How to enable MPIO in Windows Server 2022

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

In this document, we will guide users to understand how to configure MPIO for Qsan storage in Windows Server 2022. Although the MIPO driver is also available in the Qsan Storage Service installer, we strongly recommend that the customers use the Multipath I/O in the Windows Server 2022 instead of the Qsan MPIO driver.
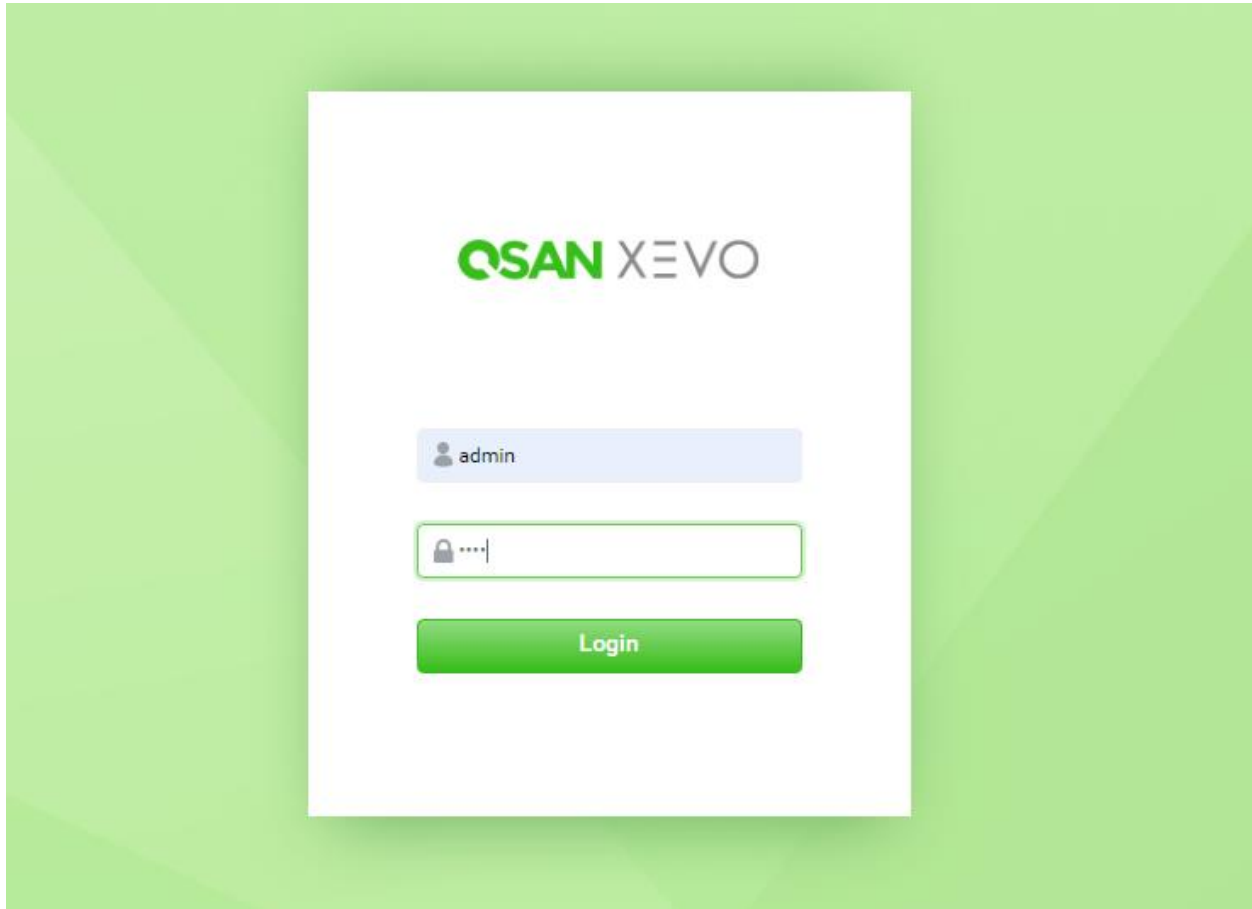
Environment

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

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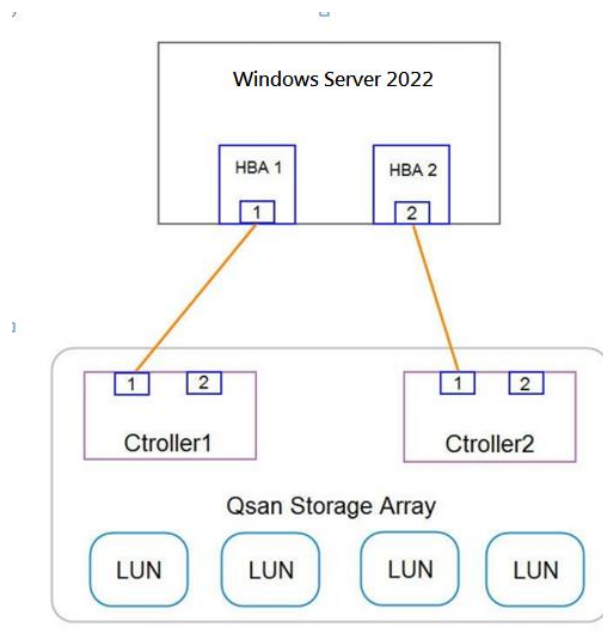
CONFIGURATION

1. Login XEVO UI.

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2. In **System** tab, go to Data Ports to iSCSI Ports, and click set IP address.

3. Set IP address of controller1 LAN1 to 192.168.175.70/24.

Configuration
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4. Set IP address of controller2 LAN1 to 192.168.175.71/24.

5. Open "cmd" to confirm that you can ping to the set IP.

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6. Open the Server Manager window, and click Add Features.
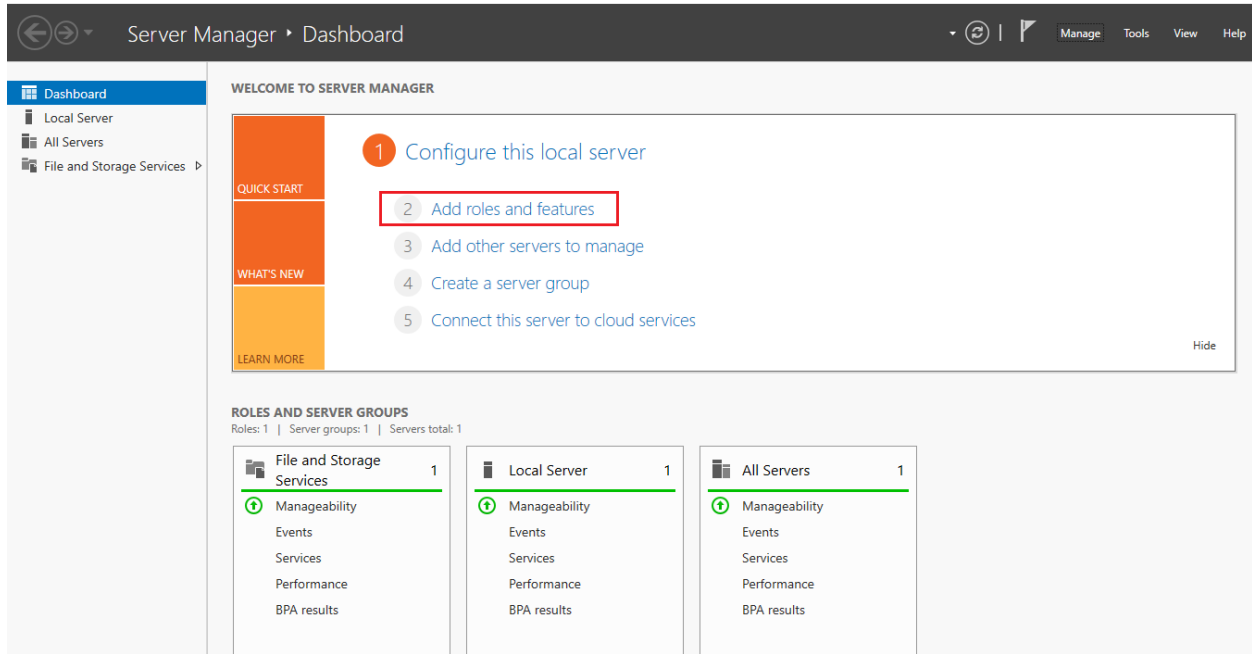
7. Check the item of Multipath I/O, and click Next button below to install this new feature.

Configuration
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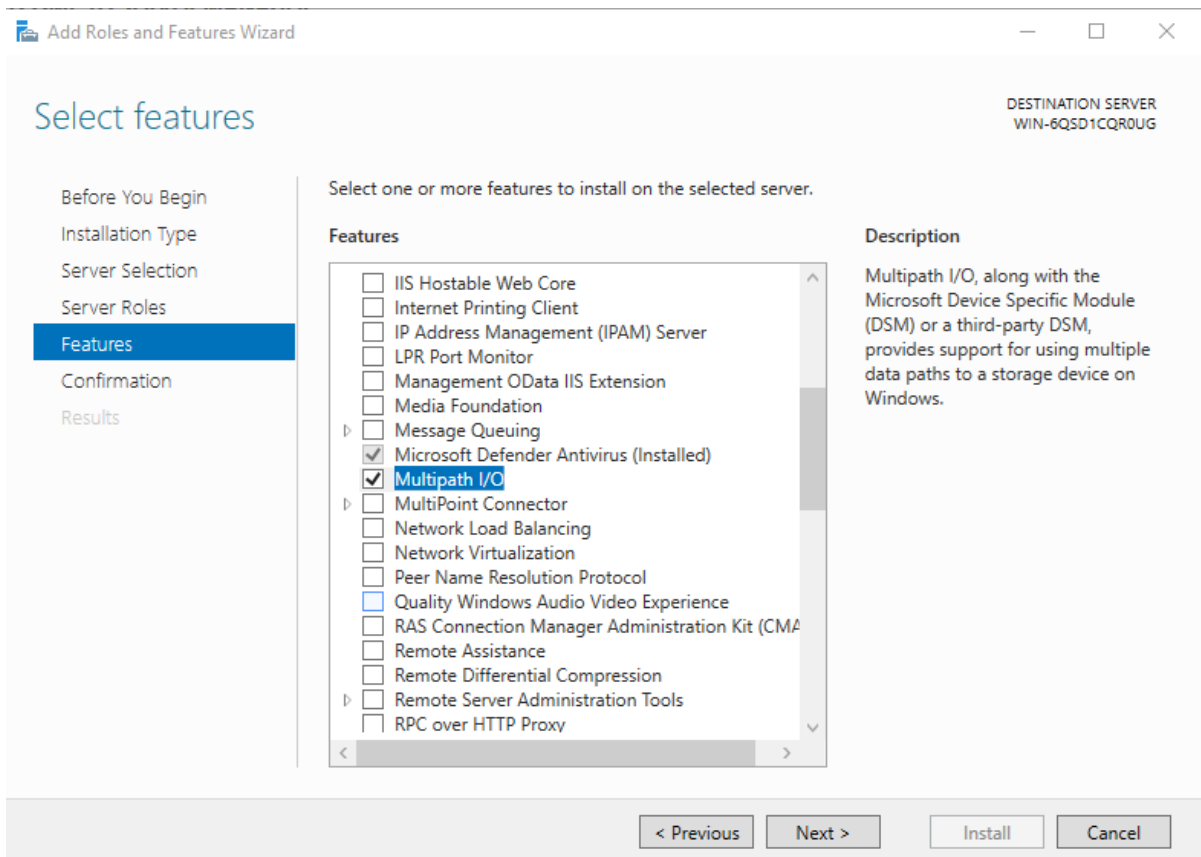
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8. Create pool and volume and hostgroup, and map LUN "Volume_01".

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9. For the iSCSI storage like XF2026D, use the iSCSI Initiator to connect to the XF2026D with VD.
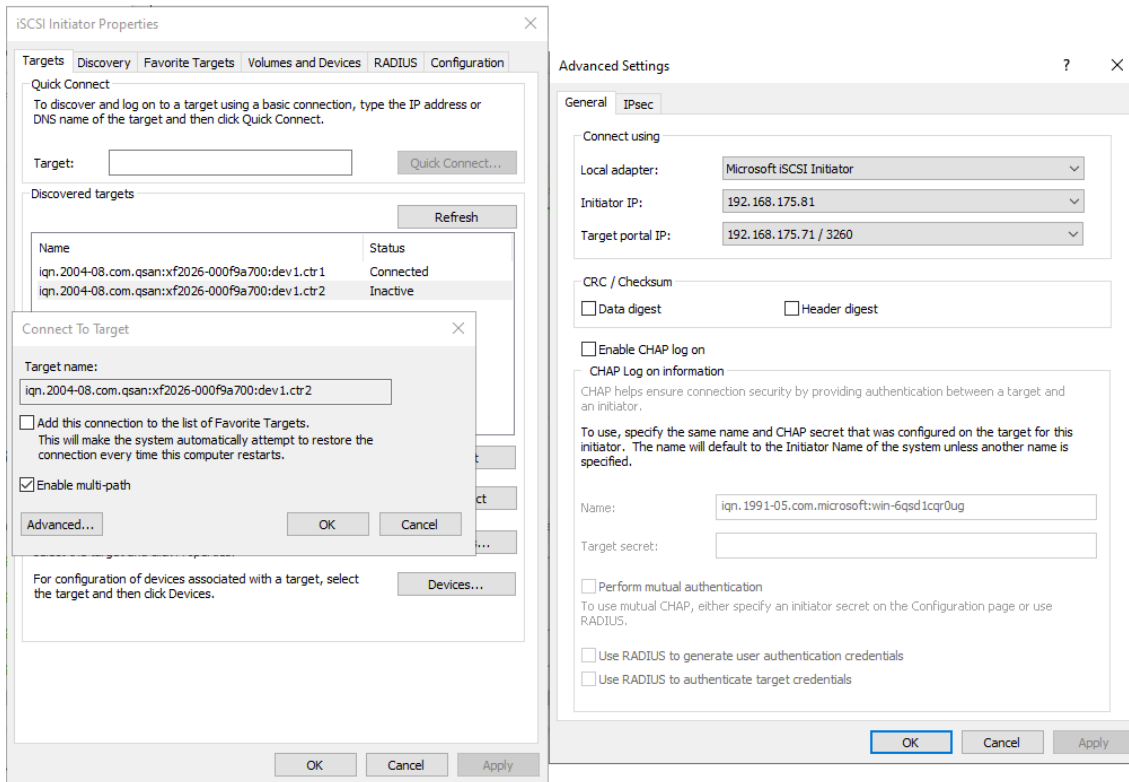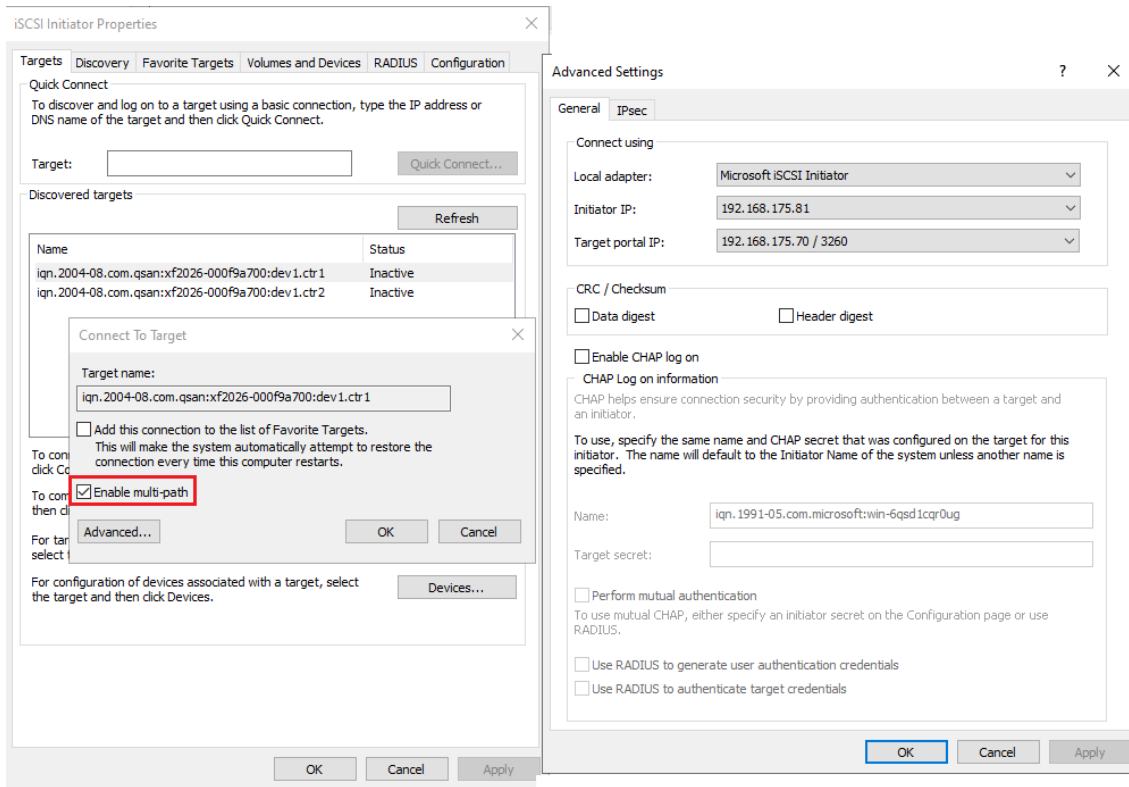
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10. We take XF2026D as example, after iSCSI initiator login success, you can check "QSAN XF2026 SCSI Disk Device" in device manger. When MPIO is disable, it will show two disk device.
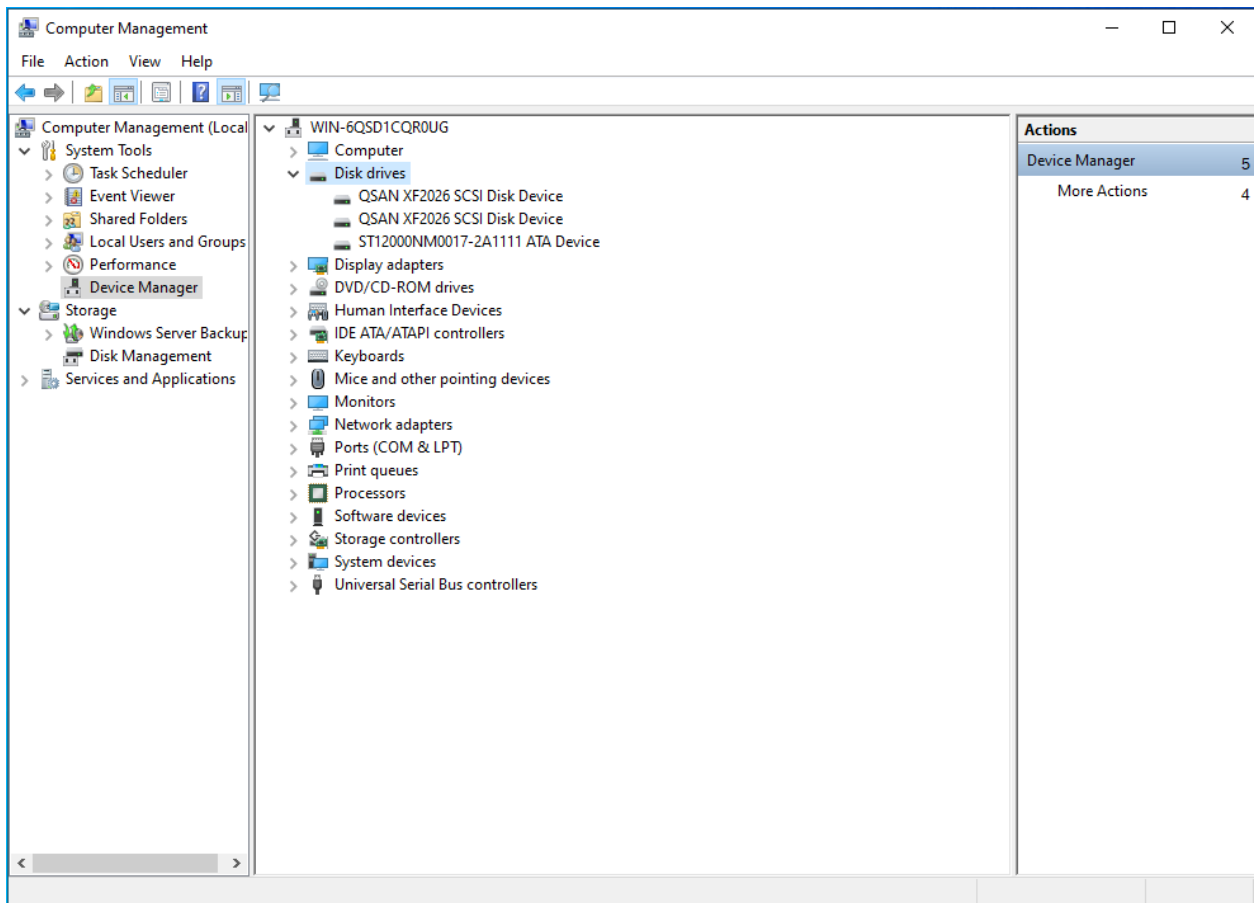
11. After adding the Multipath I/O feature, you can find MPIO in the tools of server manager.

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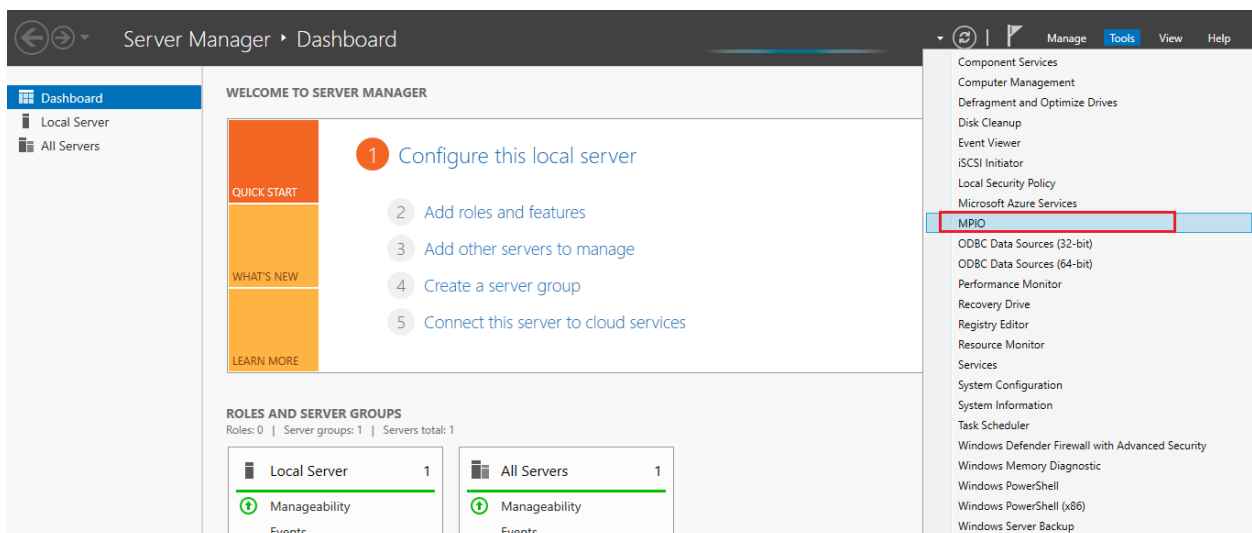
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12. In MPIO Properties window, switch to the label of "Discover Multi-Paths". Check the option of "Add support for iSCSI devices" and select "QSAN XF2026" and press "Add" button to take effect.

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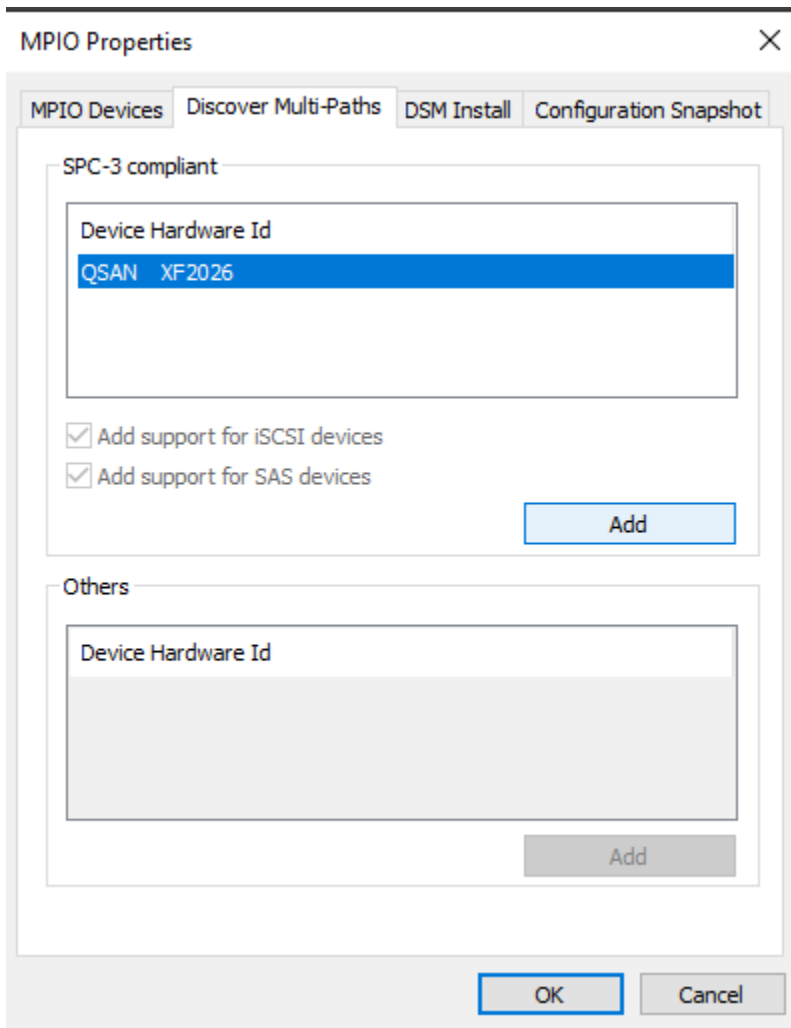
13. The iSCSI disk drive in "Device Manager" becomes a multi-path disk device now. It does not need to reboot server to take effect.

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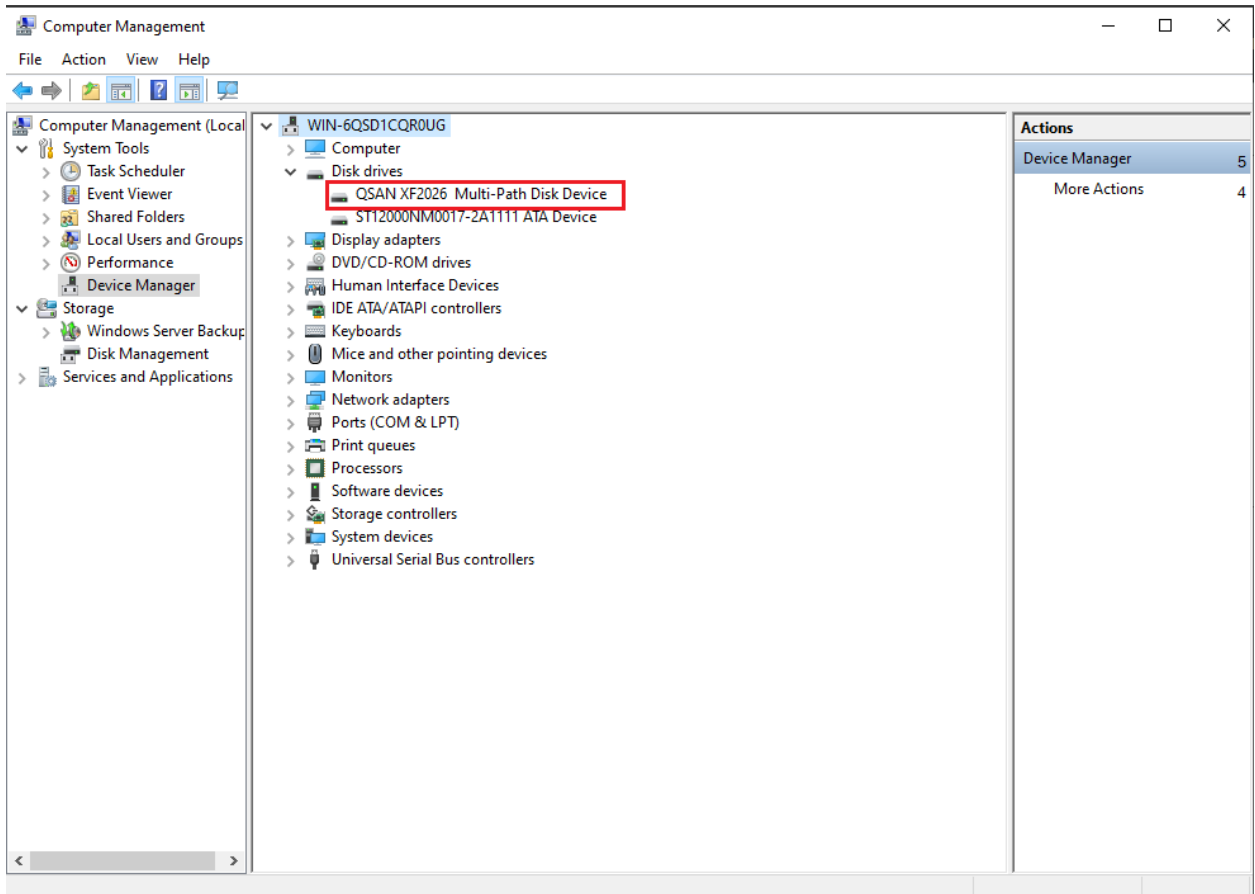
14. The multipath policy could be specified by right clicking on the multi-path disk device in the "Disk Management", and then select Properties. In MPIO label, the load balance policy could be modified here.
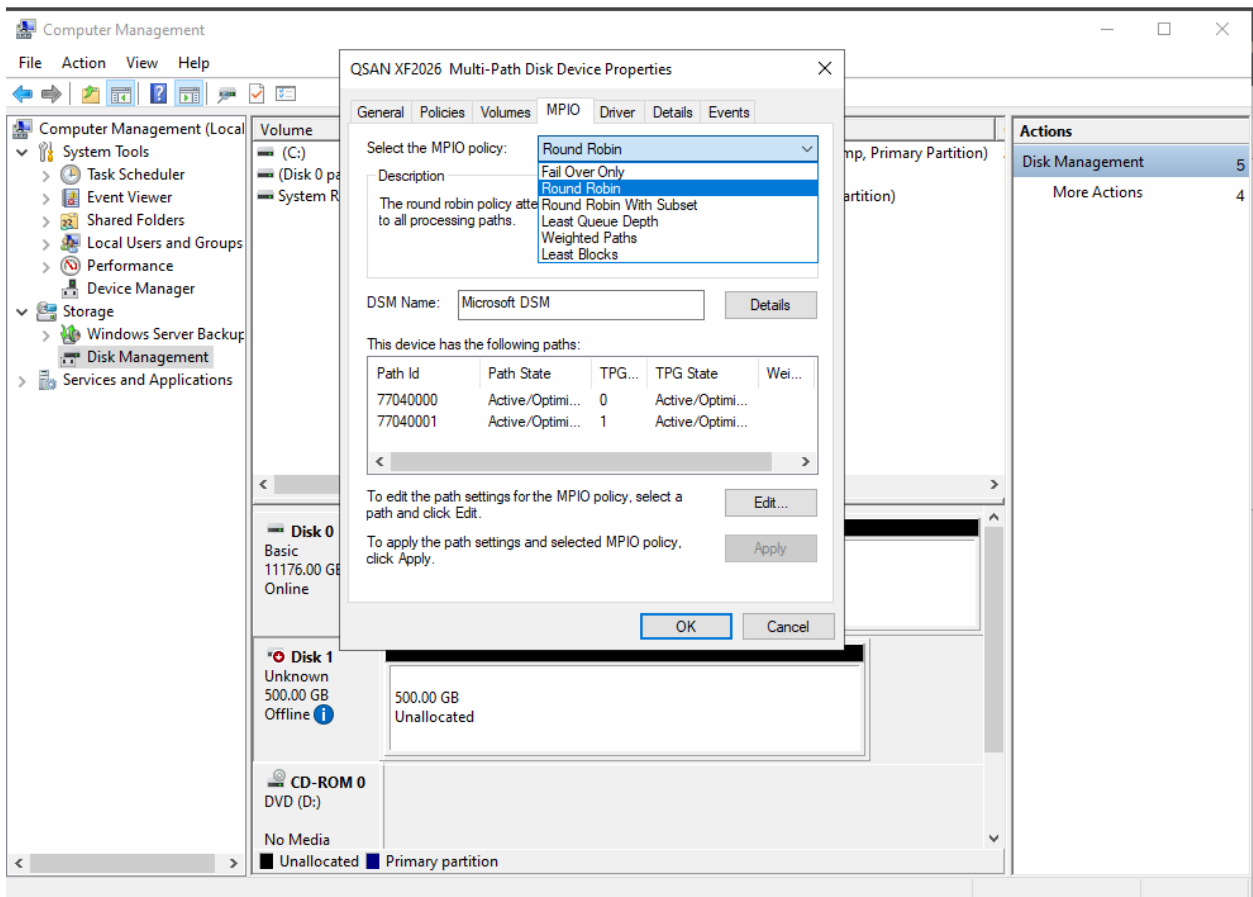
Conclusion

The MPIO function is a build-in feature of Windows Server 2022 and needs to be enable and configured before using it. It took effect without reboot server. This is a advantage compared with the previous version of Microsoft Server operating systems.

Apply To

XS3324D/XF2026D/XF3126D

References

XEVO Software Manual

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APPENDIX

Related Documents

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

- All XCubeSAN Documents
- XCubeSAN QIG (Quick Installation Guide)
- XCubeSAN Hardware Manual
- XCubeSAN Configuration Worksheet
- XCubeSAN SANOS 4.0 Software Manual
- Compatibility Matrix
- 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: https://www.qsan.com/en/contact_support.php
- Via Telephone: +886-2-7720-6355 (Service hours: 09:30 - 18:00, Monday - Friday, UTC+8)
- Via Skype Chat, Skype ID: qsan.support (Service hours: 09:30 - 02:00, Monday - Friday, UTC+8, Summertime: 09:30 - 01:00)
- Via Email: support@qsan.com

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