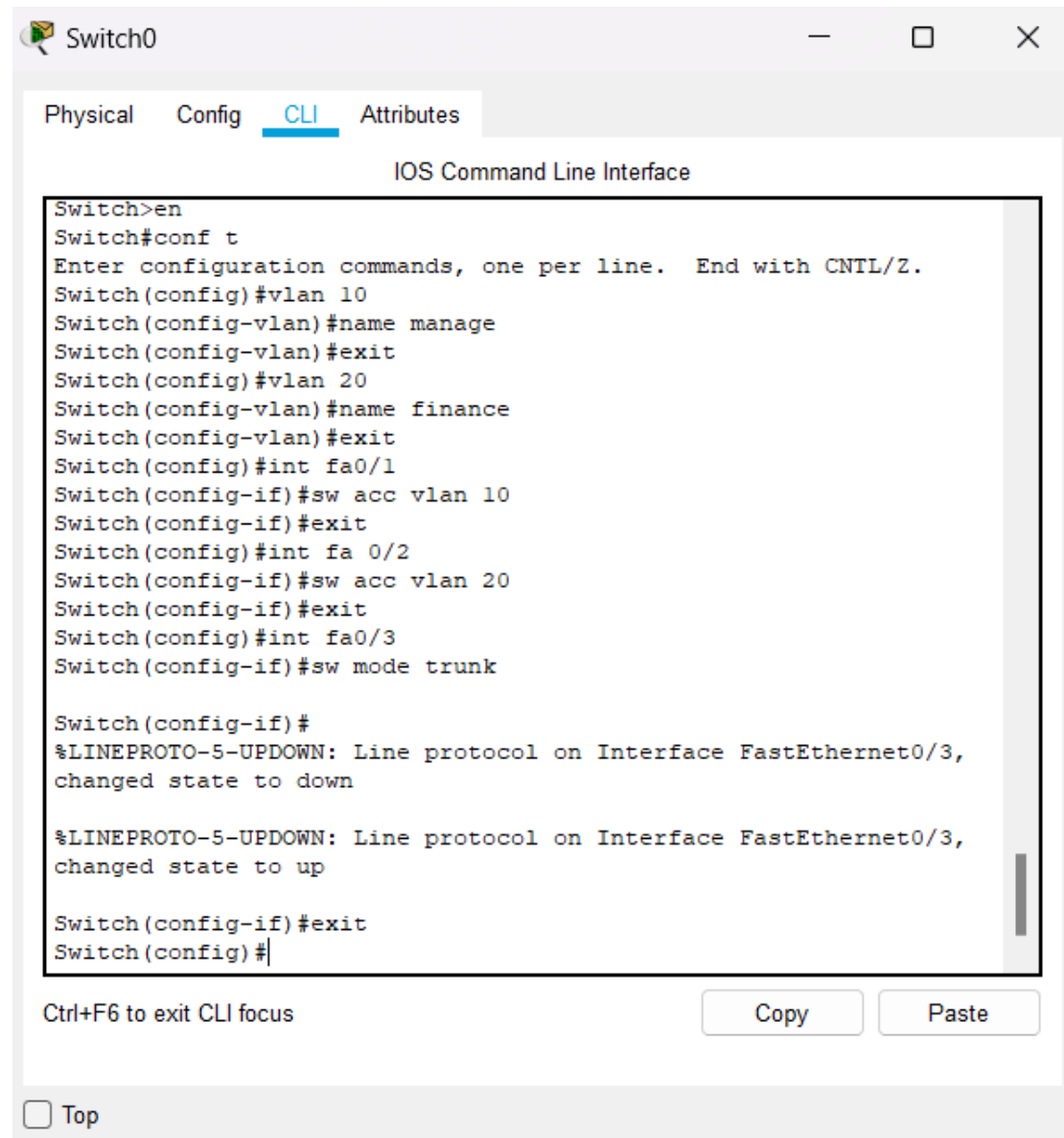
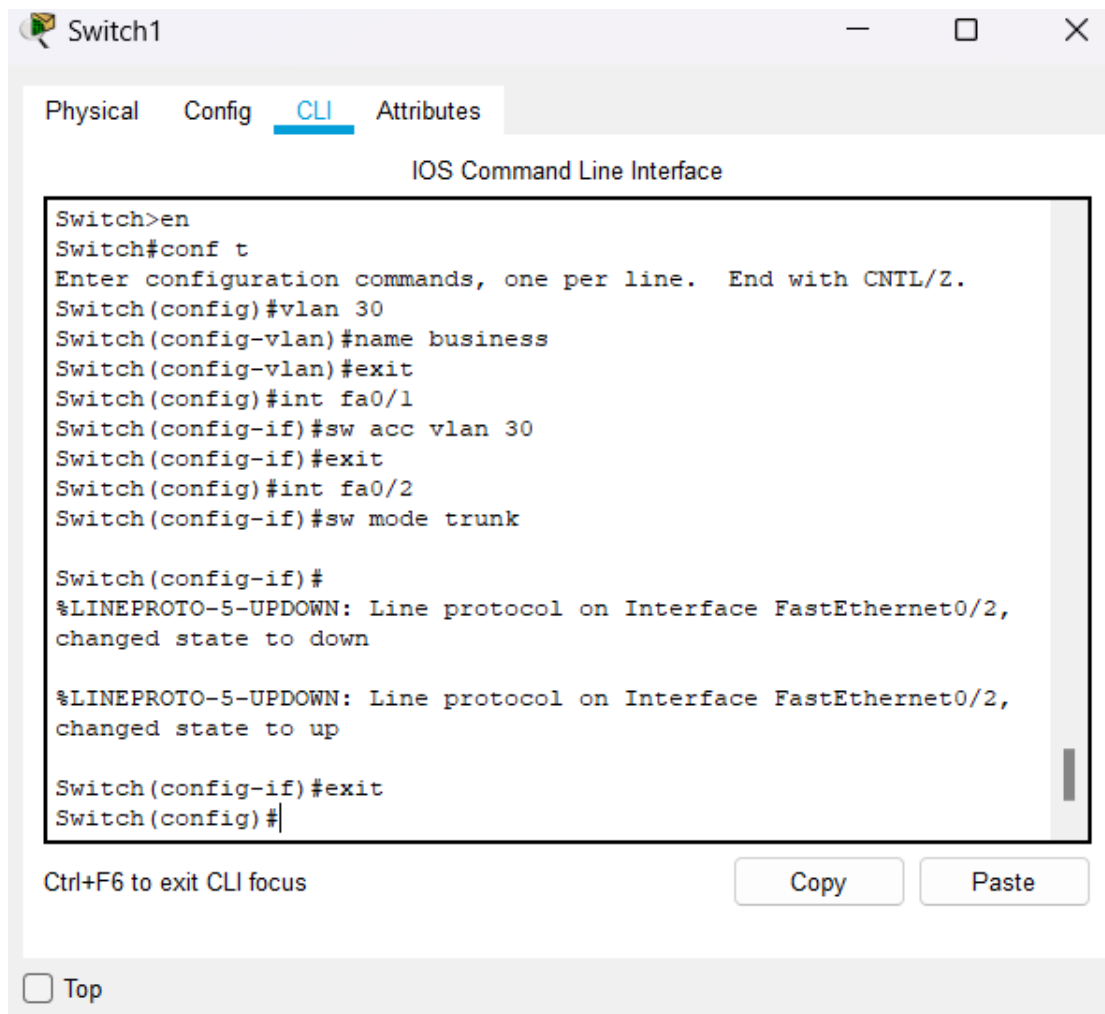


计算机网络第五次实验记录：

1、switch0 的配置

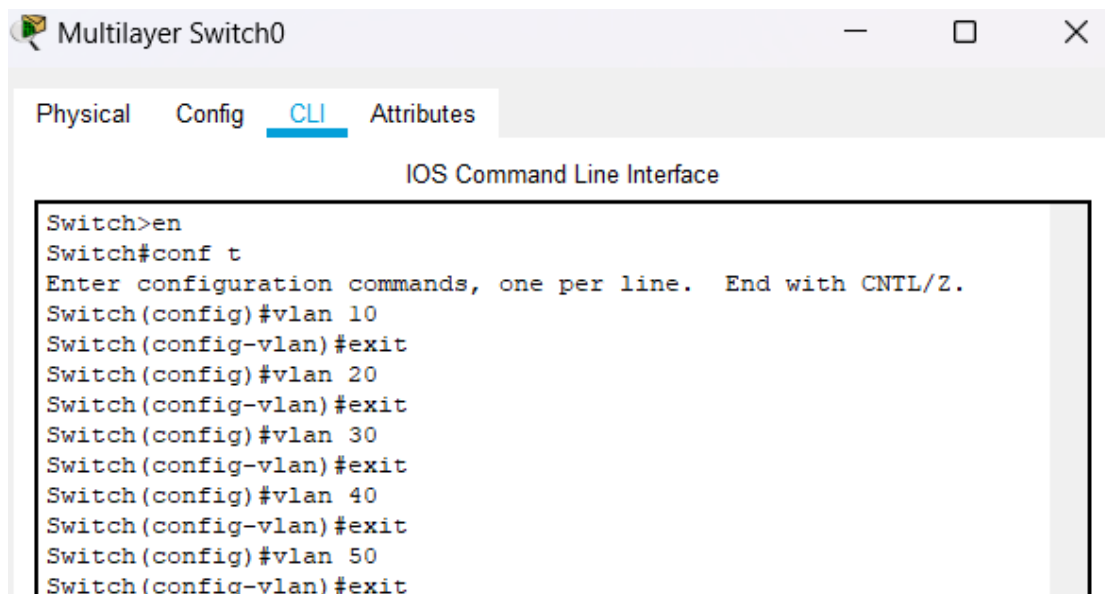


2、switch1 的配置



3、三层交换机/模拟路由器

3.1、添加网段



添加虚拟路由器端口

Multilayer Switch0

PhysicalConfigCLIAttributes

IOS Command Line Interface

Primary	Secondary	Type	Ports

Switch(config)#			
Switch(config)#int vlan 10			
Switch(config-if)#			
%LINK-5-CHANGED: Interface Vlan10, changed state to up			
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan10, changed state to up			
Switch(config-if)#ip add 192.57.1.1 255.255.255.0			
Switch(config-if)#no sh			
Switch(config-if)#exit			
Switch(config)#int vlan 20			
Switch(config-if)#			
%LINK-5-CHANGED: Interface Vlan20, changed state to up			
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan20, changed state to up			
Switch(config-if)#ip add 192.57.2.1 255.255.255.0			
Switch(config-if)#no sh			
Switch(config-if)#exit			
Switch(config)#int vlan 30			
Switch(config-if)#			
%LINK-5-CHANGED: Interface Vlan30, changed state to up			
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan30, changed state to up			
Switch(config-if)#ip add 192.57.3.1 255.255.255.0			
Switch(config-if)#exit			
Switch(config)#int vlan 40			
Switch(config-if)#			
%LINK-5-CHANGED: Interface Vlan40, changed state to up			
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan40, changed state to up			
Switch(config-if)#ip add 192.57.4.0 255.255.255.0			
Bad mask /24 for address 192.57.4.0			
Switch(config-if)#no ip add 192.57.4.0 255.255.255.0			
Switch(config-if)#ip add 192.57.4.1 255.255.255.0			
Switch(config-if)#exit			
Switch(config)#int vlan 50			
Switch(config-if)#			
%LINK-5-CHANGED: Interface Vlan50, changed state to up			
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan50, changed state to up			
Switch(config-if)#ip add 100.10.10.1 255.255.255.0			
Switch(config-if)#exit			
Switch(config)#			

Ctrl+F6 to exit CLI focus

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配置端口

Multilayer Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#do sh ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    100.0.0.0/24 is subnetted, 1 subnets
C       100.10.10.0 is directly connected, Vlan50
C       192.57.1.0/24 is directly connected, Vlan10
C       192.57.2.0/24 is directly connected, Vlan20
C       192.57.3.0/24 is directly connected, Vlan30
C       192.57.4.0/24 is directly connected, Vlan40

Switch(config)#int rang g1/0/1-2
Switch(config-if-range)#sw tr en d
Switch(config-if-range)#sw mode tr
Switch(config-if-range)#exit
Switch(config)#int g 1/0/3
Switch(config-if)#sw acc vlan 40
Switch(config-if)#exit
Switch(config)#int g 1/0/4
Switch(config-if)#sw acc vlan 50
Switch(config-if)#exit
Switch(config)#
```

Ctrl+F6 to exit CLI focus

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路由器:

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CTRL/Z.
Router(config)#int g0/0
Router(config-if)#ip add 100.10.10.4 255.255.255.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#int g0/1
Router(config-if)#ip add 202.120.120.1 255.255.255.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
```

Router0

Physical

Config

CLI

Attributes

IOS Command Line Interface

Router(config)#do sh ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

100.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 100.10.10.0/24 is directly connected, GigabitEthernet0/0

L 100.10.10.4/32 is directly connected, GigabitEthernet0/0

202.120.120.0/24 is variably subnetted, 2 subnets, 2 masks

C 202.120.120.0/24 is directly connected, GigabitEthernet0/1

L 202.120.120.1/32 is directly connected, GigabitEthernet0/1

Router(config)#do sh ip int b

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 100.10.10.4 YES manual up up

GigabitEthernet0/1 202.120.120.1 YES manual up up

Vlan1 unassigned YES NVRAM administratively down down

Router(config)#

Router(config)#

Ctrl+F6 to exit CLI focus

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Top

设置外部端口/内部端口：

