# Reset a switch

### **Step 1.**

Connect up your console cable and power on the switch, whilst holding down the “mode” button:



 This interrupts the boot process before the Flash file system can initialize, and after a short while (continue holding the “mode” button) you will see the following prompt:

Using driver version 1 for media type 1Base ethernet MAC Address: 4c:30:2d:81:ef:80Xmodem file system is available.The password-recovery mechanism is enabled.The system has been interrupted prior to initializing theflash filesystem. The following commands will initializethe flash filesystem, and finish loading the operatingsystem software:flash\_init bootswitch:

### **Step 2.**

Initialize the flash file system with the command**: flash\_init**

“switch: flash\_init”

Initializing Flash...mifs[2]: 10 files, 1 directoriesmifs[2]: Total bytes : 1806336mifs[2]: Bytes used : 612352mifs[2]: Bytes available : 1193984mifs[2]: mifs fsck took 1 seconds.mifs[3]: 0 files, 1 directoriesmifs[3]: Total bytes : 3870720mifs[3]: Bytes used : 1024mifs[3]: Bytes available : 3869696mifs[3]: mifs fsck took 0 seconds.mifs[4]: 5 files, 1 directoriesmifs[4]: Total bytes : 258048mifs[4]: Bytes used : 9216mifs[4]: Bytes available : 248832mifs[4]: mifs fsck took 0 seconds.mifs[5]: 5 files, 1 directoriesmifs[5]: Total bytes : 258048mifs[5]: Bytes used : 9216mifs[5]: Bytes available : 248832mifs[5]: mifs fsck took 1 seconds. -- MORE --mifs[6]: 566 files, 19 directoriesmifs[6]: Total bytes : 57931776mifs[6]: Bytes used : 28429312mifs[6]: Bytes available : 29502464mifs[6]: mifs fsck took 21 seconds....done Initializing Flash.

### **Step 3.**

Delete the **config.text** file from the flash directory:

“switch: del flash:config.text”

Are you sure you want to delete "flash:config.text" (y/n)?yFile "flash:config.text" deleted

### **Step 4.**

Delete the **vlan.dat** file from the flash directory:

“switch: del flash:vlan.dat”

Are you sure you want to delete "vlan.dat" (y/n)?yFile "flash:vlan.dat" deleted

### **Step 5.**

Reboot the switch and you’re done:

“switch: boot”

Loading "flash:c2960s-universalk9-mz.122-58.SE2.bin"...--- System Configuration Dialog ---Enable secret warning----------------------------------In order to access the device manager, an enable secret is requiredIf you enter the initial configuration dialog, you will be prompted for the enable secretIf you choose not to enter the intial configuration dialog, or if you exit setup without setting the enable secret,please set an enable secret using the following CLI in configuration mode-enable secret 0 <cleartext password>----------------------------------Would you like to enter the initial configuration dialog? [yes/no]:% Please answer 'yes' or 'no'.

# Cisco Console

1. Connect using PuTTY on your Com port.
2. If it is the initial setup say N**o** to the initial configuration dialog
3. You should see “Switch>”
4. Type “en” this is short for enable
5. You should see “Switch#”
6. Check the initial run configuration by typing “sh running-config" or type “sh run” and hit the Tab key to auto complete “sh” is short for “show”
7. Press space to keep going through the information

# Global Configuration

1. Type “configure t” or “conf” and press Tab to auto complete
2. Type “hostname” to change the name of the switch e.g. “WBLSwitch2”
3. You should now see your switches names instead of “Switch#”

# Set up VLAN

1. Type “int vlan 1”
2. Type “ip address 192.0.0.0” the followed by the subnet mask change the IP to what IP you want the switch to be on and make sure you have the right sub net. It should look something like this “ip address 192.168.0.0 255.255.255.0”

# Set up Default Gateway

1. At global level configuration
2. “ip default-gateway 192.168.1.1

# Set up Telnet/SSH

1. “line vty 0 15”
2. “password BPR”

# Set password to allow privileged access

1. Make sure you’re in the (config) level
2. Type “enable secret ?” This will show the commands available for the password
3. We will use “0”
4. “enable secret 0 BPR”
5. Type “service password-encryption"
6. “end”

# Saving the configuration

1. “copy running-config startup-config"
2. Press enter afterwards
3. It should be saved
4. Reboot the switch to make all settings ‘stick’

# Useful commands

* “?” Show what commands are available
* “exit” to go back to standard “config”
* Int range g0/1 - 48

**Chanel groups.**

WBLSwitch3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

WBLSwitch3(config)#int

WBLSwitch3(config)#interface ran

WBLSwitch3(config)#interface range FAS

WBLSwitch3(config)#interface range FAStEthernet 0/43 - 45

WBLSwitch3(config-if-range)#cha

WBLSwitch3(config-if-range)#channel-group

WBLSwitch3(config-if-range)#channel-group 1

WBLSwitch3(config-if-range)#channel-group 1 mod

WBLSwitch3(config-if-range)#channel-group 1 mode ac

WBLSwitch3(config-if-range)#channel-group 1 mode active

Creating a port-channel interface Port-channel 1

WBLSwitch3(config-if-range)#chan

WBLSwitch3(config-if-range)#channel-prot

WBLSwitch3(config-if-range)#channel-protocol lacp

WBLSwitch3(config-if-range)#channel-protocol lacp

WBLSwitch3(config-if-range)#exit

WBLSwitch3(config)#exit

WBLSwitch3#sh ru

WBLSwitch3#sh running-config

Building configuration...

**Trunk**

WBLSwitch3(config)#int

WBLSwitch3(config)#interface ra

WBLSwitch3(config)#interface range fa0

WBLSwitch3(config)#interface range fa0/43 - 45

WBLSwitch3(config-if-range)#swit

WBLSwitch3(config-if-range)#switchport mode

WBLSwitch3(config-if-range)#switchport mode trunk

WBLSwitch3(config-if-range)#exit

WBLSwitch3(config)#exit

WBLSwitch3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

WBLSwitch3(config)#switch

WBLSwitch3(config)#switchpo

WBLSwitch3(config)#switchport

WBLSwitch3(config)#switchport mo

WBLSwitch3(config)#interface range fa0/43 - 45

WBLSwitch3(config-if-range)#switch

WBLSwitch3(config-if-range)#switchport mod

WBLSwitch3(config-if-range)#switchport mode dy

WBLSwitch3(config-if-range)#switchport mode dynamic ?

 auto Set trunking mode dynamic negotiation parameter to AUTO

 desirable Set trunking mode dynamic negotiation parameter to DESIRABLE

WBLSwitch3(config-if-range)#switchport mode dynamic desirable

**Change turnk mode!**

(config-if)#switchport trunk encapsulation ?

**Reset certain ports**

WBLSwitch3(config)#default interface range fastEthernet 0/43 - 45