

# Switches

## CCNA Exploration 3 Configuration Review



# Preparing the switch

- Switch#delete flash:vlan.dat
- Switch#delete flash:config.text
- Switch#erase startup-config
- Switch#**config term**
- Switch(config)#**interface range fa0/1-24**
- Switch(config-if-range)#**shutdown**
- Switch(config-if-range)#**interface range gi0/1-2**
- Switch(config-if-range)#**shutdown**



# Layer 3 address to a switch

- S1(config)#**vlan 99**
- S1(config-vlan)#**exit**
- S1(config)#**interface vlan99**
- S1(config-if)#**ip address 172.17.99.11  
255.255.255.0**
- S1(config-if)#**no shutdown**
- S1(config-if)#**exit**
- S1(config)#



## Assign ports to VLAN 99

- S1(config)#**interface range fa0/1 - 24**
- S1(config-if-range)#**switchport access vlan 99**
- S1(config-if-range)#**exit**
- S1(config)#
- %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down
- %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan99, changed state to up



# Set the default gateway

- S1(config)#**ip default-gateway 172.17.99.1**
- S1(config)#**exit**



# Configure the port speed and duplex settings for a FastEthernet interface.

- **S1#configure terminal**
- **S1(config)#interface fastethernet 0/18**
- **S1(config-if)#speed 100**
- **S1(config-if)#duplex full**
- **S1(config-if)#end**



# Configure port security

- S1# **configure terminal**
- S1(config)#**interface fastethernet 0/18**
- S1(config-if)#**switchport mode access**
- S1(config-if)#**switchport port-security**
- S1(config-if)#**switchport port-security maximum 2**
- S1(config-if)#**switchport port-security mac-address sticky**
- S1(config-if)#**switchport port-security violation protect**
- S1(config-if)#**end**



# Create VLANs on switch

- S1(config)#**vlan 10**
- S1(config-vlan)#**name faculty/staff**
- S1(config-vlan)#**vlan 20**
- S1(config-vlan)#**name students**
- S1(config-vlan)#**vlan 30**
- S1(config-vlan)#**name guest**
- S1(config-vlan)#**vlan 99**
- S1(config-vlan)#**name management**
- S1(config-vlan)#**end**
- S1#





# Assign switch ports to VLANs

- S1(config)#**interface range fa0/6-10**
- S1(config-if-range)#**switchport access vlan 30**
- S1(config-if-range)#**interface range fa0/11-17**
- S1(config-if-range)#**switchport access vlan 10**
- S1(config-if-range)#**interface range fa0/18-24**
- S1(config-if-range)#**switchport access vlan 20**



# Assign the management VLAN.

- S1(config)#**interface vlan 99**
- S1(config-if)#**ip address 172.17.99.11  
255.255.255.0**
- S1(config-if)#**no shutdown**



# Configure trunking and the native VLAN for the trunking port

- S1(config)#**interface range fa0/1-5**
- S1(config-if-range)#**switchport mode trunk**
- S1(config-if-range)#**switchport trunk native vlan 99**
- S1(config-if-range)#**no shutdown**
- S1(config-if-range)#**end**

