(First Hop Redundancy Protocol)

1. HSRP

HSRP只有Cisco設備可用，先設定Group ID、VIP(Virtual IP)，參與HSRP的Interface的Group ID要相同，VIP需與Interface的IP處於同一個Subnet中。

1. 建立HSRP

standby [Group ID] ip [VIP]

1. 查看HSRP

show standby可查看HSRP狀態

除了VIP外，還可以看到Virtual MAC，VMAC是自動產生的

更改VMAC : standby [Group ID] mac-address [VMAC]

通常不會更改VMAC

1. VRRP
2. GLBP