

如何在 Windows Server 2022 啟用 MPIO

SAN and FAS Series White Paper

September 2022

PREFACE

Information, **Tip and Caution**

This manual uses the following symbols to draw attention to important safety and operational information.



INFORMATION:

INFORMATION provides useful knowledge, definition, or terminology for reference.



TIP:

TIP provides helpful suggestions for performing tasks more effectively.



CAUTION:

CAUTION indicates that failure to take a specified action could result in damage to the system.



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AUDIENCE

在本文檔中,我們將指導用戶了解如何在 Windows Server 2022 中為 Qsan 存儲配置 MPIO。雖然 MIPO 驅動程序也可以在 Qsan 存儲服務安裝程序中使用,但我們強烈建議 客戶在 Windows Server 2022 中使用多路徑 I/O 而不是 Qsan MPIO 驅動程序。

Environment

Host OS	Windows Server 2022
Storage	XS3324D/XF2026D/XF3126D
Firmware	V2.2.0
RAM	16GB
iSCSI data port	192.168.175.70/24 192.168.175.70/24

Topology





CONFIGURATION

1. 登入 XEVO 管理頁面。

CSAN XEVO	
admin	
Login	



OSAN	XEV	'O XF2026	-F9A700									≑ ∷ ⊕ 0	Hi, admir
Dashbo	oard	Storage	Hosts	Protection	Analysis	System	Messag	es					
					Arrays	Setti	ngs	Data Ports	Maintenance	Data Encryption			
Data	Port O	verview											
			CTR	Slot 1		Slot 2		Onboard	CTRL 2 88 88	Slot 2	Onboard ᅀ		
¢	iso	SI Port	s										^
		CTRL	Interface	Location	Port	Status	LAG	IP Address	Gateway	VLAN ID	Jumbo Frame	MAC Address	
-	5	1 i	iSCSI (10Gb)	Onboard	LAN1	1 Gb/s	N/A	192.168.175.70		N/A	Disabled	00:13:78:f9:a7:02	
e	5	1 i	iSCSI (10Gb)	Set IP Address	LAN2	Down	N/A	8.8.8.8		N/A	Disabled	00:13:78:f9:a7:03	
- e	5	2	iSCSI (10Gb)	Set Link Aggregatio	n LAN1	1 Gb/s	N/A	192.168.175.71		N/A	Disabled	00:13:78:f9:a7:0c	
e	5	2	iSCSI (10Gb)	Set Default Gateway	LAN2	Down	N/A	192.168.12.1	192.168.12.254	N/A	Disabled	00:13:78:f9:a7:0d	
4			_	Set VLAN ID									Þ
				Set Jumbo Frame									
6	iso	SI Setti	ings	Ping Host									~

2. 至 System 中的 Data Ports 中的 iSCSI Ports, 點擊 set IP address。

3. 將控制器 1 LAN1 IP 設定為 192.168.175.70/24。

	Set IP Address	
O DHCP 👔		
 Static 		
IP Address	192.168.175.70	
Subnet Mask	255.255.255.0	
Gateway		
	C	ancel Apply

4. 將控制器 2 LAN1 IP 設定為 192.168.175.71/24。

	Set IP Address	
O DHCP 2		
 Static 		
IP Address	192.168.175.71	
Subnet Mask	255.255.255.0	
Gateway		
		Cancel Apply

5. 打開"cmd"確認是否能夠 ping 到設定的 IP。



6. 打開 Server Manager 並點擊 Add Features。

Server Ma	nager • Dashboard		- 🕄 🚩 Manage	Tools View Help
III Dashboard	WELCOME TO SERVER MANAGER			
■ Local Server ■ All Servers ■ File and Storage Services ▷	QUICK START	es manage		
	WHAT'S NEW 4 Create a server group 5 Connect this server to LEARN MORE ROLES AND SERVER GROUPS Roles: 1 Server groups: 1 Servers total: 1	p o cloud services		Hide
	File and Storage 1 Services 1 Manageability Imageability Events Events Services Performance BPA results BPA results	r 1 ty All Servers Ty Events Services Performance BPA results	1	

7. 至 Feature 將 Multipath I/O 打勾,點擊 next 安裝 MPIO。





8. 回到管理頁面建立 Pool、Volume、HostGroup,並將 "Volume_01"掛載至 HostGroup。

CSAN XEVO xf2026-f9A700					🗮 🚻 🔀 🖉 Hi, admin
Dashboard Storage Ho	sts Protection Analysis System Messages				
చిం Host Groups +	Host Group HostGroup_001 #				
iSCSI	Volumes 1 Hosts 1				
HostGroup_001	Enabled Data Ports 4				
	CTRL Target Name	Alias	Slot 1	Slot 2	Onboard
	1 iqn.2004-08.com.qsan:xf2026-000f9a700:dev1.ctr1 🏟	-			**
	2 iqn.2004-08.com.qsan:xf2026-000f9a700:dev1.ctr2 🂠	-			**
	⁰₀ Host Profile				~
	Connected Volumes				^
					1 items 次 🕇
	! Volume Name	Capacity	LUN	Volume Type	
	Volume_01 🏟	500.00 GB	0	RAID Volume	

9. 以 XF2026D 為例,使用 iSCSI Initiator 將 XF2026D 的 LUN 連線至 Windows

Server °

Nutrition Nutrition States Stat	ets Discovery Favorite Targets Volumes and De	evices RADIUS Configuration	Advanced Settings	?	
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10. iSCSI Initiator 登錄成功後,可以在設備管理員中查看"QSAN XF2026 SCSI Disk Device",當 MPIO 被禁用時,它會顯示兩個 Disk Device。



11. 在新增 Multipath I/O feature 後, 可以在伺服器管理員的 Tool 中找到"MPIO"。



12. 在 MPIO Properties 視窗, 至"Discover Multi-Paths" label 選取 "QSAN XF2026" · 確 認有勾選 "Add support for iSCSI devices" 後點擊"Add" 以套用設定。

MPIO Properties		×
MPIO Devices Discover Multi-Paths	DSM Install	Configuration Snapshot
SPC-3 compliant		
Device Hardware Id		
QSAN XF2026		
Add support for iSCSI devices Add support for SAS devices		
		Add
Others		
Device Hardware Id		
		Add
		OK Cancel



13. 在裝置管理員中,確認掛載的 LUN 從兩個裝置變為 "Multi-Path Disk Device",和先前 Windows OS 相比並不需要重啟才能夠產生作用。

🔄 Computer Management —	\Box \times
File Action View Help	
🔠 Computer Management (Local 🗸 🗄 WIN-6QSD1CQR0UG Actions	
V 👫 System Tools Device Manager	5
> (3) Task Scheduler Disk drives	4
Id Event Viewer Image: Starde Folder: Starde Folder:	4
> So Local Users and Groups > Display adapters	
> @ Performance > @ DVD/CD-ROM drives	
🛃 Device Manager 🔰 > 👼 Human Interface Devices	
✓ Estorage > The ATA/ATAPI controllers	
> 🚯 Windows Server Backur > 🧮 Keyboards	
T Disk Management > U Mice and other pointing devices	
Services and Applications Services and Applications Image: Monitors Image: Monitor Services Image: Monitors	
> Vetwork adapters	
> Print queues	
> Processors	
> J Software devices	
> Storage controllers	
> 🏣 System devices	
> 🏺 Universal Serial Bus controllers	



14.可以在 "Disk Management" 右鍵選取 "Multi-Path Disk Device" 的屬性,可以在此修 改 MPIO Policy。



結論

MPIO 功能是 Windows Server 2022 的內建功能,需要在使用前啟用和配置。 無需重啟 服務器即可生效。 與以前版本的 Microsoft Server 操作系統相比是一個優勢。

適用於

XS3324D/XF2026D/XF3126D



XEVO Software Manual



ANNOUNCEMENT

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APPENDIX

Related Documents

There are related documents which can be downloaded from the website.

- <u>All XCubeSAN Documents</u>
- XCubeSAN QIG (Quick Installation Guide)
- <u>XCubeSAN Hardware Manual</u>
- XCubeSAN Configuration Worksheet
- XCubeSAN SANOS 4.0 Software Manual
- <u>Compatibility Matrix</u>
- White Papers
- Application Notes

Technical Support

- Do you have any questions or need help troubleshooting a problem? Please contact QSAN Support, we will reply to you as soon as possible.
- Via the Web: <u>https://www.qsan.com/en/contact_support.php</u>
- Via Telephone: +886-2-7720-6355 (Service hours: 09:30 18:00, Monday Friday, UTC+8)
- Via Skype Chat, Skype ID: <u>qsan.support</u> (Service hours: 09:30 02:00, Monday -Friday, UTC+8, Summertime: 09:30 - 01:00)
- Via Email: <u>support@qsan.com</u>

