

?? S6220-48XS6QXS-H

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VLAN ##### VLAN30 ##### VLAN#
S6220-48XS6QXS-H #####
CLI##### Cisco##### Ruijie####

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VLAN	IP	Port	IP	Port
VLAN10	10.2.2.0/24	Port 1 ##### 1#	10.2.2.254	Port 45-46##### 1 LAN
VLAN20	10.2.3.0/24	Port 2 ##### 2#	10.2.3.254	Port 47-48##### 2 LAN
VLAN30	10.3.3.0/24	Port	—	#####

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```
# #####
enable
configure terminal

# # VLAN
vlan 10
name ROUTER1_NET
exit

vlan 20
name ROUTER2_NET
exit
```

```
vlan 30
  name MGMT_NET
  exit

# VLAN 10 (SVI)
interface vlan 10
  ip address 10.2.2.1 255.255.255.0
  description "Gateway interface for VLAN10"
  exit

interface vlan 20
  ip address 10.2.3.1 255.255.255.0
  description "Gateway interface for VLAN20"
  exit

interface vlan 30
  ip address 10.3.3.1 255.255.255.0
  description "Switch Management VLAN"
  exit

# 
ip routing

# VLAN10 45-46 access 1
interface range gigabitEthernet 1/0/45-46
  switchport mode access
  switchport access vlan 10
  description "To Router1 LAN"
  exit

# VLAN20 47-48 access 2
interface range gigabitEthernet 1/0/47-48
  switchport mode access
  switchport access vlan 20
  description "To Router2 LAN"
  exit

# VLAN30 
interface vlan 30
  ip address 10.3.3.1 255.255.255.0
```

```
exit
```

```
# 配置默认网关
```

```
ip default-gateway 10.3.3.254
```

```
# 配置 VLAN10 和 VLAN20
```

```
ip route-static 0.0.0.0 0.0.0.0 10.2.2.254 vlan 10
```

```
ip route-static 0.0.0.0 0.0.0.0 10.2.3.254 vlan 20
```

```
# 保存配置
```

```
write
```

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1. VLAN10 & VLAN20

- 配置 VLAN10 和 VLAN20
- 配置 VLAN10 的网关为 10.2.2.254 / 10.2.3.254
- 配置 NAT 规则，将 VLAN10 和 VLAN20 的流量转发到 VLAN30

2. VLAN30 配置

- 配置 VLAN30
- 配置 VLAN30 的网关为 10.3.3.0/24
- 配置 VLAN30 的 IP 地址为 10.3.3.x/24

3. 配置 ip routing

- 配置 ip routing 功能，并配置 ACL 规则

4. 配置默认网关

- `ip default-gateway` 配置默认网关
- `ip route-static` 配置静态路由

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```
# 配置 VLAN 10 和 VLAN 20
```

```
acl number 3000
```

```
rule 5 deny ip source 10.2.2.0 0.0.0.255 destination 10.3.3.0 0.0.0.255
```

```
rule 10 deny ip source 10.2.3.0 0.0.0.255 destination 10.3.3.0 0.0.0.255
```

```
rule 20 permit ip
```

```
quit
```

```
# ACL VLAN
interface vlan 30
  packet-filter 3000 inbound
exit
```

? ????????

```
# VLAN
show vlan brief

#
show running-config interface vlan 10
show running-config interface vlan 20
show running-config interface vlan 30

#
show ip route static

#
ping 10.2.2.254
ping 10.2.3.254
ping 10.3.3.254
```

VLAN#####

VLAN#####

- VLAN10 / VLAN20 #####
- VLAN30 ##### VLAN##### VLAN ##

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VLAN	IP	SVI IP	IP	IP
VLAN10	10.2.2.0/24	10.2.2.1	10.2.2.254	IP 1 IP 1
VLAN20	10.2.3.0/24	10.2.3.1	10.2.3.254	IP 2 IP 2
VLAN30	10.3.3.0/24	10.3.3.254		IP

?? ????????

```
enable
configure terminal

# VLAN
vlan 10
  name VLAN10_ROUTER1
  exit
vlan 20
  name VLAN20_ROUTER2
  exit
vlan 30
  name VLAN30_MANAGEMENT
  exit

# SVI
interface vlan 10
  ip address 10.2.2.1 255.255.255.0
  description "Gateway for VLAN10 (Router1 LAN)"
  exit

interface vlan 20
  ip address 10.2.3.1 255.255.255.0
  description "Gateway for VLAN20 (Router2 LAN)"
  exit

interface vlan 30
```

```
ip address 10.3.3.254 255.255.255.0
description "Management VLAN"
exit
```

```
#
ip routing
```

```
# VLAN10
interface range gigabitEthernet 1/0/1-10
  switchport mode access
  switchport access vlan 10
  description "Server1 NIC1 - VLAN10"
  exit
```

```
interface range gigabitEthernet 1/0/45-46
  switchport mode access
  switchport access vlan 10
  description "To Router1 LAN (10.2.2.254)"
  exit
```

```
# VLAN20
interface range gigabitEthernet 1/0/11-20
  switchport mode access
  switchport access vlan 20
  description "Server2 NIC1 - VLAN20"
  exit
```

```
interface range gigabitEthernet 1/0/47-48
  switchport mode access
  switchport access vlan 20
  description "To Router2 LAN (10.2.3.254)"
  exit
```

```
# VLAN30
interface range gigabitEthernet 1/0/21-30
  switchport mode access
  switchport access vlan 30
  description "Server1 NIC2 + Server2 NIC2 (Management)"
  exit
```

```
# 配置默认网关
ip default-gateway 10.3.3.254

# 配置 VLAN 接口
ip route-static 0.0.0.0 0.0.0.0 10.2.2.254 vlan 10
ip route-static 0.0.0.0 0.0.0.0 10.2.3.254 vlan 20

# VLAN30 与 VLAN10、VLAN20 互通
# 配置 VLAN 接口
# 配置 VLAN 接口 ACL

# 配置 ACL 规则
acl number 3000
 rule 5 deny ip source 10.3.3.0 0.0.0.255 destination 10.2.2.0 0.0.0.255
 rule 10 deny ip source 10.3.3.0 0.0.0.255 destination 10.2.3.0 0.0.0.255
 rule 20 deny ip source 10.2.2.0 0.0.0.255 destination 10.3.3.0 0.0.0.255
 rule 25 deny ip source 10.2.3.0 0.0.0.255 destination 10.3.3.0 0.0.0.255
 rule 30 permit ip
quit

# 应用 ACL 到 VLAN 接口
interface vlan 30
 packet-filter 3000 inbound
exit

# 保存配置
write
```

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```
show vlan brief
show interface status
show ip interface brief
show ip route
ping 10.2.2.254 vlan 10
ping 10.2.3.254 vlan 20
ping 10.3.3.3 vlan 30
```

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- [] **1**
 - NIC1 → VLAN10 → [] Router1
 - NIC2 → VLAN30 → []
- [] **2**
 - NIC1 → VLAN20 → [] Router2
 - NIC2 → VLAN30 → []
- **VLAN30** [] **VLAN10/20** [] + **ACL** []
[] SSH / Web [] VLAN []
- **VLAN10** [] **VLAN20** [] []

[] [] **VLAN** [] [] []
[] VLAN [] []

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