

需求

設定 3 個 VLAN,分別為 VLAN1,VLAN2,VLAN3

VLAN1 的 Group Port 有 Port1-Port4 & Port13-Port24

VLAN2 的 Group Port 有 Port5-Port8

VLAN3 的 Group Port 有 Port9-Port12

每 1 個 VLAN 均無法互通,但是必須要能與上層的防火牆或 Switch 設備互通。

※此設定文件以 VLAN1 的 Port 2 當作是共用 Port,並將此 Port 接到上層的防火牆或 Switch 設備。

目的

- 1.達到 VLAN1 & VLAN2 & VLAN3 彼此的 PC 互相不通,但是 VLAN1 & VLAN2 & VLAN3 的 PC 可以透過 VLAN1 的 Port2 與上層的防火牆或其它層 Switch 內的主機資料做存取。
- 2.上層的防火牆或 Switch 內的主機可以對 PC 做存取。(例如 Ping 的到 PC 或對 PC 集中管理或對 PC 遠端喚醒)
- 3.上層 Switch 內的主機可以對此台 UBS-5024 進行管理與設定,甚至可安裝 SwitchView 軟體來查看 IP & MAC 的狀態。

設定方法

步驟一：進入 UBS-5024 管理畫面,然後依下列畫面點選

The screenshot shows the '24 Port Gigabit Ethernet Switch' management interface. On the left, a sidebar lists various configuration options: System, Ports, VLANs (which is highlighted with a red box), Aggregation, LACP, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, and Storm Control. Below that is a 'Monitoring' section with Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeriPHY, and Ping. The main panel is titled 'Port Segmentation (VLAN) Configuration' and contains two sections: 'Add a VLAN' and 'VLAN Configuration List'. In the 'Add a VLAN' section, there is an input field for 'VLAN ID' with the value '2' highlighted with a green box. Below it is a 'Add' button with a green box around it. In the 'VLAN Configuration List' section, there is a table with one row and seven columns. The first column has a radio button with the value '1' and a green circle indicating it is selected. At the bottom of the table are 'Modify', 'Delete', and 'Refresh' buttons, and a 'Port Config' button.

步驟二： 請依下列畫面勾選,勾選完畢請按[Apply]

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VeriPHY
- Ping

Maintenance

- Warm Restart
- Factory Default
- Software Upload

VLAN Setup

VLAN ID: 2			
Port	Member	Port	Member
Port 1	<input type="checkbox"/>	Port 13	<input type="checkbox"/>
Port 2	<input checked="" type="checkbox"/>	Port 14	<input type="checkbox"/>
Port 3	<input type="checkbox"/>	Port 15	<input type="checkbox"/>
Port 4	<input type="checkbox"/>	Port 16	<input type="checkbox"/>
Port 5	<input checked="" type="checkbox"/>	Port 17	<input type="checkbox"/>
Port 6	<input checked="" type="checkbox"/>	Port 18	<input type="checkbox"/>
Port 7	<input checked="" type="checkbox"/>	Port 19	<input type="checkbox"/>
Port 8	<input checked="" type="checkbox"/>	Port 20	<input type="checkbox"/>
Port 9	<input type="checkbox"/>	Port 21	<input type="checkbox"/>
Port 10	<input type="checkbox"/>	Port 22	<input type="checkbox"/>
Port 11	<input type="checkbox"/>	Port 23	<input type="checkbox"/>
Port 12	<input type="checkbox"/>	Port 24	<input type="checkbox"/>

2. **Apply** **Refresh**

步驟三： 請依照下列畫面點選

24 Port Gigabit Switch - Microsoft Internet Explorer

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24 Port Gigabit Ethernet Switch

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VeriPHY
- Ping

Port Segmentation (VLAN) Configuration

Add a VLAN

VLAN ID 2

Add

VLAN Configuration List

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Modify Delete Refresh

Port Config 1.

步驟四：請依下列畫面設定,設定完畢請按[Apply] ※藍色字體為說明部份

24 Port Gigabit Switch - Microsoft Internet Explorer

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24 Port Gigabit Ethernet Switch

VLAN Per Port Configuration

VLAN aware Enable & Ingress Filtering Enable 都不用打勾

Port	VLAN aware Enabled	Ingress Filtering Enabled	Packet Type	Pvid
Port 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None
Port 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 9	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None
Port 10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None
Port 11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None
Port 12	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None

選"None"代表這個Port同時支援Pvid 1&2

Configuration

- System Ports VLANs Aggregation LACP RSTP 802.1X IGMP Snooping Mirroring Quality of Service Filter Rate Limit Storm Control

Monitoring

- Statistics Overview Detailed Statistics LACP Status RSTP Status IGMP Status VeriPHY Ping

步驟五：請依下列畫面點選

24 Port Gigabit Switch - Microsoft Internet Explorer

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24 Port Gigabit Ethernet Switch

Port Segmentation (VLAN) Configuration

Add a VLAN

VLAN ID **1.**

Add **2.**

VLAN Configuration List

1	2						
---	---	--	--	--	--	--	--

Modify **Delete** **Refresh**

Port Config

Configuration

- System Ports VLANs Aggregation LACP RSTP 802.1X IGMP Snooping Mirroring Quality of Service Filter Rate Limit Storm Control

Monitoring

- Statistics Overview Detailed Statistics LACP Status RSTP Status IGMP Status VeriPHY Ping

步驟六：請依下列畫面勾選,勾選完畢請按[Apply]

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VeriPHY
- Ping

Maintenance

- Warm Restart
- Factory Default
- Software Upload
- Configuration File

VLAN Setup

VLAN ID: 3			
Port	Member	Port	Member
Port 1	<input type="checkbox"/>	Port 13	<input type="checkbox"/>
Port 2	<input checked="" type="checkbox"/>	Port 14	<input type="checkbox"/>
Port 3	<input type="checkbox"/>	Port 15	<input type="checkbox"/>
Port 4	<input type="checkbox"/>	Port 16	<input type="checkbox"/>
Port 5	<input type="checkbox"/>	Port 17	<input type="checkbox"/>
Port 6	<input type="checkbox"/>	Port 18	<input type="checkbox"/>
Port 7	<input type="checkbox"/>	Port 19	<input type="checkbox"/>
Port 8	<input type="checkbox"/>	Port 20	<input type="checkbox"/>
Port 9	<input checked="" type="checkbox"/>	Port 21	<input type="checkbox"/>
Port 10	<input checked="" type="checkbox"/>	Port 22	<input type="checkbox"/>
Port 11	<input checked="" type="checkbox"/>	Port 23	<input type="checkbox"/>
Port 12	<input checked="" type="checkbox"/>	Port 24	<input type="checkbox"/>

2. **Apply** **Refresh**

步驟七： 請依下列畫面點選

24 Port Gigabit Switch - Microsoft Internet Explorer

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24 Port Gigabit Ethernet Switch

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VeriPHY
- Ping

Port Segmentation (VLAN) Configuration

Add a VLAN

VLAN ID

Add

VLAN Configuration List

1	2	3
---	---	---

1. **Modify** **Delete** **Refresh**

2. **Port Config**

步驟八： 請依下列畫面設定,設定完畢請按[Apply] ※藍色字體為說明部份

Configuration

- System Ports VLANs Aggregation LACP RSTP 802.1X IGMP Snooping Mirroring Quality of Service Filter Rate Limit Storm Control

Monitoring

- Statistics Overview Detailed Statistics LACP Status RSTP Status IGMP Status VeriPHY Ping

Maintenance

- Warm Restart Factory Default Software Upload Configuration File Transfer

VLAN Per Port Configuration
VLAN aware Enable & Ingress Filtering Enable 都不用打勾

Port	VLAN aware Enabled	Ingress Filtering Enabled	Packet Type	Pvid
Port 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None
Port 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	2
Port 9	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	3
Port 10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	3
Port 11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	3
Port 12	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	3
Port 13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 14	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
Port 16	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1

選“None”代表這個 Port 同時支援 Pvid1 & Pvid2 & Pvid3

※ 上面就完成了 UBS-5024 GroupVLAN 設定,有一點請注意就是只有”Pvid 是 1”的 Port 才能進入 UBS-5024 的管理畫面進行管理與設定。