Switchport itch 1, 2, 3:

enable

configure terminal

vlan 2

name VLAN2

exit

vlan 3

name VLAN3

exit

int range f0/1-f0/2

switchport mode acc

switchport acc vlan 2

exit

int range f0/3-0/4

switchport mode acc

switchport acc vlan 3

exit

int f0/5

switchport mode trunk

Switchport itch 4:

enable

conf t

vlan 2

name VLAN2

exit

vlan 3

name VLAN3

exit

int range f0/1-f0/3

switchport mode trunk

R1: Cổng serial là DCE

enable

conf t

int f0/0

no shut

exit

int f0/0.2

encapsulation dot1q 2

ip add 192.168.19.250 255.255.255.0

exit

int f0/0.3

encapsulation dot1q 3

ip add 192.168.20.250 255.255.255.0

exit

int s2/0

no shut

ip add 192.168.30.1 255.255.255.0

clock rate 56000

exit

ip route 192.168.21.0 255.255.255.0 192.168.25.2

ip route 192.168.22.0 255.255.255.0 192.168.25.2

ip route 192.168.23.0 255.255.255.0 192.168.25.3

ip route 192.168.24.0 255.255.255.0 192.168.25.3

access-list 2 deny 192.168.20.0 255.255.255.0

access-list 2 deny 192.168.22.0 255.255.255.0

access-list 2 deny 192.168.23.0 255.255.255.0

access-list 2 permit any

int f0/0.2

ip access-group 2 out

exit

access-list 3 deny 192.168.19.0 255.255.255.0

access-list 3 deny 192.168.21.0 255.255.255.0

access-list 3 deny 192.168.24.0 255.255.255.0

access-list 3 permit any

int f0/0.3

ip access-group 3 out

exit

int f1/0

ip add 192.168.25.1 255.255.255.0

no shut

end

R2: Cổng serial là DTE

enable

conf t

int f0/0

no shut

exit

int f0/0.2

encapsulation dot1q 2

ip add 192.168.21.250 255.255.255.0

exit

int f0/0.3

encapsulation dot1q 3

ip add 192.168.22.250 255.255.255.0

exit

int s2/0

no shut

ip add 192.168.30.2 255.255.255.0

exit

ip route 192.168.19.0 255.255.255.0 192.168.25.1

ip route 192.168.20.0 255.255.255.0 192.168.25.1

ip route 192.168.23.0 255.255.255.0 192.168.25.3

ip route 192.168.24.0 255.255.255.0 192.168.25.3

ip route 192.168.19.0 255.255.255.0 192.168.30.1

ip route 192.168.20.0 255.255.255.0 192.168.30.1

ip route 192.168.23.0 255.255.255.0 192.168.30.1

ip route 192.168.24.0 255.255.255.0 192.168.30.1

access-list 2 deny 192.168.20.0 255.255.255.0

access-list 2 deny 192.168.22.0 255.255.255.0

access-list 2 deny 192.168.23.0 255.255.255.0

access-list 2 permit any

int f0/0.2

ip access-group 2 out

exit

access-list 3 deny 192.168.19.0 255.255.255.0

access-list 3 deny 192.168.21.0 255.255.255.0

access-list 3 deny 192.168.24.0 255.255.255.0

access-list 3 permit any

int f0/0.3

ip access-group 3 out

exit

int f1/0

id add 192.168.25.2 255.255.255.0

no shut

end

R3:

enable

conf t

int f1/0

no shut

exit

int f1/0.2

encapsulation dot1q 2

ip add 192.168.24.250 255.255.255.0

exit

int f1/0.3

encapsulation dot1q 3

ip add 192.168.23.250 255.255.255.0

exit

ip route 192.168.19.0 255.255.255.0 192.168.25.1

ip route 192.168.20.0 255.255.255.0 192.168.25.1

ip route 192.168.21.0 255.255.255.0 192.168.25.2

ip route 192.168.22.0 255.255.255.0 192.168.25.2

access-list 2 deny 192.168.20.0 255.255.255.0

access-list 2 deny 192.168.22.0 255.255.255.0

access-list 2 deny 192.168.23.0 255.255.255.0

access-list 2 permit any

int f1/0.2

ip access-group 2 out

exit

access-list 3 deny 192.168.19.0 255.255.255.0

access-list 3 deny 192.168.21.0 255.255.255.0

access-list 3 deny 192.168.24.0 255.255.255.0

access-list 3 permit any

int f1/0.3

ip access-group 3 out

exit

int f0/0

no shut

ip add 192.168.25.3 255.255.255.0

end