

Switch1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name Admin
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name Finance
Switch(config-vlan)#exit
Switch(config)#vlan 99
Switch(config-vlan)#name HR
Switch(config-vlan)#exit
Switch(config)#int vlan 99
Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan99, changed state to up

Switch(config-if)#ip add 192.168.99.2 255.255.255.0
Switch(config-if)#no shut
Switch(config-if)#exit
Switch(config)#ip default-gateway 192.168.99.1
Switch(config)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#no shut
Switch(config-if)#exit
Switch(config)#int fa0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#no shut
Switch(config-if)#exit
Switch(config)#int fa0/5
Switch(config-if)#switchport mode trunk
Switch(config-if)#no shut
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```

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Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#int g0/0/1.10
^
% Invalid input detected at '^' marker.

Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int g0/0/1.10
Router(config-subif)#description Default Gateway for Admin
Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#ip add 192.168.10.1 255.255.255.0
Router(config-subif)#exit
Router(config)#int g0/0/1.20
Router(config-subif)#description Default Gateway for Finance
Router(config-subif)#ip add 192.168.20.1 255.255.255.0

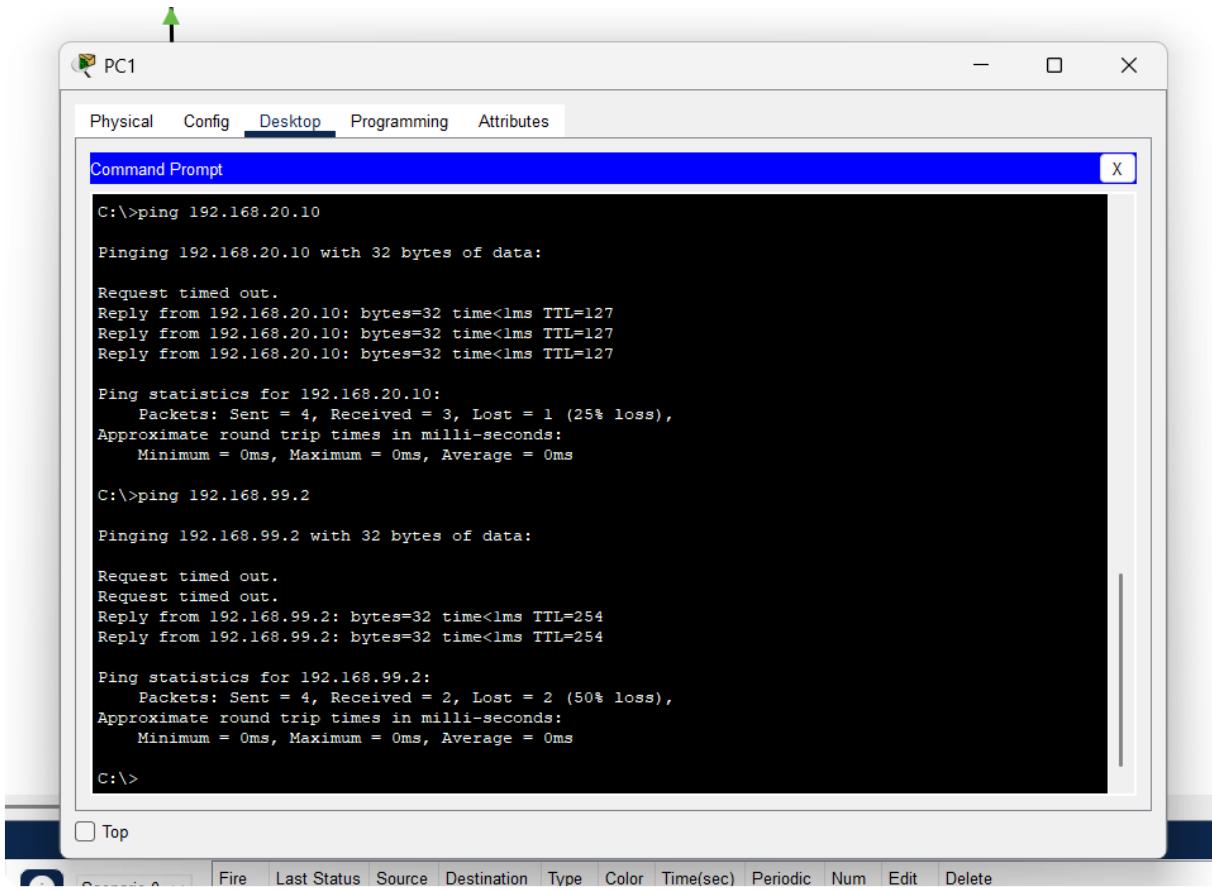
% Configuring IP routing on a LAN subinterface is only allowed if that
subinterface is already configured as part of an IEEE 802.10, IEEE 802.1Q,
or ISL vLAN.

Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip add 192.168.20.1 255.255.255.0
Router(config-subif)#exit
Router(config)#int g0/0/1.99
Router(config-subif)#description Default Gateway for HR
Router(config-subif)#encapsulation dot1Q 99
Router(config-subif)#ip add 192.168.99.1 255.255.255.0
Router(config-subif)#exit
Router(config)#int g0/0/1
Router(config-if)#description Trunk Link to S1
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1.10, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1.20, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1.99, changed state to up
Router(config-if)#exit
Router(config)#[
```

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```
-----  
%SYS-5-CONFIG_I: Configured from console by console  
  
Switch#show interfaces trunk  
Port      Mode       Encapsulation  Status      Native vlan  
Fa0/1     on        802.1q         trunking    1  
Fa0/5     on        802.1q         trunking    1  
  
Port      Vlans allowed on trunk  
Fa0/1     1-1005  
Fa0/5     1-1005  
  
Port      Vlans allowed and active in management domain  
Fa0/1     1,10,20,99  
Fa0/5     1,10,20,99  
  
Port      Vlans in spanning tree forwarding state and not pruned  
Fa0/1     1,10,20,99  
Fa0/5     1,10,20,99  
  
Switch#
```

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