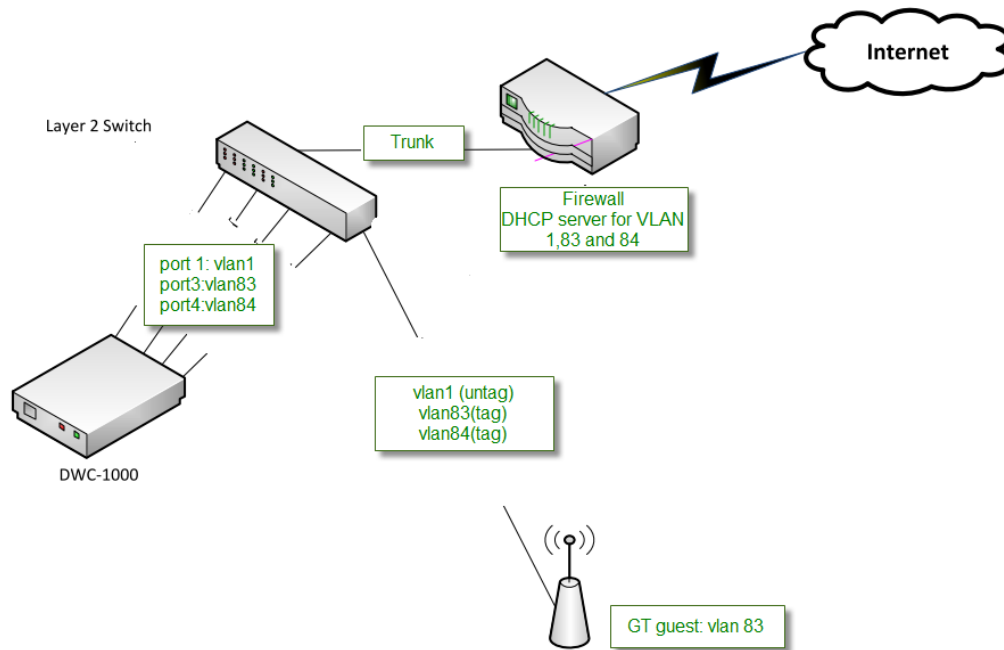


How to setup CP on DWC-1000

Scenario 1

Topology:



Firewall:

VLAN 1 IP: 10.70.0.254/16

VLAN83 IP: 10.18.83.254/24

VLAN84 IP: 10.18.84.254/24

AP will get VLAN 1 IP address from DHCP server (DFL), this is management IP address.

NB will get VLAN 83 IP address from DHCP server (DFL), VLAN 83 is for data transmit.

(1) Create 3 DHCP servers.

DHCP Servers
Add, remove and configure the DHCP servers in the system.

Add Advanced Settings

#	Name	Interface	Relay Filter	IP Address Pool	Netmask	Enable logging	Comments
1	vlan1	lan	0.0.0.0/0	10.70.0.10-10.70.0.20	255.255.0.0	Yes	
2	vlan83	vlan83	0.0.0.0/0	10.18.83.10-10.18.83.20	255.255.255.0	Yes	
3	vlan84	vlan84	0.0.0.0/0	10.18.84.10-10.18.84.20	255.255.255.0	Yes	

Right-click on a row for additional options.

(2) Create 2 VLAN interfaces then main table should have 2 VLAN interface routes.

VLAN
Add, remove and configure IEEE 802.1Q based Virtual LAN interfaces.

Add Advanced Settings

#	Name	Interface	VLAN ID	IPv4 Address	IPv6 Address	Network	Default Gateway	Comments
1	vlan83	lan	83	10.18.83.254		vlan83_net		
2	vlan84	lan	84	10.18.84.254		vlan84_net		

Right-click on a row for additional options.

main
The system has a predefined main routing table. Alternate routing tables can be defined by the user.

Add Edit this object

#	Type	Interface	Network	Gateway	LocalIP	Metric	Monitor this route	Comments
1	Route IPv4	vlan83	vlan83_net			100	No	Direct route for network vlan83_net over interface...
2	Route IPv4	vlan84	vlan84_net			100	No	Direct route for network vlan84_net over interface...
3	Route IPv4	wan1	wan1net			100	No	Direct route for network wan1net over interface wa...
4	Route IPv4	wan1	all-nets	wan1_gw		100	No	Default route over interface wan1.
5	Route IPv4	wan2	wan2net			100	No	Direct route for network wan2net over interface wa...
6	Route IPv4	dmz	dmznet			100	No	Direct route for network dmznet over interface dmz...
7	Route IPv4	lan	lanet			100	No	Direct route for network lanet over interface lan...

(3) Create IP rule for each VLAN can access each other.

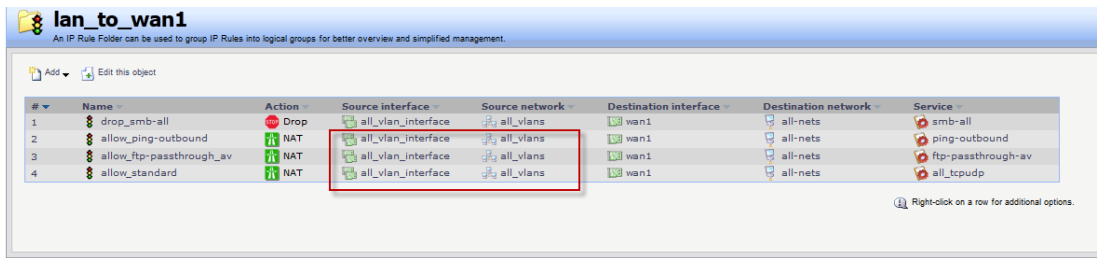
IP Rules
IP rules are used to filter IP-based network traffic. In addition, they provide means for address translation as well as Server Load Balancing.

Add

#	Name	Action	Src If	Src Net	Dest IF	Dest Net	Service
1	ping_fw	Allow	all_vlan_interface	all_vlans	core	all-nets	all_icmp
2	test	FwdFast	all_vlan_interface	all_vlans	all_vlan_interface	all_vlans	all_services
3	lan_to_wan1						

Right-click on a row for additional options.

(4) Create IP rule for each VLANs can surf Internet.

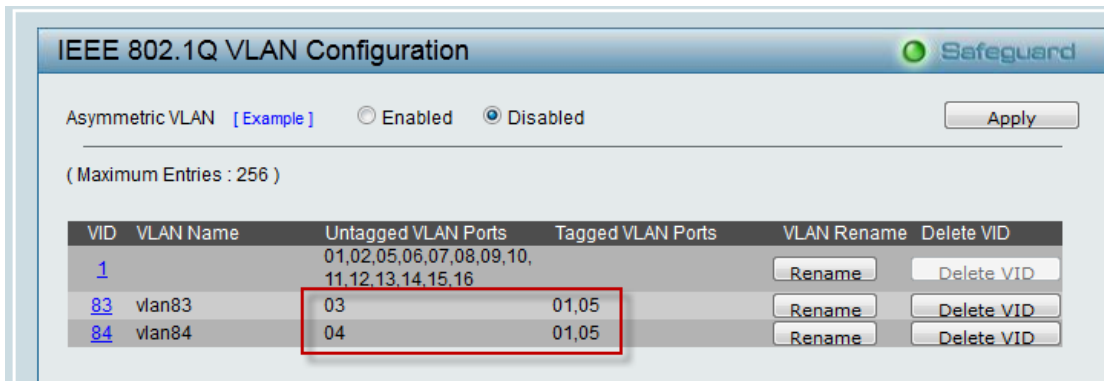


(5) On the switch, port 1 and port 5 are trunk port.

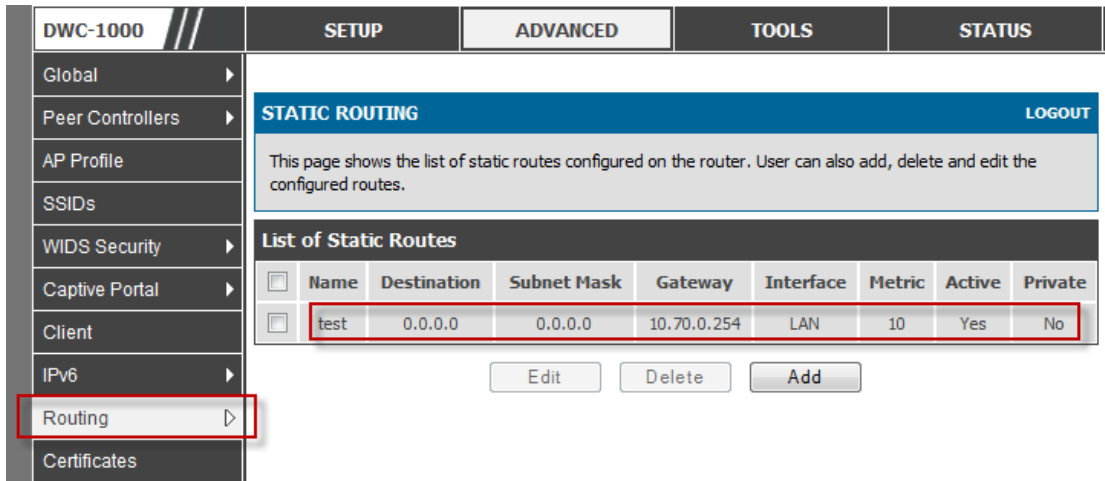
Switch port 2 connect to DWC port 1

Switch port 3 connect to DWC port 3

Switch port 4 connect to DWC port 4



(6) Create default route for VLAN1 on DWC.



(7) Port 3 and port 4 are belong to VLAN 83 and VLAN 84.

PORT VLANS LOGOUT

This page allows user to configure the port VLANs. A user can choose ports and can add them into a VLAN.

Port VLANs				
	Port Name	Mode	PVID	VLAN Membership
<input type="checkbox"/>	Port 1	Access	1	1
<input type="checkbox"/>	Port 2	Access	1	1
<input type="checkbox"/>	Port 3	Access	83	83
<input type="checkbox"/>	Port 4	Access	84	84

(8) Add GT guest VLAN in the associated interfaces.

CAPTIVE PORTAL LOGOUT

You can associate a configured captive portal with a specific physical interface or wireless network (SSID). The CP feature only runs on the wired or wireless interfaces that you specify.

Captive Portal Interface association

Interface List

- 6/1-Wireless Network 1 - GT Office
- 6/3-Wireless Network 3 - GT Mobile
- 6/4-Wireless Network 4 - dlink4
- 6/5-Wireless Network 5 - dlink5
- 6/6-Wireless Network 6 - dlink6
- 6/7-Wireless Network 7 - dlink7
- 6/8-Wireless Network 8 - dlink8
- 6/9-Wireless Network 9 - dlink9

Associated Interfaces

- 6/2-Wireless Network 2 - GT Guest

(9) NB associated to SSID "GT guest" and pop out CP WEB page.

DWC-1000	SETUP	ADVANCED	TOOLS	STATUS						
Global	CAPTIVE PORTAL SESSIONS LOGOUT									
Peer Controllers										
AP Profile	This page displays a list of active run time sessions on your router.									
SSIDs	List of Captive Portal Sessions									
WIDS Security	<table border="1"><thead><tr><th></th><th>Username</th><th>IP Address</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>test</td><td>10.18.83.12</td></tr></tbody></table>					Username	IP Address	<input type="checkbox"/>	test	10.18.83.12
	Username	IP Address								
<input type="checkbox"/>	test	10.18.83.12								
Captive Portal	<input type="button" value="Disconnect"/>									
Client										
IPv6										

The screenshot shows a Windows desktop environment. In the background, a web browser displays the D-Link captive portal login page for a DWC-1000 router. The page title is "D-Link" and "CAPTIVE PORTAL LOGIN". It includes a "Web Authentication" section with a "Logout" button. In the foreground, a command prompt window shows the output of the command "ipconfig /all" for the wireless LAN adapter "Wireless Network Connection". The output lists the IPv4 address as 10.18.83.11, the subnet mask as 255.255.255.0, and the default gateway as 10.18.83.254. To the right, the network tray icon shows "Currently connected to: GT Guest" with "Internet access". Below it, the "Wireless Network Connection" list shows "GT Guest" as "Connected" with a signal strength indicator. Other connections listed include "dlink-5268", "DWR-555_tyson", "DCS_Lab", "sonic2", "G7V0IP", "2555", and "PMDEMP". The system tray at the bottom right shows the time as 10:48 on 2012/8/21.

END