

2.4

VLAN

2.4.1

步骤 1 console

步骤 2

2.4.2

步骤 1

步骤 2 VLAN

步骤 3 IP

步骤 4 Port VLAN

2.5

2.5.1

```
[S2]interface eth-trunk 1
[S2-Eth-Trunk1]mode lacp
[S2-Eth-Trunk1]trunkport GigabitEthernet 0/0/9
[S2-Eth-Trunk1]trunkport GigabitEthernet 0/0/10
```

步骤 2 Eth-Trunk Trunk VLAN

 Hybrid Eth-Trunk 1 Trunk

VLAN

```
[S1]interface Eth-Trunk 1
[S1-Eth-Trunk1]port link-type trunk
[S1-Eth-Trunk1]port trunk allow-pass vlan all

[S2]interface Eth-Trunk 1
[S2-Eth-Trunk1]port link-type trunk
[S2-Eth-Trunk1]port trunk allow-pass vlan all
```

步骤 3 VLAN ACCESS

```
[S1]interface GigabitEthernet0/0/13
[S1-GigabitEthernet0/0/13]port link-type access
[S1-GigabitEthernet0/0/13]quit
[S1]interface GigabitEthernet0/0/1
[S1-GigabitEthernet0/0/1]port link-type access
[S1-GigabitEthernet0/0/1]quit
[S1]vlan 2
[S1-vlan2]vlan 3
[S1-vlan3]port GigabitEthernet0/0/13
[S1-vlan3]vlan 4
[S1-vlan4]port GigabitEthernet0/0/1

[S2]vlan batch 2 to 4
[S2]interface GigabitEthernet 0/0/3
[S2-GigabitEthernet0/0/3]port link-type access
[S2-GigabitEthernet0/0/3]port default vlan 4
[S2-GigabitEthernet0/0/3]quit
[S2]interface GigabitEthernet 0/0/6
[S2-GigabitEthernet0/0/6]port link-type access
[S2-GigabitEthernet0/0/6]port default vlan 2
```

```
<S1>display vlan
The total number of vlans is : 4

-----
U: Up;            D: Down;            TG: Tagged;            UT: Untagged;
MP: Vlan-mapping;            ST: Vlan-stacking;
#: ProtocolTransparent-vlan;    *: Management-vlan;
-----
```

VID	Type	Ports			
1	common	UT:GE0/0/2(U) GE0/0/3(U) GE0/0/4(U) GE0/0/5(U) GE0/0/6(D) GE0/0/7(D) GE0/0/8(D) GE0/0/11(D) GE0/0/12(D) GE0/0/14(U) GE0/0/15(D) GE0/0/16(D) GE0/0/17(D) GE0/0/18(D) GE0/0/19(D) GE0/0/20(D) GE0/0/21(U) GE0/0/22(U) GE0/0/23(U) GE0/0/24(D) GE0/0/25(D) GE0/0/26(D) GE0/0/27(D) GE0/0/28(D) XGE0/0/1(D) XGE0/0/2(D) XGE0/0/3(D) XGE0/0/4(D) Eth-Trunk1(U)			
2	common	TG:Eth-Trunk1(U)			
3	common	UT:GE0/0/13(U)			
		TG:Eth-Trunk1(U)			
4	common	UT:GE0/0/1(U)			
		TG:Eth-Trunk1(U)			
VID	Status	Property	MAC-LRN Statistics Description		
1	enable	default	enable	disable	VLAN 0001
2	enable	default	enable	disable	VLAN 0002
3	enable	default	enable	disable	VLAN 0003
4	enable	default	enable	disable	VLAN 0004

<S2>display vlan

The total number of vlans is : 4

U: Up;		D: Down;		TG: Tagged;			
MP: Vlan-mapping;				UT: Untagged;			
#: ProtocolTransparent-vlan;				ST: Vlan-stacking;			
				*: Management-vlan;			

VID	Type	Ports					

1	common	UT:GE0/0/1(U)					
		GE0/0/2(U)					
		GE0/0/4(U)					
		GE0/0/5(U)					
		GE0/0/7(D)					
		GE0/0/8(D)					
		GE0/0/11(U)					
		GE0/0/12(U)					
		GE0/0/13(U)					
		GE0/0/14(D)					
		GE0/0/15(D)					
		GE0/0/16(D)					
		GE0/0/17(D)					
		GE0/0/18(D)					
		GE0/0/19(D)					
		GE0/0/20(D)					
		GE0/0/21(D)					
		GE0/0/22(D)					
		GE0/0/23(U)					
		GE0/0/24(U)					
		GE0/0/25(D)					
		GE0/0/26(D)					
		GE0/0/27(D)					
		GE0/0/28(D)					
		XGE0/0/1(D)					
		XGE0/0/2(D)					
		XGE0/0/3(D)					
		XGE0/0/4(D)					
		Eth-Trunk1(U)					
2	common	UT:GE0/0/6(U)					
		TG:Eth-Trunk1(U)					
3	common	TG:Eth-Trunk1(U)					
4	common	UT:GE0/0/3(U)					
		TG:Eth-Trunk1(U)					

VID	Status	Property	MAC-LRN Statistics Description				

1	enable	default	enable	disable	VLAN 0001		
2	enable	default	enable	disable	VLAN 0002		
3	enable	default	enable	disable	VLAN 0003		
4	enable	default	enable	disable	VLAN 0004		

步骤 4IP

n

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<Huawei>system-view

[Huawei]sysname R1

[R1]interface GigabitEthernet0/0/1

[R1-GigabitEthernet0/0/1]ip address 10.0.4.1 24

[S3]interface vlanif 1

[S3-vlanif1]ip address 10.0.4.2 24

<Huawei>system-view

[Huawei]sysname R3

[R3]interface GigabitEthernet0/0/2

[R3-GigabitEthernet0/0/2]ip address 10.0.4.3 24

[S4]interface vlanif 1

[S4-vlanif1]ip address 10.0.4.4 24

步骤 5VLAN

执行ping命令。同属VLAN 4中的R1和R3能够相互通信。其他不同VLAN间的设备无法通信。

[R1]ping 10.0.4.3

```
PING 10.0.4.3: 56  data bytes, press CTRL_C to break
  Reply from 10.0.4.3: bytes=56 Sequence=1 ttl=255 time=6 ms
  Reply from 10.0.4.3: bytes=56 Sequence=2 ttl=255 time=2 ms
  Reply from 10.0.4.3: bytes=56 Sequence=3 ttl=255 time=2 ms
  Reply from 10.0.4.3: bytes=56 Sequence=4 ttl=255 time=2 ms
  Reply from 10.0.4.3: bytes=56 Sequence=5 ttl=255 time=2 ms
--- 10.0.4.3 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
round-trip min/avg/max = 2/2/6 ms

[R1]ping 10.0.4.4
  PING 10.0.4.4: 56  data bytes, press CTRL_C to break
  Request time out
  Request time out
  Request time out
  Request time out
  Request time out
--- 10.0.4.4 ping statistics ---
  5 packet(s) transmitted
  0 packet(s) received
100.00% packet loss
```

步骤 6 Hybrid

```
[S1]interface GigabitEthernet 0/0/1
[S1-GigabitEthernet0/0/1]undo port default vlan
[S1-GigabitEthernet0/0/1]port link-type hybrid
[S1-GigabitEthernet0/0/1]port hybrid untagged vlan 2 4
[S1-GigabitEthernet0/0/1]port hybrid pvid vlan 4

[S2]interface GigabitEthernet 0/0/3
[S2-GigabitEthernet0/0/3]undo port default vlan
[S2-GigabitEthernet0/0/3]port link-type hybrid
[S2-GigabitEthernet0/0/3]port hybrid untagged vlan 2 4
[S2-GigabitEthernet0/0/3]port hybrid pvid vlan 4
[S2-GigabitEthernet0/0/3]quit
[S2]interface GigabitEthernet 0/0/6
[S2-GigabitEthernet0/0/6]undo port default vlan
[S2-GigabitEthernet0/0/6]port link-type hybrid
[S2-GigabitEthernet0/0/6]port hybrid untagged vlan 2 4
[S2-GigabitEthernet0/0/6]port hybrid pvid vlan 2
```

```
<R1>ping 10.0.4.3
PING 10.0.4.3: 56  data bytes, press CTRL_C to break
  Reply from 10.0.4.3: bytes=56 Sequence=1 ttl=255 time=1 ms
  Reply from 10.0.4.3: bytes=56 Sequence=2 ttl=255 time=1 ms
  Reply from 10.0.4.3: bytes=56 Sequence=3 ttl=255 time=1 ms
  Reply from 10.0.4.3: bytes=56 Sequence=4 ttl=255 time=10 ms
  Reply from 10.0.4.3: bytes=56 Sequence=5 ttl=255 time=1 ms
--- 10.0.4.3 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
round-trip min/avg/max = 1/2/10 ms
```

```
<R1>ping 10.0.4.4
PING 10.0.4.4: 56  data bytes, press CTRL_C to break
  Reply from 10.0.4.4: bytes=56 Sequence=1 ttl=255 time=41 ms
  Reply from 10.0.4.4: bytes=56 Sequence=2 ttl=254 time=2 ms
  Reply from 10.0.4.4: bytes=56 Sequence=3 ttl=254 time=3 ms
  Reply from 10.0.4.4: bytes=56 Sequence=4 ttl=254 time=2 ms
  Reply from 10.0.4.4: bytes=56 Sequence=5 ttl=254 time=2 ms
--- 10.0.4.4 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
round-trip min/avg/max = 2/10/41 ms
```

```
[R1]display current-configuration
[V200R003C00]
#
 sysname R1
#
interface GigabitEthernet0/0/1
 ip address 10.1.4.1 255.255.255.0
#
[S3]display current-configuration
#
 sysname S3
interface Vlanif1
 ip address 10.1.4.2 255.255.255.0
#
[S1]display current-configuration
```

```
#
sysname S1
#
vlan batch 2 to 4
#
interface Eth-Trunk1
port link-type trunk
port trunk allow-pass vlan 2 to 4094
mode lacp
#
interface GigabitEthernet0/0/1
port link-type hybrid
port hybrid pvid vlan 4
port hybrid untagged vlan 2 4
#
interface GigabitEthernet0/0/9
undo negotiation auto
speed 100
eth-trunk 1
lacp priority 100
#
interface GigabitEthernet0/0/10
undo negotiation auto
speed 100
eth-trunk 1
lacp priority 100
#
interface GigabitEthernet0/0/13
port link-type access
port default vlan 3
#
return

[S2]display current-configuration
#
!Software Version V200R008C00SPC500
sysname S2
#
vlan batch 2 to 4
#
interface Eth-Trunk1
port link-type trunk
port trunk allow-pass vlan 2 to 4094
mode lacp
#
interface GigabitEthernet0/0/3
port link-type hybrid
port hybrid pvid vlan 4
port hybrid untagged vlan 2 4
#
interface GigabitEthernet0/0/9
undo negotiation auto
speed 100
eth-trunk 1
#
interface GigabitEthernet0/0/10
undo negotiation auto
speed 100
```

```
eth-trunk 1
#
interface GigabitEthernet0/0/6
port link-type hybrid
port hybrid pvid vlan 2
port hybrid untagged vlan 2 4
#
return

[R3]display current-configuration
#
sysname R3
#
interface GigabitEthernet0/0/2
ip address 10.0.4.3 255.255.255.0
#
return

[S4]display current-configuration
#
!Software Version V100R006C05
sysname S4
#
interface Vlanif1
ip address 10.0.4.4 255.255.255.0
#
interface GigabitEthernet0/0/1
shutdown
#
interface GigabitEthernet0/0/14
shutdown
#
return
```

