Windows 2008 dynamic vlan with DWS-4026



Introduction:

Here I provide the SOP to setup the "Dynamic vlans" for the Windows 2008 Radius server with DWS-4026.

To process this feature you need four steps, DHCP, here I use DSR, DWS, Windows Radius server, and the user's laptop.

Step:

For the DHCP, here I used DSR, setting, what you need to take care is the tracking port.

First, you create the vlan2, and then modify the vlan2 IP as you want, as 1-1.

Second, you need to setup the port as trunk which DHCP server connect to the DWS, as 1-2.



Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2_10244W								
D-Link								
DWC-1000	SETUP ADVANCED TOOLS STATUS							
Wizard 🕨	н							
WLAN Global Settings	tings PORT VLANS LOGOUT In o							
AP Management	port with a VLAN ID, you can associate a VLAN to a physical port. The							
Internet Settings VLAN Port table disp the port VLANs the port identifier, t								
Network Settings	Settings Port Name Mode PVID VLAN Membership							
QoS 🕨		Port 1	Access	1		1	membership information. Go to the Available VLAN	
GVRP		Port 2	Trunk	1		1, 2	page to configure a VLAN membership that	
VPN Settings		Port 3	Access	1		1	with a port	
VLAN Settings	Settings Port 4 Access 1 1							
DM7 Setun								

2.

For the DWS, you need to setup the Radius setting, as 2-1, vlans setting, as 2-2 and the AP profile, as 2-3.

What you need to be careful is the vlan participation, should let the port which connect to the DHCP and AP participate with the vlan2, in my case, tagged.

2-1

LAN WLAN L2 Features	need the Java Plugin. Get it from <u>here</u>		🔀 Logout 😵 Help
E L3 Features	RADIUS Authentication Serve	r Configuration	
QoS Access Control Lists Cognity	RADIUS Server Host Address	10.50.12.1 -	
Port Security Administr	Port	1812 (1 to 65535)	
Port Security Interface	Secret	•••••	Apply
Port Security Static	Primary Server	Yes	
SSL Configuration	Message Authenticator	Enable -	
SSH Configuration	Secret Configured	Yes	
	Current	Yes	_
RADIUS Configuratio	RADIUS Server Name	Default-RADIUS-Server (1 to 32 characters)	
RADIUS Authenticat		(
RADIUS Named Serv		Submit Remove Refresh	
RADIUS Accounting			

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		WS-4	026			VLAN ID List	•				
ł	-	Adm	ninistration			VLAN Name		(0 to 32 c	haracters)		
1	1- 3	L2 F	eatures			VLAN Type Statio	;				
	 	1 F	orwarding DB Configu			VLAN ID-Individual/Range		R	ange[1-4093]		
			VLAN Configuration			VLAN Participation All					
			Port Configuration			Participation All	Autodetect -	You need	to set the Vlan2	Tagging All	
			Protocol-based VLA			VLAN Participation		port for DH	ICP server and Al	c	
1	1	E	IP Subnet-based VL								_
			MAC-based VLAN		L	nterface Interface St	atus	Participati	ion T	agging	
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		Ð	Voice VLAN		0)/2 Include		Include	• 1	agged 🔹	
		Ŀ	Reset Configuration		C	0/3 Exclude		Autodetect	t 🔽 🛛	Jntagged 💌	
	÷	📄 P	rotected Ports		C)/4 Exclude		Autodetect	t 💌 🛛	Jntagged 💌	



3.

We can divide the windows setting for user and radius parts.

First, for user part, you need to create the groups for vlans. Ex: two group for two vlans, as 3-1

Second, for the radius part, you need to setup the radius client, connection require policy, and network policy. 3-2~3-5.

What you need to be careful is network policy. You need to create the network policy based on how many vlans you want, as 3-4.

And then, you need to setup the "constraint" for the network policy. Remove the previous setting, and then add the Tunnel-media-type, Tunnel-pvt-group-ID, and Tunnel-type, as 3-5.

🖇 Network Policy Server								
File Action View Help								
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NPS (Local)	RADIUS Clients	DWS_dynamic_vlan Properties						
 NPS (Local) RADIUS Clients and Servers RADIUS Clients Remote RADIUS Server G Connection Request Policies Network Policies Network Policies Network Access Protection Accounting Templates Management 	RADIUS Clients Image: RADIUS clients allow you to specify the network Friendly Name IP Address DWS_dynamic_vlan 10.90.90.90 RADIUS Star	DWS_dynamic_vlan Properties Image: Constraint of the second of the s						
		Confirm shared secret:						
		OK Cancel Apply						







4.

The last but not lease, you need to setup the user's laptop, as 4-1 and 4-2.

Nothing special, but please follow the setting, for the security type, please refer to your setting.





End of the document