# UBS-5324z 網路迴圈(Loop)防護設定

[目的]

讓 UBS-5324z 具有網路迴圈(Loop)防護功能,防止單 Port 迴圈或多 Port 迴圈導致網路不通。

[準備工作]

1.一台桌上型電腦(或筆記型電腦)。

2. 一條網路線。

3.電腦有線網路卡手動自定 IP->192.168.2.100

4.將網路線一端插入有線網路卡,一端插到 UBS-5324z 第一孔。

[步驟 1] 電腦瀏覽器網址輸入 192.168.2.1, 然後依照下面畫面操作。





[步驟 2] 開啟網路迴圈(Loop)防護功能,請依照下面畫面操作。

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檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)		
		Save   Logout   Reboot   Debug
Spanning Tree )) Proper	ty	
▲ Status		
System Information Logging Message State	Enable	
Port     Operation Mode	O STP	
MAC Address Table Path Cost	C Long	
Port     BPDU Handling     VLAN	Flooding	
MAC Address Table  Priority	32768 (0 - 61440 c	fault 32768)
2 Property		
Port Setting Hello Time	2 Sec (1 - 10,	etault 2)
Statistics Max Age	20 Sec (6 - 40,	efault 20)
Multicast     Forward Delay	15 Sec (4 - 30,	efault 15)
Security     Tx Hold Count	6 (1 - 10, defa	t6)
• QoS		
Diagnostics     Operational Status		
Bridge Identifiter	32768-00:08:54:76:EE:BF	
Designated Root Bridge	32768-00:08:54:76:EE:BF	
Root Port	N/A	
Root Path Cost	0	
Topology Change Count	0	
Last Topology Change	0D/0H/0M/0S	v
Last Topology Change	0D/0H/0M/0S	
7 Annly		
2		~

### [步驟 3] 開啟單 Port 網路迴圈(Loop)防護功能,請依照下面畫面操作。

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(-) (-) (-) http://192.168.2.1/hom	ne.html?ver=156384547339: 🔎 👻	C 🖉 UBS-5324z ×	合 ☆ 億
檔案(F) 編輯(E) 檢視(V) 我的最愛	(A) 工具(T) 說明(H)		
ſ	Discovery )) LLDP )) P	roperty	Save   Logout   Reboot   Debug
<ul> <li>Status</li> </ul>			
System Information Logging Message Port	LLDP State	Enable	
MAC Address Table	LLDP Handling	Bridaina	
<ul> <li>Network</li> </ul>		O Flooding	
✓ Port	TLV Advertise Interval	30 Sec (8 - 32767, default	30)
VLAN	Hold Multiplier	(2 10 default 4)	
<ul> <li>MAC Address Table</li> </ul>	noiu mulupilei	(2 - 10, deladit 4)	
<ul> <li>Spanning Tree</li> </ul>	Reinitializing Delay	2 Sec (1 - 10, default 2)	
Property Port Setting	Transmit Delay	2 Sec (1 - 8191, default 2)	
Statistics	L		
1 - Discovery	4. Apply		
<ul> <li>LLDP</li> <li>2 Property</li> <li>Port Setting</li> <li>Packet View</li> </ul>			
Local Information			
Statistics			
<ul> <li>Multicast</li> </ul>			
<ul> <li>Security</li> </ul>			
<ul> <li>Diagnostics</li> </ul>			
<ul> <li>Management</li> </ul>			

[步驟 4] 關閉 DoS 防護功能,請依照下面畫面操作。

A DESCRIPTION OF	<b>11</b>			
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檔案(F) 編輯(E) 檢視(V) 我的最愛	(A) 工具(T) 說明(H)			
			Save   Loo	rout   Reboot   Debug
, and the second se				
	Security // DoS // Pro	operty		
Statistics		4		
<ul> <li>Multicast</li> </ul>	POD		<- 全部打勾都拿掉	<u></u>
<ul> <li>General</li> </ul>	Land			
Property October Address	Lano			
Group Address Router Port	UDP Blat		and the address of the second s	
<ul> <li>IGMP Snooping</li> </ul>	TCP Blat	Enable		
Property			and the second	
Querier	DMAC = SMAC			
Statistics	Null Scan Attack	Enable		
✓ Security	X-Mas Scan Attack	Enable		
<ul> <li>Management Access</li> <li>Management \/( A)</li> </ul>	TCP SYN-FIN Attack	Enable		
Management Service	L			
Protected Port	TCP SYN-RST Attack	Enable		
Storm Control	ICMP Fragment	Enable		
2. A DoS		Enable		
Dot Setting	TCP-SYN	Note: Source Port < 1024		
<ul> <li>OnS</li> </ul>				
General	TCP Fragment			
Property		Note: Offset = 1		
Queue Scheduling				
CoS Mapping				
DSCP Mapping	Ping Max Size			
Rate Limit		512 Byte (0 - 65535, default 512)		
Diagnostics		Enable		
<ul> <li>Logging</li> </ul>	TCP Min Hdr size			
		20 Byte (0 - 31, default 20)		
	ID & His Frances	Enable		
	IPV6 Min Fragment	1240 Byte (0 - 65535, default 1240)		
	Smurf Attack			
		U Netmask Length (0 - 32, default 0)		
	5. Apply			
				· · · · · · · · · · · · · · · · · · ·

#### [步驟 5] 關閉 DoS 防護功能,請依照下面畫面操作。

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											Save	Logout	Reboot	Debug
	- Y	Multi	icast ))	IGMP Snoopin	ig )) Propei	rtv								
<ul> <li>Spanning Tree</li> </ul>	_				9 1	- <b>-</b>								
Property	~	· ····												~
Port Setting				State 4. E	nable									
Statistics				Version 0 10	MPv2									
<ul> <li>Discovery</li> </ul>		-	Depart (		aphie									
<ul> <li>LLDP</li> <li>Property</li> </ul>			Report :		nable									
Port Setting		6.	Apply											
Packet View														
Local Information		VL	AN Setti	ng Table										
Statistics														
🖌 🕶 Multicast												Q		
<ul> <li>General</li> </ul>				On and Status	Router Port	Query	Query	Query Max	Last Member	Last Member	terrestation terrest			
Property Group Address			VLAN	Operational Status	Auto Learn	Robustness	Interval	Response Interval	Query Counter	Query Interval	immediate Leave			
Router Port			1	Disabled	Enabled	2	125	10	2	1	Disabled			
2. IGMP Snooping			2	Disabled	Enabled	2	125	10	2	1	Disabled			_
3. Property Ouerier			3	Disabled	Enabled	2	125	10	2	1	Disabled			
Statistics			4	Disabled	Enabled	2	125	10	2	1	Disabled			_
<ul> <li>Security</li> </ul>			5	Disabled	Enabled	2	120	10	2	1	Disabled			
<ul> <li>Management Access</li> </ul>			7	Disabled	Enabled	2	125	10	2	1	Disabled			
Management VLAN Management Service			. 8	Disabled	Enabled	2	125	10	2	1	Disabled			
Protected Port			9	Disabled	Enabled	2	125	10	2	1	Disabled			
Storm Control			10	Disabled	Enabled	2	125	10	2	1	Disabled			
<ul> <li>DoS</li> <li>Broporty</li> </ul>	~		11	Disabled	Enabled	2	125	10	2	1	Disabled			~
Property			12	Disabled	Enabled	2	125	10	2	1	Disabled			
			13	Disabled	Enabled	2	125	10	2	1	Disabled			
			14	Disabled	Enabled	2	125	10	2	1	Disabled			
			15	Disabled	Enabled	2	125	10	2	1	Disabled			
			16	Disabled	Enabled	2	125	10	2	1	Disabled			
			17	Disabled	Enabled	2	125	10	2	1	Disabled			
			18	Disabled	Enabled	2	125	10	2	1	Disabled			_
			19	Disabled	Enabled	2	125	10	2	1	Disabled			
			20	Disabled	Enabled	2	125	10	2	1	Disabled			
			21	Disabled	Enabled	2	125	10	2	1	Disabled			
			23	Disabled	Enabled	2	125	10	2	1	Disabled			
			24	Disabled	Enabled	2	125	10	2	1	Disabled			
				)										
			Edit	J										

## [步驟 6] 將設定資料存檔,請依照下面畫面操作。

← → @ http://192.168.2.1,	/home.ł	ntml?ver=	156384	547339: <b>0 - C</b>	UBS-5324z	, ,	<					• ☆ ŵ
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											1. Save Lo	
	N	Iultica	st )) I	GMP Snoopir	g )) Property							
Snanning Tree												
Property	~		4	Disabled	Enabled	2	125	10	2	1	Disabled	<b>^</b>
Port Setting			5	Disabled	Enabled	2	125	10	2	1	Disabled	
Statistics			6	Disabled	Enabled	2	125	10	2	1	Disabled	
<ul> <li>Discovery</li> </ul>			7	Disabled	E					1	Disabled	
· LLDP			8	Disabled	E					1	Disabled	
Property			9	Disabled	E Save run	ning config	uration to s	tartup configuration.	figuration. Do you	1	Disabled	
Port Setting			10	Disabled	E		want to continue?			1	Disabled	
Packet View			11	Disabled	E					1	Disabled	
Neighbor			12	Disabled	E		ОК	Cancel		1	Disabled	
Statistics			13	Disabled	E					1	Disabled	
+ Multicast			14	Disabled	E					1	Disabled	
<ul> <li>General</li> </ul>			15	Disabled	Enabled	2	125	10	2	1	Disabled	
Property			16	Disabled	Enabled	2	125	10	2	1	Disabled	
Group Address			17	Disabled	Enabled	2	125	10	2	1	Disabled	
Router Port			18	Disabled	Enabled	2	125	10	2	1	Disabled	
Property			19	Disabled	Enabled	2	125	10	2	1	Disabled	
Querier			20	Disabled	Enabled	2	125	10	2	1	Disabled	
Statistics			21	Disabled	Enabled	2	125	10	2	1	Disabled	
<ul> <li>Security</li> </ul>			22	Disabled	Enabled	2	125	10	2	1	Disabled	
<ul> <li>Management Access</li> </ul>			23	Disabled	Enabled	2	125	10	2	1	Disabled	
Management VLAN			24	Disabled	Enabled	2	125	10	2	í.	Disabled	
Management Service Protected Port			24	wisdonou -	Chaolog	2	120		-		0.00000	
Storm Control		Ed	it ]									
· DoS	6											- 5
Property												

以上就完成了 UBS-5324z 網路迴圈(Loop)防護設定。

#### UBS-5324z 網路迴圈(Loop)防護測試:

在 UBS-5324z 的網路孔上插上多條 Loop 的網路線(單 Port 與多 Port),查看 UBS-5324z 網路燈號是否會快速同時閃爍,若燈號是靜止的代表網路迴圈(Loop)防護功能是有作用的,畫面如下。



Q:接在 UBS-5324z 底下的一般 Switch 發生網路迴圈(Loop)時,如何一眼看出是哪一 Port 發生網路迴圈 (Loop)?

A:當你開啟 UBS-5324z 的網路迴圈(Loop)防護後,若底下串接的一般 Switch 發生網路迴圈(Loop)時,你 會看到一般 Switch 接在 UBS-5324z 的那個網路孔燈號快速閃爍,其它網路孔燈號正常閃爍,這時候只 要把快速閃爍的那條網路線拔掉,在去查這條網路線串接到哪個 Switc,就可以排除網路迴圈(Loop)問題 了。