**STEP1: Connect to the device via console**

Use a terminal emulation software such as PuTTY and connect to the console of the switch. You will get the initial command prompt “**Switch>**”

Type “**enable**” and hit enter. You will get into privileged EXEC mode (“**Switch#**”)

Now, get into Global Configuration Mode:

**Switch# configure terminal**  
**Switch(config)#**

Note: The switch will not ask you for a password when entering into Privileged EXEC mode (i.e after typing “enable”) if it has the default factory configuration. See Step 3 below about setting up a password for the Privileged EXEC mode.

**STEP2: Set up a hostname for the particular switch to distinguish it in the network**

**Switch(config)# hostname ILA-WH2960**  
**ILA-WH2960(config)#**

**STEP3: Configure an administration password (enable secret password)**

**ILA-WH2960(config)# enable secret *cisco1***

The password above will be used to enter into Privileged EXEC mode as described in Step 1 above.

**STEP4: Configure a password for Telnet and Console access**

It is a very good security practice to lock-down all access lines of a switch with a password. Although it is much better to [configure an external AAA server](https://www.networkstraining.com/cisco-router-switch-security-configuration-guide/) (for centralized Authentication Authorization and Accounting), in this article we will just configure a password on each access line (VTY lines for Telnet and Console line):

**ILA-WH2960(config)# line vty 0 15**  
**ILA-WH2960(config-line)# username admin password *cisco1 OR* password *cisco1***

**ILA-WH2960(config-line)# service password-encryption**  
**ILA-WH2960(config-line)# login**  
**ILA-WH2960(config-line)# exit**  
**ILA-WH2960(config)#**

**ILA-WH2960(config)# line console 0**  
**ILA-WH2960(config-line)# password *cisco1***  
**ILA-WH2960(config-line)# login**  
**ILA-WH2960(config-line)# exit**  
**ILA-WH2960(config)#**

**ILA-WH2960(config)# line vty 0 4**  
**ILA-WH2960(config-line)# password *cisco1***  
**ILA-WH2960(config-line)# login**  
**ILA-WH2960(config-line)# end**  
**ILA-WH2960(config)#**

**STEP5: Remove DHCP IP Address**

!Management IP is assigned to Vlan 1 by default  
**ILA-WH2960(config)# interface vlan 1**

**ILA-WH2960(config)# no ip address dhcp**  
**ILA-WH2960(config)# shutdown**  
**ILA-WH2960(config-if)# exit**

**STEP6: create the VLANs on the switch**

First create the Layer2 VLANs on the switch

**ILA-WH2960(config)# vlan 711**  
**ILA-WH2960(config-vlan)# name VLAN711**  
**ILA-WH2960(config-vlan)# exit**

! Now assign the physical ports to each VLAN. Ports 1-12 are assigned to VLAN711 and ports 3-4 to VLAN3

**ILA-WH2960(config)# interface range gi 1/0/1-48**  
**ILA-WH2960(config-if-range) # switchport mode access**  
**ILA-WH2960(config-if-range) # switchport access vlan 711**  
**ILA-WH2960(config-if-range) # exit**

**ILA-WH2960(config)# interface vlan 711**

**ILA-WH2960(config-if)# ip address 10.11.1.215 255.255.255.0**  
**ILA-WH2960(config-if)# no shutdown**

**ILA-WH2960(config-if)# exit**  
**ILA-WH2960(config)#**

**STEP7: Assign default gateway to the switch**

**ILA-WH2960(config)# ip default-gateway 10.11.1.254**

**STEP8: Disable unneeded ports on the switch**

! This step is optional but enhances security  
! Assume that we have a 48-port switch and we don’t need ports 25 to 48

**ILA-WH2960(config)# interface range fe 0/25-48**  
**ILA-WH2960(config-if-range)# shutdown**  
**ILA-WH2960(config-if-range)# exit**  
**ILA-WH2960(config)#**

**STEP9: Save the configuration**

**ILA-WH2960(config)# exit**  
**ILA-WH2960# wr**

**Some Useful “Show” Commands**

After configuring the basic steps above, let’s see some useful commands to monitor your configuration or troubleshoot possible problems:

**ILA-WH2960# show run**(Displays the current running configuration)  
**ILA-WH2960# show interfaces**(Displays the configuration of all interfaces and the status of each one)  
**ILA-WH2960# show vlan**(Displays all vlan numbers, names, ports associated with each vlan etc)  
**ILA-WH2960# show interface status**(Displays status of interfaces, speed, duplex etc)  
**ILA-WH2960# show mac address-table**(Displays current MAC address table and which MAC address is learned on each interface)

How to find which device is connected to the switch port using mac address?

sw# show mac address-table **| include Gi1/0/1**

<https://community.cisco.com/t5/switching/how-to-find-which-device-is-connected-to-the-switch-port-using/td-p/4043261>