

Application Notes Dec. 2017

Set up a VMware ESXi Datastore via NFS in QNAP Enterprise Storage



Notices

This user manual provides detailed instructions of using the QNAP Enterprise Storage NAS. Please read carefully and start to enjoy the powerful functions of the Enterprise Storage NAS.

- The QNAP Enterprise Storage NAS is hereafter referred to as the ES NAS or the NAS.
- This manual provides the description of all the functions of the ES NAS. The product you purchased may not support certain functions dedicated to specific models.

Legal Notices

All the features, functionality, and other product specifications are subject to change without prior notice or obligation. Information contained herein is subject to change without notice. QNAP and the QNAP logo are trademarks of QNAP Systems, Inc. All other brands and product names referred to are trademarks of their respective holders. Further, the [®] or [™] symbols are not used in the text.

Disclaimer

Information in this document is provided in connection with QNAP[®] products. No license, express or implied, by estoppels or otherwise, to any intellectual property rights is granted by this document. Except as provided in QNAP's terms and conditions of sale for such products, QNAP Assumes no liability whatsoever, and QNAP disclaims any express or implied warranty, relating to sale and/or use of QNAP products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right.



Table of Contents

NFS Introduction	4
	-
Use NFS Datastore in a vSphere Environment	5
Preparation for Installation	6
P Addresses	6
Confirmation before Configuration	7
Configure NFS Host Access Permissions	7
Add a NFS Datastore in vSphere Client	9
Add an NFS Datastore in vSphere Web Client 6.0	13
Add an NFS Datastore in vSphere Web Client 6.5	16



NFS Introduction

Network File System (NFS) is a distributed file system protocol that allows remote applications on other computers to access files over a network similar to how local storage is accessed. With NFS, you can bring the resources of the ES NAS to client platforms, providing the advantages of system-managed and high-performance storage, file access security, and centralized data access with the option of data encryption.

The following figure illustrates the client-server relationship in an NFS environment. Using NFS, the client can mount all or part of the remote file system and make it appear as part of the local file system. From there the client user can create, delete, read, write, and treat the NFS server-located files as part of the workstation's own file system. On NFS Client 1, /home/data/SrvShared is the directory in the local client file system where the shared folder. /share/SrvShared, is to be mounted.





Use NFS Datastore in a vSphere Environment

Since NFS is file-level storage, an NFS Datastore is ideal storage for file-level resource sharing. To use NFS as a shared repository, create a directory on the NFS server (i.e. ES NAS) and then mount it as a datastore on all hosts. The following diagram illustrates the deployment of NFA storage in a vSphere environment.



Note:

For better performance, a gigabit Ethernet adapter that transmits 1000 megabits per second (Mbps) is recommended for connection.



Preparation for Installation

We have learned that each of VMware hosts is able to connect to the ES NAS via NFS. And it allows you to mount an NFS volume and use it as if it were a Virtual Machine File System (VMFS) datastore, a special high-performance file system format that is optimized for storing virtual machines.

- Storage Device: QNAP ES NAS series with QES 1.1.4 (NAS operating system) or later.
- vSphere ESXi Host: VMware ESXi 6.0.
- IP Addressing: Static IP addresses are recommended for both ESXi host and the ES NAS.

Server Host Network Settings							
Role	IP	Description					
ESXi server A	172.17.23.116	VMware ESXi host					
Data Network 1	10.10.10.132	10G Data port in ESXi host					
Data Network 2	10.10.20.132	10G Data port in ESXi host					

IP Addresses

Table 1

ES1640dc v2 Network Settings						
Setting	Value	Description				
SCA Management IP	172.17.23.111	Management IP of controller A				
SCA Ethernet1 IP	10.10.10.111	Data port 1 IP of controller A				
SCA Ethernet2 IP	10.10.20.111	Data port 2 IP of controller A				
SCB Management IP	172.17.23.112	Management IP of controller B				
SCB Ethernet1 IP	10.10.10.112	Data port 1 IP of controller B				
SCB Ethernet2 IP	10.10.20.112	Data port 2 IP of controller B				

Table 2

ES1640dc v2 Storage Settings					
Setting	Value	Description			
Pool at SCB	Pool2	RAID6 pool at controller B			
NFS shared at Pool2	SharedFolderTest	NFS Server is "10.10.10.112"			
		Folder path is "share/SharedFolderTest"			

Table 3



Confirmation before Configuration

- All data ports, from ESXi host and ES NAS, should be in the same subnet.
- Available pools must be built before configuring NFS Share on ES NAS. Regarding creating a storage pool, see"<u>Network and Storage Settings of ES NAS High-Availability Network Storage Services</u>".

Configure NFS Host Access Permissions

Please follow this procedure to configure the shared folder permissions for NFS host access.

Step 1: Go to "Storage Manager" > "Storage Space", select the owning controller and the storage pool on which the shared folder was created, and then select the shared folder. (In this example, "Storage Space" > "Pool2" > "SharedFolderTest".)

Ш	TR-ES1640dcv2	Control Panel 🗙	Storage Mana 🗙			© 0		0 ₁₀₊	admin 🔻	Q <u>?</u> (#	₩ 🖵
										\$?
DA!	SHBOARD	Storage Pool List - To	tal 2 Pool(s)					Create	•	Actions	•
) Overview Utilization	E Contro	ller A (SCA)	Name/Alias pool2	Controller Cap SCB 866	acity Allocate .33 GB 3.35 Gi	ed Fre 3 86	ee Size De 52.98 GB D.	edup Saving 0 %	Status 🕜 Ready	
ST(DRAGE	pool2	lier B (SCB)	Allocated: 0 %	🛛 📕 Free: 100 %	Alert: 80 % 📝		-		_	
=	Storage Space			Name/Alias	- Capacity	Used	Thin	Status	Snapshot		•
-	Cache Acceleration			IEITEST	866.00 GB	160.00 KB	Yes	🥑 Ready	io : 0		
G	iSCSI Storage			Raw-A	866.00 GB	208.00 KB	Yes	🥑 Ready	io : 0		÷.,
HO	st 🔹			SharedFolderTes	t 866.00 GB	160.00 KB	Yes	🥑 Ready	io : 0		а.
0	Hosts			share2	866.00 GB	160.00 KB	Yes	🥑 Ready	i : 0		
				testworm1	866.00 GB	75.10 MB	Yes	✓ Ready	iii : 0		11.
				testworm2	866.00 GB	75.10 MB	Yes	🥑 Ready			
				ISCSI LUN of Stor	age Pool pool2						
				Name/Alias	Capacity	Allocated	Thin	Status	Snapshot		
				<u>ioechao</u>	100.00 GB	3.20 GB	Yes	🥑 Ready	io : 2		v
https://1	72.17.23.111/cgi-bin/#										



Step 2: Click "Permissions" in Shared Folder Manager.

Shared Folder Manager									
Permissions)				Snapshot 🔹	Actions			
Name/Alias	Capacity	Free Size	Thin	SSD Cache	Compression S	Status			
SharedFolderT	866.00 GB	866.00 GB	Yes	Enabled	0.0 %	🥑 Ready			
🗕 Used: 0 % 🔳 ,	Allocated: 0 % 🚦	Alert: Disabled 🚺	2						
						Clos			

Step 3: "Select permission type" > "NFS host access".

Select permission type MFS host access Shares ESXI-NFS ESXI-NFS ESXI-NFS ESXI-NFS Microsoft Networking host access Microsoft Networking host access ESXI-NFS ESXI-NFS ESXI-NFS Microsoft Network share name: SharedFolderTest JackhebeFolder Support NFSv4 ACL Inheritance Enable Map_Root and Map_All Map_Root Map_Root Map_Root Map_All Map_All Map_All Map_All Map_Coss Map_All All hosts Can access the shared folder Create Host Shared Map_Not Map_Coss Map_All Map_Coss Map_	Folder	Shared Folder		_	
Edit the NFS permission . Shares ESXI-NFS IEITEST JackhebeFolder JackhebeFolder SharedFolderTest Microsoft Network share name: SharedFolderTest JackhebeFolder JackhebeFolder Support NFSv4 ACL Inheritance Enable Map_Root and Map_All Map_Root Map_Root Map_All			access	NFS host	Select permission type
Shares NFS host access Microsoft Networking host access atwink share. IETEST JackhebeFolder JackhebeFolder Support NFSv4 ACL Inheritance JackhebeFolder Support NFSv4 ACL Inheritance JackhebeFolder Enable Map_Root and Map_All Raw-A User: SharedFolderTest Map_Root JackhebeFolder Map_Root Bahare Map_All JackhebeTolderTest Map_All Imichaelyu110 All hosts can access the shared folder Istheke Share1 Istheke Inichaelyu10 Istheke Inichaelyu10 Imichaelyu10 All hosts can access the shared folder Istheke Inichaelyu10 Istheke Inichaelyu10		n	d groups permission	Users an	Edit the NFS permissions.
States Microsoft Networking host access atwirk share. IEITEST Network share name: SharedFolderTest JackhebeFolder Support NFSv4 ACL Inheritance Istakhebe_Folder Support NFSv4 ACL Inheritance JackhebeFolder SharedFolderTest Map_Root admin jayhuang Map_All jayhuang Map_All jayhuang Access right: Deny access michaelyu110 All hosts can access the shared folder guan Sharel Sharel Alias Descripti IPv4 IPv6 Network iSCSI IQN Operators			access	NFS host	Sharas
ESXI-NFS Network share name: SharedFolderTest IEITEST Network share name: SharedFolderTest JackhebeFolder Support NFSv4 ACL Inheritance DakhebeFolder Enable Map_Root and Map_All NFS-NEW User: Group: han jayhuang Map_Root admin users wers jayhuang Map_All admin users wers admin jigyhuang Map_All admin users wers michaelyu110 All hosts can access the shared folder admin create Host guan Sharel Alias Descript IPv4 IPv6 Network iSCSI IQN Operations share1 test 10.10.10 intest intest intest intest	atwerk share	access	t Networking host a	Microsoft	Shares
JackhebeFolder ✓ Support NFSv4 ACL Inheritance Jackhebe_Folder Enable Map_Root and Map_All NFS-NEW User: Group: Map_Root jayhuang Map_All jiayhuang Map_All jiayhuang Map_All jiayhuang Map_All jiayhuang Map_All jiayhuang Access right: jiayhuang All hosts can access the shared folder guan Sibkbk jishbk Alias Descript IPv6 Network iSCSI IQN Operational integration of the start integratint of the start integration of the start inte	dFolderTest	SharedFolde	work share name:	Net	ESXI-NFS
Itackhebe_Folder Imarkabes NFS-NEW Enable Map_Root and Map_All SharedFolderTest Map_Root han Imarkabes iashuang Map_All iyzhao Map_All ileeshare Access right: Imichaelyu110 All hosts can access the shared folder Imichaelyu110 Allais Descripti IPv6 Network iSCSI IQN Operative the shared folder Imichaelyu110 Allais Imichaelyu110 Allais	2009	I Inheritance	Support NESv4 ACI		- 🗀 JackhebeFolder
Image: All and Image: All All All All All All All All All Al					- 🗀 Jackhebe_Folder
Naw-A User: Group: SharedFolderTest Map_Root admin users Jayhuang Map_All admin users jyzhao Map_All admin users michael All hosts can access the shared folder michaelyu110 All hosts can access the shared folder s1bkbk Share1 Alias bsription IPv4 IPv6 Network ISCSI IQN pertono test	,All	апа мар_Ап	Enable Map_Koot a		- 🗀 NFS-NEW
SharedFolderTest Map_Root admin users jayhuang Map_All admin users w jeshare Access right: Deny access w michaelyu10 All hosts can access the shared folder admin w quan Create Host Create Host admin admin w share1 Alias Descript IPv6 Network ISCSI IQN Operators charge test 10.10.10 admin admin<	Group:	User:			- 🗀 Raw-A
Iman Imag_ROU Imag_ROU Imag_ROU Ightwarg Imag_ROU Imag_ROU Imag_ROU Ightwarg Imag_ROU Imag_ROU Imag_ROU Imag_ROU Imag_ROU Imag_ROU	n Y Users Y		Man Root		- Contract ScharedFolderTest
Jyshao ● Map_All admin ✓ users ✓ jyshao Access right: Deny access ✓ michael All hosts can access the shared folder ✓ ✓ quan Create Host ✓ ✓ share1 ✓ IPv6 Network ISCSI IQN Operational operations of the shared folder Thest 10.10.10 ✓ ✓ IPv6 Network ISCSI IQN Operational operations of the shared folder	disers	autim			- Chan
Jistab Jistab Jistab Inchael Inchaely All hosts can access the shared folder quan Create Host Stakbk Share1 Cham2 Inst 10.10.10	n 💙 users 👻	admin	Map_All	۲	jaynuang
michael Access ignt: Deny access michaelyu110 All hosts can access the shared folder quan Create Host \$1bkbk Alias \$share1 Alias Charpe 10.10.10		Denvir	aas vielet.		- leeshare
michaelyu110 All hosts can access the shared folder quan Create Host \$1bkbk Alias share1 Alias cham2 test	access	Deny acces	ess right:	ACC	michael
Quan Create Host Stbkbk Alias Share1 Hest 10.10.10					- inichaelyu110
Stablek Alias Descripti IPv4 IPv6 Network iSCSI IQN Operations of the stable sta			Create Host 1	-	- 🚞 quan
Share1 Test 10:10:10		inti IDua			- 🧰 s1bkbk
Crbpp2 Test 10.10.10	V4 IPV6 Network ISCSI IQN Operatin	npti IPv4	Alias Descri	-	- 🧰 share1
	0.10.10	10.10.10	test		Concharo?

Step 4: "Access right" > "No limit", select desired host and click "Apply" > "Close".

elect permission type: dit the NES permission	NFS h	ost access		*				
Shares								
- 🗀 ESXI-NFS - 🦳 IEITEST	^ ()) Map_All		admin	*	users		*
🔁 JackhebeFolder	A	ccess right:	(No limit	~			
- Dackhebe_Folder		All hosts car	n access	No limit				
- Raw-A	2	Create Host	1	Read only				
🔁 SharedFolderTest		Aliac	Decorint	Deny access		atwork	ICCELTON	Operatio
- 🚞 han		L Allas	Descripti		10 11	BCWOIK	ISCSI IQN	Operaum
- 🚞 jayhuang		✓ test		10.10.10 10.10.20				
- Cileeshare		🔲 demo					ign.1991	
- 🚞 michael - 🧀 michaelvu110		ps-h1-0					iqn.1998	
- 🔄 quan		trainer-c2		10.10.10 10.10.20				
- chare1	- N	ote: Please ma o access error.	ke sure ti	ne format you en	ter is correc	st. An inc	orrect form	at can lead



Add a NFS Datastore in vSphere Client

Step 1: Log into vCenter, select the ESXi host on which you want to add the datastore. Then go to "Configuration" > "Storage", and select "Add Storage..."

E 2 172.17.23.117	172.17.23.116 VMware E5Xi, 5.5.0, 3248	1547											
□ PrimeSite □ 172.17.23.116	Getting Started Summary Virtual Machi	ines Resource Allocation P	erformano <mark>e Co</mark>	Infiguration Tasks & Ev	ents Alarms Permissions	Maps QNAP							
bk-Veeam-Server	Hardware	View: Datastores Devic	es										
👸 ps-mail	Processors	Datastores									Refresh D	elete Add Storage	Rescan Al
ps-pdc	Memory	Identification	Status	Device D	Vrive Type Capacity	Free Type	Last Update	Alarm Actions	Storage I/O Control	Hardware Acceleration			^
b ps-srm	 Storage 	dengzhang2017	🤣 Normal	QNAP ISCSI DIsk N	lon-SSD 49.75 G	48.80 GB VMP55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
ps-vr	networking	ESFAE-FS (reado	🤣 Normal	10.8.12.218:/sha L	Inknown 4.20 TB	3.89 TB NPS	8/24/2017 10:49:59 AM	Enabled	Disabled	Not supported			
👌 trainer-c1 (JP_debu	Storage Adapters	ESA_6CSI	🤣 Normal	QNAP ISCSE Disk N	lon-SSD 499.75 GB	498.80 GB VMF55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
👸 trainer-c2	Network Adapters	ESXI-NF5	🤣 Normal	10.10.10.111:/sh U	Inknown 300.00 GB	300.00 GB NP5	8/24/2017 10:45:35 AM	Enabled	Disabled	Not supported			
	Advanced Settings	antest 👔	🤣 Normal	QNAP ISCSI Disk N	Ion-SSD 9.75 G	8.89 GB VMPS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	Power Management	🔋 isci adams	🤣 Normal	QNAP ISCSI Disk N	lon-SSD 99.75 G	98.80 GB VMP55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			_
		iscshantest	🔶 Alert	QNAP ISCSE Disk N	lon-SSD 49.75 GB	4.69 GB VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			=
	Software	jackhebeStor	🤣 Normal	QNAP ISCSI Disk N	lon-SSD 49.75 G	48.80 GB VMF55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	Licensed Features	👔 jayisci	🤣 Normal	QNAP ISCSI Disk N	Ion-SSD 99.75 G	98.80 GB VMPS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	Time Configuration	🔋 jinwang	🔶 Alert	QNAP ISCSI Disk N	lon-SSD 99.75 G	8.79 GB VMPS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	DNS and Routing	iji ke	🤣 Normal	QNAP ISCSI Disk N	lon-SSD 4.75 G	4.05 GB VMP55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	Authentication Constraint	i michaelqiang	🤣 Normal	QNAP ISCSI Disk N	lon-SSD 49.75 G	48.80 GB VMP55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	Bourse Management	PBT-ZHANGDE	🤣 Normal	10.12.20.211:/sh	Unknown NJ	N/A N/A	8/24/2017 10:39:51 AM	Enabled	Disabled	Unknown			
	Power Hanayenen.	🔋 ps-h1:hdd1	🤣 Normal	Local ATA Disk (t N	lon-SSD 1.81 TB	1.67 TB VMPSS	8/24/2017 10:49:59 AM	Enabled	Disabled	Unknown			
	wroai Macinie Scarcepyshouowin	🗐 quan	🤣 Normal	QNAP ISCSI Disk N	lon-SSD 49.75 GB	48.80 GB VMP55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	virtual Machine Swapne Location	j] bt	🤣 Normal	QNAP ISCSI Disk N	lon-SSD 49.75 G	48.80 GB VMP55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported			
	Security Profile	GR sm-lun(s85u)	Anemal	ONUEP ISOST Dide N	Inn-550 1 023 75 (687 71 GR VMPS5	8/24/2017 10-49-59 AM	Fnahled	Dicabled	Supported			V
	Host Cache Configuration	Datastore Details											Properties
	System Resource Reservation												
	Agent VM Settings												
	Advanced Settings												



Step 2: Select "Network File System" and click "Next".

Ø	Add Storage	_ 🗆 X
Select Storage Type Specify if you want to form	at a new volume or use a shared folder over the network.	
NAS Network File System Ready to Complete	Storage Type Disk/LUN Create a datastore on a Fibre Channel, iSCSI, or local SCSI disk, or mount an existing Network File System Choose this option if you want to create a Network File System.	ng VMFS volume.
	< Back Next >	Cancel



Step 3: Server: Enter the data port's IP of the storage controller on the ES NAS.Folder: Enter the shared folder's path.Datastore Name: Give a name for this NFS share.

(Regarding Server IP/Folder settings, see the previous "IP Addresses" section for reference)

Ø	Add Storage	-		x
Locate Network File System Which shared folder will be u	sed as a vSphere datastore?			
NAS Network File System Ready to Complete	Properties Server: 10.10.10.112 Examples: nas, nas, it.com, 192.168.0.1 or FE80:0:0:0:2AA:FF:FE9A:4CA2 Folder: [/share/SharedFolderTest] Example: /vols/vol0/datastore-001 Mount NFS read only If a datastore already exists in the datacenter for this NFS share ar to configure the same datastore on new hosts, make sure that you same input data (Server and Folder) that you used for the original of Different input data would mean different datastores even if the un storage is the same. Datastore Name QNAP-SharedFolderTest	id you enter latasto derlyin	intend the re. g NFS	
	< Back Next >	<u>]</u>	Cancel	



Step 4: Confirm your settings and click "Finish".

Ø	Add Storage		_ D X
Network File System The following network file s	system will be added as a shared VMFS datastore		
NAS Ready to Complete	Review this summary and click Finish. Server: 10.10.10.112 Folder: /share/SharedFolderTest Volume Label: QNAP-SharedFolderTest		
		< Back Finish	Cancel

Step 5: NFS datastore is added and shown on the list.

Hardware	View: Datastores Devices										
Processors	Datastores										
Memory	Identification	Status	Device	Drive Type	Capacity	Free	Туре	Last Update	Alarm Actions	Storage I/O Control	Hardware Acceleration
 Storage 	isci adams	📀 Normal	QNAP ISCSI Disk	Non-SSD	99.75 GB	98.80 GB	VMF55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Networking	iscsihantest	🔶 Alert	QNAP ISCSI Disk	Non-SSD	49.75 GB	4.69 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Storage Adapters	jackhebeStor	📀 Normal	QNAP ISCSI Disk	Non-SSD	49.75 GB	48.80 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Network Adapters	jayisci	Normal	QNAP ISCSI Disk	Non-SSD	99.75 GB	98.80 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Advanced Settings	jinwang	🚸 Alert	QNAP ISCSI Disk	Non-SSD	99.75 GB	8.79 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Power Management	👔 lee	🦁 Normal	QNAP iSCSI Disk	Non-SSD	4.75 GB	4.05 GB	VMESS	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
-	🗊 michaelqiang	🤣 Normal	QNAP ISCSI Disk	Non-SSD	49.75 GB	48.80 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Software	PBT-ZHANGDENG (ina	🤣 Normal	10.12.20.211:/sh	Unknown	N/A	N/A	N/A	8/24/2017 10:39:51 AM	Enabled	Disabled	Unknown
Licensed Features	pe hlibddl	 Normal 	Local & TA Dick (h	Non-SSD	1 S1 TB	1.67 TR	UMECE	9/24/2017 10-40-50 AM	Enabled	Dicabled	Unknown
Time Configuration	QNAP-SharedFolderTest	🦁 Normal	10.10.10.112:/sh	Unknown	894.40 GB	894.40 GB	NFS	8/24/2017 11:42:59 AM	Enabled	Disabled	Not supported
DNS and Routing	🗐 quan	🤣 Normal	QNAP ISCSI Disk	Non-SSD	49.75 GB	48.80 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Authentication Services	🗊 tst	🤣 Normal	QNAP ISCSI Disk	Non-SSD	49.75 GB	48.80 GB	VMF55	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Power Management	📵 vm-lun(x85u)	Normal	QNAP ISCSI Disk	Non-SSD	1,023.75 G	687.70 GB	VMF55	8/24/2017 11:42:59 AM	Enabled	Disabled	Supported
Virtual Machine Startun/Shutdown	讨 vmwarewebplugin	🤣 Normal	QNAP ISCSI Disk	Non-SSD	19.75 GB	18.85 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Wrbual Machine Swapfile Location	iii weijinwang	Normal	10.10.10.111:/sh	Unknown	684.86 GB	680.15 GB	NFS	8/24/2017 11:42:59 AM	Enabled	Disabled	Not supported
Security Profile	🗐 wib	🦁 Normal	QNAP ISCSI Disk	Non-SSD	6.75 GB	5.95 GB	VMFS5	8/24/2017 10:45:36 AM	Enabled	Disabled	Supported
Host Cache Configuration	1										
System Decourse Decervation	Datastore Details										
Agent VM Settings											
Algorie vin becangs											



Add an NFS Datastore in vSphere Web Client 6.0

Step 1:Log into vSphere Web Client, select the ESXi host on which you want to add the datastore.Then go to "Related Objects" > "Datastores", and select "Create a new datastore" icon.

idator I	172.17.23.116 Actions *							3
ome b 🔊	Oatting Obstand Downwards May							
	Getting staned Summary Mor							
172 17 22 117	Top Level Objects Virtual Machin							
la PrimeSite								
🗢 📱 172.17.23.116 💦 🔪		Actions 👻					📡 💵 (Q. Filter	
🎒 bk-Veeam-Server	Name 1	▲ Status	Туре	Datastore Cluster	Capacity	Free		
🎒 han-test	dengzhang2017	Normal	VMFS5		49.75 GB	48.8 GB		
🐴 ps-mail	ESFAE-FS(read only)	 Normal 	NFS 3		4.2 TB	3.89 TB		
s-pdc	ESXI-NFS	Normal	NFS 3		300 GB	300 GB		
ps-sm 🚔 ps-yr	ESXI_ISCSI	Normal	VMFS5		499.75 GB	498.8 GB		
m ps-vr	🗐 hantest	Normal	VMFS5		9.75 GB	8.89 GB		
trainer-c1 (JP debug	🗐 isci adams	Normal	VMFS5		99.75 GB	98.8 GB		
🐴 trainer-c2	🔯 iscsihantest	🚸 Alert	VMFS5		49.75 GB	4.69 GB		
~	🗐 jackhebeStor	 Normal 	VMFS5		49.75 GB	48.8 GB		
	🗐 jayisci	Normal	VMFS5		99.75 GB	98.8 GB		
	🔯 jinwang	🔶 Alert	VMFS5		99.75 GB	8.79 GB		
	E lee	 Normal 	VMFS5		4.75 GB	4.05 GB		
	🗐 michaelqiang	Normal	VMFS5		49.75 GB	48.8 GB		
	B PBT-ZHANGDENG (unmoun	 Normal 	NFS 3		685.26 GB	0.8		
	ps-h1:hdd1	Normal	VMFS5		1.81 TB	1.67 TB		
	🗐 quan	Normal	VMFS5		49.75 GB	48.8 GB		
	🗐 tst	Normal	VMFS5		49.75 GB	48.8 GB		
	🗐 vm-lun(x85u)	Normal	VMFS5		1,023.75 GB	687.7 GB		
	🗐 vmwarewebplugin	 Normal 	VMFS5		19.75 GB	18.85 GB		
	🗐 weijinwang	 Normal 	NFS 3		684.86 GB	680.15 GB		
	🗐 wjb	Normal	VMFS5		6.75 GB	5.95 GB		

Step 2: Select "NFS", and then click "Next".

省 New Datastore				(?)
 New Datastore 1 Type 2 Name and configuration 3 Ready to complete 	Type VMFS Create a VMFS datastore on a disk/LUN. NFS Create an NFS datastore on an NFS share over the network.			• •
		Back	Next	Finish Cancel



Step 3: Datastore name: Give a name for this NFS share.

Folder: Enter the shared folder's path.

Server: Enter the data port's IP of the storage controller on the ES NAS.

(Regarding Server IP/Folder settings, see the previous "IP Addresses" section for reference)

New Datastore		(?) ₩
 New Datastore 1 Type 2 Name and configuration 3 Ready to complete 	Datastore name: QNAP-SharedFolderTest NFS Share Details Folder: //share/SharedFolderTest E.g: /vols/vol0/datastore-001 Server: 10.10.10.112 E.g: nas, nas.it.com or 192.168.0.1	
	 If you plan to configure an existing datastore on new hosts in the datacenter, it is recommended to use the "Mount hosts" action instead. Access Mode Mount NFS as read-only Back Next Finish 	t to additional

Step 4: Confirm the settings and click "Finish".



省 New Datastore			()))		
 New Datastore 1 Type 2 Name and configuration 3 Ready to complete 	General: Name QNAP-SharedFolderTest Type NFS Version NFS 3 NFS share and access mode:					
			Back Next Finish Cance	31		

Step 5: NFS datastore is added and shown on the list.

vmware [®] vSphere Web Clie	ent n ≣						Ŭ Administrator@VSPHERE.LOCAL - He	alp -
Navigator I	172.17.23.116 Actions -						-	<u>.</u>
(4 Home) 🕲	Getting Started Summary Mor	itor Manage I	Related Objects					
- 2 172.17.23.117	Top Level Objects Virtual Machin							
		S 📑 O Filter	- I					
⇒ 🛛 172.17.23.116 🔉	Name 1	Status	Time	Datastore Cluster	Capacity	Free		1
bk-Veeam-Server	dengzhang2017	Normal	VME85		49.75.08	48.8 GB		61
A ps-mail	ESFAE-ES(read only)	O Normal	NES 3		4.2 TB	3.89 TB		11
ps-pdc	ESXI-NES	Normal	NES 3		300 GB	300 GB		11
🚰 ps-sim		O Normal	VMES5		499.75 GB	498.8 GB		
ps-vc	hantest	Normal	VMF85		9.75 GB	8.89 GB		11
bs-w	🗐 isci adams	Normal	VMFS5		99.75 GB	98.8 GB		
trainer-c1 (JP_debug	🛃 iscsihantest	Alert	VMFS5		49.75 GB	4.69 GB		
Ep numer ez	jackhebeStor	Normal	VMFS5		49.75 GB	48.8 GB		
	jayisci	Normal	VMFS5		99.75 GB	98.8 GB		11
	🚮 jinwang	Alert	VMFS5		99.75 GB	8.79 GB		
	E lee	 Normal 	VMF85		4.75 GB	4.05 GB		Ш
	🗐 michaelqiang	 Normal 	VMFS5		49.75 GB	48.8 GB		
	BT-ZHANGDENG (unmoun	 Normal 	NFS 3		685.26 GB	0 B		
	ps-h1:hdd1	 Normal 	VMFS5		1.81 TB	1.67 TB		
	QNAP-SharedFolderTest	🥝 Normal	NFS 3		894.4 GB	894.4 GB		
	🗐 quan	🥝 Normal	VMFS5		49.75 GB	48.8 GB		
	🗐 tst	Normal	VMFS5		49.75 GB	48.8 GB		
	🗐 vm-lun((85u)	 Normal 	VMFS5		1,023.75 GB	687.7 GB		
	🗐 vmwarewebplugin	 Normal 	VMFS5		19.75 GB	18.85 GB		
	🗐 weijinwang	Normal	NFS 3		684.86 GB	680.15 GB		
	🗐 wjb	 Normal 	VMFS5		6.75 GB	5.95 GB		
	M						21 Objects 🔒	•



Add an NFS Datastore in vSphere Web Client 6.5

Step 1:Log into vSphere Web Client, select the ESXi host on which you want to add the datastore.Then go to "Configure" > "Datastores", and select "Create a new datastore" icon.

Getting Started Summary Monitor	Configure Permissions VMs	Resource Pools Da	tastores Networks			
"	Datastores					
Storage Storage Adapters	1 🔐 🗟 😋 🖻 🚳 🛛	🚳 Actions 👻				📡 🖪 (Q Filter 🗸
Storage Devices	Name	Status	Туре	Datastore Cluster	Capacity	Free
Storage Devices	datastore1	Normal	VMFS 5		924 GB	824.08 GB
Datastores	LUN0	📀 Normal	VMFS 5		99.75 GB	98.8 GB
Host Cache Computation						
Protocol Endpoints						
 Networking 						
Virtual switches						
VMkernel adapters						
Physical adapters						
TCP/IP configuration						
Advanced						
- Virtual Machines						
VM Startup/Shutdown						
Agent VM Settings						
Swap file location						
Default VM Compatibility						
✓ System						
Licensing						
Time Configuration	4	1				Þ
Authentication Services	M					2 Objects 📑 Export 😭 Copy 🗸

Step 2: Follow the same steps from 2 to 5 as in "Add an NFS Datastore in vSphere Web Client 6.0" section.