

SureStaQ Quick Start Guide

Introduction	1
CommServe and Media Agent Server Configurations	4
QXS System Configurations.	8
Server and QXS Install Documentation	9
Server and QXS Installation Process	1
Contacting Quantum	28

Introduction

This section provides the following information:

- <u>QXS OBC Profiles and Documentation</u>
- Servers and QXS Storage

QXS OBC Profiles and Documentation	A letter wa the QXS O	r was included with your SureStaQ components that provides a URL for S One Button Configuration (OBC) profiles and an OBC Installation Guid			
	Caution:	This document assumes that you are familiar with installing solutions similar to SureStaQ.			
		If you do not have this knowledge, please contact Quantum Professional Services. Refer to the <u>Contacting Quantum</u> section for additional information.			

COPYRIGHT STATEMENT

© 2018 Quantum Corporation. All rights reserved. Your right to copy this manual is limited by copyright law. Making copies or adaptations without prior written authorization of Quantum Corporation is prohibited by law and constitutes a punishable violation of the law. Artico, Be Certain (and the Q brackets design), DLT, DXi, DXi Accent, DXi V1000, DXi V2000, DXi V4000, DXiV-Series, FlexTier, Lattus, the Q logo, The Q Quantum logo, Q-Cloud, Quantum (and the Q brackets design), the SuperLoader, Symform, the Symform logo (and design), vmPRO, and Xcellis are either registered trademarks or trademarks of Quantum Corporation and its affiliates in the United States and/or other countries. All other trademarks are the property of their respective owners. Products mentioned herein are for identification purposes only and may be registered trademarks or trademarks of their respective companies. All other brand names or trademarks are the property of their respective owners. Quantum specifications are subject to change.



QXS OBC Profiles

Refer to the following URL for the OBC profiles:

https://qsweb.quantum.com/downloads/qxs_surestaq_obc.html

Note: The QXS OBC profiles are identified as the Firmware Bundle and is the 5-01225-01_RevA_QXS_SureStaq_QSP_commvault_7.3.bin file.

Documentation

Refer to the following URL for documentation:

http://www.quantum.com/surestaqdocs

The URL contains the following QXS data:

- SureStaQ Quick Start Guide
- SureStaQ Commvault One Button Configuration QXS Profile Bundle Installation Guide
- SureStaQ Xcellis Application Director For Commvault CommServe Guide (R430 Server)
- SureStaQ Xcellis Application Director For Commvault Media Agent Guide (R730 Server)

Servers and QXS Storage Use this SureStaQ Quick Start Guide to familiarize yourself with the type of servers and QXS storage available for SureStaQ.

Note: All server and QXS components are identified by the box labeling.

Servers available are:

- CommServe server
 - Dell PowerEdge R430
 - 1U chassis, Figure 1
- Media Agent server
 - Dell PowerEdge R730xd
 - 2U chassis, Figure 2

Figure 1 CommServe Server (R430) with Bezel



Figure 2 Media Agent Server (R730xd) with Bezel



QXS storage systems available are (Figure 3):

- QXS-312 System
 - 12-drive slots
 - 2U chassis
- QXS-456 System
 - 56-drive slots
 - Note: QXS-456 SureStaQ Systems use 42 drive slots.
 - 4U chassis

Figure 3 QXS Storage Systems

12-Drive Chassis

5				
()) ()) ())				
2				

56-Drive Chassis



CommServe and Media Agent Server Configurations

This section provides information about the following CommServe and Media Agent server configurations:

- CommServe Server (R430)
- Media Agent Server (R730xd)

CommServe Server (R430)	The SureStaQ Xcellis Application Director For Commvault CommServe uses the Dell R430 server.		
	<u>Figure 4</u> provides a front view of the 1U server without a bezel installed. The server accommodates a total of 10 drives (2.5").		
	Note: This is a representative example of the R430 server; components within your server may be different.		

Figure 4 R430 1U Server



Table 1 R430 Server Configurations Table 1 provides applicable R430 server configurations.

Configuration	Enterprise	Data Center/Workgroup
Platform	R430 2.5" SSD	R430 2.5" SSD
CPU Details	2xE5-2620 v4	2xE5-2620 v4
Memory 8x8GB RDIMM, 2400MT/s, Single Rank, x8		8x8GB RDIMM, 2400MT/s, Single Rank, x8
RAID Controller	PERC H730 RAID Controller, 1GB NV Cache	PERC H730 RAID Controller, 1GB NV Cache
OS - System Drive	2x400GB SSD RAID 1	2x400GB SSD RAID 1
CommServe DB	2x400GB SSD RAID 1	2x400GB SSD RAID 1
Integrated NIC	4 x Broadcom 5720 QP 1GbE LOM	4 x Broadcom 5720 QP 1GbE LOM
OS (CAL not included)	Windows Server® 2012 R2, No CAL	Windows Server® 2012 R2, No CAL
idrac	Enterprise	Enterprise
Power Cords	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA

Configuration	Enterprise	Data Center/Workgroup
Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1), 495W	Dual, Hot-plug, Redundant Power Supply (1+1), 495W
Rails	ReadyRails, Sliding Rails Without Cable Management Arm	ReadyRails, Sliding Rails Without Cable Management Arm

Media Agent Server (R730xd)

The SureStaQ Xcellis Application Director For Commvault Media Agent uses the Dell R730xd server.

<u>Figure 5</u> provides a front view of the 2U server without a bezel installed. The server accommodates a total of 24 drives (2.5").

Note: This is a representative example of the R730xd server; components within your server may be different.

Figure 5 R730xd 2U Server



The server's configurations are as follows:

- Medium
- Large
- Large Extended Mode
- X-Large
- X-Large Extended Mode

Table 2 R730xd Server Configurations (M, L, LEM) <u>Table 2</u> provides applicable R730xd server information for Medium, Large, and Large Extended Mode configurations.

Configuration	Medium	Large	Large Extended Mode
Platform	2U R730xd XL 24 slot	2U R730xd XL 24 slot	2U R730xd XL 24+2 slot
CPU Details	2xE5-2620 v4	2xE5-2620 v4	2xE5-2620 v4
Memory	8x4GB RDIMM, 2400MT/s, Single Rank, x8	8x8GB RDIMM, 2400MT/s, Single Rank, x8	8x16GB RDIMM, 2400MT/s, Single Rank, x8

Configuration	Medium	Large	Large Extended Mode
RAID Controller	PERC H730P RAID Controller, 2GB NV Cache	PERC H730P RAID Controller, 2GB NV Cache	PERC H730P RAID Controller, 2GB NV Cache
OS SSD RAID Config #1 3DWPD	2x400GB SSD RAID 1	2x400GB SSD RAID 1	2x400GB SSD RAID 1
Index Cache SSD RAID Config #2 3DWPD	4x400GB SSD RAID 5	6x400GB SSD RAID 5	6x400GB SSD RAID 5
DDB SSD RAID Config #3 3DWPD	4x400GB SSD RAID 5	6x400GB SSD RAID 5	6x400GB SSD RAID 5
DDB 2 SSD RAID Config #4 3DWPD	None	None	6x400GB SSD RAID 5
NDC	Intel X520 DP 10Gb SR/ SFP+, + I350 DP 1Gb Ethernet, NDC, w SR Optics	Intel X520 DP 10Gb SR/ SFP+, + I350 DP 1Gb Ethernet, NDC, w SR Optics	Intel X520 DP 10Gb SR/ SFP+, + I350 DP 1Gb Ethernet, NDC, w SR Optics
Default HBA	Qlogic 2662, Dual Port 16GB Fibre Channel HBA, LP	Qlogic 2662, Dual Port 16GB Fibre Channel HBA, LP	Qlogic 2662, Dual Port 16GB Fibre Channel HBA, LP
OS (CAL not included)	Windows Server® 2012, Standard, 16CORE, Factory Inst, No MED, NO CAL	Windows Server® 2012, Standard, 16CORE, Factory Inst, No MED, NO CAL	Windows Server® 2012, Standard, 16CORE, Factory Inst, No MED, NO CAL
idrac	Enterprise	Enterprise	Enterprise
Support	39mo x 4hr	39mo x 4hr	39mo x 4hr
Power Cords	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA
PSU	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	Dual, Hot-plug, Redundant Power Supply (1+1), 750W
Rails	ReadyRails Sliding Rails	ReadyRails Sliding Rails	ReadyRails Sliding Rails

Table 3 R730xd Server Configurations (XL & XL Extended Mode) <u>Table 3</u> provides applicable R730xd server information for Extra Large and Extra-Large Extended Modes configurations.

Configuration	X-Large	X-Large Extended Mode
Platform	2U R730xd XL 24 slot	2U R730xd XL 24+2 slot
CPU Details	2xE5-2620 v4	2xE5-2620 v4
Memory	8x16GB RDIMM, 2400MT/s, Dual Rank, x8	8x16GB RDIMM, 2400MT/s, Dual Rank, x8

Configuration	X-Large	X-Large Extended Mode
RAID Controller	PERC H730P RAID Controller, 2GB NV Cache	PERC H730P RAID Controller, 2GB NV Cache
OS SSD RAID Config #1 3DWPD	2x400GB SSD RAID 1	2x480GB SSD RAID 1 (flex bay)
Index Cache SSD RAID Config #2 3DWPD	8x400GB SSD RAID 5	8x400GB SSD RAID 5
DDB SSD RAID Config #3 3DWPD	8x400GB SSD RAID 5	8x400GB SSD RAID 5
DDB 2 SSD RAID Config #4 3DWPD	None	8x400GB SSD RAID 5
NDC	Intel X520 DP 10Gb SR/SFP+, + I350 DP 1Gb Ethernet, NDC, w SR Optics	Intel X520 DP 10Gb SR/SFP+, + I350 DP 1Gb Ethernet, NDC, w SR Optics
Default HBA	Qlogic 2662, Dual Port 16GB Fibre Channel HBA, LP	Qlogic 2662, Dual Port 16GB Fibre Channel HBA, LP
OS (CAL not included)	Windows Server® 2012, Standard, 16CORE, Factory Inst,No MED, NO CAL	Windows Server® 2012, Standard, 16CORE, Factory Inst,No MED, NO CAL
iDRAC	Enterprise	Enterprise
Support	39mo x 4hr	39mo x 4hr
Power Cords	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA	2xC13 to C14, PDU Style, 12 AMP, 2 Feet (.6m) Power Cord, NA
PSU	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	Dual, Hot-plug, Redundant Power Supply (1+1), 750W
Rails	ReadyRails Sliding Rails	ReadyRails Sliding Rails

QXS System Configurations

The QXS-312 and QXS-456 storage systems are used in SureStaQ. There are four different configurations. Refer to <u>Table 4</u> for the four configurations.

<u>Figure 6</u> provides a front view of the QXS-312 system without a bezel installed. The system accommodates a total of 12 drives (max).

Figure 6 QXS-312 System (without bezel)



<u>Figure 7</u> provides a front view of the QXS-456 system without a bezel installed. The system accommodates a total of 56 drives (max).

There are two drawers on the front of the chassis that contain up to 28 drives (max in each drawer).

Note: QXS-456 SureStaQ systems uses only 42-drive slots. Drives should be distributed equally between each drawer.

Figure 7 QXS-456 System (without bezel)



Table 4 QXS Configurations

<u>Table 4</u> provides the applicable QXS storage systems small, medium, large, and X-large configurations.

Configuration	Small	Medium	Large	X-Large
Base Chassis	QXS-312	QXS-312	QXS-456	QXS-456
Height	2U	2U	4U	4U
Drive Slots	12	12	56	56
Drives Used/Size	12x4TB	12x8TB	42x4TB	42x8TB
Total Storage Capacity	48TB	96TB	168TB	336TB
RAID-6 Groups (8+2)	1	1	4	4
Hot Spares	2	2	2	2
*Functional Storage Capacity	32TB	64TB	128TB	256TB

*Note: Functional Storage Capacity is Total Storage Capacity minus the capacity used by RAID parity drives and hot spares.

Server and QXS Install Documentation

Caution: Many of the server and QXS system components are static-sensitive, and require ESD precautions during installation.

Comply with all safety precautions.

This section provides the following information for installation of applicable server and QXS storage systems:

- <u>CommServe Server (R430) Documentation</u>
- Media Agent Server (R730xd) Documentation
- <u>QXS Storage Systems Documentation</u>

Note: Identify which server and QXS system you purchased. There is specific documentation for each of the particular systems.

CommServe Server (R430) Documentation

The CommServe server (R430) documentation can be accessed at: www.quantum.com/surestaqdocs

Refer to the SureStaQ Xcellis Application Director For Commvault CommServe Guide (R430 Server), Doc number: 6-68617-01.

The document contains the following information:

- About your system
- Performing initial system configuration
- Pre-operating system management applications
- Installing and removing system components
- Troubleshooting your system
- Using system diagnostics
- Jumpers and connectors
- Technical specifications
- Getting help

Media Agent Server	The N
(R730xd)	WWW
Documentation	Refer
	Guid

The Media Agent server (R730xd) documentation can be accessed at: www.quantum.com/surestaqdocs

Refer to the SureStaQ Xcellis Application Director For Commvault Media Agent Guide (R730 Server), Doc number: 6-68618-01.

The document contains the following information:

- Dell PowerEdge R730 system overview
- Technical specifications
- Initial system setup and configuration
- Pre-operating system management applications
- Installing and removing system components
- Using system diagnostics
- Jumpers and connectors
- Troubleshooting your system
- Getting help

QXS Storage Systems Documentation

QXS storage systems documentation can be accessed at: www.quantum.com/qxshybriddocs

Refer to the following documents for installation of the QXS-312 and QXS-456 systems.

- One Button Configuration QXS Profile Bundle Installation: Doc number: 6-68599-01
- QXS Site Planning Guide: Doc number: 6-68547-01
- QX and QXS Getting Started Guide, Doc number: 6-68386-01
- QXS Gx222P0xx Release Notes, Doc number: 6-68398-01
- QX and QXS Setup Guide, Doc number: 6-68389-01
- QX and QXS 12- and 24-Drive Rackmount Bracket Kit Install Guide, Doc number: 6-68390-01
- QXS 56-Drive Rackmount Bracket Kit Install Guide, Doc number: 6-68392-01
- QX and QXS CLI Reference Guide, Doc number: 6-68385-01
- QXS Disk Management Utility User Guide V3, Doc number: 6-68388-01
- QX and QXS Bezel Installation Guide, Doc number: 6-68393-01

Server and QXS Installation Process

This section provides the installation process for the server(s) and QXS storage.

- <u>Rack and Stack Server(s) and QXS Storage</u>
- <u>Configuring QXS Storage</u>
- Login into the Disk Storage Management Utility
- <u>Provision QXS Storage</u>
- <u>Setup XAD Server</u>
- Install/Enable Multipath I/O

SureStaQ Quick Start Guide 6-68619-01 Rev D January 2018

Figure 8 Rack and Stack Server(s) and QXS Storage



Rack and Stack Server(s) and OXS	This section provides applicable rack and stack procedures.					
Storage	Caution: Do not power on any of the server(s) or QXS storage after the units are racked and stacked. Refer to <u>Configuring QXS Storage</u> .					
	Use the following applicable documents to rack and stack the server(s) and QXS storage.					
	 SureStaQ Xcellis Application Director For Commvault CommServe Guide (R430 Server), Doc Number: 6-68617-01 					
	 SureStaQ Xcellis Application Director For Commvault Media Agent Guide (R730 Server), Doc Number: 6-68618-01 					
	 QX and QXS 12- and 24-Drive Rackmount Install Guide, Doc number: 6-68390-01 					

• QXS 56-Drive Rackmount Install Guide, Doc number: 6-68392-01

Configuring QXS Storage **Note:** For additional information, refer to the following documentation as needed:

QXS Disk Management Utility User Guide V3, Doc number: 6-68388-01 QX and QXS Setup Guide, Doc number: 6-68389-01

Complete the following process:

- 1 Configure the QXS storage first.
 - a Change the laptop IP address to 10.0.0.x.
 - **b** Controller A and B default IP address is:
 - Controller A: 10.0.0.2
 - Controller B: 10.0.0.3
- **2** Connect a computer to the management port on the back of the QXS storage.

Figure 9 QXS-312 chassis (rear view)

<u>Figure 9</u> provides a representative example of the QXS-312 chassis (rear view showing the management port on controller A/B).



1. Controller A

3. Controller B

2. Management Port (Controller A)

4. Management Port (Controller B)

Figure 10 QXS-456 chassis (rear view)

Figure 10 provides a representative example of the QXS-456 chassis (rear view showing the management port on controller A/B).



- 10.0.0.3 for the port on controller B.

Login into the Disk Storage Management Utility

Figure 11 Disk Storage Management Utility Login Screen

- 1 Login into the Disk Storage Management Utility (Figure 11).
 - a Enter the default login user name: manage
 - b Enter the default login password: !manage



Figure 12 Home Button

2 In the QXS GUI, hover the mouse over the "Home" icon on the left pane and select "Configuration Wizard".



- a Click Next.
- **b** Set the time manually or point to the NTP server.
- **c** Optional: If you want to change the management password, do so at this step.

Figure 13 Configure Network IPs

d	Configure the Network IPs.

Configuration Wizard		
Configure basic settings for system oper	ation.	?
Step 4 of 9: Network configuration	n	
Configure Internet Protocol (IP) address (DHCP). In DHCP mode, IP values are of	settings for each controller's network port. You can set static IP values or use Dynamic Host Configuration Protocol obtained from a DHCP server if one is available. If a DHCP server is unavailable, current IP values are unchanged.	
Caution: Changing IP settings can cause	e management hosts to lose access to the storage system.	
You can change these later from the Sys	stern Topic by selecting Action > Set Up Network.	
IP address source: manual		
Controller A:	Controller B:	
IP address:* 10.0.0.2	IP address:* 10.0.0.3	
IP mask:* 255.255.255.0	IP mask:* 255.255.255.0	
Gateway:* 10.0.0.1	Gateway:* 10.0.0.1	
	Previous Next Cance	el
Introduction Date/Time F	Passwords Network Services System Info. Notification Ports Confirm	
	e Enable System Management Services (check/uncheck: normally left ;	as

- Enable System Management Services (check/uncheck: normally left as default).
- f Optional: Enter System and Contact Information.
- **g** Configure the Notification Setting (SMTP/Enable Email Notification/Logs).
- **h** Set the Port Configuration (FC/iSCSI/FC & iSCSI).
- i Click Confirm and the Finish buttons.

Provision QXS Storage	Complete the following to provision the QXS storage.
	Note: If you are using QXS storage, complete the following steps. If you are not using QXS storage, use the vendor-provided storage documentation.
	 Refer to <u>http://www.quantum.com/surestaqdocs</u> for One-Button Configuration (OBC) documentation to download and install the profile bundles.
	2 Refer to following URL to download the QXS OBC profiles. https://qsweb.quantum.com/downloads/qxs_surestaq_obc.html
	Note: The QXS OBC profiles are identified as the Firmware Bundle and is the 5-01225-01_RevA_QXS_SureStaq_QSP_commvault_7.3.bin file.
Figure 14 Provision Storage	3 In the QXS GUI OBC, hover the mouse over the Home icon on the left pane and select "Provision Storage".
	Overview Configuration Wizard Provision Storage

Figure 15 Select Profile

4 Select the profile for the correct pool and click **OK**.

Note: When the first pool/volume is created, two spares are also created. No further spares are generated as more pools/volumes are created.

When creating virtual pools on the QXS-456, with 42 drives installed, you must create 2 RAID-6 disk groups (8+2) for Virtual Pool A and 2 RAID-6 (8+2) disk groups for Virtual Pool B.

Provis	ion Storage		
Provi	sion storage by selecting a storag	e profile and enc	losure
a second	Profile	Vdisk	Chunk Size
0	Commvault 8+2 Virtual Pool A	RAID6	N/A
	Commvault 8+2 Virtual Pool B	RAID6	N/A
Enclo	isure: <u>Next avai</u>	able T	Cancel OK

Note: Currently, OBC creates the disk pools and volumes and creates the mappings. It creates the volume as a size of 173.9 GB, which needs to be manually expanded using the GUI to 63.9 TB.

On a QXS-456, there may be multiple volumes and you must manually expand all volumes before proceeding.

- 5 Complete the following process to expand the volumes.
 - a Click Volumes on left side pane.

Figure 16 Expanding Volumes

b Click and highlight the volume **commvault_Uninitialized_Name_L2**, then click **Action** and select **Modify Volume** in the drop-down menu.

Action	VOLUMES	
Create Virtual Volumes Create Linear Volumes	Clear Filters Show 10 V Showing 1-1 of 1 (1 selected)	
Create Snapshot Modify Volume	Group 👂 Name 🔺 🔌 Pool 👂 Type 👂 Size	Allocated
Copy Volume	- commvaut_Unintialized_Name_L2 A base 173.9GB	08
Rollback Volume Create Replication Set	Snapshots Maps Replication Sets Schedules	
Initiate Replication Map Volumes	Clear Filters Show 10 T Showing 1-1 of 1	
View Map Details	Group.Host.Nickname 🔺 🖉 Volume 🔺 🎤 Access 👂 LUN 🔌	Ports 🎤
Remove from Volume Group	All Other Initiators commvault_Uninitialized_Name_L2 read-write 2	0,1
Delete Volumes		
Rename Volume Group		
Remove Volume Group		
Reset Snapshot		
Manage Schedules		

- Figure 17 Expand By Box
- c In the Expand By field enter 63.75TB, click OK, and then the QXS is ready.

Modify Volume	
Volume: commvault_Uninitialize	ed_Name_L2
New Name:	
Size	
Current Size: 173.9GB	
Expand By: 63.7TB	
New Size: 63.9TB	
Volume Cache Settings ———	
Write Policy: Write-back	
Write Optimization: Standard	
Read Ahead Size: 16MB	
Tier Affinity: No Affinity	
	Cancel OK

Figure 18 Volumes Screen

Refer to Figure 18, Volumes screen, to verify that the volume was expanded.

	VOLUM	ES							
Clear Filters Show 10	Showing 1-1 of 1 (1 selected)								
Group 🎤 Name	▲ <i>"</i>	Pool	P	Туре	Siz	ze		Allocated	
- commvault_Uninitialized_N	lame_L2	А		base	63	.9ТВ)B	
Snapshots Maps Replication Sets	Schedules								
Clear Filters Show 10	Showing 1-1 of 1								
Group.Host.Nickname 🔺 🎤	Volume		-	Access	P	LUN	P	Ports	P
All Other Initiators	commvault_Uninitialized_Name_L2			read-write		2		0,1	

Note: Disk initialization process could take several hours. I/O performance could be impacted during initialization.

Setup XAD Server	Complete the following to set up the XAD server.	
	Note: For additional information, refer to the following documentation as needed:	;
	- SureStaQ Xcellis Application Director For Commvault CommServe Guide (R430 Server), Doc Number: 6-68617-01 - SureStaQ Xcellis Application Director For Commvault Media Agent Guide (R730 Server), Doc Number: 6-68618-01 - QX and QXS Setup Guide, Doc number: 6-68389-01	
	1 Cable the XAD server to the network and to the QXS controllers.	
	2 Power on the XAD server and follow the wizard.	
Figure 19 Settings Screen	3 Enter the country or region, applicable language, and keyboard layout. Settings Deutsch English Country or region United States App language English (United States)	
	Keyboard layout US	
	español français 한국어 日本語	

Next

SureStaQ Quick Start Guide 6-68619-01 Rev D January 2018

Figure 20 Accept Terms Screen	4	Click I Accept to accept the terms and conditions.	
	€	Settings	
		Please read the license terms.	
		MICROSOFT SOFTWARE LICENSE TERMS	
		MICROSOFT WINDOWS SERVER 2012 R2 STANDARD	
		These license terms are an agreement between you and:	
		\cdot the server manufacturer that distributes the software with the server; or	
		• the software installer that distributes the software with the server.	
		Please read them. They apply to the software named above, which includes the media on which you any. The terms also apply to any Microsoft:	received it, i
		· updates,	
		· supplements,	
		· Internet-based services, and	
		· support services	
		for this software, unless other terms accompany those items. If so, those terms apply. If you obtain u supplements directly from Microsoft, Microsoft, and not the manufacturer or installer, licenses those Printed paper license terms, which may come with the software, take the place of any on-screen licer	pdates or to you. nse terms.
		By using the software, you accept these terms. If you do not accept them, do not use the so Instead, contact the manufacturer or installer to determine its return policy for a refund or	ftware. credit
	÷		l accept

Figure 21 Set Password Screen

5 Set the administrator password, and click Finish.



6 The server reboots and comes back up, log in with the Administrator password and configure networking by going into network connections and configuring the IPv4 properties.

Install/Enable Multipath I/O	Complete the following to install/enable multipath I/O on the XAD server (MPIO features within Windows).

1 Open a Windows PowerShell session as an Administrator and run the following command to install Multipath I/O feature:

Add-WindowsFeature -Name "Multipath-IO"



Figure 23 Control Panel/MPIO Session

Figure 22 Windows

PowerShell Session

2 Open a Control Panel/MPIO session (Figure 23) through the Start menu or from the **Run** window, type **mpiocpl** as shown in Figure 24.



Figure 24 Run Window: **mpiocpl** Command



- Figure 25 Discover Multi-Paths Tab
- **3** Navigate to the Discover Multipaths tab and click **Quantum QXS**, and click **Add**.

· · · · · · · · · · · · · · · · · · ·
MPIO Devices Discover Multi-Paths DSM Install Configuration Snapshot
SPC-3 compliant
Device Hardware Id
Quantum Qx5
Add support for iSCSI devices
Add
Others
Device Hardware Id
Add
OK Cancel

Note: System software will prompt you to reboot the server.

Figure 26 Reboot Required Window 4 Click Yes on the Reboot Required window.



Figure 27 Disk Management for Windows

5 Open the **Disk Management** for Windows screen.

8	Disk Management								
File Action Vi	ew Help								
♦ ♦	F	F							
Volume	Layout	Type	File System	Status Cap	icity	Free Spa % Free			
•	Simple	Basic		Healthy (E 500	ИB	500 MB 100 %			
	Simple	Basic		Healthy (100	viB	100 MB 100 %			
	Simple	Basic	NTEO	Healthy (R 3.00	GB	3.00 GB 100 %			
	Simple	Basic	NTES	Healthy (P 328.	9 GB 97 CD	328.15 GB 100 %			
lodey Cache (Er)	Simple Simple	Basic	NTES	Healthy (P 1115 Healthy (D. 1119	.07 GD	1115.66 100 %			
	, Simple	Basic	NTES	Healthy (B., 40.0	168	18.17 GB 45 %			
	Simple	Danc	1411.5	Heading (bin 46.6	, 00	10.17 00 4570			
Disk 0									
Basic				OS (C:)	DATA	PART (D:)			
371.88 GB	500 MB	100 MB	3.00 GB	40.00 GB NTFS	328.29	GB NTFS			
Online	Healthy (EFI	Healthy	Healthy (Recove	Healthy (Boot, Page I	il Health	hy (Primary Partition)			
Disk 1									
Basic	Index Cache	(E:)							
1115.88 GB	1115.87 GB N	TFS							
Online	Healthy (Prim	ary Partition))						
Dick 2							1		
Basic									
1115.88 GB	1115.87 GB NT	TFS							
Online	Healthy (Prim	ary Partition))						
(C)								_	
Unknown									
59580.39 GB	59580.39 GB								
Offline 🕕	Unallocated								
📕 Unallocated 📕 Primary partition									

Figure 28 Disk 3 Pane: Online

a Right click **Disk 3** on the left pane and select **Online**.

- Disl	k 3	
Unk 505:	Online	
Offi	Properties	
	Help	
📕 Unal	located 📕 Primary pa	rtition

Figure 29 Disk 3 Pane: Initialize Disk **b** Right click **Disk 3** on the left pane and select **Initialize Disk**.

GDisk 3	
Unknown 59580.39 GB	Initialize Disk
Not Initialize	Offline
	Properties
	Help
📕 Unallocate	i mnary paradon

Figure 30 GPT (GUID Partition Table)

c Click GPT (GUID Partition Table) and click OK.

Initialize Disk					
You must initialize a disk before Logical Disk Manager can access it.					
Select disks:					
☑ Disk 3					
Use the following partition style for the selected disks:					
O MBR (Master Boot Record)					
GPT (GUID Partition Table)					
Note: The GPT partition style is not recognized by all previous versions of Windows.					
OK Cancel					



d Right click in the unallocated space and click New Simple Volume.

Disk 3 Basic 59580.27 GB Online	59580.27 G Unallocate	59580.27 GB Unallocated				
		New Simple Volume				
		New Spanned Volume				
	Drimon	New Striped Volume				
	Finary	New Mirrored Volume				
		New RAID-5 Volume				
		Properties	_			
		Help				

Figure 32 Simple Volume Size in MB

e Specify the size in the **Simple volume size in MB** field. Use max available space.

New Simple Volume Wizard				
Specify Volume Size Choose a volume size that is between the maximum and minimum sizes.				
Maximum disk space in MB:	61010194			
Minimum disk space in MB:	8			
Simple volume size in MB:	61010194 ~			
	< Back Next > Cancel			

Figure 33 Assign Drive Letter	f Assign a drive letter.
	New Simple Volume Wizard
	Assign Drive Letter or Path For easier access, you can assign a drive letter or drive path to your partition.
	 Assign the following drive letter: Mount in the following empty NTFS folder: Browse Do not assign a drive letter or drive path
	< Back Next > Cancel

Figure 34 Format Partition

g Provide a volume label, select Format this volume with the following settings to format the volume, and click Finish.

New Simple Volume Wizard				
Format Partition To store data on this partition, you must format it first.				
Choose whether you want to format this volume, and if so, what settings you want to use.				
O Do not format this volume				
 Format this volume with the 	e following settings:			
File system:	NTFS 🗸			
Allocation unit size:	Default 🗸			
Volume label:	CV_DATA			
Perform a quick format				
Enable file and folder compression				
	< Back Next > Cancel			

Figure 35 Explorer and Disk Management

6 When the partition completes formatting, the disk displays in explorer and disk management as online and one single drive.



Contacting Quantum

More information about this product is available on the Service and Support website at <u>http://www.quantum.com/ServiceandSupport/Index.aspx</u>. The Service and Support Website contains a collection of information, including answers to frequently asked questions (FAQs). You can also access software, firmware, and drivers through this site.

For further assistance, or if training is desired, contact the Quantum Customer Support Center:

United States	1-800-284-5101 (toll free) +1-720-249-5700
EMEA	+800-7826-8888 (toll free) +49-6131-3241-1164
АРАС	+800-7826-8887 (toll free) +603-7953-3010

For worldwide support:

http://www.quantum.com/ServiceandSupport/Index.aspx