

一.創 Vlan

DGS-3620
create vlan lan tag 5

DGS-1510
configure terminal
vlan 5
name lan

Cisco-3750X
C3750X_CHT_F1-3(config)#vlan 5

二.設定 vlan_port

(一)Access port

DGS-3620
Config vlan lan add untagged 1

DGS-1510
configure terminal
interface ethernet 1/0/1
switchport hybrid native vlan 5
switchport hybrid allowed vlan untagged 5

Cisco-3750X
C3750X_CHT_F1-3(config) interface TenGigabitEthernet1/1/1
C3750X_CHT_F1-3(config) switchport mode access
C3750X_CHT_F1-3(config) switchport access vlan 5

(二)trunk port

DGS-3620
Config vlan default add untagged 1
Config vlan intra-1 add tagged 1
Config vlan intra-2 add tagged 1

DGS-1510

configure terminal

interface ethernet 1/0/1

switchport hybrid native vlan 1

switchport hybrid allowed vlan untagged 1

switchport hybrid allowed vlan tagged 10,20

Cisdo-3750X

interface TenGigabitEthernet1/1/1

switchport trunk encapsulation dot1q

switchport trunk allowed vlan 10,20

switchport mode trunk

三.查看 arp

DGS-3620

```
ERDC-L3:admin#show arpentry
Command: show arpentry

ARP Aging Time : 20
ARP Retry Times : 4

Interface      IP Address      MAC Address      Type
-----
System         10.226.56.0     FF-FF-FF-FF-FF-FF Local/Broadcast
System         10.226.56.2     54-B8-0A-C6-39-E0 Dynamic
System         10.226.56.4     54-B8-0A-C6-78-00 Dynamic
System         10.226.56.5     54-B8-0A-C6-78-80 Dynamic
```

DGS-1510

```
ERDC-L2-02>sh arp

S - Static Entry

IP Address      Hardware Addr      IP Interface      Age (min)
-----
10.226.56.2     54-B8-0A-C6-39-E0  vlan1             forever
10.226.56.254   3C-1E-04-B6-C2-00  vlan1             20

Total Entries: 2
```

Cisco-3750X

```
C3750X_CHT_F1-3#sh arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 10.1.1.1 - c067.af06.a2c0 ARPA Vlan1
Internet 163.20.202.185 191 0009.0fab.7a9d ARPA Vlan256
Internet 163.20.202.187 119 3c1e.04b6.c201 ARPA Vlan256
Internet 163.20.202.188 - c067.af06.a2c3 ARPA Vlan256
Internet 163.20.202.190 0 0009.0f09.0008 ARPA Vlan256
```

四.查看 mac

DGS-3620

```
ERDC-L3:admin#sh fdb
Command: show fdb

Unicast MAC Address Aging Time = 300

VID VLAN Name MAC Address Port Type Status
----
1 default 00-21-91-A7-1E-00 20 Dynamic Forward
1 default 00-21-91-A7-1E-FF 20 Dynamic Forward
1 default 3C-1E-04-B6-C2-00 CPU Self Forward
1 default 54-B8-0A-C6-39-E0 23 Dynamic Forward
1 default 54-B8-0A-C6-6E-C0 20 Dynamic Forward
1 default 54-B8-0A-C6-77-E0 23 Dynamic Forward
```

DGS-1510

```
ERDC-L2-02>sh mac-address-table

VLAN MAC Address Type Ports
----
1 3C-1E-04-B6-C2-00 Dynamic eth1/0/24
1 3C-1E-04-B6-C3-16 Dynamic eth1/0/24
1 54-B8-0A-C6-39-E0 Static CPU
1 54-B8-0A-C6-77-E0 Dynamic eth1/0/24
1 54-B8-0A-C6-78-1A Dynamic eth1/0/24
```

Cisco-3750X

```
C3750X_CHT_F1-3#sh mac address-table
Mac Address Table
-----
Vlan Mac Address Type Ports
----
All 0100.0ccc.cccc STATIC CPU
All 0100.0ccc.cccd STATIC CPU
All 0180.c200.0000 STATIC CPU
```

五.查看 port 状态

DGS-3620

```
ERDC-L3:admin#show ports
Command: show ports
```

Port	State/ MDIX	Settings Speed/Duplex/FlowCtrl	Connection Speed/Duplex/FlowCtrl	Address Learning	AutoSpeed Downgrade
1	Enabled Auto	Auto/Disabled	1000M/Full/None	Enabled	Disabled
2	Enabled Auto	Auto/Disabled	1000M/Full/None	Enabled	Disabled
3	Enabled Auto	Auto/Disabled	1000M/Full/None	Enabled	Disabled

DGS-1510

```
ERDC-L2-02#sh interfaces status
```

Port	Status	VLAN	Duplex	Speed	Type
eth1/0/1	not-connected	20	auto	auto	1000BASE-T
eth1/0/2	not-connected	20	auto	auto	1000BASE-T
eth1/0/3	not-connected	20	auto	auto	1000BASE-T
eth1/0/4	connected	20	a-full	a-100	1000BASE-T
eth1/0/5	not-connected	20	auto	auto	1000BASE-T
eth1/0/6	not-connected	20	auto	auto	1000BASE-T

Cisco-3750X

```
C3750X_CHT_F1-3#show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
Vlan1	10.1.1.1	YES	NVRAM	up	down
Vlan40	163.20.250.254	YES	NVRAM	up	up
Vlan200	unassigned	YES	unset	up	up
Vlan256	163.20.202.188	YES	NVRAM	up	up
Vlan626	unassigned	YES	unset	up	up
FastEthernet0	unassigned	YES	NVRAM	administratively down	down
GigabitEthernet1/0/1	unassigned	YES	unset	down	down
GigabitEthernet1/0/2	unassigned	YES	unset	down	down
GigabitEthernet1/0/3	unassigned	YES	unset	down	down
GigabitEthernet1/0/4	unassigned	YES	unset	up	up
GigabitEthernet1/0/5	unassigned	YES	unset	up	up

六.查看 vlan

DGS3620

```
ERDC-L3:admin#show vlan
Command: show vlan
```

VLAN Trunk State : Disabled
VLAN Trunk Member Ports :

VID : 1 VLAN Name : default
VLAN Type : Static Advertisement : Enabled
Member Ports : 5,8,19-23,26-28
Static Ports : 5,8,19-23,26-28
Current Tagged Ports :
Current Untagged Ports: 5,8,19-23,26-28
Static Tagged Ports :
Static Untagged Ports : 5,8,19-23,26-28
Forbidden Ports :

DGS1510

```
ERDC-L2-02#show vlan
```

```
VLAN 1
```

```
Name : default
```

```
Tagged Member Ports :
```

```
Untagged Member Ports : 1/0/24-1/0/26,2/0/24-2/0/26
```

```
VLAN 5
```

```
Name : lan
```

```
Tagged Member Ports : 1/0/24-1/0/26,2/0/24-2/0/26
```

```
Untagged Member Ports :
```

Cisco3750X

```
C3750X_CHT_F1-3#sh vlan
```

VLAN Name	Status	Ports
1 default	active	Gi1/0/22, Gi1/0/23 Te1/1/2, Gi2/0/1, Gi2/0/8, Gi2/0/9,