

# Cisco Switch Cheatsheet

## Basic Configuration

- > enable //enter privileged exec mode
- # configure terminal //enter global configuration mode
- (config)# hostname *hostname* //enter a hostname for the switch
- (config)# no ip domain-lookup //disable dns lookup
- (config)# enable secret *class* //set privileged EXEC password to class
- (config)# line console 0 //the port we connect to the console
- (config-line)# password *cisco* //set user mode password to cisco
- (config-line)# login
- (config-line)# exit
- (config)#end
- (config)# line vty 0 15 // setup virtual(ssh, telnet) connections (up to 16)
- (config-line)# password *cisco* // set virtual connection passwords to cisco
- (config-line)# login
- (config-line)# exit
- (config)# service password-encryption //encrypt the passwords for line console and virtual connections
- (config)# banner motd # //set up banner (message of the day)  
enter text message ending with # as the banner
- # copy running-config startup config //save the configuration file as the startup configuration file
- # show running-config //display the running configuration file

## VLAN

- (config)# vlan *vlanid* //create vlan
- #show vlan //show vlan information
- #show vlan brief //show vlan information briefly
- (config)# interface *interfacename* //enter to selected interface
- (config-if)# switchport mode access
- (config-if)# switchport access vlan *vlanid* //assign port to a vlan
- (config-if)# no switchport access vlan //remove port from vlan
- (config)#no vlan *vlanid* //remove vlan
- (config-if)#switchport mode trunk //create trunk
- (config-if)#switchport trunk native vlan 99 //assign native vlan to vlan 99 for untagged traffic
- (config-if)# switchport trunk allowed vlan 10,20,30 //allow traffic from vlans 10,20 and 30 pass through the trunk
- (config-if)# no switchport trunk native vlan 99 //delete the native vlan
- (config-if)# no switchport trunk allowed vlan //reset the trunk to its default state
- # show interfaces trunk //shows all configured trunks
- (config-if)# switchport nonegotiate //turn off dtp

- (config-if)# switchport mode dynamic auto //can form trunks but doesn't try to
- (config-if)# switchport mode dynamic desirable //Out of box cisco switch state will actively try to form trunks

## **Multi-layer Switches**

- (config-if)# no switchport //turning the port into a layer three port.
- (config-if)# switchport trunk encapsulation dot1q //specify the encapsulation as dot1q
- (config)#ip routing //turn on ip routing on switch