

- ✓ Enter Express Setup Mode
 - Press MODE button 3 secs, ALL LED lights turn green
 - If blinking, reset the switch by pressing more than 7 secs
 - Default IP 10.0.0.1 serve as an DHCP server. Assigning 10.0.0.2 for your machine. Telnet the switch by telnet 10.0.0.1 or <http://10.0.0.1>, default account and pwd are (cisco, cisco).
- ✓ Basic setting

ref: <https://dotblogs.com.tw/box5068/2011/01/19/20893>

 - enable => Privileged Mode
 - conf t => Configuration Global Mode
 - (config)# hostname HOST-test => change hostname to HOST-test
 - (config)# enable secret ENABLE_PASSWORD => 特權模式加密式密碼設定
 - (config)# interface vlan 1 => Interface Mode
 - (config-if)# ip address X.X.X.X 255.255.255.0 => Set the IP of the Interface
- ✓ Set up ssh

http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960x/software/15-0_2_EX/security/configuration_guide/b_sec_152ex_2960-x_cg/b_sec_152ex_2960-x_cg_chapter_01001.html

Local or remote access

 - (config)# ip domain-name *example.com* => Set the host domain for switch
 - (config)# crypto key generate rsa [general-keys modulus 1024(for option)]

Switch as an SSH server

 - (config)# ip ssh version [1 | 2] => optional, default selects the latest SSH version supported by the SSH client.
 - ◆ (config)# line vty *line_number* [*ending_line_number*] => line configuration mode to configure the virtual terminal line settings, range is 0~15
 - ◆ (config)# transport input ssh
 - login local => 用 local 端的帳密檢查 authentication

Check local account and pwd during authentication

 - aaa new-model
 - aaa authentication login default local

See the configuration

 - sh ru

line console 是用 console 線插入登入的模式, line vty 是 telnet/ssh

✓ Close unused web interface

- no ip http server
- no ip http secure-server

✓ Switch get IP from dhcp

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_dhcp/configuration/12-4t/dhcp-12-4t-book/config-dhcp-client.html

- (config)# interface Gi 0/20
- (config-if)# ip address dhcp => acquires IP on an interface from DHCP
- show dhcp lease => check switch current IP

✓ Bpdu guard setting

cisco 預設 spanning tree protocol(stp)是打開的，為了防止破壞原有 stp 架構，你插上孔要跑 stp 時，bpdu guard 會發現，接著導致自己的孔變 blocked，所以須要把它關掉，讓它變成一般的 switch

- spanning-tree bpduguard enable
- spanning-tree bpduguard disable
- bpduguard => Don't send or receive BPDUs on this interface
- bpduguard => Don't accept BPDUs on this interface

因為弄 console 線很麻煩，又怕 ssh 設壞連不進去無法登入，通常會在某一個 port 設置特殊的 vlan (ex.101)，讓他在那個 vlan 上有 static ip，接著只要電腦設定好同一個 subnet，插上指定的 port，便可以直接碰到 switch