Switch Configuration

**Console into the switch and enable privileged EXEC mode.**

Switch>enable

Switch#

**Assign a device name to the switch.**

Switch# config t

Switch (config)# hostname (name)

(name)(config)# exit

**Disable DNS lookup.**

Switch(config)# no dns lookup

**Assign a privileged EXEC encrypted password.**

Switch(config)#enable password (password)

Switch(config)#exit

**Assign a console password and enable login.**

Switch(config)# line console 0

Switch(config-line)# password (password)

Switch(config-line)# login

Switch(config-line)#exit

Switch(config)#exit

**Assign a VTY password and enable login.**

Switch(config)# Line vty 0 4 or 0 15

Switch(config-line)# password (password)

**Configure an encrypted password to secure access to privileged mode**

Switch(config)#enable secret (password)

Switch(config)#exit

**Encrypt the plaintext passwords.**

Switch(config)#service password-encryption

Switch(config)#exit

**Create a banner that warns anyone accessing the device that unauthorized access is prohibited.**

Switch(config)#banner modt #

**Copy the running configuration to the startup configuration.**

Switch# copy run start

**Show NVRAM**

Switch#show flash

Switch#dir flash:

**Show vlan information.**

Switch#show vlan (brief)

Switch#show int vlan1

Switch#show ip int vlan1

**Configure VLAN 1.**

Switch(config)#int VLAN1

Switch(config-if)#description 'this is the description'

Switch(config-if)#ip address 192.168.1.2 255.255.255.0

Switch(config-if)#no shutdown

Switch(config-if)#exit

**Configure IPv6**

Switch(config)#enable ipv6

Switch(config)#interface range f0/2-5

Switch(config)#switchport mode access

Switch(config)#switchport access vlan 99

Switch(config)#interface f0/1

Switch(config-if)#switchport mode trunk

Switch(config-if)#switchport trunk native vlan 1000

Switch(config-if)#switchport trunk allowed vlan 10, 20, 30, 1000

**Configure IPv6**

Switch(config)#enable ipv6

Switch(config)#ipv6 address 2001:db8:acdc::2/64

Switch(config)#ipv6 address fe80::1 link-local

Switch(config)#no shutdown

**Configure default gateway.**

Switch(config)#ip default-gateway 192.168.1.1

**Prevent console messages from interrupting commands**

Switch(config)#line con 0

Switch(config-line)#logging synchronous

**Mac address information**

Switch#show mac address-table

Switch#show mac address-table dynamic

Switch#show mac address-table static

Switch#show mac address-table address xxxx.xxxx.xxxx

**Mac address configuration**

Switch# clear mac address-table dynamic

Switch(config)# mac address-table static 0050.56BE.6C89 vlan 99 interface fastethernet 0/6

**Assign all users to a vlan**

Switch(config)#interface range f0/1-24,g01-2

Switch(config)#switchport access vlan 99

**Initialize and Reload**

Switch#show flash

Switch#delete vlan.dat

Switch#erase startup-config

Switch#reload

**Disable DTP negotiation**

Switch(config)# interface g0/2

Switch(config-if)# switchport mode trunk

Switch(config-if)# switchport nonegotiate