//crea vlan

ena  
conf term  
vlan 10  
name blu  
exit  
vlan 20  
name rosso  
exit  
vlan 30  
name verde  
exit  
do wr

//porte  
interface range fastEthernet 0/1-5  
switchport mode access   
switchport access vlan 10  
exit  
interface range fastEthernet 0/6-10  
switchport mode access   
switchport access vlan 20  
exit  
interface range fastEthernet 0/11-15  
switchport mode access   
switchport access vlan 30  
exit  
interface range fastEthernet 0/16-23  
switchport mode access   
switchport access vlan 1  
exit  
interface fastEthernet 0/24  
switchport mode trunk   
switchport trunk allowed vlan 1,10,20,30  
exit

//access-list  
  
access-list 101 permit icmp 192.168.100.0 0.0.0.255 any  
access-list 101 permit tcp 192.168.100.0 0.0.0.255 any eq 23   
access-list 101 permit tcp 192.168.100.0 0.0.0.255 any eq 80   
access-list 101 permit tcp 192.168.100.0 0.0.0.255 any eq 110  
access-list 101 permit tcp 192.168.100.0 0.0.0.255 any eq 25  
access-list 101 permit udp 192.168.100.0 0.0.0.255 any eq 53

access-list 110 permit icmp 192.168.10.0 0.0.0.255 192.168.100.0 0.0.0.255  
access-list 110 permit tcp 192.168.10.0 0.0.0.255 192.168.30.0 0.0.0.255 eq 80

access-list 110 permit udp 192.168.10.0 0.0.0.255 192.168.30.0 0.0.0.255 eq 53

access-list 120 permit icmp 192.168.20.0 0.0.0.255 192.168.100.0 0.0.0.255  
access-list 120 permit icmp 192.168.20.0 0.0.0.255 192.168.30.0 0.0.0.255  
access-list 120 permit tcp 192.168.20.0 0.0.0.255 any eq 80  
access-list 120 permit udp 192.168.100.0 0.0.0.255 any eq 53

access-list 130 permit icmp 192.168.30.0 0.0.0.255 192.168.100.0 0.0.0.255  
access-list 130 permit icmp 192.168.30.0 0.0.0.255 192.168.20.0 0.0.0.255  
access-list 130 permit tcp 192.168.30.0 0.0.0.255 192.168.10.0 0.0.0.255 eq 80  
access-list 130 permit udp 192.168.30.0 0.0.0.255 192.168.10.0 0.0.0.255 eq 53

//inserire access list nelle vlan SWL3

interface vlan 1  
ip access-group 101 in   
ip address 192.168.100.254 255.255.255.0  
no sh  
exit

interface vlan 10  
ip access-group 110 in

ip address 192.168.10.254 255.255.255.0  
exit

interface vlan 20  
ip access-group 120 in

ip address 192.168.20.254 255.255.255.0  
exit

interface vlan 30  
ip access-group 130 in

ip address 192.168.30.254 255.255.255.0  
exit

ip routing

interface gigabitEthernet 0/1

no switchport

ip ad

ip address 192.168.0.1 255.255.255.0

no sh   
exit  
  
  
access-list 110 permit icmp 192.168.10.0 0.0.0.255 192.168.100.0 0.0.0.255

access-list 110 permit tcp 192.168.10.0 0.0.0.255 any eq www

access-list 110 permit udp 192.168.10.0 0.0.0.255 any eq domain

//tftp sw

ena

copy run

copy running-config tftp

Address or name of remote host []? 192.168.100.200

Destination filename [SW11-confg]? SW11

Writing running-config....!!

[OK - 2055 bytes]

2055 bytes copied in 3.004 secs (684 bytes/sec)