



## How to interconnect GSW-2495 & GSW-2472 and setup 802.1Q Tag Based VLAN ?

This tutorial is to configure GSW-2495 as Core switch and interconnects with several Edge switches using 802.1q tagged based VLAN. In this example, we use GSW-2472 as Edge switch.

### Application :

You have offices on multiple floors in a building. Each floor already has an Edge switch connects to a Core switch in the Server room. Now you plan to setup for example Surveillance system in each floor and using existing network connection. The surveillance network will be isolated from the current computer network.

### Topology Explanation :

Port 1 of each Edge Switch GSW-2472 will be used for Uplink port

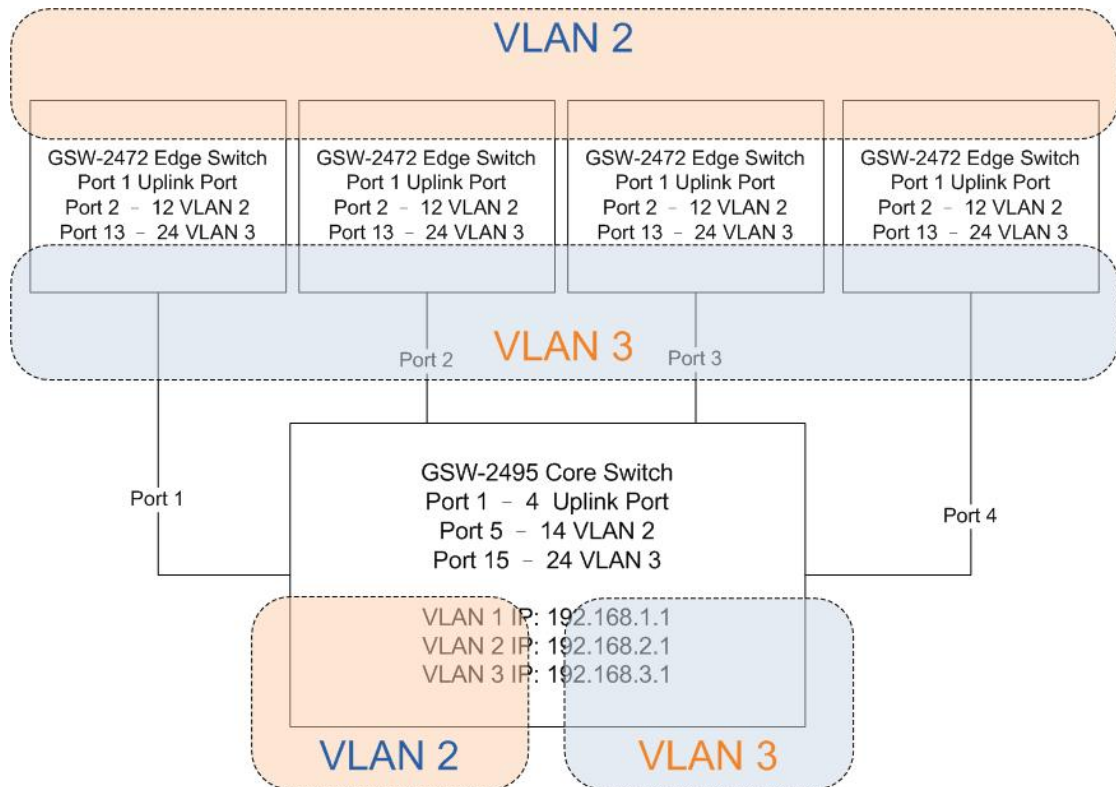
Port 2 – 12 of each Edge Switch GSW-2472 will be used for VLAN 2 Computer network

Port 13 – 24 of each Edge Switch GSW-2472 will be used for VLAN 3 Surveillance network

GSW-2495 port 1 – 4 is uplink port

Port 5 – 14 is VLAN 2 is Computer network

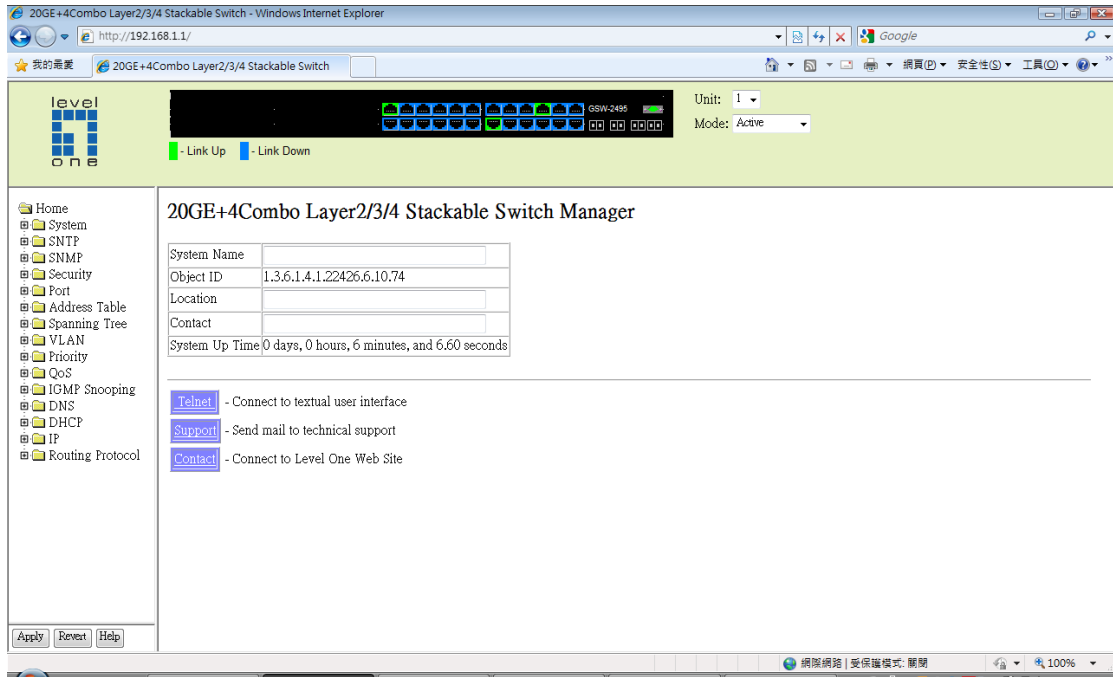
Port 15 – 24 is VLAN 3 is Surveillance network



## Configuration Procedure

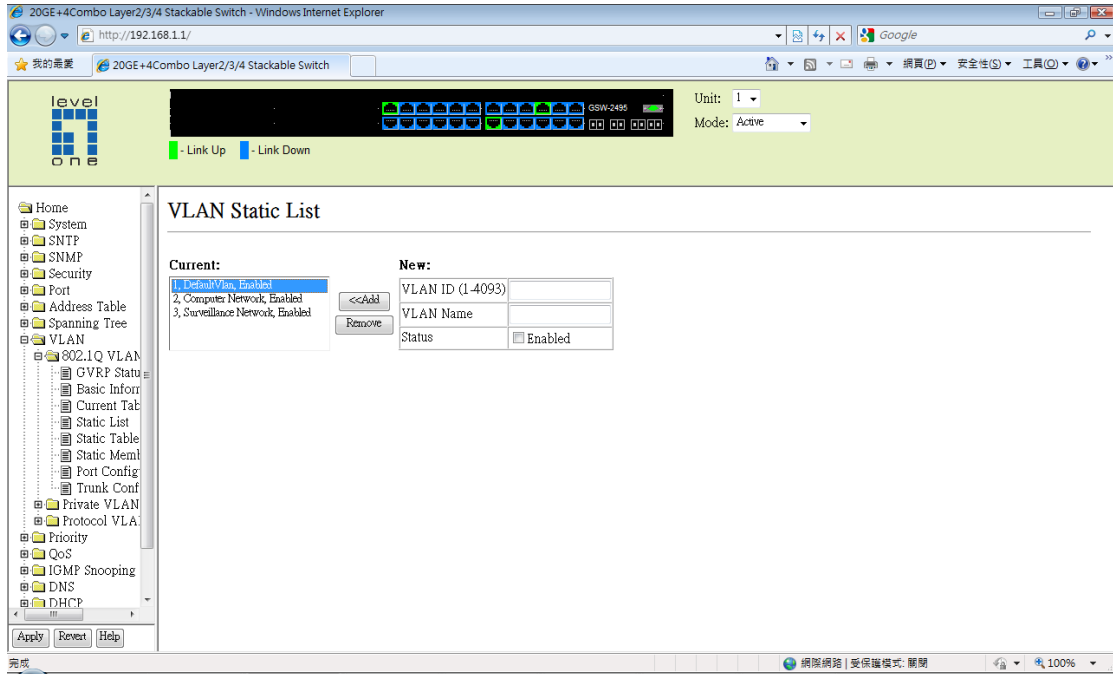
### GSW-2495 Core switch

1. Login to GSW-2495 web user interface.



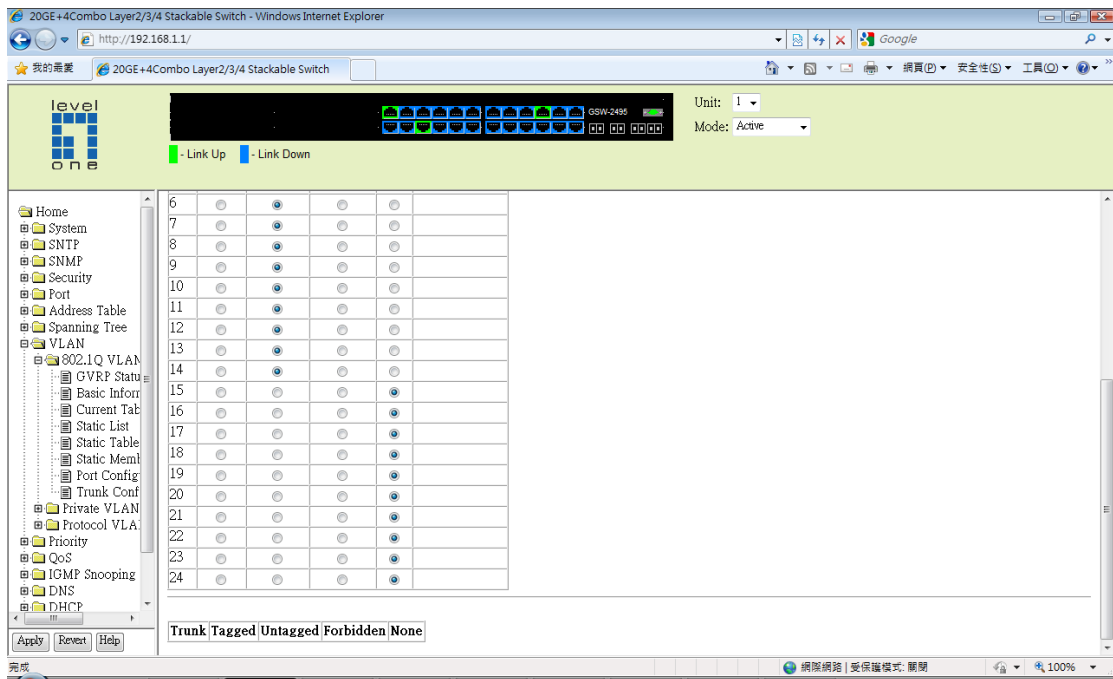
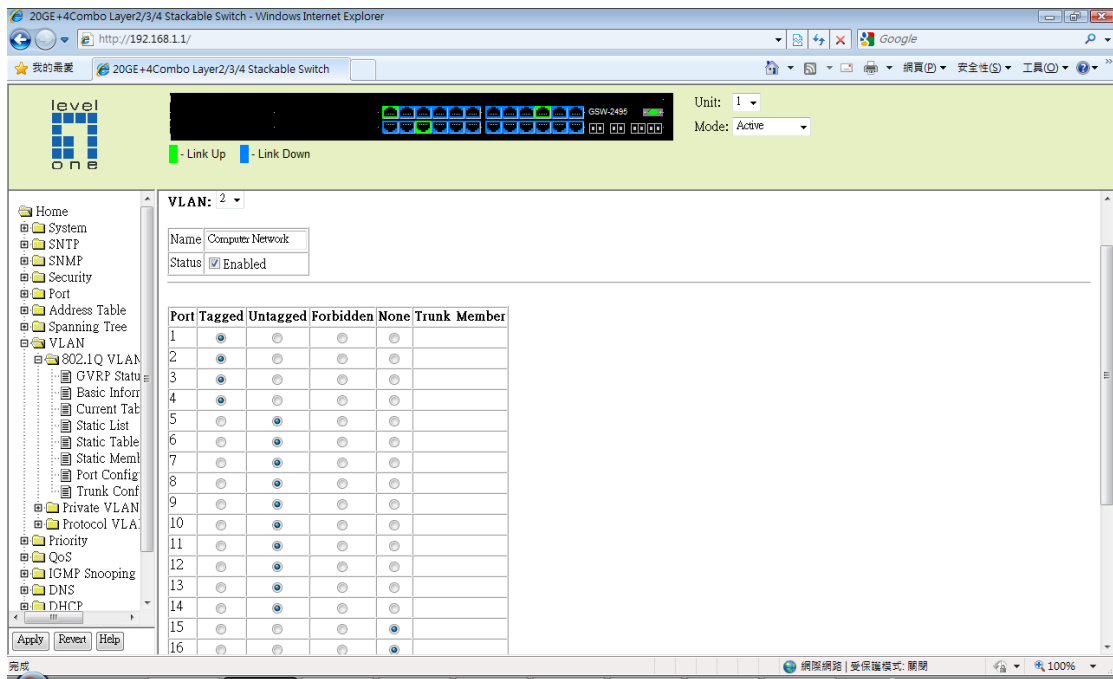
## 2. VLAN – 802.1Q VLAN – Static list

Create 2 VLANs, VLAN ID 2 & 3, you can assign the VLAN name, tick on enable.

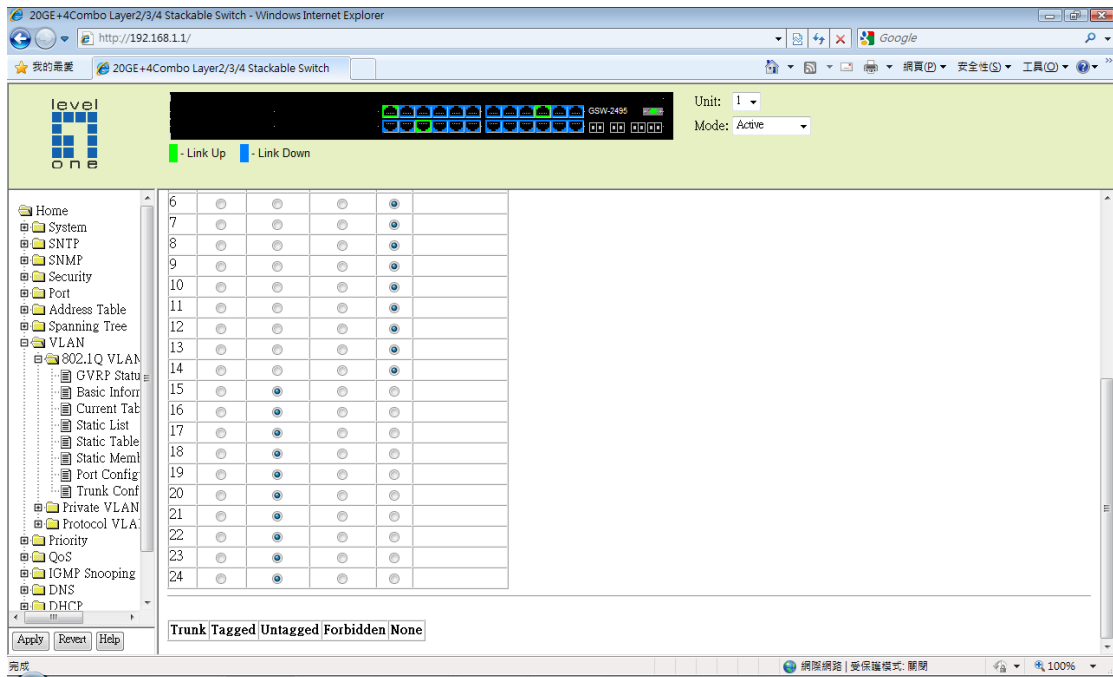
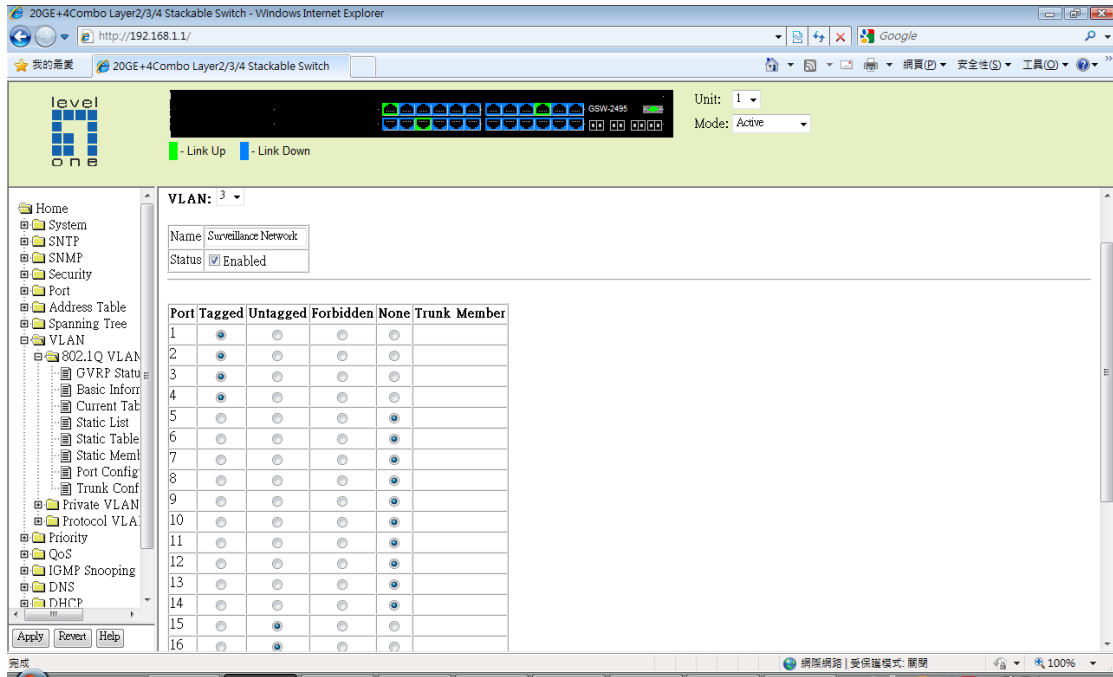


## 3. VLAN – 802.1Q VLAN – Static Table

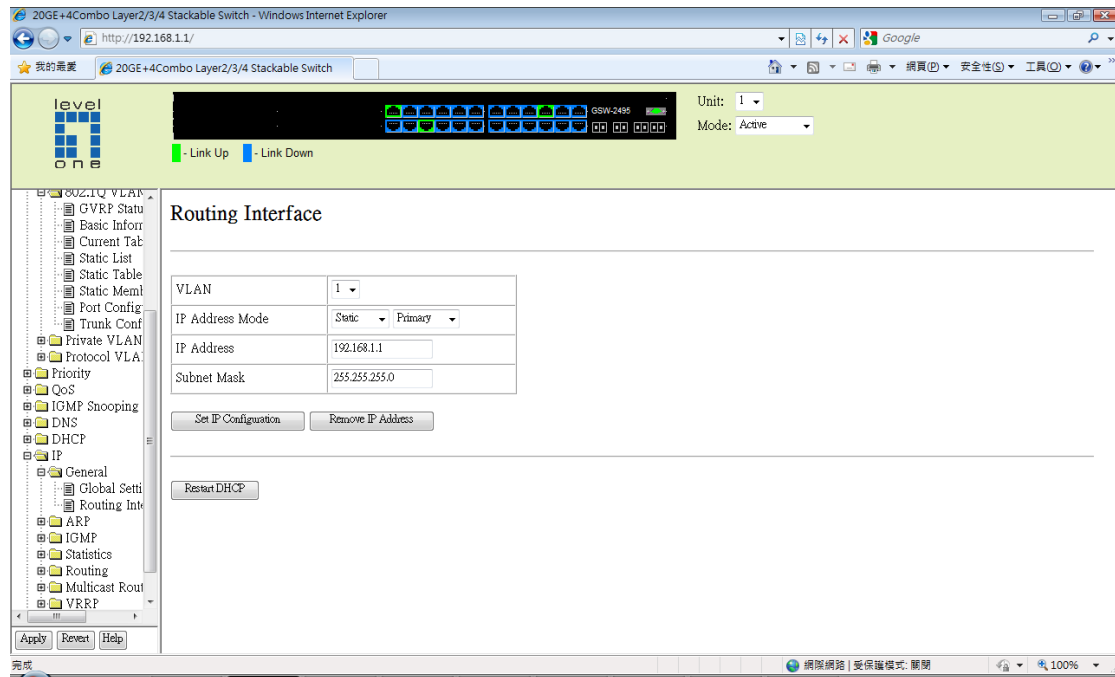
Configure VLAN 2, port 1 to 4 as Tagged, port 5 to 14 as Untagged, port 15 to 24 as None.



- Configure VLAN 3, port 1 to 4 as Tagged, port 5 to 14 as None, port 15 to 24 as Untagged.

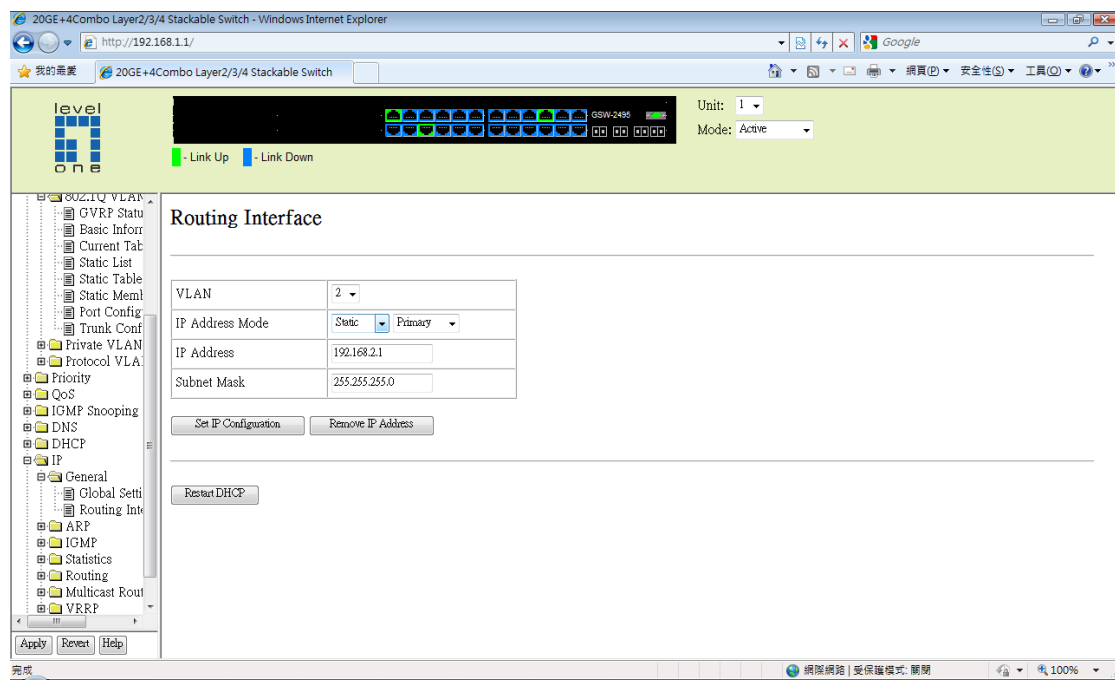


- You may change the IP address of GSW-2495 under different VLAN interface.  
 IP – General – Routing Interface  
 These steps are not necessary, configuring IP address will make web user interface configuration in different VLAN easier.



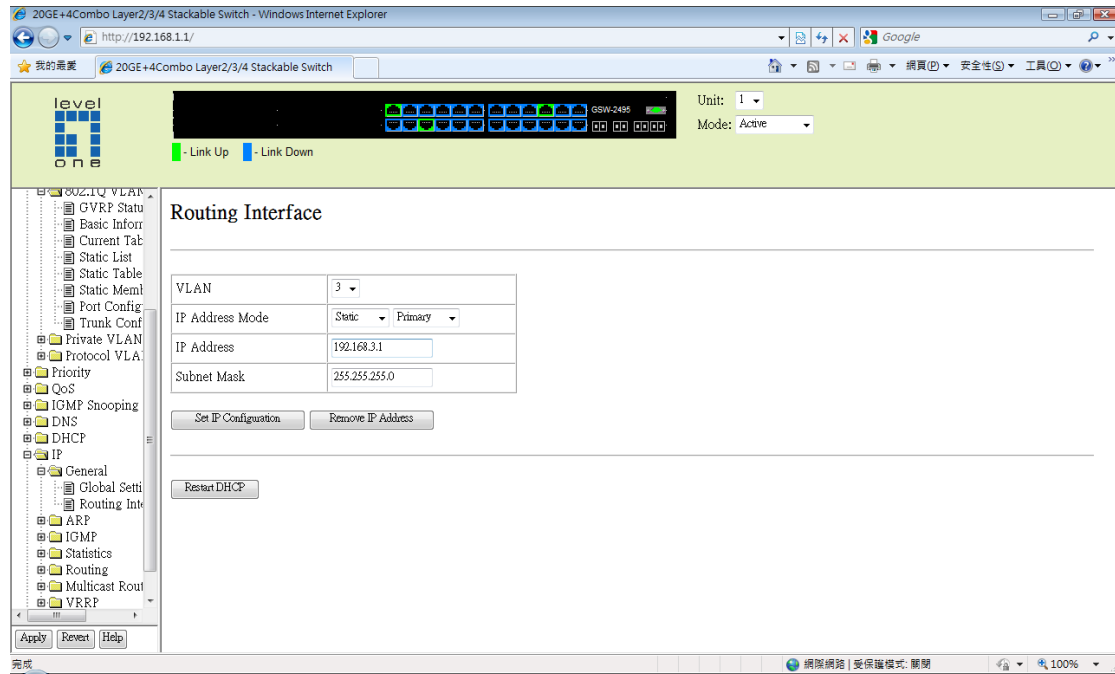
6. Here we use 192.168.2.1 / 255.255.255.0 as VLAN 2's IP address.

You can then access GSW-2495's web user interface with IP address 192.168.2.1 while you are in VLAN 2 ports, in the mean time you computer also have to be configured with Fixed IP address from 192.168.2.2 - 254.



7. Here we use 192.168.3.1 / 255.255.255.0 as VLAN 3's IP address.

You can then access GSW-2495's web user interface with IP address 192.168.3.1 while you are in VLAN 3 port, in the mean time you computer also have to be configured with Fixed IP address from 192.168.3.2 - 254.



## 8. VLAN – 802.1Q VLAN – Port Configuration.

Port 1 to 4 PVID is 1.

Port 5 to 14 PVID is 2

Port 15 to 24 PVID is 3

Leave the rest unchanged.

20GE+4Combo Layer2/3/4 Stackable Switch - Windows Internet Explorer  
 http://192.168.2.1/

level  
 GSW-2495  
 Unit: 1  
 Mode: Active

VLAN Port Configuration

Port	PVID	Acceptable Frame Type	Ingress Filtering	GVRP Status	GARP Join Timer (Centi Seconds)(20-1000)	GARP Leave Timer (Centi Seconds)(60-3000)	GARP LeaveAll Timer (Centi Seconds)(500-18000)	Mode	Trunk Member
1	1	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
2	1	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
3	1	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
4	1	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
5	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
6	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
7	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
8	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
9	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
10	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
11	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
12	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
13	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
14	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	

20GE+4Combo Layer2/3/4 Stackable Switch - Windows Internet Explorer  
 http://192.168.2.1/

level  
 GSW-2495  
 Unit: 1  
 Mode: Active

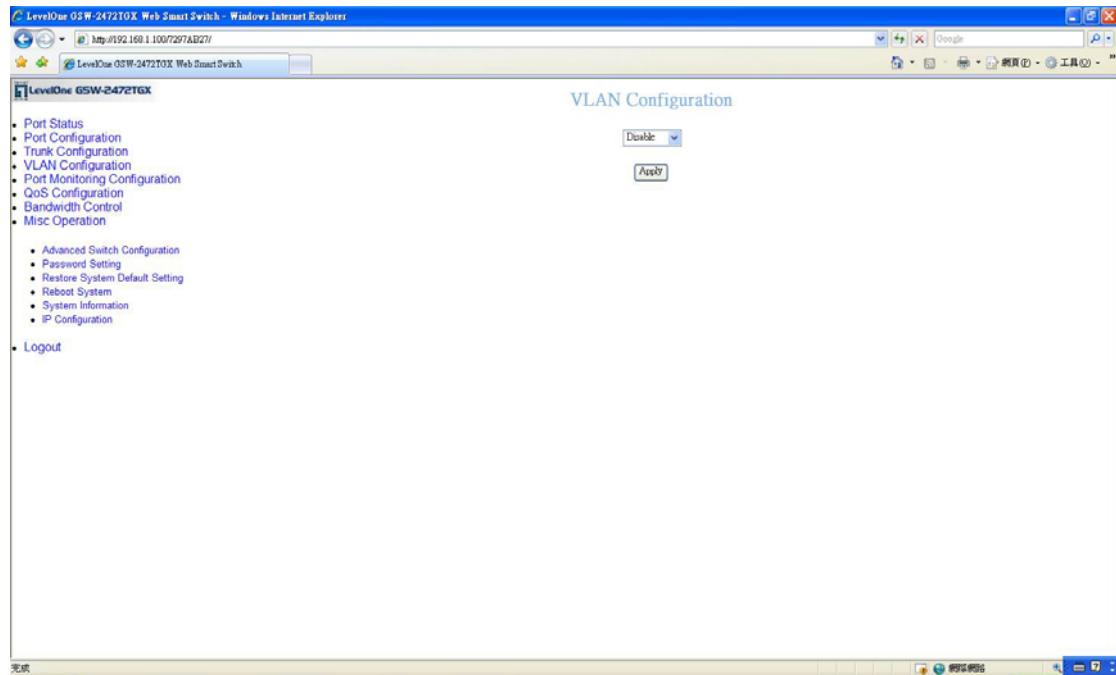
VLAN Port Configuration

Port	PVID	Acceptable Frame Type	Ingress Filtering	GVRP Status	GARP Join Timer (Centi Seconds)(20-1000)	GARP Leave Timer (Centi Seconds)(60-3000)	GARP LeaveAll Timer (Centi Seconds)(500-18000)	Mode	Trunk Member
7	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
8	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
9	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
10	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
11	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
12	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
13	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
14	2	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
15	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
16	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
17	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
18	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
19	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
20	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
21	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
22	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
23	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	
24	3	ALL	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	20	60	1000	Hybrid	

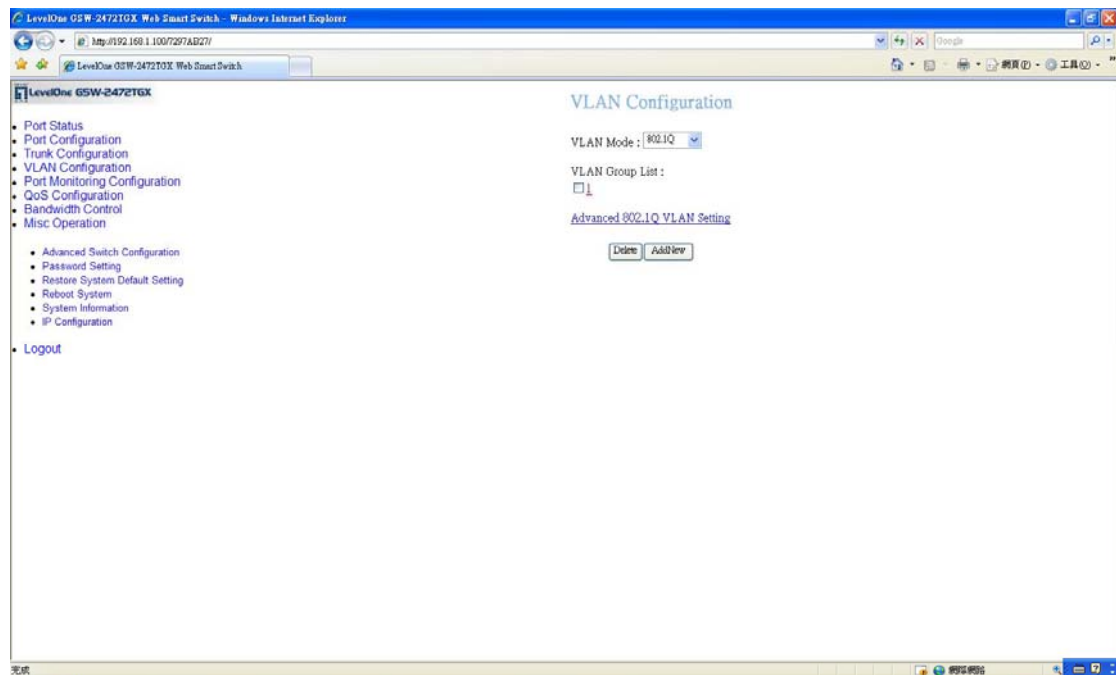
GSW-2472 Edge switch configuration.

- Please enter GSW-2472 web user interface.  
 VLAN configuration.

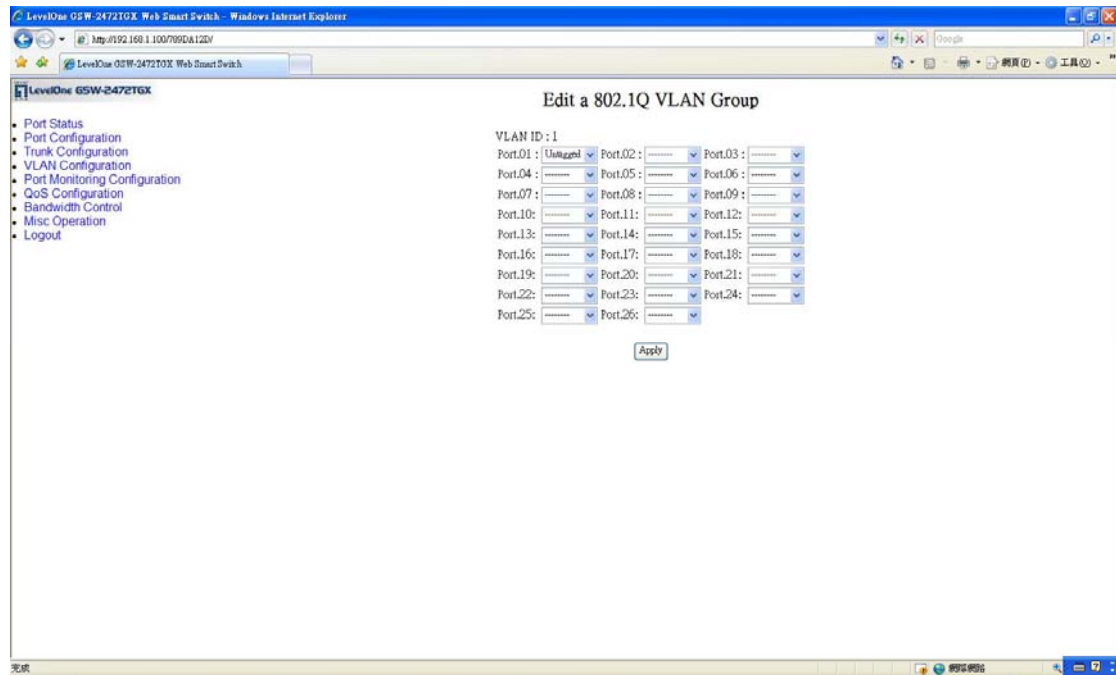




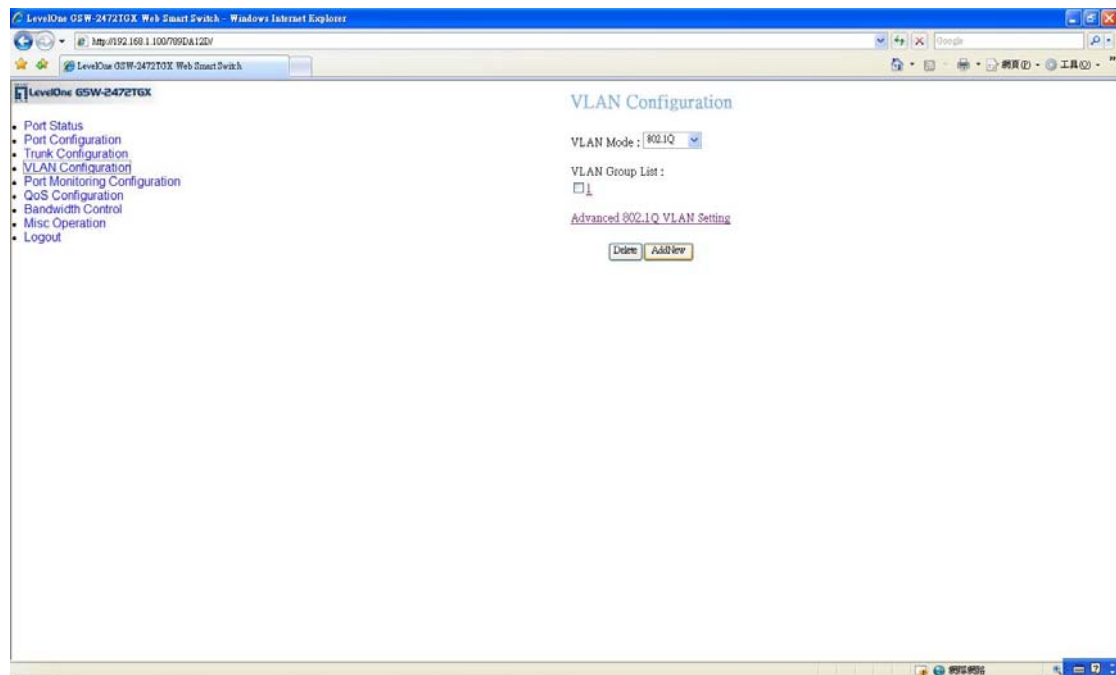
10. Select 802.1Q.



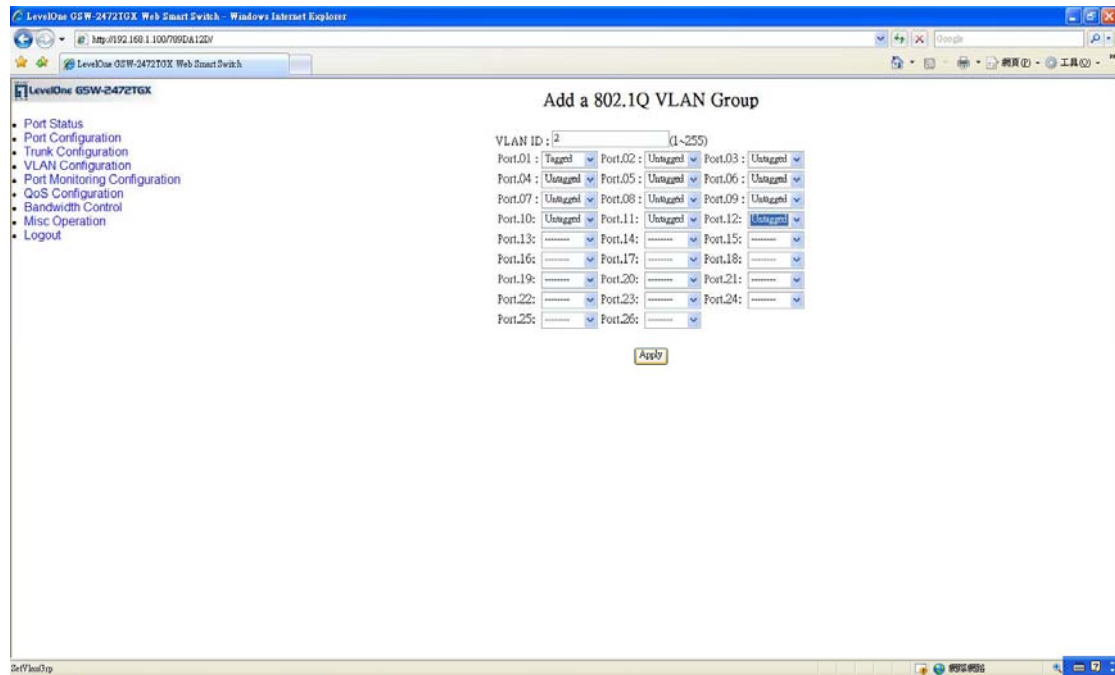
11. Select VLAN group 1. Configure port 2 to 26 as “-----“, leave port 1 “untagged”.  
Now you should connect your computer to port 1 for further configuration.



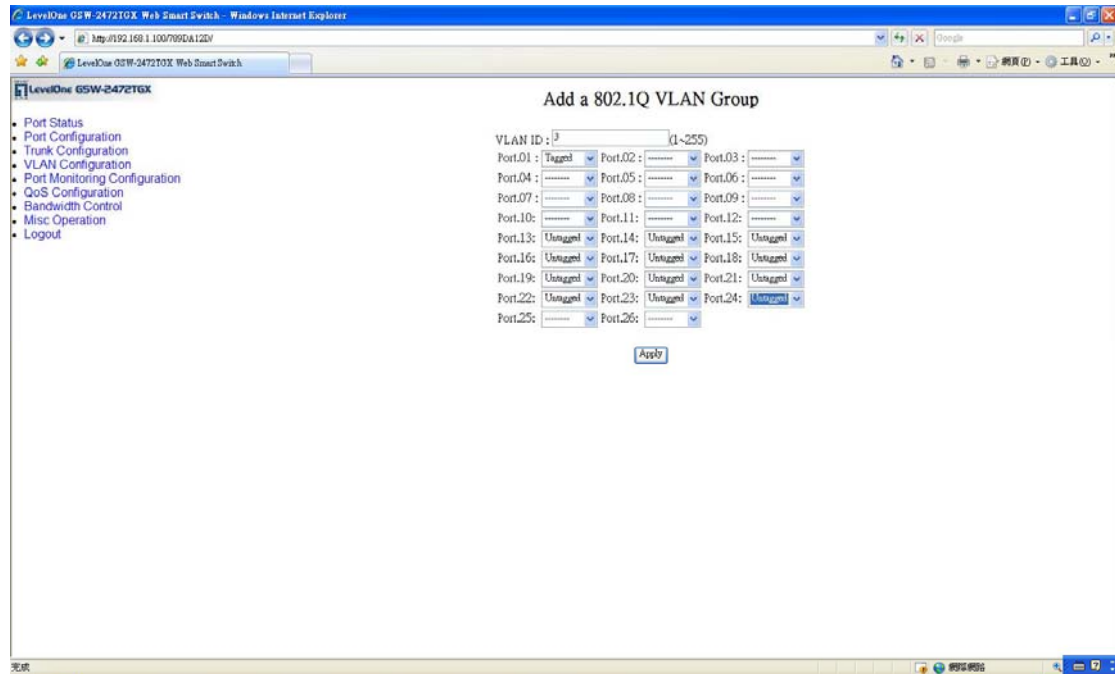
12. Return to VLAN configuration page and click on “Add new”.



13. Input VLAN ID “2”. Port 1 Tagged, port 2 to 12 untagged, and port 13 to 26  
“-----”.



14. Input VLAN ID "3". Port 1 Tagged, port 2 to 12 and port 25 & 26 "-----", and port 13 to 24 "untagged".



15. Now you should be able to test the VLAN communication and isolation between switches.