

Quick Start Guide Of Hikvision IP Camera & QNAP NAS Connection

QNAP, Inc.



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Tested Models

DC-2CD4132FWD-IZ DS-2CD2432F-IW

Tested NAS Firmware

QTS 4.1 or above



Adding QNAP Turbo NAS to DC-2CD4132FWD-IZ via SMB/CIFS Set up SMB/CIFS Service on QNAP Turbo NAS

1. Log onto the web page of QNAP Turbo NAS. In this example, the IP address of NAS is 10.15.14.23:8080 (default username/password: admin/admin)



2. Enable **Microsoft networking** service. Navigate to **Control Panel > Network Service > Win/Mac/NFS**. Check the box for **Enable file service for Microsoft networking**





3. Open the Control Panel, and navigate to **Privilege Settings > Users**. **Click Create > Create a User** to start creating a user

		Control Panel	
earch	♀ ← → :::		
iew			
n Settings	Create	ler	Local Users
an Enttinge	Create a User	Description	Quota
ge settings	Create Multiple Users	administrator	
ers	Import/Export Users		
r Groups			
red Folders			
ota			
nain Security			
rk Services			
ations			
	🚺 🖣 Page 🔢 /1 🕨 🕅 🍣		Display item:

4. Enter username & password and press **Create** to create a user. Ex: hikcam. (*This will be used when setting up Hikvision's camera*)

		Create a User 🕂	
	User Description (optional)	User Group everyone	Edit
		Shared Folder Permission	Edit
Username:	hikcam	Read/Write: Multimedia	
Password:	•••••	Application Privilege	Edit
	0-64 characters	Unrestricted access to all applications	
Verify Password:			
Email (optional):			
Send a notification main and a send a notification main and a send a	ail to the newly created user		
			Create Cancel

5. Navigate to **Privilege Settings > Shared Folders**, and click **Create** to start.



				Control Par	nel			
Search Q)	← → ::::						
Overview		Shared Folder	Advanced Perm	issions F	older Aggregati			
🔅 System Settings		reate - Remove	Restore De	fault Shared Fo	olders	011		
🔔 Privilege Settings		Shared Folder 🛛 🏀		Size	Folders	Files	Hidden	Volume
🐥 Users		Create an ISO Share		0 КВ	1	0	No	Single Disk: Drive 1
🎎 User Groups		Multimedia		7.66 MB	5	48	No	Single Disk: Drive 1
Shared Folders		Public		0 KB	1	0	No	Single Disk: Drive 1
Quota		Recordings		0 КВ	1	0	No	Single Disk: Drive 1
🚵 Domain Security		Web		4 KB	1	1	No	Single Disk: Drive 1
🛞 Network Services		homes		0 КВ	2	0	No	Single Disk: Drive 1
Applications		test		671.97 MB	11	1858	No	Single Disk: Drive 1
		testNFS		8.8 GB	7	2032	No	Single Disk: Drive 1
	14	✓ Page 1 /1 ▶						Display item: 1-8,

6. Enter the folder name (Ex: hikCIFS (*The folder name will be used when setting up the Hikvision's camera*)) for storing the video recording. Click **Edit** to modify the access privileges of the folder.

Folder Name:	older Name: hikCIFS					
Description:						
Select the disk volume or	n which the shared folder v	vill be created.				
Single Disk: Drive 1	*					
Configure access pr	ivileges for users		Edit			
Currently, only administra	ators have the full permise	ion on this folder.				
Advanced Settings			Edit			
Configure the settings of	guest access right, recycle	bin, hidden folder, e	etc.			

Create Cancel



7. Enable the **RW** (**Read/Write**) access for the user (Ex: hikcam)

Single Disk: Drive 1	~			
Configure access p	rivileges for users			Close
				P
User name	Preview	RO	RW	Deny
admin	Read/Write		\checkmark	
hikcam	Read/Write		V	



1. Log in web page of DS-2CD4132FWD-IZ. Navigate to Advanced Configuration > Storage > NAS. Enter the IP address of NAS. (In this example, the IP address of NAS is 10.15.14.23), the path of the share volume (/hikCIF)*, username and the password (hikcam/hikcam: username/pw)*, choose SMB/CIFS and click Save.

* The folder name was configured at step 5, and username/password was configured at step 4.

Live	e View	Pla	ayback	ayback Log Configuration			💄 admin 🖙 Log
5 Loca	al Configuration	•	Record Schedul	e Storage Management	NAS Snapshot		
Basi	c Configuration	^	HDD No.	Туре	Server Address	File Path	
2	e comgutation		1	NAS	10.15.14.23	/hikCIFS	
⊖ Adva	System	tion ¥	Mounting Ty	ype SMB/CIFS \$	User Name hikcam	Password ••••••	
0	Network		2	NAS			
0	Video/Audio		3	NAS			
0	Image		4	NAS			
0	Security		5	NAS			
0	Events		6	NAS			
0	Storage		7	NAS			
			8	NAS			
							Save

2. Navigate to **Advanced Configuration > Storage >Storage Management**. Click **Format** to initialize the system.

LIVE VIEW	Pla	ayback	L	.og	Configura	ation		💄 admin 🛶 Log
Local Configuration O Local Configurati	•	Record Schedule	Storage Ma	nagement NAS	S Snapshot			
Basic Configuration	^	HDD Device I	List					Format
R Advanced Confirm	41 mm 14	d HDD No.	Capacity	Free space	Status	Туре	Property	Progress
 Advanced Configura System 	tion *	9 🗹	456.98GB	0.00GB	Uninitialized	NAS	R/W	
Network								
Video/Audio		Quota						
Image		Max.Picture C	Capacity	0.00GB				
Security		Free Size for	Picture	0.00GB				
O Events		Max. Record	Capacity	0.00GB				
Storage		Free Size for	Record	0.00GB				
		Percentage of	f Picture	25		%		
		Percentage of	f Record	75		%		



3. The formatting time will vary according to the capacity of the shared volume. The recording to the NAS will automatically start once the formatting is done.

HIK	VISION DS	5-2CD4	132FWD-IZ							0
I	Live View	F	Playback	L	og	Configu	ration		<u></u> a	dmin 🛶 Logout
© I ⊕ I <i>P</i> /	Live view Local Configuration © Local Configuration Advanced Configuration Advanced Configuration © System © Network © Video/Audio © Image © Security © Events © Storage	ion ^ ation ~	Record Schedule HDD Device I HDD No. 9 Quota Max.Picture C Free Size for Max. Record I Free Size for Percentage of Percentage of	Storage Mai ist Capacity 456.98GB apacity Picture Capacity Record ? Picture ? Record	Free space 431.75GB 108.00GB 108.00GB 324.00GB 323.75GB 25 75	Si Snapshot	Type NAS	Property R/W	Progress	Format
	Storage		Free Size for Percentage of Percentage of	Record Picture Record	323.75GB 25 75		%			
										Save



Adding QNAP Turbo NAS to DC-2CD4132FWD-IZ via NFS

Set up NFS Service on QNAP Turbo NAS

1. Enable NFS service. Navigate to **Control Panel > Network Services > Win/Mac/NFS**. Check the **Enable NFS Service**

	Control Panel
Search Q	$\leftarrow \rightarrow$::::
Overview	Microsoft Networking Apple Networking NFS Services
🔅 System Settings	The second secon
🔔 Privilege Settings	Service
Metwork Services	You can set the allowed domain name and the access authority in Shared Folder Management.
📩 Win/Mac/NFS	Click here to set the NFS access right of the network share.
🍢 FTP	Note: For virtualization environment, it is recommended to disable the [write cache] function.
Telnet / SSH	Apply
📠 SNMP	
Service Discovery	
🧕 Network Recycle Bin	
🖸 Qsync	
Applications	



2. Create a shared folder for NFS access. **Navigate to Control Panel > Privilege Settings > Shared Folders**. Click **Create** to create a folder.

li Overview				~	
🔅 System Settings	Shared Folder Advanced Create Remove Restored	Permissions Fo	older Aggregatio	n	
L Privilege Settings	Shared Folder	Size	Folders	Files I	Hidden Volume
Users	Create an ISO Share	0 KB	1	0	No Single Disk: Drive 1
鑙 User Groups	Multimedia	7.66 MB	5	48	No Single Disk: Drive 1
Shared Folders	Public	0 KB	1	0	No Single Disk: Drive 1
Quota	Recordings	0 KB	1	0	No Single Disk: Drive 1
🚵 Domain Security	Web	4 KB	1	1	No Single Disk: Drive 1
Network Services	homes	0 KB	2	0	No Single Disk: Drive 1
Applications	test	671.97 MB	11	1858	No Single Disk: Drive 1
	testNFS	8.8 GB	7	2032	No Single Disk: Drive 1

3. Enter the folder name. (Ex: hikNFS)

Description:			
Select the disk volume or	which the shared folder will b	e created.	
Single Disk. Drive 1	- Hold		
Configure access pr	vileges for users		Edit
Currently, only administra	tors have the full permission of	on this folder.	
Advanced Settings			Edit
Configure the settings of	uest access right, recycle bin,	, hidden folder, etc.	



4. Navigate to **Control Panel > Privilege Settings > Shared Folder**. Click the **ICON** to open the access control page.

Overview	Shared Folder Advanced Permi	issions Folder	Aggregation				
🔅 System Settings	Create Remove Restore Del	fault Shared Folders	;				Q
💄 Privilege Settings	Folder Name	Size	Folders	Files	Hidden	Volume	Action
Users	Download	0 KB	1	0	No	Single Disk: Drive 1	293
🍰 User Groups	Multimedia	7.66 MB	5	48	No	Single Disk: Drive 1	293
Shared Folders	Public	0 КВ	1	0	No	Single Disk: Drive 1	293
Quota	Recordings	0 КВ	2	0	No	Single Disk: Drive 1	293
🚵 Domain Security	SignageStation	0 КВ	2	0	No	Single Disk: Drive 1	293
Metwork Services	Web	4 KB	1	1	No	Single Disk: Drive 1	233
Applications	hikCIFS	440.31 MB	8	1778	No	Single Disk: Drive 1	
	hikNFS	5.74 GB	7	1881	No	Single Disk: Drive 1	
	homes	0 КВ	3	0	No	Single Disk: Drive 1	
	test test	671.97 MB	11	1858	No	Single Disk: Drive 1	293
	4 4 Page 1 /2 ▶ ▶					Display item: 1-10, Total:	11 Show 10 👻 Item

5. Select **NFS host access** to setup NFS access right.

Select permission type:	Users and groups permission	*			
Edit the user and group p	Users and groups permission		and File Station.		
Shares	NFS host access				
Download	WebDAV access Microsoft Networking bost access		Read Only	Read/Write	Deny Access
- Dublic	admin	Read/Write			
hinkings homes test testNFS					



6. Enter the IP field which is able to access this NAS. (Ex:10.15.14.0/24 (IP ADDRESS/MASK): 10.15.14.1 ~ 10.15.14.254)

		Control Panel	⊖ € ⊗
Search	$\bigcirc (\leftarrow \rightarrow):$?
Uverview		Shared Folder	
🔅 System Settings	Select permission type:	NFS host access	۵
1 Privilege Settings	Edit the NFS permissions		Action
🔔 Users	Shares		
🍰 User Groups	Download	You can set the NFS access right of the network share.	
Shared Folders	Public	Network share name: hikNFS	
🦪 Quota	- Call Recordings	Access right: No limit	
🚵 Domain Security	hikCIFS	Squash option: NO_ROOT_SQUASH V UID: guest V	
Network Services	homes	Allowed IP Address or Domain Name	
🖧 Win/Mac/NFS	- itest	Host / IP / Network	
te ftp		*	
Telnet / SSH		10.15.14.0/24	
🛓 SNMP		Note: Please make sure the format you enter is correct. An incorrect format can lead to	
n Service Discovery		access error.	
🧕 Network Recycle Bin			
Qsync		Apply Close '	Total: 10 Show 10 💌 Items
Applications			

Add NAS to Hikvision camera (DS-2CD4132FWD-IZ)

1. Log in web page of DS-2CD4132FWD-IZ. Navigate to Advanced Configuration > Storage > NAS. Enter the IP address of NAS (In this example, the IP address of NAS is 10.15.14.23), the path of the share volume (/hikNFS)*, choose NFS as Mounting Type and click Save.

* The folder name was configured at step 3. The NFS does not require log in credentials but the access security has to be configured on Turbo NAS.

Live View	P	layback	Log	Configuration		💄 admin 🛶 Log
Local Configuration O Local Configuration	•	Record Schedul	e Storage Management	NAS Snapshot		
Basic Configuration	^	HDD No.	Туре	Server Address	File Path	
& Advanced Configure	len u	1	NAS	10.15.14.23	/hikNFS	Ŧ
 System 	ion •	Mounting Ty	rpe NFS ‡	User Name	Password	
Network		2	NAS			
Video/Audio		3	NAS			
Image		4	NAS			
Security		5	NAS			
Events		6	NAS			
Storage		7	NAS			
		8	NAS			



2. Navigate to **Advanced Configuration > Storage > Storage Management**. Click Format to initialize the system.

Live View	Pl	ayback	L	og	Configura	ation		💄 admin 🛶 Log
Local Configuration	v	Record Schedule	Storage Mar	nagement NAS	Snapshot			
Basic Configuration	^	HDD Device	List					Format
2		d HDD No.	Capacity	Free space	Status	Туре	Property	Progress
 Advanced Configura System 	tion ~	9	456.98GB	0.00GB	Uninitialized	NAS	R/W	
Network		Questa						
Video/Audio		Quota						
Image		Max.Picture 0	Capacity	0.00GB				
Security		Free Size for	Picture	0.00GB				
Events		Max. Record	Capacity	0.00GB				
Storage		Free Size for	Record	0.00GB				
		Percentage o	f Picture	25		%		
		Percentage o	f Record	75		%		

3. The formatting time will vary according to the capacity of the shared volume. The recording to the NAS will automatically start once the formatting is done.

Live View	Pla	ayback		Log		Configu	ation		🔔 a	dmin 🛶 Lo
Local Configuration Local Configuration	~	Record Schedule	Storage N	anagement	NAS	Snapshot				
Basic Configuration	^	HDD Device L	ist							Format
		HDD No.	Capacity	Free sp	ace	Status	Туре	Property	Progress	
 Advanced Configuration System 	on v	9	456.98GB	431.75	iGΒ	Normal	NAS	R/W		
Network		Queta								
Video/Audio		Quota								
Image		Max.Picture C	apacity	108.00G	3					
 Security 		Free Size for I	Picture	Picture 108.00GB						
O Events		Max. Record (Capacity 324.00GB		3					
Storage		Free Size for Record		cord 323.75GB						
		Percentage of	Picture	25			%			
		Percentage of	Record	75			%			



How to playback the surveillance video stored on NAS

Directly playback through Hikvision camera page

Log on to web page of DS-2CD4132FWD-IZ. Navigate to **Playback**. Select the date and click **Search**. (Tested on IE only)

KVISION D	S-2CD4132FWD-IZ								(
Live View	Playback	Log	Configuration			6	🙎 ad	min 🤇	Log
			Status 15	Speed	(Jul	2	014	► H
A.	a second second			Sun	Mon	Tue	Wed	Thu F	ri Sa
07-03-2	2014 Thu 06:	17:05		29		1	2	3	4 5
	off ma ob.			6	7	8	9	10 1	1 12
				13	14	15	16	17 1	8 19
				20	21	22	23	24 2	5 26
				27	28	29	30	31	1 2
				3	4	5	6	7	
						0	L Sea	arch	
		P	Camera 01						
		-		IŞ					
AA/	2014.0	17.02.06.17.04			ot play	hackt	time		

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Download surveillance video files from NAS

Log on to web page of DS-2CD4132FWD-IZ. Navigate to **Playback**. Click on the **download icon**. (Tested on IE, Safari, Firefox, and Chrome)



Search the videos with specified **Start and End dates** and click **Download** to download the selected video

	No.	File Name	File Date	File Size	Progress		
	1	ch01_08000000000000000	2014-07-02 15:15:51	248 MB			
	2	ch01_0800000001000000	2014-07-02 15:36:02	248 MB			
	3	ch01_0800000002000000	2014-07-02 15:56:05	248 MB		Call m 25/2	
	4	ch01 0800000003000000	2014-07-02 16:16:07	248 MB		All Type	
	5	ch01 0800000004000000	2014-07-02 16:36:12	247 MB			
	6	ch01_0800000005000000	2014-07-02 16:56:10	247 MB		Start Time	
	7	ch01 0800000006000000	2014-07-02 17:18:10	248 MB			
	8	ch01_0800000007000000	2014-07-02 17:38:20	248 MB		2014-07-01 10:18:02	
	9	ch01 0800000008000000	2014-07-02 17:58:20	248 MB			
	10	ch01 0800000009000000	2014-07-02 18:18:30	248 MB		End Time	
	11	ch01_0800000010000000	2014-07-02 18:38:12	248 MB			
	12	ch01 0800000011000000	2014-07-02 18:52:07	248 MB		2014-07-17 10:18:04	
	13	ch01 0800000012000000	2014-07-02 19:08:14	248 MB			
	14	ch01 0800000013000000	2014-07-02 19:20:49	248 MB		O Search	
	15	ch01 0800000014000000	2014-07-02 19:31:00	248 MB		Coulon	
<u>.</u>	16	ch01_0800000015000000	2014-07-02 19:47:24	248 MB			
	17	ch01_0800000016000000	2014-07-02 20:00:42	249 MB		the second secon	
0	18	ch01_0800000017000000	2014-07-02 20:09:39	248 MB		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	19	ch01 0800000018000000	2014-07-02 21:15:51	248 MB			
	20	ch01 0800000019000000	2014-07-02 22:39:09	248 MB		No plug-in detected.	
	21	ch01_0800000020000000	2014-07-03 00:02:16	247 MB			
	22	ch01 0800000021000000	2014-07-03 01:24:51	248 MB			
	23	ch01 0800000022000000	2014-07-03 02:47:21	248 MB			
	24	ch01 0800000023000000	2014-07-03 04:09:10	248 MB			
	25	ch01_0800000024000000	2014-07-03 05:31:09	248 MB			
	26	ch01 0800000025000000	2014-07-03 05:51:09	248 MB			
	27	ch01 0800000026000000	2014-07-03 06:00:01	248 MB			
	28	ch01 0800000027000000	2014-07-03 06:08:56	248 MB			
	29	ch01 0800000028000000	2014-07-03 06:18:13	248 MB			
	30	ch01 0800000029000000	2014-07-03 06:27:18	248 MB			
	31	ch01_0800000030000000	2014-07-03 06:36:25	248 MB			
	32	ch01_0800000031000000	2014-07-03 06:45:16	248 MB			
	33	ch01_0800000032000000	2014-07-03 06:54:05	248 MB			
0	34	ch01_0800000033000000	2014-07-03 07:03:12	248 MB			
	35	ch01_0800000034000000	2014-07-03 07:12:20	249 MB			
	36	ch01_0800000035000000	2014-07-03 07:21:52	248 MB			
	37	ch01 0800000036000000	2014-07-03 07:31:32	248 MB			
	38	ch01 0800000037000000	2014-07-03 07:41:20	248 MB			
	39	ch01_0800000038000000	2014-07-03 07:51:06	248 MB			
0	40	CH01 08000003000000	2014-07-03 08:00:40	248 MB			