

Layer 3 Switch Configuration

Commands (Table Format)

VLAN Configuration

Command
vlan 10
name Sales
exit
vlan 20
name Marketing
exit

Assign Ports to VLANs

Command
interface GigabitEthernet0/1
switchport mode access
switchport access vlan 10
exit
interface GigabitEthernet0/2
switchport mode access
switchport access vlan 20
exit

Enable IP Routing & SVIs

Command
ip routing
interface vlan 10
ip address 192.168.10.1 255.255.255.0
no shutdown
exit
interface vlan 20
ip address 192.168.20.1 255.255.255.0
no shutdown
exit

Access Control List (ACL)

Command
access-list 100 permit ip 192.168.10.0 0.0.0.255 any
access-list 100 deny ip any any
interface vlan 10

ip access-group 100 in
exit

Port Security

Command
interface GigabitEthernet0/1
switchport mode access
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address 00AA.BBCC.DDEE
switchport port-security violation restrict
end

802.1X Authentication

Command
dot1x system-auth-control
interface GigabitEthernet0/1
switchport mode access
authentication port-control auto
dot1x pae authenticator
end

DHCP Snooping

Command
ip dhcp snooping
ip dhcp snooping vlan 10,20
interface GigabitEthernet0/1
ip dhcp snooping trust
end

Dynamic ARP Inspection

Command
ip arp inspection vlan 10,20
interface GigabitEthernet0/1
ip arp inspection trust
end

Syslog Logging

Command
logging 192.168.1.100
logging trap warnings

SNMP Configuration

Command
snmp-server community public RO
snmp-server community private RW
snmp-server host 192.168.1.101 traps version 2c public