

# NAS520/NAS326

## **Application Notes**

Version 1.02 March, 2018



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### **1. NAS Starter Utility**

#### **1.1 NAS Starter Utility Installation**

After you install a new hard drive on the NAS, please use the NAS Starter Utility to discover and access the NAS to assign an IP address by the DHCP server or a static option. The steps are shown below:



Select	install	folde
--------	---------	-------



Finish Installation

#### **1.2 NAS Initialization**

After a successful installation, click on the **NAS Starter Utility**. The first screen of the NSU will attempt to discover the NAS devices. Click on **NAS Seeker**, and then choose the devices that you want to connect. The default username is **admin** and the password is **1234**.

ZyXEL				8 8
🛋 Configuration 🗸				
Loading NAS Seeker My Tools	Server Name: IP Address: MAC Address: Firmware Version: Status: Capacity:	Loading Loading Uoding Unreachable Loading Loading	Loading	Discover NAS devices

NAS Seeker			×	
The following shows the discovered device in the network				
창 Connect	🧐 Refresh			
Status	Server Name	IP Address		
Online	NSA320-Test	10.251.40.70		
Online	NSA325-v2	10.251.40.36		
Online	NSA320S	10.251.40.40		
Online	NAS520	10.251.40.41		
	Hostname: IP 1:0.0.0.0 MAC Addre IP 2:10.251.4 MAC Addre Model ID:N Firmware V Status: Oplic	NAS520 ess1:5c:f4:ab:63:6a:5 40.41 ess2:5c:f4:ab:63:6a:5 AS520 ersion:V5.04(AASZ.0	4 5 1)b2	

Select NAS520

#### **1.3 Network Setting**

After successful initialization, go back to the NSU main menu and click **Configuration > System Setting** to start configuring. You can assign a new hostname for this NAS, set the TimeZone and PPPoE connection information as well as an IP address.

ZyXEL			? 8
🛋 Configuration 🗸			
System Setting NAS520(10.251.40.41)	Server Name: IP Address: MAC Address: Firmware Version: Status: Capacity:	NAS520 10.251.40.41 5c:f4:ab:63:6a:55 V5.04(AAS2.0)b2 Online Total: 1.79 TB	
NAS Seeker My Tools DeskTop Network Drive Shar	ed Folder myZyXELcloud	Used: 199.05 MB F	ree: 1.79 TB

Click System Setting

Server Name:	NAS520		Sett
TimeZone:	(GMT+13:00) Nuku'alofa		🗾 🛛 Tim
Enable PPPo Username: Password: Verify Passw	E Connection		
IP Address:	Automatically get IP address		
	IP Address:	10.251.40.41	
	Subnet Mask: Default Gateway:	255.255.255.0	
DNS:	Use from DHCP server		
	Manually assign DNS server		
	Primary DNS Server.	10.251.253.254	
	Secondary DNS Server.	0.0.0.0	
		Apply Cance	

Setting Server Name, TimeZone and network

#### 1.4 DeskTop

Click on **DeskTop** and enter the admin's username and password to access the NAS's GUI. Then the administrator can manage the device and change the configurations.



-

#### **1.5 Network Drive**

In the main NAS Starter Utility screen click **Network Drive** to add the NAS as a network drive in your computer's Windows Explorer.





Check the Network map drive



Map the shared folder via Guest



Select shared folder

Drganize 🔻 New folder			(U) Shred File	8≣ <b>• □</b>	6
Recent Places	Name	Date modified	Туре	Size	4
🎉 ownCloud	A 01 - One	2014/6/22 上午 03:	VLC media file (.fl.,	26 168 KB	
	A 02 - I'm A Mess	2014/6/22 上午 03:	VLC media file (.fl	26,825 KB	
Libraries	📥 03 - Sing	2014/6/22 上午 03:	VLC media file (.fl	29,424 KB	
Documents	📥 04 - Don't	2014/6/22 上午 03:	VLC media file (.fl	24,783 KB	
- Music	📥 05 - Nina	2014/6/22 上午 03:	VLC media file (.fl	24,686 KB	
iii New Library	🛓 06 - Photograph	2014/6/22 上午 03:	VLC media file (.fl	26,302 KB	
E Pictures	📥 07 - Bloodstream	2014/6/22 上午 03:	VLC media file (.fl	30,530 KB	
Videos	🛕 08 - Tenerife Sea	2014/6/22 上午 03:	VLC media file (.fl	24,334 KB	
• 圖 迅留下载	🛓 09 - Runaway	2014/6/22 上午 03:	VLC media file (.fl	24,770 KB	
	📥 10 - The Man	2014/6/22 上午 03:	VLC media file (.fl	26,070 KB	
Computer	🛓 11 - Thinking Out Loud	2014/6/22 上午 03:	VLC media file (.fl	28,566 KB	
Local Disk (C:)	📥 12 - Afire Love	2014/6/22 上午 03:	VLC media file (.fl	35,584 KB	
Co D : (C) W	📥 13 - Take It Back	2014/6/22 上午 03:	VLC media file (.fl	21,350 KB	
CD Drive (E) Wormhole	🛕 14 - Shirtsleeves	2014/6/22 上午 03:	VLC media file (.fl	21,514 KB	
UFBU_Udia (\(10.251.253.11\CS0	📥 15 - Even My Dad Does Sometimes	2014/6/22 上午 03:	VLC media file (.fl	21,634 KB	
Image: Market Ma Market Market Ma Market Market	📥 16 - I See Fire	2014/6/22 上午 02:	VLC media file (.fl	28,166 KB	
photo (\(10.251.40.41) (2:)	🛕 17 - All of The Stars	2014/6/22 上午 02:	VLC media file (.fl	24,661 KB	

Check the Network map drive

#### **1.6 Shared Folder**

Click this to log into the NAS's file directory in Windows Explorer.





Type user name and password

Network > 10.251.40.41 >	1	• 49	Search 10.251.40.41	× افاد م
Organize   Network and Sharing Center	View remote printers		(U) Shred File <sup>™</sup> ▼	
Libraries     Documents     Music     Music     Pictures     Videos     通告下意	admin Share photo Share wdc-wd64-00aaks-22a7b01 Share	Share		
Image: Computer           ≦         Local Disk (C:)           ■         Local Disk (D:)           ■         CD Dirke (E:) Wormhole           ■         DHBU_Data (\\10.251.253.11\cso           ■         music (\\10.251.40.41) (Y:)				
🗣 Network				
5 items				

Check NAS's file directory in Windows Explorer

#### 1.7 myZyXELcloud

Click this to go to mycloud.zyxel.com to setup a free DDNS hostname for the NAS so you can connect to it easily from the Internet.

ZyXEL			? 🗙	
🛋 Configuration 🗸				
NAS520(10.251.40.41) NAS Seeker	Server Name: IP Address: MAC Address: Firmware Version: Status: Capacity:	NAS520 10.251.40.41 5c:f4:ab:63:6a:55 V5.04(AAS2.0)b2 Online Total: 1.79 TB Used: 199.05 MB Free: 1.79	ТВ	Click the <b>myZyXELcloud</b>
My Tools DeskTop Network Drive Sha	red Folder myZyXELcloud			

► → C https://mydoud.zyxel.com//flocale=en		
ŻyXEL		Language -
	Sign in	
	f Facebook 8: Google	
	or E-mail	
	Password Remember Me Sign in	
	Forgot My Password 🧭 Sign Up	
	Copyright © 2014 Zysel Communications Corp. All rights reserved V.B.20141009_01-release	

myZyXELcloud screen

#### 1.8 Run the Initialization Wizard

Then click **Run Initialization Wizard** to create volume for NAS, and enter the user name and password on the **DeskTop** page.



## 2. myZyXELcloud-Agent

Provide a solution for remote application management and access your ZyXEL network storage accessory.

Z 🖸 🚴 11	1
wyŻyXELcloud	
CPU 66% RAM 28%	ZYXEL NAS520

DeskTop -> myZyXELcloud

#### 2.1 Sign in

#### 2.1.1 Sign in with Facebook

myZyXELcloud - Google Chrome	7.48-8 ×	_ <b>_</b> ×
https://mycloud.zyxel.com		F
ZyXEL		Language ~
-	Sign in	_
	<b>f</b> Facebook Google	-
	È-mail	
	Password	
	Remember Me	
	Sign in	
	🔒 Forgot My Password 🗹 Sign Up	
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Click on the Facebook button

Facebook - Google C	Chrome	
🔒 https://www.fac	cebook.com/login.php?skip_api_login=1&api_key=678292992243317&signed_next=1&next=ht	tps%3A% 🖣
faceboo	Facebook Login Email or Phone: csszyxell@gmail.com Password:	
	Log In or Sign up for Facebook Forgot your password?	
	English (US) 中文(台灣) Español Português (Brasil) Français (France) Deutsch Italiano (교교)	
Mobile Find Friends Create Ad Create Page	ds Badges People Pages Places Games Locations About je Developers Careers Privacy Cookies Terms Help	
Facebook © 2014 English (US)		

Login to Facebook with your account

myZyXELcloud will receive the following info: your public profile and email address.
Edit the info you provide
This does not let the app post to Facebook.
Cancel Okay

Confirm myZyXELcloud will receive some information

ZyXEL	)	
♥ Te	rms of Use	
	Welcome to become a member of ZyXEL. Please first read carefully the following Terms of Use. The Terms of Use are established to protect the interest of the member service providers and all our users and constitute a contract between the users and member service providers. By completing the registration procedures, or beginning to use the member services available from ZyXEL you are deemed to have understood and completely agreed to all the terms and conditions under the Terms of Use.	
	Understand and agree the ZyXEL Cloud Terms of Use *	

Confirm the Terms

#### 2.1.2 Sign in with Google

Click on the Google button and login with your Google account.

https://mycloud.zyxel.com	5	https://accounts.google.com/ServiceLogin?continue=https%3A%2F%2Faccounts.google.com%2Fo%2Fauth%2Fauth%
<b>ŻyXEL</b> cloud	Language -	Google Sign in with your Google Account
Sign in	0,01+elease	Sign is         Vertex is grant a different account         Sign is with a different account         Check insign         With a different account         Image: Sign is with a different account         Decision of the count for every thing Coople         Image: Sign is with a different account         Image: Sign is with a d

Click on the Google button

Confirm that myZyXELcloud will receive some information as well as the terms.

gl <mark>e</mark>	csozywi1@gmail.com +	ZUXEL
- myZyXELcloud	would like to:	Q Terms of Use
View your email address	Ū	
View your basic profile info	0	Welcome to become a member of ZyXEL. Please first read carefully the following Terms of Use.
By clicking Accept, you allow this app and accordance with their respective terms of a change this and other Account Permission	Songle to use your information an mice and privacy policies. You can at any time	The Terms of Use are established to protect the interest of the member service providers and all our users and constitute a contract between the users and member service providers. By completing the registration procedures, or beginning to use the contract of the service provider of the service provider of the service the contract of the service provider of the service provider of the service the contract of the service provider of the service provider of the service provider of the service the contract of the service provider of the service pro
	Cancel	memoer services available from cytect, you are deemed to nave understood and compiletely agreed to all the terms and conditions under the Terms of Use.
		All members have the obligation to properly keep their
		Understand and agree the ZyXEL Cloud Terms of Use *
		Cancel

Confirm terms

#### 2.1.3 Sign up

Click on sign up.

myZyXELcloud - Google Chrome		a and a second	
https://mycloud.zyxel.com			Ę.
ZyXEL			Language ~
_	S	ign in	
	<b>f</b> Facebook	g+ Google	
	E-mail		
	Password Remember Me		
		Sign in	
	Forgot My Passwo	ord 📝 Sign Up	
Copyrig	th © 2014 Zyxel Communication	ns Corp. All rights reserved V.B.2014	1014_01-release

Sign up in this screen

Fill-in the fields on this page.

Sign Up				
* t-mail				
* Password				
* Confirm Password				
First Name				
Middle Name				
Last Name				
Gender	O Male O Ferri	ale		
Birthday	Year + N	Aarth +	Day +	
Mubile Number				
Country				
* Capitha	Type the lost Property	238	Carea-	
i understand and agree	the ZynEL Cloud T	ferms of Use		

Sign up screen



Confirm the Terms

#### 2.2 Pair NAS

myZyXELcloud will search for the NAS in the network.

Zy XEL				
	My Devices	Search Devices		
Search 1	Results		<b>C</b> Research	
	NAS520 MAC Address Firmware Ver. V5.04(AASZ.0)b:	3_myZyXELCloud-Agent_0.0	Pairing	
	Manual	ly Add		

Click on the Pairing button

Confirm to pair with this NAS.

ZyXEL cloud			Log Out
	My Devices	Search Devices	
<b>Q</b> NAS520 :	Pairing		
	NAS520		
Are	you sure you want to p	air with this device?	
	Cancel	Confirm	

Press the confirm button

NAS520 > Pairing
NAS520
Pairing start, please click on paired button of device
09:56
C Zysts
Cancel

Click on the copy/sync button within 10 minutes

Successfully paired. Click on the **Confirm** button to setup DDNS and UPnP.

NAS520 > Pai	ring		
	NAS520		
Success for follo	fully paired. Pleas wing steps to cont	e click "Confirm" button tinue setup.	
	Cor	nfirm	

Successfully paired

Fill-in the host name that you want.

				LOg OU
	My Devices	Search Devices		
♥ NAS520 > [	DDNS Setting			
Host	Name			
Host	Name	xel.me		
Host csozyxi Please use: /Lowercasel	Name eltest .Zy <3 to 63 characters <7 First cl letters(a-z) <7 Hyphen(-)	xel.me	s(0-9)	

Submit

DDNS settings have been completed successfully.

Zyxel cloud				Log Out
	My Devices	Search Devices		
<u>•</u>	NAS520 > DDNS Setting			
	⊙ DDNS settings hav	/e been success	fully.	
[	csozyxeltest.zyxel.me			
	Cor	firm		

Confirm your DDNS

#### Setup the UPnP setting.

		My Devices	Search Devices
NAS52	0 > UP	nP Setting	
Enabled	Status	Service Name	Description
~	OK	AFP	Apple Filing Protocol
~	ОК	CIFS	Windows File Service
~	ОК	FTP	FTP Server
•	ОК	GALLERY_HTTP	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.
~	ОК	HTTP	Web Server
~	OK	NZBGET	This package downloads .nzb file from Usenet. Default username:nzbget password:1234
~	ОК	TELNET	Telnet Service
•	ОК	<u>PHP-MYSQL-</u> PHPMYADMIN_HTTPS	This tool can be used to manage MySQL through the web. Enter 'root' as the username and '1234' as the password to log in.
•	ОК	WORDPRESS_HTTPS	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.
		Cancel	Submit

UPnP Setting screen

Access GUI of the NAS via DDNS from the Internet.



Successfully accessed

#### 2.3 Unpair NAS

ZyXEL		(D) Log Out
	My Devices Search I	Devices
Device	List	
① Succe	sfully authenticated from Google account.	
	csozyxeltest.beta.zyxel.me WAN IP 114.34.247.205 Model NA5520 Last Update 2015/05/08 MAC Address Firmware Ver. V5.04(AAS2.0)b3_myZyXELClo	oud-Agent_0.0.13
	DDNS Setu	p UPnP Setup Unpairing

Press the Unpairing button

Confirm that you will unpair this NAS.

Zyx EL	
NAS520 > Unpairing	
NAS520	
Are you sure you want to unpair with this device?	
Cancel	
Help   Support Recommended browsers: Internet Exploreer 10 and above, Firefox 33 and above, Chrome 38 and above, Safari 8 a Copyright © 2014-2015 ZyXEL Communication Corp. All Rights Reserved V.B.20150505_02-release Recommended screen reso	nd above ution: 1280 by 1024

Press the Confirm button

Device was successfully unpaired.

ZyXEL	Log Out
♥ NA5520 > Unpairing	
) ) ) NAS520	
Device was successfully unpaired.	
Confirm	
Help   Support Recommended browsers: Internet Exploreer 10 and above, Firefox 33 and above, Chrome 38 and above, Safari 8 a Copyright © 2014-2015 ZyXEL Communication Corp. All Rights Reserved V.B.20150505_02-release Recommended screen reso	nd above ution: 1280 by 1024

Successfully unpaired

## 3. Storage

Click on this to open the storage configuration screens.



Type user name and password

- 🗟 🤰			1
	wyZ/XELcloud	Variable       Variable         Variable       Variable         Variable       Variable	
		A	
	CPU 66% RAM 28%		ZYXEL NAS520

Click on Storage

#### **RAID** Types

RAIDTYP E	NO. OFHDD	NO. OF HDDALLOW ED TO FAIL	DESCRIPTION	CAPACITY
Basic	1	0	Use <b>Basic</b> with one disk. It has no fault tolerance.	1 x (HDD size)
JBOD	2-4	0	Use <b>JBOD</b> with two or more disks for maximum capacity. This is just a collection of disks with no fault tolerance.	sum of HDD sizes
RAID 0	2-4	0	Use <b>RAID 0</b> with two or four disks for maximum speed and no fault tolerance.	sum of HDD sizes
RAID 1	2-4	(No. of HDD) - 1	Use <b>RAID 1</b> to create an exact copy of data on one disk to a second disk. Use this with two to four disks to mirror primary data to another disk(s) with high performance. You can add a hot spare to a 2-disk RAID 1.	Smallest HDD size
RAID 5	3-4	1	Use <b>RAID 5</b> with three or four disks to balance performance and hard disk capacity usage with data protection in case of disk failure. You can add a hot spare to a 3-disk RAID 5.	(No. of HDD – 1) x(smallest HDD size)
RAID 6	4	2	Use <b>RAID 6</b> with four disks for more data protection in case of disk failure.	(No. of HDD – 2) x(smallest HDD size)
RAID 10	4	1 HDD in each RAID 1 group	Use <b>RAID 10</b> with four disks to get better performance than RAID 6, with slightly less data protection.	(No. of HDD / 2) x(smallest HDD size)

#### 3.1 Create Volume

Choose Create Volume button (this message displayed when NAS is without a volume).



Create Volume button

Choose Create single volume on RAID or Create Multiple volumes on disk group button.



Select Create single volume on RAID

#### 3.1.1 Create single volume on RAID

Select disks and RAID type for your single volume.

For data protection purposes, we recommend that users use **Recommended RAID** type.

Create Volume						×
1 Select Disks a	and RAID 1	<b>Гуре /</b> ② Summ	nary			
	1. Select dis	ks (i)				
		Disk Name	Size	Model Name		
		Disk1	1.82 TB	ATA WDC WD20EFRX-68A 80.0		
		Disk2	1.82 TB	ATA WDC WD20EFRX-68E 82.0		
	2 Choose a	PAID type				
	2. Choose a	RAID type		1.00 TP	1 00 TP	
	RAID 1 (Red	commended)	•	1.82 ID	1.82 10	
				Availat	ble For data protection wasted	
	Note:	a data protection. Addir	a diaka anhanasa ita rall	ability, but does NOT increase its storage a	appairs and may alow down the performance	
	HAID TOILER	s data protection. Addir	ig disks ennances its reik	ability, but does not increase its storage o	apacity and may slow down the performance.	
					Back Next Cancel	

Select disks and RAID type

Create Volume						Х
① Select Disks	and RAID 1	Гуре / ② Sumr	mary			
	1. Select dis	ks (i)				
		Disk Name	Size	Model Name		
		Disk1	1.82 TB	ATA WDC WD20EFRX-68A 80.0		
		Disk2	1.82 TB	ATA WDC WD20EFRX-68E 82.0		
r i		2412 1				
	2. Choose a	RAID type		1 00 TP	100 TP	
	JBOD	commended)		1.62 10	1.02 10	
	RAID 0	commended)		Avai	lable For data protection wasted	
L	Note: RAID 1 offers	s data protection. Add	ing disks enhances its re	ellability, but does NOT increase its storage	e capacity and may slow down the performance.	
					Back Next Cancel	

Select a RAID type from the drop-down list.

NAS520 support JBOD, RAID0, RAID1

Create Volume				Х
1 Select Dis	ks and RAID Type / ② Sur	nmary		
	Item	Value		
	Disk Selected	Disk1,Disk2		
	RAID Type	RAID1		
	Volume Type	Single volume on RAID (no disk group)		
	Volume Name	Volume1		
	Volume Capacity	1.82 TB		
			Back Apply	Cancel

Volume information

#### Go to Desktop -> Storage

Use the Storage screens to configure disk groups and volumes. This page shows the current storage usage for each volume built directly on top of a RAID.

Storage							⑦ – □ ×	
Overview	Volume	<i>()</i>						
Volume	Create	Manage	e Delete	Add Hot Spare	Remove Hot Spare			
Disk Group	Status	Status Volume Name		RAID Type	Available Capacity		Hot Spare (j)	
Hard Disk	(Resyn	icing 0. Vo	lume1	raid5 (Disk4,Disk	0%	0% 5.40 TB / 5.40 TB		
	Volume	on Dis	k Group ()					
	Create	Edit	Delete					
					No Volume			

Check the Volume status

The Storage Overview screen displays the current storage configuration and volume usage.

Storage		⑦ –
Overview	Storage	-
Volume Disk Group Hard Disk	Volume1 is resyncing.	
	Healthy	
	Volume Usage	^
	Volume 🕖	^
	Volume1 199.10 MB / 1.79 TB	
	Volume on Disk Group 🤃	^

Storage status

#### 3.1.2 Create Disk Group

Click on this to format the internal hard disks and create a new disk group. All data on the disk(s) will be lost.

Storage							?	-	×
Overview	You can cr	eate multiple	volumes on	a disk group. You ca	n expand volumes when	the disk group has unallocated	capacity.		
Volume	Create	Manage	Delete	Add Hot Spare	Remove Hot Spare				
Disk Group									
Hard Disk					No Disk Oracia				
					NO DISK Group				

Storage->Disk Group

This lists all available hard disks in the table and displays the disk trays of the hard disks that are currently installed (according to the graphic on the right). Select a RAID type from the drop-down list.

l	1. Select disk	ks (j) Disk Name	Size	Model Name	
		Disk1	1.82 TB	ATA WDC WD20EFRX-68A 80.0	
		Disk2	1.82 TB	ATA WDC WD20EFRX-68E 82.0	
Г	2. Choose a F	RAID type	_		
	RAID 1 (Rec	ommended)		1.82 TB	1.82 TB
	JBOD RAID 0			Availabl	e For data protection wasted
		commended)			
L	Note.	data protection. Addi	na diaka anhanana ita	s reliability, but does NOT increases its storage out	pacity and may alow down the performance

Select disks and RAID type

Storage	⑦ ·	- 5	5 )	×
Overview	You can create multiple volumes on a disk group. You can expand volumes when the disk group has unallocated capacity.			
Volume	Create Manage Delete			
Disk Group	Disk Group 1: 🔴		~	
Hard Disk	RAID Type       : raid0         Usage       :       0%         100.00 MB / 3.63 TB       :			

Disk Group create down

#### Create a volume in your disk group.

Storage					? –		
Overview	Volume	<i>()</i>					
Volume	Create	Manage	Delete				
Disk Group							
Hard Disk				No Volume			
	Volume on Disk Group 🕧						
	Create	Edit De	elete				
				No Volume			

Volume->Create

Create Volume on Disk (	Group		×
① Create Volume	e / ② Summary		
	Create volume on disk group		
	Disk group information		
	Name	Disk Group 1	
	Unallocated capacity	100.00% 3.63 TB / 3.63 TB	
	Create Volume		
	Volume Name	Volume1	
	Allocated volume size	1000 GB MAX	
		Back Next Cancel	

Setting your volume size for this disk group

Create Volume on Disk G	àroup		Х
① Create Volume	/ ② Summary		
	Item	Value	
	Volume Type	Multiple volumes on RAID (Disk Group 1)	
	Volume Name	Volume1	
	Volume Capacity	1000 GB	
		Back Apply Cancel	)

Disk Group type and volume information

This page shows the current storage usage for each volume built directly on top of a RAID.

Storage									? –		×
Overview	Volume	<i>(i)</i>									
Volume	Create	Manage	Delete								
Disk Group											
Hard Disk					No V	olume					
	Volume	on Disk	Group (j)								
	Create	Edit	Delete								
	Disk Group	1: Usage		26.90%	1000.10	0 GB / 3.63 TB					
	Status		Volume Name	)	File System	Usage					
			Volume1		ext4		0.02%	202.99 MB /	984.31 G	B	

Check volume of disk group status

You can create multiple volumes on a disk group and customize the size of a volume.

							Ċ	/ _			
Volume ()											
Create	Manage	Delete									
	NO VOIUTIE										
Volume	on Disk (	Group (j)									
Create	Edit E	Delete									
Disk Group	1: Usage		53.7 <mark>9%</mark>	1.95 TB / 3.	63 TB						
Status		Volume Name	e File System	Us	sage						
0		Volume1	ext4			0.02%	203.11 MB / 98	34.31 GB			
		Volume2	ext4			0.02%	199.37 MB / 98	34.31 GB			
	Volume Create Volume Create Disk Group Status	Volume () Create Manage Volume on Disk () Create Edit [] Disk Group 1: Usage Status [] ()	Volume ()       Create     Manage       Delete       Oreate       Edit       Delete       Disk Group 1:       Usage       Status       Volume 1       Volume 2	Volume ()       Delete         Create       Manage       Delete         Volume on Disk Group ()       Output       Greate         Edit       Delete       Status         Volume Name       File System         Status       Volume Name       File System         Volume 1       ext4         Volume 2       ext4	Volume ()       Delete         Create       Manage       Delete         Volume on Disk Group ()       No Volun         Create       Edit       Delete         Disk Group 1:       Usage       53.79%       1.95 TB / 3.         Status       Volume Name       File System       U         O       Volume1       ext4       [         Volume2       ext4       [	Volume ()       Delete         Create       Manage       Delete         No Volume       No Volume         Volume on Disk Group ()       Instantion         Create       Edit       Delete         Disk Group 1:       Usage       53.79%       1.95 TB / 3.63 TB         Status       Volume Name       File System       Usage         O Volume1       ext4       Instantion         Volume2       ext4       Instantion	Volume ()       Delete         Create       Manage       Delete         No Volume       No Volume         Create       Edit       Delete         Disk Group 1:       Usage       53.70%       1.95 TB / 3.63 TB         Status       Volume Name       File System       Usage         Image       Volume 1       ext 4       0.02%         Volume 2       ext 4       0.02%       1.95 TB / 3.63 TB	Volume ()       Delete         Create       Manage       Delete         No Volume       No Volume         Volume on Disk Group ()       Instantion         Create       Edit       Delete         Disk Group 1:       Usage       53.19%       1.95 TB / 3.63 TB         Status       Volume Name       File System       Usage         Quite Name       File System       Usage         Volume1       ext4       0.02%       203.11 MB / 98         Volume2       ext4       0.02%       199.37 MB / 98	Volume ()       Delete         Create       Manage       Delete         No Volume       No Volume         Create       Edit       Delete         Disk Group 1:       Usage       53.79%       1.95 TB / 3.63 TB         Status       Volume Name       File System       Usage         Image       Volume1       ext4       0.025%       203.11 MB / 984.31 GB         Volume2       ext4       0.025%       199.37 MB / 984.31 GB		

Multiple volumes on disk group

#### Check the disk group information.

Storage				0	_		×
Overview	You can create mult	ple volumes on a disk	group. You can expand vo	olumes when the disk group has unallocated capacity.			
Volume	Create Manag	e Delete					
Disk Group	Disk Group 1: 😑					^	
Hard Disk	RAID Type : r Usage : [ Disk Info	aid0 100.00%	3.63 TB / 3.63	з ТВ			
	Status	Disk Name	Size	Model Name			
	•	Disk1	1.82 TB	ATA WDC WD20EFRX-68A 80.0			
	•	Disk2	1.82 TB	ATA WDC WD20EFRX-68E 82.0			

Disk Group status

The Storage Overview screen displays the current storage configuration and volume usage.

Storage		?	- =	х
Overview	Storage			
Volume				
Disk Group				
Hard Disk				
	Healthy			
	Volume Usage		$\sim$	
	Volume 🕖		~	
	Volume on Disk Group (j)		^	
	Disk Group 1			
	O%         O%         O%         Used (Normal)           Volume1         Volume2         Volume3         Used (Normal)           203.07 MB / 984.31 GB         199.37 MB / 984.31 GB         196.03 MB / 1.65 TB         Used (Normal)			

Check storage status

#### 3.2 Repair volume

The Repair RAID option is available only when a degraded volume is selected.

Storage		⑦ – □ ×
Overview	Storage	<u>^</u>
Volume Disk Group Hard Disk	Volume1 is degraded. Repair Warning	
	Volume Usage	^
	Volume 🕖	^
	Volume1 32.57 GB / 1.79 TB	
	Volume on Disk Group 🕖	^
		•

Volume degraded

Use the **Manage Volume** screen to repair, expand a volume or change the RAID type of the volume.

Storage					? – □	×
Overview	Volume (j)	Volume 🕡				
Volume	Create Man	age Delete				
Disk Group	Status	Volume Name 🛦	RAID Type	Usage		
Hard Disk	0	Volume1	raid1 (Disk1)	1.78%	32.57 GB / 1.79 TB	
	<b>Create</b> Edit	Delete				
	No Volume					

Click Manage

#### Select Repair RAID.

Manage Volume	Х
Choose an Ad	ction
	Repair RAID When a RAID type with data protection becomes degraded, you can replace the failed disk with a new one and repair the RAID
	Expand the volume by adding disk(s)
	Expand the volume with unallocated disk space If there is unallocated disk space on a RAID after repair, use this option to expand the volume
	Change RAID Type
	Note: Managing a volume as a disk group may increase the people its of a follow disk, so we would suggest you to beckup important data beforehand
	managing a volume or a disk group may increase the possibility or a tailed disk, so we would suggest you to backup important data beforenand.
	Next Cancel

Repair RAID

Select which disk to repair the RAID volume.

lanage Volume					
) Select Dis	ks / Summar	У			
	You are repa	iring the RAID of "	Volume1"		
	Status RAID Turne	: Degraded			
	Disk Info	. raiu i			
	Status	Disk Name	Size	Model Name	
		Dickt	1 00 TB		
		Diski	1.02 10		
	Select a disk	to replace the faile	ed one		
	001001 4 01011	to replace the fait			
		Disk Name	Size	Model Name	
		Disk2	1.82 TB	ATA WDC WD20EFRX-68E 82.0	
		5531 <i>20</i> 3320			
	Expected	Capacity			
		1 3			
		1.82 IB		1.82 IB	
			Avail	inhia 📕 Ear data protostion 📕 wasted	

Select disk

#### Repair information.

Manage Volume			×
① Select Disks /	Summary		
	Item	Value	
	Action	Repair RAID	
	Volume Name	Volume1	
	Disk Selected	Disk2	
	Volume Capacity	1.82 TB	
		Back Apply	Cancel

Check the information and click on Apply

The NAS's	norcontago	progross in	ropairing the	volumo wi	ll ha chawa
The MASS	percentage	progress in	repairing the	volume wi	n de snown.

Storage					? — ⊟ ×		
Overview	Volume (j)	Volume 🕧					
Volume	Create Manage	Delete					
Disk Group	Status	Volume Name 🛦	RAID Type	Usage			
Hard Disk	Repairing (Resyn cing 0.1%)	Volume1	raid1 (Disk1,Disk2)	1.78%	32.57 GB / 1.79 TB		
	Volume on Disk Group 🕧						
	Create Edit	Delete					
	No Volume						

Volume status
## 3.3 Delete Volume

Select a volume and click **Delete** to remove it. If you delete a volume, all data in the volume disks is erased.

Storage						(? – ⊟ ×	
Overview	Volume ()						
Volume	Create Manage	Delete Add Hot	Spare Remove Ho	t Spare			
Disk Group	Status	Volume Name	RAID Type	Available Capacity		Hot Spare (j)	
Hard Disk	(Resyncing 51.4%)	Volume1	raid1 (Disk2,Disk1)	0.01%	1.79 TB / 1.79 TB	not supported	
	Volume on Disk	Group ()					
	Create Edit	Delete					
				No Volume			

Click on Delete

Click on **Yes** to confirm to delete this volume.

Delete Volum	ne >	<
4	ALL Data On this Volume will be DELETED. Are you sure you want to DELETE this Volume?	
	Yes No	

# 4. Administrator

The **DeskTop** screen displays an **Administrator** icon when you login with an administrator account. Click it to open the administrator configuration screens in a new tab.

See 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10						1
	myZyXELcloud	Jorage	Tatus Center	Help		
2	CPU 60	5% 3%			ZJYXEL NAS52	20

DeskTop screen

The **Status** screen is the first advanced administration screen that displays. The navigation panel on the left of the **Web Configurator** screen contains screen links. Click a link to display sub-links.

ZyXEL					Language	English
tatus	Status					
IAS520	System Informatio	n				
ASS20 − Firmware/Packages − Server Name − Date/Time − Storage ← External Volume − Network − TCP/IP − UPNP Port Mapping − PPPoE − Telnet/SSH − DONS Anglications	Server Name Model Name Firmware Version Media Server Status TP Server Status Web Publishing Stat UPS CPU Usage CPU Usage FAN Speed Memory Usage	NAS520 NAS520 VS.04(A/ Enabled US Disabled NA 631 RPM	ASZ.0)b3	1 4 4 4 4 4 <b>6 6 6 6</b>		
-FTP Server -Media Server -Tunes Server -Download Service -Web Publishing -Print Server	Volume Status External Volume		20080/33380			
-Copy/Sync Button	Status	Name	File System	Disk(s)	D	isk Usage
- Auto Upload - Flickr/YouTube - FTP Uploadr - Dropbox - Time Machine	Healthy	JetFlash-Transcend-16GB- 1-001	fat32	Front USB	14.70 GB Total	■ 0.67% (101.20 MB) Used ■ 99.33% (14.60 GB) Free
GoogleDrive						
Syslog Server	Active Sessions					
Lisers						
-Groups	Type	Share Name	Username	Connecte	ed At	IP Address
-Shares	Web		admin	2015-05-08 0	9:29:49	10.251.40.42
WebDAV	Web		admin	2015-05-08 1	0:16:54	10.251.40.33
Maintenance	CIFS	music	pc-guest	2015-05-08 0	9:54:17	10.251.40.33
—Power —Log —Configuration —SSL	CIFS	photo	pc-guest	2015-05-08 0	9:42:23	10.251.40.42
Shutdown						
Durate at		a di s				

Status screen

### 4.1 Network

Use the **TCP/IP** screen to have the NAS use a dynamic or static IP address, subnet mask, default gateway and DNS servers.

Network - TCP/IP		
IP Address		
Teaming Mode Standalone 💌		
Default Gateway		
🛃 Note:		
• The network cable for LAN2 is currently unplugged.		
LAN1	LAN2	
• Dynamic	Oynamic	
○ Static	○ Static	
IP Address 10.251.40.45	IP Address 10.251.40.41	
IP Subnet Mask 255.255.255.0	IP Subnet Mask 255.255.255.0	
Gateway 10.251.40.1	Gateway 10.251.40.1	
IPv6 Settings	IPv6 Settings	
DNS		
O Dynamic		
Static     Drimony DNS Service     10 251 252 254		
Secondary DNS Server 0.0.0.0		
HTTP (Web Configurator)		
Enable Another HTTP Web Configuration Port Port Number:		
Note: NAS will use port 8082 for media streaming.		
Network Diagnostic Tool		
Message Ready		۲

Network screen

Select how to use the NAS's two Gigabit Ethernet interfaces.

#### **Teaming Mode**

- **Stand Alone:** Select this option to use a separate IP address on each of the two Gigabit Ethernet interfaces.
- Link Aggregation: Select this option to use IEEE 802.3ad port link aggregation to combine the two Gigabit Ethernet interfaces into a single logical link.

Network - TCP/IP				
IP Address				
Teaming Mode	Standalone			
Default Gateway	LAN1	Y		
i.Note:				
• The network cable for LAN	L is currently unplugg	ed. The NAS wil	l use LAN2 as the default gateway	vuntil LAN1 is plugged in again
L	AN1		LAN2	
Oynamic			Oynamic	
Static			Static	
IP Add	ress 0.0.0.0		IP Address	10.251.40.41
IP Subnet N	1ask 0.0.0.0		IP Subnet Mask	255.255.255.0
Gate	way		Gateway	10.251.40.1
IPv6 Settings			IPv6 Settings	
DNS				
Dynamic     Otatia				
Static     Primary DNS Ser	(er 10.251.253.254			
Secondary DNS Ser	ver 0.0.0.0			
HTTP (Web Configurator)				
	h Canflermation Deat			
Dert Number	d Configuration Port			
Port Number:				
길 Note:				
NAS will use port 8082 f	or media streaming.			
Network Diagnostic Tool				
Host	Ping			
1050	Ping.	••••••		
		Apply	Reset	

Select Teaming mode for NAS

Select the LAN interface to use as the default gateway.

Address				
Feaming Mode	Standalone	×		
) efault Gateway	LAN1	×	1	
Note:	AN1 is currently unplug	ged. The NAS wi	I use LAN2 as the default gateway	until LAN1 is plugged in aga
	LAN1		LAN2	
Oynamic			Oynamic	
Static			○ Static	
IP	Address 0.0.0.0		IP Address	10.251.40.41
IP Subr	net Mask 0.0.0.0		IP Subnet Mask	255.255.255.0
	Gateway		Gateway	10.251.40.1
IPv6 Settings			IPv6 Settings	
NS				
Dynamic				
Static				
Primary DNS	Server 10.251.253.254			
Secondary DNS	Server 0.0.0.0			
TTP (Web Configurator)				
Enable Another HTTP	Web Configuration Port			
Port Number:				
Note: NAS will use port 808	32 for media streaming.			
etwork Diagnostic Tool				
lost	Ping			
		Apply	Reset	

Select default gateway

The NAS supports IPv6 (Internet Protocol version 6), designed to increase IP address space and enhance features. You can click **Network > TCP/IP** for further configuration.

Network - TCP/IP	
IP Address	
Teaming Mode Standalone 💌	
Default Gateway	
<ul> <li>Note:</li> <li>• The network cable for LAN1 is currently unplugged. The NAS</li> </ul>	will use LAN2 as the default gateway until LAN1 is plugged in again.
LAN1	LAN2
Oynamic	Oynamic
○ Static	<ul> <li>Static</li> </ul>
IP Address 0.0.0.0	IP Address 10.251.40.41
IP Subnet Mask 0.0.0.0	IP Subnet Mask 255.255.255.0
Gateway	Gateway 10.251.40.1
IPv6 Settings	IPv6 Settings
DNS	
O Dynamic	
<ul> <li>Static</li> </ul>	
Primary DNS Server 10.251.253.254	
Secondary DNS Server 0.0.0.0	
HTTP (Web Configurator)	
Enable Another HTTP Web Configuration Port Port Number:	
Note: NAS will use port 8082 for media streaming.	
Network Diagnostic Tool	
Host Ping	
Apply	Reset

Click on IPv6 Settings

Click on this to configure the following IPv6 settings.

Mode -

- Select **Auto** to have the Device use the IPv6 prefix from the connected router's Router Advertisement (RA) to generate an IPv6 address.
- Select Static if you have a fixed IPv6 address assigned by your ISP.
- Select **Disable** to not assign any IPv6 address for the NAS.

IPv6 Settings	
Mode Address Subnet prefix length Default Gateway	Disable V Disable Auto Static
[	Apply Cancel

Select Disable / Auto / Static

IPv6 Settings		
Mode	Auto	
Address	fe80::5ef4:abff:fe63:6a54	
Subnet prefix length	64	
Default Gateway		
	Apply Cancel	

Auto will get IPv6 IP address automatically

Select HTTP to configure an additional HTTP port for accessing the web. .

Network - TCP/IP			
IP Address			
Teaming Mode Standalone			
Default Gateway			
Note: • The network cable for LAN1 is currently unplue • The network cable for the ne	ugged. The NAS wi	I use LAN2 as the default gateway	until LAN1 is plugged in again.
		, ,	
LAN1		LAN2	
Oynamic		Oynamic	
Static		Static	
IP Address 0.0.0.0		IP Address	10.251.40.41
IP Subnet Mask 0.0.0.0		IP Subnet Mask	255.255.255.0
Gateway		Gateway	10.251.40.1
IPv6 Settings		IPv6 Settings	
DNS			
Dynamic			
Static			
Primary DNS Server 10.251.253.25	4		
Secondary DNS Server 0.0.0.0			
HTTP (Web Configurator)			
Enable Another UTTP Web Configuration Part			
Part Numbers	L		
Port Number.			
🧾 Note:			
NAS will use port 8082 for media streaming	g.		
Network Diagnostic Tool			
Host	ng		
	Apply	Reset	

Configure and specify a number in the **Port Number** field

### 4.2 Auto-upload Service

ZyXEL NAS allows users to automatically upload their pictures to the Flickr website (<u>http://www.Flickr.com</u>) and video files to the YouTube website (<u>http://www.youtube.com</u>). Additionally, automatic FTP uploading is supported in the NAS. To use this feature, you need to download the same package as the NAS210's.

#### Auto-upload Pictures to Flickr

To share pictures on the Flickr website (http://www.Flickr.com), the NAS supports automatic uploading of pictures from a given folder of the NAS.

#### **Configuration Procedure:**

- Enable auto-upload in Flickr service.
- Configure the account Flickr account information.
- Link your NAS with your Flickr account.
- Specify the folders, which you want NAS to automatically, upload your pictures.
- Specify the grace period and other options in the auto-upload function.
- Move pictures to the folders you specified in the previous step.
- Check the result in the Flickr website.
- Check the system log in the NAS.

First, login to the web GUI page in NAS, go to **Applications > Auto Upload** > **Flickr/YouTube**. Then, enable **Flickr service** as shown below. After enabling the Flickr service, you will see two more icons on the same page.

Applications -	Auto Uplo	ad - Flickr/YouTube		
Flickr/YouTu	be			
0				
	Pause	Config		
Status		Service Name	Account Information	
Enabled		Flickr	Non-authorized	
Disabled		YouTube		
_				
Messag 🖵	e	Ready		۲

Enable Flickr service.

Click on the **config** icon to set a more detailed configuration. There will be several system notifications to warn you that you are going to link to the Flickr website. Meanwhile, please ensure that you have the Flickr account information. After configuring the account information, the system will inform you about the

connection to Flickr.

In the following pop-up browser window, you need to authorize the connection between your account and your NAS.

flickr	You	People	Groups	Explore	Upload						Q		100
			NO	Hi									
			0-s I	Flickr Auto Uple	oad wants to lin	k to yo	ur Flickr account.						
			Ţ	To ensure that the the the the transmission of transmission of the transmission of the transmission of the transmission of transmissio	nis is a genuine r	equest,	please select from one of the		What's going on here? Flickr encourages other developers to build cool tools for you to play with				
				If you arrived a because you fo from an email, web page not a Flickr Auto Up here:	t this page ollowed a link IM, twitter, or associated with bload, click	or	If you arrived at this page because you specifically asked Flickr Auto Upload to connect to your Flickr account, click here:		but you must authorize these third parties to access your account. Want to know more? A wealth of information lies within the Flickr Services page.				
					NEXT		NEXT						
		About	Jobs	Blog N	Nobile D	evelope	ers Guidelines	Feedba	ck Report abuse	Help forum	Er	nglish ~	
	-	Privacy	Terms	Yahoo Safely	Help		Flickr, a Yahoo company			t	8	9+	

Authorization between your account and NAS

The following figure shows that you can agree to this link after clicking on the **OK** button.

flickr	You	People	Groups	Explore	Upload							Q			6
			NO	Hi											
			®-∞ F	lickr Auto Up	oad wants	to link to your	Flickr account.								
			This is	a third-party serv	ice. If you do	n't trust it with acce	ess to your account, then you s	hould not a	authorize it.						
			B	iy authorizing t	his link, you ur Flickr ac	'll allow Flickr A	uto Upload to: private content)		What's going on here? Flickr encourages other d to build cool tools for you	? levelopers to play with,					
				🖌 Upload, E	dit, and Re	place photos an	d videos in your account		but you must authorize the parties to access your acc	ese third count.					
				Interact w notes, favo	th other me rite)	mbers' photos a	and videos (comment, add		Want to know more? A wealth of information lie Flickr Services page.	es within the					
			F	lickr Auto Up	oad will no	have permissio	n to:								
				X Delete pho	otos and vid	eos from your a	ccount								
				OK, I'LL AUTHO	ORIZE IT	NO THANKS									
			Y U a	our Yahool and F Ipload will have t ccount. (You can our account prefs	lickr passwor he permissior revoke such .)	ds will always rem: s listed above unti inks at any time in	ain private, but Flickr Auto I you revoke its link to your the Extending Flickr section o	f							
		About	Jobs	Blog	Mobile	Developers	Guidelines	Feedba	ack Report abus	e	Help forum		Englist		
		Privacy	Terms	Yahoo Safely	He	lp	Flickr, a Yahoo compan	У			t	6	¥	8+	

Authorization screen



Successful authorization

After allowing the agreement in the Flickr page, please also click on the **Get ready** button in the NAS.

🛃 Note: When you've given the NAS permission to connect to your account on the Flickr website, click the "Get Ready" button.
Get Ready

Click on "Get Ready".

You can check the service status in the NAS under **Applications > Auto Upload > Flickr/YouTube.** 

In this case, we can see the storage status in your Fickr account.

r/YouTube				
<b>9</b>				
sable Pause	Config			
<u>Status</u>	Service Name		Account Inform	nation
		Username		
		Dhata Crasa Usaga		🗧 0% (0.00 Bytes) Used
Enabled	Flickr	Photo Space Usage	204.80 GB Total	100.00% Free
		Video Elles Hears	Uploaded	0
		Video Files Usage Remain		Unlimited
Disabled	YouTube			

Monitor the service status

Afterwards, users need to set which folder(s) of the NAS will be monitored and uploaded to the Flickr website. In this example, we are going to set the folder named as "photo1" under the public folder to be monitored and upload all the pictures to the Flickr website.

Applications - Auto Upload - Flickr/YouTube						
Flickr Account Configuration						
Username						
Photo Space Usage	204.80 GB Total	0% (0.00 Bytes) Used 100.00% Free				
Video Files Usage	Uploaded Remain	0 Unlimited	Switch User			
Folder Selection						
Folder Watch List						
Status Sl	hare Name	Path	Action			
Add Note: Only the following file formats will be automatically uploaded: bmp, gif, jpeg, jpg, png, tif, tiff, 3gp, 3g2, avi, mov, mpeg, mpg, wmv, mp4						
Grace Period						
The time the system will wait before a newly added media file is saved in a watched folder. Grace Period 15 minutes						
Default Privacy						
Who can see your media files on Flickr? Only You Your friends Your family Anyone						
Hide from public site area?						

Configure Grace Period in the GUI

In this example, we have configured the grace period as two minutes. This means that the NAS will upload any newly added pictures from the folder that you specified after 15 minutes from when you clicked on the **Apply** button.

Applications - Auto Upload - Flickr/YouTube						
Grace Period						
The time the system will wait before a newly added media file is saved in a watched folder. Grace Period 15 minutes						
Default Privacy						
Who can see your media files on Flickr?   Only You  Your friends  Your family  Anyone  Hide from public site area?						
Default Safety Level						
<ul> <li>Safe</li> <li>Moderate</li> <li>Restricted</li> <li>Note:</li> <li>Video on Flickr may only include "Safe" or "Moderate" content.</li> <li>"Restricted" video content is not allowed on Flickr and will be removed.</li> </ul>						
Default Content Type						
Photos / Videos     Screenshots / Screencasts     Illustration / Art / Animation / CGI     Apply     Reset						
Message Ready						

Configure Grace Period in the GUI

Please specify the given folder that the NAS will monitor and upload the pictures after applying the configuration.

Applications - Auto Up	Applications - Auto Upload - Flickr/YouTube						
Flickr Account Confi	Flickr Account Configuration						
Username	tiramisu1025						
Photo Space Usage	204.80 GB Total	0% (0.00 Bytes) Used 100.00% Free					
Video Files Usage	Uploaded Remain	0 Unlimited	Switch User				
Folder Selection							
Folder Watch List							
<u>Status</u>	Share Name	<u>Path</u>	Action				
Add There are currently no folders on the watch list.							
Note: Only the following file formats will be automatically uploaded: bmp, gif, jpeg, jpg, png, tif, tiff, 3gp, 3g2, avi, mov, mpeg, mpg, wmv, mp4							

Specify the folder

Add Watch Folder	
Share	Auto_Upload
Path	Browse
	Cancel

Select share and path

Browse					
Current Location	n: /			Folder Name: Flickr	<b></b>
<u>Type</u>		204.80.68.10	Name		
- <b>-</b>	ulden filme i len	Uploaded	0		
			Apply Cancel	]	

Or create folder in Browse page

Please remember to click on the Apply button after specifying the given folder. The NAS will monitor any need added pictures in the folder you assigned after you have clicked on the Apply button.

Browse						
Current Location: ,	/	dramisu 1025	0%	(0.00 Bytes) Us	Folder Name:	
<u>Type</u>			<u>N</u>	ame		
<u></u>	_					
🗀 Flickr		Remain	U	hlimited		
	Polder Selection					
dapping						
iervice						
ling						
Buildian						
d						
di Ube adr						
680°	• Only You Di Your friend		Apply	Cancel		

Click on "Apply" after specifying the folder

After 15 minutes, the NAS will upload the newly added photos to the Flickr website. In this example, we can see that one picture has been uploaded to the website.



Uploaded photo

## 4.3 Dropbox

Dropbox provides a files backup service. You create an account for Dropbox (https://www.dropbox.com), Dropbox will give you 2 GB of storage for your files backup. The NAS will automatically download the files from the Dropbox server.

Applications - Dropbox					
Status					
Status	Disabled				
Name	N/A				
Email	N/A				
Capacity	0% (0.00 Bytes) Used 0.00 Bytes Total 100.00% Free				
Configuration					
Enable Dropbox					
<ul> <li>Note:</li> <li>The default directory is in admin/Dropbox/FromDropbox.</li> </ul>					
	Apply				

Go to Applications > Dropbox. Then, enable the Dropbox service.

Applications - Dropbox	Applications - Dropbox						
Status							
Status	Disabled						
Name	N/A						
Email	N/A						
Capacity	0% (0.00 Bytes) Used 0.00 Bytes Total 100.00% Free						
Configuration							
Enable Dropbox	Enable Dropbox						
🔒 Note:							
The default directory is in admin/Dropbox/FromDropbox.							
	Apply						

Dropbox screen

After you enable the Dropbox service, the browser is going to link to the Dropbox website. Meanwhile, please make sure that you have the Dropbox account information.

After configuring the account information, the system will notify you about the connection to Dropbox.

In the following popup browser, you need to authorize the connection between your account and your NAS.

🔑 Log in	🖉 Create an Acco	int
	Log in 1	o Dropbox
	Email	
Pa	ssword	
		🔲 Remember me
		Forgot password?
		Log in

Login to Dropbox.

API Request Authorization - Dropbox - Google Chrome	
https://www.dropbox.com/1/oauth/authorize?oauth_token=BElfwL87VQaJu8BL	5
ZyXEL NAS would like access to the files and folders in your Dropbox.     Cancel	cso cso ★
	31/77 АК

Authorization between your account and NAS.



Success! ZyXEL NAS is connected to your Dropbox.

After allowing the agreement in the Dropbox page, please also click on the **Get ready** button in the NAS.

👔 Note: When you've given the NAS permission to connect to your account on the Dropbox website, click the "Get Ready" button.
Get Ready

Click on Get Ready.

You can check the service status in the NAS under **Applications > Dropbox**. In this case, we can see the storage status in your Dropbox account.

Applications - Dropbo	0X				
Status					
Status	Ready				
Name					
Email	Logout				
Capacity	35.34% (1.33 GB) Used           3.75 GB Total           64.66% Free				
Configuration					
🛃 Enable Dropbo>	x				
i Note: The default directory is in admin/Dropbox/FromDropbox.					
Apply					

Monitor the service status

This creates Drop2NAS and zDownload folders in your Dropbox account. The NAS checks the Dropbox account's Drop2NAS and zDownload folders every three minutes.

https://www.dropbox.com/h	ome		
			☆ Upgrade account 📿 CSO CSO 🔻
<b>\$</b>	Dropbox		🛱 🗊 🔍 Search
Files	Name 🔺	Kind	Modified
Photos Sharing	Drop2NAS	folder	
Links	zDownload	folder	-
<ul> <li>Events</li> <li>Get Started</li> </ul>	AATB101.bm	file	11 mins ago
	Getting Started.pdf	document	11 mins ago

The NAS connects to Dropbox and copies files in the Drop2NAS folder to the NAS's admin\Dropbox\FromDropbox folder, and then empties the Drop2NAS folder. The NAS initiates connections to the Dropbox server so you do not need to configure rules on a firewall in front of the NAS to allow access to the NAS. When your PC has installed Dropbox, you can upload files to the Drop2NAS folder, and then NAS will get files from the Dropbox server.

Note: Do not delete the NAS token file, as it is needed for your NAS to work with the Dropbox account.

			_	
😋 🔵 🗢 📙 🔸 ZT01457 🔸 Dropt	ox 🕨 Drop2NAS		✓ Sec	arch Dro 🔎
Organize 🔻 🔚 Preview 🔻	Share with 🔻 Print New folder			
🔆 Favorites	▲ Name	Date modified	Туре	Size
Boxcryptor	💭 2014-07-26-11-30-46-767.jpg	7/26/2014 11:30 AM	JPEG image	272 KE
🧮 Desktop	🔛 2014-08-01-21-57-48-128.jpg	8/1/2014 9:57 PM	JPEG image	405 KF
鷆 Downloads	🔛 2014-08-13-11-13-46-733.jpg	8/13/2014 11:13 AM	JPEG image	277 KE
💝 Dropbox	🔊 2014-08-13-14-51-34-451.jpg	8/13/2014 2:51 PM	JPEG image	381 KI
🔏 Google Drive	🔊 2014-08-23-14-37-25-806.jpg	8/23/2014 2:37 PM	JPEG image	391 KE
🖳 Recent Places	2014-08-23-14-38-05-879.jpg	8/23/2014 2:38 PM	JPEG image	384 KE
	= 🔁 2014-08-23-14-42-01-937.jpg	8/23/2014 2:42 PM	JPEG image	325 Ki
🥃 Libraries	🔛 IMG_20140614_130714.jpg	6/14/2014 1:07 PM	JPEG image	1,854 KE
Documents	🔝 IMG_20140622_100526.jpg	6/22/2014 10:05 AM	JPEG image	1,757 Ki
🌙 Music	🗾 IMG_20140628_093602.jpg	6/28/2014 9:36 AM	JPEG image	1,440 Ki
Pictures	🔛 IMG_20140628_093709.jpg	6/28/2014 9:37 AM	JPEG image	1,599 Ki
Videos	🗾 IMG_20140628_093728.jpg	6/28/2014 9:37 AM	JPEG image	1,615 KE
	MG_20140629_133218.jpg	6/29/2014 1:32 PM	JPEG image	1,727 Ki
🔣 Homegroup	🔛 IMG_20140629_133837.jpg	6/29/2014 1:38 PM	JPEG image	1,107 Ki
	🔛 IMG_20140706_121635.jpg	7/6/2014 12:16 PM	JPEG image	1,799 KE
🖳 Computer	NAStoken	10/15/2014 11:44	File	1 KI
🚢 Local Disk (C:)	😹 Readme_Drop2NAS.pdf	10/15/2014 11:44	Foxit Reader PDF	130 KE
👝 Data (D:)				•
2014-07-26-11-30-4 JPEG image	<b>5-767.jpg</b> Date taken: 7/26/2014 11:30 AM Tags: Add a tag	Rating: ជិជិជិជិ	3	

Upload files to folder.

			😭 Upgrade account 🛛 🔔 CSO CSO 🔹
÷	Dropbox > Drop2NAS	G 63 62	Q Search
Files	Name 🔺	Kind	Modified
Photos Sharing	2014-07-26-11-30-46-767.jpg	image	2014/7/26 11:30 AM
Ø Links	2014-08-01-21-57-48-128.jpg	image	2014/8/1 9:57 PM
③ Events ▲ Get Started 3	2014-08-13-11-13-46-733.jpg	image	2014/8/13 11:13 AM
	2014-08-13-14-51-34-451.jpg	image	2014/8/13 2:51 PM
	2014-08-23-14-37-25-806.jpg	image	2014/8/23 2:37 PM
	2014-08-23-14-38-05-879.jpg	image	2014/8/23 2:38 PM
	2014-08-23-14-42-01-937.jpg	image	2014/8/23 2:42 PM
	IMG_20140614_130714.jpg	image	2014/6/14 1:07 PM
	NAStoken	file	22 mins ago
Help Privacy and	Readme_Drop2NAS.pdf	document	22 mins ago

Check files from website



NAS auto move files from Dropbox server

			🟠 Upgrade account 🛛 🚨 CSO C
\$	Dropbox > Drop2NAS		🕻 🖉 🛱 🔍 Search
Files	Name 🔺	Kind	Modified
Photos	NAStoken	file	22 mins ago
Sharing Links	Readme Drop2NAS.pdf	document	22 mins ago
Sevents	Neddine_Drop2ro d.pdi	docament	22.11113.080
🎂 Get Started 3			

Dropbox status.

rganize 🔻 New folder				U Shred File		(
Documents	*	Name	Date modified	Туре	Size	
J Music		[WallpapersMania.nnm.ru] vol83-001	2012/8/26 下午10:	JPEG image	655 KB	
New Library		[WallpapersMania.nnm.ru]_vol83-002	2012/8/26 下午10:	JPEG image	420 KB	
Pictures		[WallpapersMania.nnm.ru]_vol83-003	2012/8/26 下午10:	JPEG image	775 KB	
Videos		[WallpapersMania.nnm.ru]_vol83-004	2012/8/26 下午10:	JPEG image	753 KB	
□ ···············□ ···················		[WallpapersMania.nnm.ru]_vol83-005	2012/8/26下午10:	JPEG image	342 KB	
		🔄 [WallpapersMania.nnm.ru]_vol83-006	2012/8/26 下午10:	JPEG image	519 KB	
Computer		🔄 [WallpapersMania.nnm.ru]_vol83-007	2012/8/26下午10:	JPEG îmage	667 KB	
Local Disk (C:)	III	📔 [WallpapersMania.nnm.ru]_vol83-008	2012/8/26下午10:	JPEG image	236 KB	
COD : (C)		🔄 [WallpapersMania.nnm.ru]_vol83-009	2012/8/26下午10:	JPEG image	515 KB	
CD Drive (E:) Wormhole		📔 [WallpapersMania.nnm.ru]_vol83-010	2012/8/26下午10:	JPEG image	486 KB	
WHBU_Data (\\10.251.253.11\cs	0	📔 [WallpapersMania.nnm.ru]_vol83-011	2012/8/26下午10:	JPEG image	368 KB	
🛫 music (\\10.251.40.41) (Y:)	_	📔 [WallpapersMania.nnm.ru]_vol83-012	2012/8/26下午10:	JPEG image	448 KB	
Network		📔 [WallpapersMania.nnm.ru]_vol83-013	2012/8/26下午10:	JPEG image	447 KB	
INELWORK		📔 [WallpapersMania.nnm.ru]_vol83-014	2012/8/26下午10:	JPEG image	450 KB	
PRIANCULU DC		🔄 [WallpapersMania.nnm.ru]_vol83-015	2012/8/26下午10:	JPEG image	707 KB	
BRIANCHIU-PC		🔄 [WallpapersMania.nnm.ru]_vol83-016	2012/8/26下午10:	JPEG image	435 KB	
	-	📔 [WallpapersMania.nnm.ru]_vol83-017	2012/8/26 下午10:	JPEG image	244 KB	

Check files on NAS

## 4.4 Using the zDownload Folder

The NAS copies \*.torrent files in the zDownload folder to the NAS's admin\download \torrents folder and automatically starts download them.

rganize 🔻 🛛 Include in	library  Share with  New folder		(U) Shred File	• FI
Favorites	Name A	Date modified	Туре	Size
Desktop	Beadme zDownload (1)	2015/5/8 上午 11-19	PDF Document	130 k
Downloads	Readme_zDownload	2015/5/5下午02:36	PDF Document	130 k
😌 Dropbox	The.Interview.2014.1080p.BluRay.AVC.DT	2015/5/8 上午 11:25	迅雷BT种子文件	150 K
<ul> <li>Recent Places</li> <li>ownCloud</li> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>New Library</li> </ul>	aw Who.Am.I.2014.BD1080P.X264.AAC.Germ	2015/5/8 上午11:24	迅雷BT种子文件	92 K
<ul> <li>■ Pictures</li> <li>■ Videos</li> <li>副 迅雷下载</li> <li>■ Computer</li> </ul>				
🕌 Local Disk (C:)				
👝 Local Disk (D:)	21			

Upload torrent files to zDownload folder.

Appl	Applications - Download Service								
Dov	Download Service								
Dow	Download service allows you to download files from the Internet directly to the NAS. The able Download Service Apply The able Download Notify Add Preferences Refresh Select Files Delete Pause Pause Resume Task Info Time (2) Delete (0) Error (0)								
Sta	atus	Name	<u>Complete(%)</u>	<u>Seeds</u>	<u>Peers</u>	Download Speed	<u>Upload</u> Speed	<u>Time Left</u>	Priority
		The.Interview.2014.1080p.Blu	0.00 %	0(0)	0(0) [Hashing]				Auto 🔻
		我是谁: 没有绝对安全的系 统.Who.Am.I.2014	0.00 %	59(0)	0(9) [0.0000]				Auto 🔻
	Mes	ssage Ready							٩

NAS get files and download automatically

## 4.5 WebDAV

The WebDAV HTTP extension lets users edit and manage files that are stored.



Remote servers.

When you enable WebDAV the screen displays an example of the URL that users would use to use WebDAV to connect to the NAS where "sharename" represents a share that the user can access.

Sharing - WebDAV		
WebDAV		
Enable WebDAV to allow Enable WebDAV (I Example : http://	r users to access the shared folders remotely. To edit the access privilence, please on to the "Sharing" : Http:/Https) 10.251.40.41:5002/webdav/sharename , https://10.251.40.41:5003/webdav/sharename	> "Shares" page.
Enable anonymou	is WebDAV 📧	
👔 Note: ° You must click on tl	he "Apply" button for applying WebDAV settings.	
	Apply Reset	
<b>—</b>	- Deade	
Message	keady	

WebDAV screen

Download and install NetDrive. Click on **Add Drive** and use the URL for WebDAV connections to the NAS to add a drive entry for accessing the NAS.

🔶 Net[	Drive	Drives	Options	? About		×
Add Driv	e Delete Drive 🗼	•				Purchase License
**	Dropbox				Connect	
box	Box.net https://dav.box.com/dav				Connect	\$
	Google Drive				Connect	<b>Ö</b>
	OneDrive				Connect	\$
	Amazon S3				Connect	<b>‡</b>
	Openstack Swift				Connect	₽
FP	FTP				Connect	₽
	0770					



#### Add Drive:

- Type: Select WebDAV from the drop-down menu
- Name: Connection name
- URL: Enter the NAS IP address or domain name and WebDAV folder name. The shared folder of WebDAV server default path is "http://IP\_Address:port/webdav/" + Share\_Name
- Port: Default NAS WebDAV server port: 5002, 5003
- Drive: Select a drive letter to connect to this WebDAV shared folder.

- Account: Enter the user name for this shared folder (the WebDAV folder access permissions belong to share of NAS).
- Password: Enter the password for this shared folder.



Connect to WebDAV shared folder.

Type	WebDAV	Mount as a	network drive	• 0	
Name	NAS520_Photo				
URL	http://10.251.40.41:5002/webdav/photo	🔲 SSL	Port 5002		
Jser	admin	Password	d ••••		
Anor	nymous		📝 Save Passw	ord	
V Auto	matic connect when NetDrive starts				

Setting Drive info



Connect to NAS

You can access this drive in the future under the Computer listing in Windows Explorer.

Computer > E:\	×	Search E:\
Organize 🔻 New folder		
<ul> <li>★ Favorites</li> <li>■ Boxcryptor</li> <li>■ Desktop</li> <li>③ Downloads</li> <li>♥ Dropbox</li> <li>③ Google Drive</li> <li>③ Recent Places</li> <li>○ Libraries</li> <li>○ Documents</li> <li>○ Music</li> <li>○ Pictures</li> <li>○ Videos</li> <li>✓ Homegroup</li> </ul>	E	201407 File folder
Local Disk (C:)		Your trial will expire in 30 days.
🕞 Data (D:)	•	
3 items		

Check Windows Explorer

### 4.6 Media Server

Click on the hyperlink to open the Twonky media server configuration screens to check media server status or modify media server settings.



Applications->Media Server

Use this screen to select shares to publish (share with media clients like a media player or iTunes).

P	Publish	Share Name	Publish Music Tracks	Publish Photos	Publish Videos	
		video				
		photo				
		music	Image: A start of the start		I all a second a se	
		admin				
			Apply	Reset		
			төрө	Reser		

Select share to publish

Click the hyper link to open the Twonky media server configuration screens to check media server status or modify media server settings.



Twonky screen

Twonky auto detects media clients.

<b>(</b>	twor	nky <sup>-</sup>				video	o music	photo	settings
SETTINGS Status Setup Sharing Advanced Online Serv	vices	Shared Folders Please go to the page o Media Receivers	f Media Serve	r to modify this setting.			Hide	4	
		Enable sharing for n	ew media rece	evers automatically					
		MAC 20:65-EC-2E-99-2E	IP	Friendly Name	Media Receiver Type	-	Navigation Type Advanced Media	Navigation	
		30:65:EC:2E:88:2E	10.59.4.40	2T01457	Windows Media Player		Advanced Media	Navigation	•
		FC:F5:28:FF:46:40	10.59.4.45	2101407	Generic Media Receiver	•	Advanced Media	Navigation	•
		Reset List	,						
		Aggregation Serve	ers				Show	•	

Media Receivers info

<b>two</b>	onky <sup>.</sup>	video music	photo settings
MY LIBRARY Album Al Videos By Date By Folder Playlists Title	All Videos All Videos  Tansformers- Age of Extinction - Nederlandse Teaser Trailer File Size: 28.41 MB File Size: 28.41 MB Year: 2014		
	Wildlife in HD         File Size: 25 03 MB         Format: wmv         Year: 2009		

Click on video to check published video files.

Publish video files

Click on music to check published music files.

🚺 two	nky <sup>.</sup>	video	music	photo	settings	
MY LIBRARY Album Alt Tracks Artist Artist Index Artist/Album By Folder	All Tracks All Tracks Flawless (feat. Chimamanda Ngozi Adiche) (04:11) Artist Beyonce Athum: BEYONCE Genre: Unknown					
Genre/Album Genre/Artist/Album Genre/Song Playlists	Blow (05:10) Artist: Beyonce Network: BEYONCE Genre: Unknown Blue (feat. Blue Ivy) (04:27) Artist: Beyonce Network: Unknown Genre: Unknown					
	Crunk in Love (feat. Jay Z) (05:24) Artist. Beyonce Chum: EEYONCE Genre: Unknown					

Publish music files

W LIBRARY
Al Photos

By Deader

By Deader

Sideshows

Image: Control (Control (Contro

Click on photo to check published photo files.

Publish photo files

# 5. PlayZone

The **DeskTop** screen displays. You can click on the icon to listen to the music, watch the movies, or enjoy the photos stored in the NAS.

- 🚨 🙇 👬			1
myZyXELcloud	Storage Status	Center Help	
СРИ ВАМ	- 66% - 28%		ZYXEL NAS520

NAS DeskTop Screen.

 The Playzone Home screen displays icons for the various features you can access.

 ZyXEL NAS520



Playzone screen

### 5.1 File Browser



Use File Browser to see files in a tree-folder structure.

File browser screen

Use the file browsing screens to play, open, upload, and download files. A share is a set of user access permissions for a specific folder on a volume (gives someone access to a folder).

ZyXEL   File Browser				Welco <del>nic,</del> admin	3 🕈
🖻 📱 NAS520	photo			1 🗤	
⊞ <del>[og</del> admin ⊞ <del>[og</del> music	Name	Size	Last Modified		
B photo	[WallpapersMania.nnm.ru]_vol83-001.jpg	654.96 KB	26-08-2012 22:43		
a i i new 07.05.09 a i i new 07.06.09	[WallpapersMania.nnm.ru]_vol83-002.jpg	419.10 KB	26-08-2012 22:43		
□ □ new 07.07.15	[WallpapersMania.nnm.ru]_vol83-003.jpg	774.77 KB	26-08-2012 22:43		
a inew 08.04.03	[WallpapersMania.nnm.ru]_vol83-004.jpg	752.16 KB	26-08-2012 22:43		
	[WallpapersMania.nnm.ru]_vol83-005.jpg	341.76 KB	26-08-2012 22:43		
a in new 09.02.02	[WallpapersMania.nnm.ru]_vol83-006.jpg	518.61 KB	26-08-2012 22:43		
	[WallpapersMania.nnm.ru]_vol83-007.jpg	666.98 KB	26-08-2012 22:43		
a Svideo	[WallpapersMania.nnm.ru]_vol83-008.jpg	235.36 KB	26-08-2012 22:43		
	[WallpapersMania.nnm.ru]_vol83-009.jpg	514.90 KB	26-08-2012 22:43		
	[WallpapersMania.nnm.ru]_vol83-010.jpg	485.15 KB	26-08-2012 22:43		1
	WallpapersMania.nnm.ru]_vol83-011.jpg	367.78 KB	26-08-2012 22:43		8
	[WallpapersMania.nnm.ru]_vol83-012.jpg	447.66 KB	26-08-2012 22:43		-
	WallpapersMania.nnm.ru]_vol83-013.jpg	446.67 KB	26-08-2012 22:43		
	WallpapersMania.nnm.ru]_vol83-014.jpg	449.84 KB	26-08-2012 22:43		
	[WallpapersMania.nnm.ru]_vol83-015.jpg	706.27 KB	26-08-2012 22:43		
	WallpapersMania.nnm.ru]_vol83-016.jpg	434.73 KB	26-08-2012 22:44		
	[WallpapersMania.nnm.ru]_vol83-017.jpg	243.50 KB	26-08-2012 22:44		
	[WallpapersMania.nnm.ru]_vol83-018.jpg	458.27 KB	26-08-2012 22:44		
	[WallpapersMania.nnm.ru]_vol83-019.jpg	393.10 KB	26-08-2012 22:44		
	WallpapersMania.nnm.ru]_vol83-020.jpg	187.18 KB	26-08-2012 22:44		
10.251.40.45/r46808,/playzone,/#					

Files in file browser

## 5.2 Application Zone

Administrators can click **Application Zone** to go to a screen where you can enable or disable various applications for file sharing and downloading.



Application Zone screen

Name 🔺	Version	Description	Management Page
Copy/Sync Button		The COPY/SYNC button on the front panel allows you to copy or synchronize files between a	Applications > Copy/Sync Button
Download Service		Download service allows you to download files from the Internet directly to the NAS.	Applications > Download Service
Elickr Uploadr		The auto upload feature uploads media files stored in the NSA to the Flickr sharing website.	Applications > Auto Upload > Flickr/YouTube
FTP Server		Use FTP or FTPES (FTP over Explicit TTL/SSL) to upload files to the NAS and download files f	Applications > FTP Server
FTP Uploadr		The FTP Uploadr feature uploads files stored in the NAS to FTP servers.	
iTunes Server		Let anyone on your network use iTunes to play music and video files in the published shares.	
Media Server		Lets anyone on your network play video, music, and photos from the NAS (without having to c	Applications > Media Server
myZyXELcloud-Agent	0.0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your	
Print Server		Connect a printer to the NAS's USB port to let multiple computers on your network use it.	Applications > Print Server
Web Publishing		Web publishing lets you 'publish' shares (containing folders and files) on the NAS so people $c_{\cdots}$	
Youtube Uploadr		The auto upload feature uploads media files stored in the NSA to the Youtube sharing website.	

Application information

## 5.3 Playzone Settings

Use this screen to change general Playzone screen settings and account passwords.



#### Playzone settings

Playzone	Settings	
Player		
WMP	Install <u>WMP</u>	
Music Setting		
Double Click Behavior Setting	<ul> <li>Replace current playlist and start to play</li> </ul>	
	<ul> <li>Append to current playlist</li> </ul>	
Photo Slideshow		
Slide Effect	Enable Ken Burns	
Slide Interval	3 Second(s) 💙	
Video Setting		
Video Playback	Play Next	
Change Password		
Account Name	admin	
Old Password		
New Password		
Password (Confirm)		
System Language		
Language	English	
System Administration		
Go to system administration page.		
Apply Reset Cancel		

Playzone setting screen

## 5.4 Music

Use the Playzone media server screens to view and play media files in the shares that publish them.

Your browser may need Windows Media Player installed to play music and video files.

Use Music to view and play music files in the shares that publish music.



Music screen



Music folder.

### 5.5 Photo



Use Photo to view photos in the shares that publish photos.

Photo screen



Check photo files in Playzone



Review photo

## 5.6 Video

Use Video to view and play video files in the shares that publish videos.



Video screen



Video files



Play video file via Playzone

If you find that the media files are not displayed correctly, please check the status in **Applications > Media Server**. Usually, you will see the photos displayed.

# 6. Status Center

In the **DeskTop** screen, click on **Status Center** to display this screen of NAS status information.

🛛 🚨 🥭		1
	wzykELcloud       wzykELcloud	
2	CPU 66% RAM 28%	ZyXEL NAS520

DeskTop

Click the **Refresh** icon to update display the CPU, Memory, CPU Temperature and Fan Speed.

Status Center			
System Information	0		
		Server Name:	NAS520
		Model Name:	NAS520
		Firmware Version:	V5.04(AASZ.0)b2
	Licolthy	LAN1 MAC Address:	5C:F4:AB:63:6A:54
	неакну	LAN2 MAC Address:	5C:F4:AB:63:6A:55
	CPU	Mem	mory
	100 80 60 40 20 6% 0	<b>^</b> 3	100 80 60 40 20 39% 0
	100 80 60 40 20 40°C 0	63	1300 1040 780 520 260 31rpm 0

# 7. External Volume

This page displays information on all external volumes (created on external disk drives attached to the NAS USB ports).

Use this screen to create a new NAS external disk drive volume.

Storage -	External Volume						
External	volume					<b>g</b> ?:Edit ≙:Eject ∮	बे:Scan
	Status	Volume	File System	Disk(s)	(	Capacity	Actions
Create	Healthy	JetFlash-Transcend- 16GB-1-001	fat32	Front USB	14.70 GB Total	<ul> <li>1.93% (290.02 MB)</li> <li>Used</li> <li>98.07% (14.42 GB)</li> <li>Free</li> </ul>	Faq
		_					
P Mes	sage Read	iy					۵

Create external volume in this page

NAS supports NTFS, FAT32, EXT2, EXT3 and EXT4 as external volume. Select the file system that you want the new volume to use.

Disk Configuration		
Volume Name Available Disk(s)	Front USB (1etFlash-Transcend-16G	* B-1.
File System	NTFS (Recommended) FAT32 a EXT2 EXT3 EXT4 NTFS (Recommended)	deleted to create this new Volume.

Select external volume settings

torage - Ext	ernal Volume						
xternal Vol	ume						
						௺:Edit ≙:Eject 名	:Scan
	Status	Volume	File System	Disk(s)		Capacity	Actions
Create an	Healthy External Volume	Transcend	ntfs	Front USB	14.72 GB Total	<ul> <li>0.43% (64.88 MB) Used</li> <li>99.57% (14.65 GB)</li> <li>Free</li> </ul>	Faq
Messac	e Ready						۲

Finish create external volume

# 8. APP Center

Package management is used to setup more useful applications in the NAS. This feature enables users to use the following applications:

- CloudAgent (myZyXELcloud)
- Gallery
- Memopal
- NFS
- NZBGet
- PHP-MySQL-phpMyAdmin
- Logitech® Media Server
- TFTP
- Transmission
- WordPress
- ownCloud
- pyLoad

Click **System Setting > Firmware/Packages** to display the screen. Then the applications are will be listed as shown below.

Retrieve List From Internet	tall/Upgrade Uninstall/Cancel Installation	Enable Disable	Package Info		
Status	Package Name	<u>Requires</u>	Version	Description	Management Page
Not Installed	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	
Not Installed	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Not Installed	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	
Not Installed	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix- like systems.	
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	

Package list

Click on this to retrieve a list of available packages from the ZyXEL website.

System Setting - Firn	nware/Packages				
FW Upgrade P	Package				
Package Manage	ement				
Retrieve Inst List From Internet	tall/Upgrade Uninstall/Cancel Installation	Enable Disable	Package Info		
<u>Status</u>	Package Name	<u>Requires</u>	Version	Description	Management Page
Not Installed	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	
Not Installed	Logitech ® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Not Installed	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	
Not Installed	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix- like systems.	
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	•
📮 Message	Ready				

Refresh the package list

Choose the item(s) on the list and click on the **Install/Upgrade** button to install the selected application(s) on your system or upgrade to the latest version if you have previously installed the application.

Retrieve Inst	tall/Upgrade Uninstall/Cance	Enable Disable	Package Info		
Internet <u>Status</u>	Package Name	Requires	Version	Description	Management Page
Not Installed	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	
Not Installed	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Not Installed	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	
Not Installed	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix- like systems.	
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	

Install packages
# 8.1 Gallery

Gallery is a web-based application that allows the NAS to host photos. You can upload photos from the local computers or stored in the NAS. Use the administrator account of the NAS to login to the Gallery GUI. (The Google Chrome browser blocks port 6666. Therefore we suggest using Firefox to enable the Gallery page).

8.1.1 Installing Gallery from the Package Management

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the Gallery package from the table and then click the Install/Upgrade button
- ✓ Click **Apply** to install the **Gallery** package.

Retrieve List From Internet	stall/Upgrade Uninstall/Cancel Installaion	Enable Disable	Package Info			
<u>Status</u>	Package Name	Requires	Version	Description	Management	Page
Not Installed	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.		
Not Installed	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.		
Not Installed	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.		
Not Installed	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix- like systems.		
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234		

Install         Gallery         3.0.9zypkg002         34.77 MB         I           Install         PHP-MySOL-phpMyAdmin         1.0zypkg002         116.98 MB	nternet
Install DHD_MySOL_phpMyAdmin 1.07ypka002 116.08 MB	
113cali PHP-HySQL-phpHyAdmin 1.02ypkg002 110.30 Hb	NAS
Enable package(s) after installing.	
Package Total Size 151.75 MB	
Current Free Size 572.98 GB	

# 8.1.2 Configuring Gallery on the NAS

### STEPS

 After installing and running Gallery, click **Application > Gallery** to configure an account.

System Setting	ystem Setting - Firmware/Packages						
FW Upgrade	Package						
Package Ma	inagement						
<b>Z</b> 2	÷ \$	$\geq$					
Retrieve List From Internet	Install/Upgrade Uninstall/O Installat	Cancel Enable D ion	isable Package Info				
Status	Package Name	<u>Requires</u>	Version	Description	Management Page		
Enabled	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/gallerv/ https://10.251.40.41:5001/pkg/gallery/		
Not Instal	led Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.			
Not Instal	led Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.			
Not Instal	led NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.			
Not Instal	led NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234			
				This tool can be used to manage MySQL	•		
📃 Message	Ready						

 $\checkmark~$  Enter the admin account and password to log into Gallery

		₹
	Search	Login h the gallery Go
	Albu	m info
	Title:	Gallery r: Gallery Administrator
photos Next P	Last M	
	Avail	able RSS feeds
	a Lat	test photos and movies
	<sub>ສ</sub> Ga	llery photos and movies
	Рори	lar tags
	o photos Next >>	Sear Albu Titia: Owne Avaii ≥ Last ► Avaii ≥ Ca Popu

Login	×
Username admin	
Password ••••	
Login Cancel	
	Forgot your password?

✓ Click Add > Add Photos.

College			Logged in as Gallery Administrator Logout
Home	Add 😤 Album options 🖂 Admin 🖂		Search the gallery Go
Gallery	Add photos		
Gallery	Add an album		Album info
There aren't any photos	here yet! Add some.		Title: Gallery
			Owner: Gallery Administrator
🖻 First 🛛 🐄 Previous	No photos	Next 🗠 Last 🖻	
			Available RSS feeds
			a All new comments
			Comments on Gallery
			a Latest photos and movies
			n Gallery photos and movies
			Popular tags
			Add tag to album Add Tag
Powered by Gallery 3.0.9 (Chartres)			

 $\checkmark$  Choose photos from a local PC.

Add photos to Gallery	×
A Movie uploading is disabled on your system. Help!	
» Gallery	
Select photos (100M max per file)	
IMG_20140815_231419 (1.75MB) - 100%	×
IMG_20140830_115800 (2.19MB)	×
IMG_20140907_103601 (2.06MB)	×
Add tags to all uploaded files	
Done Cancel uploads	

## 8.1.3 Check the photos in Gallery

✓ Go to the Gallery **Home** page and check the photos.



## 8.2 Memopal

Memopal is a cloud-based storage application and service that enables users to store and synchronize computer files, and share files and folders with other users via the Internet.

Memopal protects files and allows anytime access using the proper credentials from any computer, smartphone or tablet connected to the Internet. The files are wherever there is a device connected to the Internet.

A total of 3 GB free storage space is allotted per one registered account across devices, and users can purchase additional space through the Memopal website: <u>http://www.memopal.com/.</u>

### 8.2.1 Installing Memopal from the Package Management

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the Memopal package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **Memopal** package.

System Setting - Firmw	are/Packages							
FW Upgrade Pac	kage							
Package Manageme	Package Management							
Retrieve List From Internet	//Upgrade Unitall/Cano Installation	el Enable Disa	ble Package Info					
<u>Status</u>	Package Name	<u>Requires</u>	Version	Description	<u>Management Page</u>			
Enabled	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/gallery/ https://10.251.40.41:5001/pkg/gallery/			
Not Installed	Logitech® Media	PHP-MySQL-	7.7.4zypkg002	This enables you to manage a Logitech's				
Not Installed	Memopal		2.4.4zypkg002	storage software that archives your files in real-time to a remote server.				
Not Installed	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.				
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234				
				This tool can be used to manage MySQL	•			
Massaga	Ready		_					
- Message	Reduy				0			

CUOII	Package Name	Version	Size	Source
nstall	Memopal	2.4.4zypkg002	3.41 MB	NAS
Select Volu	me	Volume1(582.9G)	×	
Package To	tal Size	3.41 MB		

# 8.2.2 Configuring Memopal on the NAS

- ✓ After installing and running Memopal, click **Applications > Memopal** to configure an account.
- Enter the registered Memopal email account and password in order to successfully authorize and link the NAS to the Memopal account.

<b>~</b> 2	🛨 😫				
List From Internet	Installa	tion	sable Package Info		
Status	Package Name 🔺	Requires	Version	Description	Management Page
Enabled	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/gallery/ https://10.251.40.41:5001/pkg/gallery/
Not Installed	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Built-in	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	Applications > Memopal
Not Installed	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.	
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	
				This tool can be used to manage MySQL	

Setting	IS					
🗹 Enable Memopal						
🖯 General Setting						
[	Email	zyxel.hq.cso@gmail.com				
	Password	•••••				
	Limit File Size	MB				

✓ Regular file backup can be configured by clicking Enable Schedule and choosing how often the backup is initialized: Weekly, Daily in the range of <u>0</u> to 23 hours or Hourly in the range of <u>0 to 59 minutes</u>. Select the Share path for the backup files.

•	Schedule Setting Enable Schedule Weekly Daily Hourly	23 hours minutes		
Θ	Backup Folder Setting <u>Share Name</u> Memopal	*	Path	Actions
				-
	Share Path	Memopal /	Browse Add	
	Note: You must click "Apply" button to finition to	ish Backup Folder Setting.		

✓ After successfully logging into Memopal, the data stored in the NAS are automatically synchronized to the user's storage space in Memopal.

Status	
Status	Running
To Backup	2
Backed up	14
Failures	0
Upload Speed	0 B/s
Progress	87.50%
Restart Backup	Retry Failures Backup Report

✓ All data are automatically synchronized to Memopal.

Status		
Status	Completed	
To Backup	0	
Backed up	16	
Failures	0	
Upload Speed	0 B/s	
Progress	100.00%	
Restart Backup	Retry Failures Backup Report	

- 8.2.3 Check the backup status on the Memopal website
  - ✓ Go to the Memopal website (<u>http://www.memopal.com/</u>) to check the files that have just been stored as backup on the user's allotted cloud space.

٢		Search your Memopal		@gmail.com 🔻
Ļ	Files	── → My Memopal		
<b>a</b> 7	Photos	Eile name	Size	Date
<ul><li><b>●</b></li></ul>	Last Uploaded Favorites	NAS520	8 Mb	May 12 2015
<	Shares			

✓ Go to the Memopal website (<u>http://www.memopal.com/</u>) and log in to check the files that have just been stored as backup on the user's allotted cloud space.

	Search your Memopal	:	zyxel.hq.cso@gmail.com 🔻							
Files										
Photos	Elle name	Size	Date							
Last Uploaded	[WallpapersMania.nnm.ru]_vol83-001.jpg	655 Kb	Aug 26 2012							
Favorites	[WallpapersMania.nnm.ru]_vol83-002.jpg	419.1 Kb	Aug 26 2012							
< Shares	🔲 🕌 [WallpapersMania.nnm.ru]_vol83-003.jpg	774.8 Kb	Aug 26 2012							
	[WallpapersMania.nnm.ru]_vol83-004.jpg	752.2 Kb	Aug 26 2012							
	[WallpapersMania.nnm.ru]_vol83-005.jpg	341.8 Kb	Aug 26 2012							
<b>Used space</b> 0 bytes / 3.5 Gb	[WallpapersMania.nnm.ru]_vol83-006.jpg	518.6 Kb	Aug 26 2012							
Buy more space	[WallpapersMania.nnm.ru]_vol83-007.jpg	667 Kb	Aug 26 2012							
Invite a friend	[WallpapersMania.nnm.ru]_vol83-008.jpg	235.4 Kb	Aug 26 2012							



## 8.3 NFS

**Network File System** (NFS) is a distributed file system protocol, which allows a system to share directories and files with others over a network. By using NFS, users and programs can access files on remote systems almost as if they were local files.

8.3.1 Installing NFS from the Package Management

#### STEPS

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the NFS package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **NFS** package.

System Set	ting - Firm	nware/Packages				
FW Upgr	ade P	ackage				
Packag	e Manage	ment				
Retrie List Fr Intern	eve rom net	call/Upgrade U install/Can Installation	Cel Enable	Disable Package Info		
Sta	atus	Package Name	<b>Requires</b>	Version	Description	Management Page
Ena	abled	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.45:5000/pkg/gallery/ https://10.251.40.45:5001/pkg/gallery/
Not Ir	nstalled	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Bui	ilt-in	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	Applications > Memopal
Not Ir	nstalled	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.	
Not Ir	nstalled	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	
					This tool can be used to manage MySQL	·
P Messa	age	Ready				۵

nstall/Upgrad	le						
nstall/Upgrade	e Package List						
Action	Package Name	Version	<u>Size</u>	Source			
Install	NFS	1.3.0zypkg002	1.72 MB	NAS			
Select Vol	ume	Volume1(582.9	G) 🔳				
Package T	otal Size	1.72 MB					
Current Fi	ree Size	572.65 GB	572.65 GB				
		Apply Can	cel				

### 8.3.2 Enable NFS server on the NAS

✓ After installing NFS, click **Network > NFS** to enable the NFS server.

/ Upgrade	Package				
ackage Manag	ement				
<b>Z</b>	÷ \$				
Retrieve In List From Internet	stall/Upgrade Uninstall/C Installat	ancel Enable Dis ion	able Package Info		
<u>Status</u>	Package Name	Requires	Version	Description	Management Page
Enabled	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.45:5000/pkg/gallery/ https://10.251.40.45:5001/pkg/gallery/
Not Installed	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Built-in	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	Applications > Memopal
Built-in	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.	<u>Network &gt; NFS</u>
Not Installed	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	
				This tool can be used to manage MySQL	

Network - NF	S									
NFS Service										
Enable NFS	Disable NFS	Add NFS Share	NFS Session	Edit NFS Share	Delete NFS					
Server <u>Status</u>	Server	ver U Share(s) <u>NFS Share Path</u> <u>Volume Name</u>		DN/IP Filter	Comment					
Status	NES Share Path Volume Name					Ditritici	comment			

- 8.3.3 Configuring an NFS shared folder on the NAS
  - ✓ Click Add NFS Share to configure an NFS folder.

Network - NF	FS						
NFS Service							
Enable NFS Server	Disable NFS Server	Add NFS Share	NFS Session	Edit NF Share	5 Delete NFS Share(s)		
<u>Status</u>	NFS Share Path Volume Name			1	Volume Name	DN/IP Filter	Comment
					Currently,	there are no NFS Shares to display.	

✓ Enter an NFS Share Name and under DN/IP Filter, enter domain name(s) or IP address (es) which is/are allowed to read/write the NFS shares.

Add NFS Share	Simre(s)
Volume Name NFS Share Name	Volume1 ( 582.94 GB )
Full Path Comment	/i-data/43e12d94/nfs/NFS
DN/IP Filter	10.251.40.0/24 Add
<b>i</b> Note: You can input a dom 172.23.26.0/24 or *	ain name or IP in the filter. "*" character represent public. Ex: .zyxel.com.tw Apply Cancel

✓ The NFS shared folder has been added.

Network - I	NFS						
NFS Service	e						
Enable NFS Server	Disable NFS Server	Add NFS Share	NFS Session	Edit NFS Share	Delete NFS Share(s)		
<u>Status</u>	L.	NFS Share Path			<u>Volume Name</u>	DN/IP Filter	
	/i-data	a/43e12d94/nfs	s/NFS		Volume1	10.251.40.0/24 (Read Only)	

 Note: If users want to configure other features, do the following step: Click Edit NFS Share to modify or delete an existing NFS share.

N	Network - NFS											
P	NFS Service											
	Enable NFS Server	Disable NFS Server	Add NFS Share	NFS Session	Edit NFS Share	Delete NFS Share(s)						
	<u>Status</u> ≜		<u>NFS Sh</u>	<u>are Path</u>		<u>Volume Name</u>	DN/IP Filter					
	<b>L</b>	/i-data	/43e12d94/nfs	/NFS		Volume1	10.251.40.0/24 (Read Only)					

Network - N	Network - NFS							
NFS Service								
Enable NFS Server	Disable NFS Server	Add NFS Share	NFS Session	Edit NFS Share	Delete NFS Share(s)			
<u>Status</u> ⊾		NFS Sh	<u>are Path</u>		Volume	e Name	DN/IP Filter	
<b>1</b>	/i-data/	43e12d94/nfs	/NFS		Volu	me1	10.251.40.0/24 (Read Only)	

### 8.3.4 Enable the NFS service on Linux

Enable the NFS service on Linux if your Linux is not built-in.
 # /etc/init.d/rpcbind start
 # /etc/init.d/nfslock start

[root@dhcppc16	~]#	/etc/init.d/rpcbind	start
[root@dhcppc16	~]#	/etc/init.d/nfslock	start
[root@dhcppc16	~]#	_	

Verify that the NFS server has exported the directory:
 # showmount -e ServerName

root@ubuntu:/home# showmount -e 10.59.4.41

Export list for 10.59.4.41:

```
/i-data/43e12d94/nfs/NFS 10.59.4.0/24
```

- 8.3.5 Mount a Share of NAS NFS
  - ✓ Create a mount point for the remote resources using the mkdir command.
  - ✓ # mkdir NAS\_mnt\_test



✓ Mount share of NAS:

# mount –t nfs ServerName:/remote/directory /local/directory

root@ubuntu:/home# mount -t nfs 10.59.4.41:/i-data/43e12d94/nfs/NFS /NAS\_mnt\_test

#### 8.3.6 Check the connection of the NAS

 To check the amount of disk space for each mount you have: #df

root@ubuntu:~# df					
Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/sda1	19478204	3560164	14921944	20%	/
none	4	0	4	0%	/sys/fs/cgroup

udev	504924	4	504920	1%	/dev
tmpfs	102628	784	101844	1%	/run
none	5120	0	5120	0%	/run/lock
none	513136	156	512980	1%	/run/shm
none	102400	36	102364	1%	/run/user
10.59.4.41:/i-data/9fc30fc2/nfs/NFS 30963	37120 451228	38 30512	4832 2	% /N	AS_mnt_test

## 8.4 Transmission

Transmission, which is a free software licensed under the terms of the GNU General Public License (GNU GPL), with parts under the MIT License, is a BitTorrent client which features a simple interface on top of a cross-platform back-end and allows users to download files from the Internet and upload their own files or torrents. By grabbing items and adding them to the interface, users can create queues of files to be downloaded and uploaded.

8.4.1 Installing Transmission from the Package Management

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the Transmission package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **Transmission** package.

Retrieve List From	tall/Upgrade UN stall	Cancel Enable [	Disable Package		
Enabled	PHP-MySQL- phpMyAdmin		1.0zypkg002	through the web. Enter 'root' as the username and '1234' as the password to log in.	http://10.251.40.41:5000/pkg/phpmyadmin/ https://10.251.40.41:5001/pkg/phpmyadmin/
Not Installed	Tftp		0.7zypkg002	Trivial File Transfer Protocol (TFTP) is an Internet file transfer protocol that uses port number 69. It is similar to FTP but uses UDP (User Datagram Protocol) rather than TCP (Transmission Control Protocol). It cannot list directories nor authenticate users.	
Not Installed	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	
Not Installed	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	
				myZyXELcloud, your solution for remote application management and securely	

Ir	istall/Upgrad	le			
Ir	stall/Upgrade	e Package List			
	Action	Package Name	Version	Size	<u>Source</u>
	Install	Transmission	2.83zypkg002	6.64 MB	NAS
	Select Vol	ume	Volume1(582.9G)		
	Enable pa	ckage(s) after installing.			
	10		0.7zypkg0		
	Package T	otal Size	6.64 MB		
	current Fi	lee Size	372.04 GB		
			Apply Cance		

8.4.2 Configuring Transmission on the NAS

### STEPS

✓ After installing and running, click the link provided (for example, <u>http://10.251.40.31:9091)</u> to configure **Transmission**.

w opgrade	Раскауе				
Package Mana	gement				
<b>Z</b>	÷ (				
Retrieve II List From Internet	nstall/Upgrade Uninstal Instal	l/Cancel Enable D llation	isable Package Info		
Enabled	PHP-MySQL- phpMyAdmin		1.0zypkg002	Inis tool can be used to manage MySQL through the web. Enter 'root' as the username and '1234' as the password to log in.	http://10.251.40.41:5000/pkg/phpmyadmii https://10.251.40.41:5001/pkg/phpmyadmi
Not Installed	Tftp		0.7zypkg002	Trivial File Transfer Protocol (TFTP) is an Internet file transfer protocol that uses port number 69. It is similar to FTP but uses UDP (User Datagram Protocol) rather than TCP (Transmission Control Protocol). It cannot list directories nor authenticate users.	
Enabled	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091
Not Installed	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	
				myZyXELcloud, your solution for remote	

- ✓ Click Open Torrents found at the top-left corner of the screen, and then click Choose Files to upload torrent files.
- ✓ A dialog box displays, which lets users select torrent files. Click **Open** after the files have been selected.

🕅 🖉 i 🖉 🔝 i		
show All V All V (Filter	0 Transfers	∽ 0 kB/s ∧ 0 kB/s
Show All	© Transer Upload Torrent Files Plass solect a turnet file to upload: Choose Files No file chosen Or exter a UP (Choose Files No file chosen Or exter a UP (Choose Files Now folder (Choose Files	<ul> <li>● 0 M(s × 0 M(s</li> </ul>
	Open Cancel	

- ✓ The number of chosen torrent files is displayed on the Upload Torrent Files window. Simply click the Upload button to upload all the files.
- ✓ All the chosen torrent files will be listed in the Main Transmission screen after they have been uploaded. The files are available for download immediately.

<del>si</del>	Upload Torrent Files
3	Please select a tor <u>rent file to up</u> load:
	Choose Files 7 files
	Or enter a URL:
	Start when added
	Cancel Upload

🖆 🖉   🕑 💷 🧼 🛄	()
Show All T All T (Filter	7 Transfers
CentOS-7-x86_64-DVD-1503-01 Downloading from 21 of 46 peers - ↓ 52 kB/s ↑ 0 kB/s	
149.9 MB of 4.31 GB (3.47%) - 11 hours remaining	
CentOS-7-x86_64-Everything-1503-01 Downloading from 34 of 35 peers - 1 24 kB/s † 0 kB/s	
36.4 MB of 7.59 GB (0.47%) - 2 days, 7 hours remaining	
Fedora-Live-Games-x86_64-22_Alpha Downloading from 5 of 6 peers - 1 19 kB/s † 0 kB/s	
1.09 GB of 4.11 GB (26.7%) - 3 hours, 18 minutes remaining	
Fedora-Live-Scientific_KDE-i686-22_Alpha Downloading from 6 of 6 peers - 1 2 kB/s 1 0 kB/s	
5.70 MB of 3.20 GB (0.17%) - 5 days remaining	
<b>ubuntu-12.04.5-desktop-i386.iso</b> Downlaading from 33 of 44 peers - ↓ 297 kB/s ↑ 0 kB/s	
166.2 MB of 792.7 MB (20.9%) - 41 minutes remaining	
ubuntu-14.04.2-desktop-i386.iso Downloading from 34 of 43 peers - ↓ 26 kB/s ↑ 0 kB/s	
30.9 MB of 1.05 GB (2.94%) - 6 hours remaining	
ubuntu-14.10-desktop-i386.iso Downloading from 28 of 48 peers - ↓ 83 kB/s ↑ 0 kB/s	
67.5 MB of 1.18 GB (5.69%) - 3 hours, 1 minute remaining	
67.5 MB of 1.18 GB (5.69%) - 3 hours, 1 minute remaining	
* / ~ =	

- 8.4.3 Check the download status of Transmission on the NAS
  - ✓ After download is complete, the progress bar changes color from blue to green.

	0
Show All T All Filter 7 Transfers	✓ 542 kB/s ∧ 32 kB/s
ubuntu-12.04.5-desktop-i386.iso Seeding to 0 of 0 peers - † 0 kB/s	0
792.7 MB, uploaded 1.13 MB (Ratio 0.00)	
Fedora-Live-Games-x86_64-22_Alpha Downloading from 8 of 8 peers - 1 542 kB/s † 32 kB/s	
3.17 GB of 4.11 GB (77.1%) - 19 minutes remaining	
ubuntu-14.10-desktop-i386.iso Paused	
72.0 MB of 1.18 GB (6.06%)	6
CentOS-7-x86_64-DVD-1503-01 Paused	0
157.1 MB of 4.31 GB (3.64%)	0
ubuntu-14.04.2-desktop-i386.iso Paused 35.0 MB of 1.05 GB (3.33%)	O
CentOS-7-x86_64-Everything-1503-01 Paused	
39.3 MB of 7.59 GB (0.51%)	O
Fedora-Live-Scientific_KDE-i686-22_Alpha Paused	
6.11 MB of 3.20 GB (0.19%)	G



- ✓ After logging into the storage, users can see all the shared folders as well as the default storage folder of **Transmission**, which can be found in the **admin** shared folder.
- After the download is complete, users can find the files stored on the NAS. The default location for downloaded files is admin > download > Transmission.





## 8.5 WordPress

WordPress started as just a blogging system, but has evolved to be used as full content management system and so much more through the thousands of plugins and widgets and themes to build beautiful websites. With WordPress, there really are no limits!

WordPress is an Open Source project, which means there are hundreds of people all over the world working on it. (More than most commercial platforms.) It also means users are free to use it for anything from a cat's home page to a Fortune 500 web site without paying anyone a license fee and a number of other important freedoms.

Refer to the official website of WordPress to know more about its features: <a href="https://wordpress.org/about/features/">https://wordpress.org/about/features/</a>

8.5.1 Installing WordPress from the Package Management

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the WordPress package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **WordPress** package.

tem Setting - Fin	mware/Packages				
W Upgrade	Package				
Package Manag	ement				
Retrieve List From Internet	tall/Upgrade Unitstall/Ca Installati	ancel Enable Disab	le Package Info	ICP (Hansmission Control Protocol). It cannot list directories nor authenticate users.	
Enabled	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091
Not Installed	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	
Enabled	myZyXELcloud-Agent		0.0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your ZyXEL network devices accessory from anywhere that has an internet connection!	https://mvcloud.zvxel.com
Not Installed	ownCloud	PHP-MySQL- phpMyAdmin	7.0.2zypkg002	This allows you to create and manage your private cloud.	
Not Installed	pyLoad		0.4.9zypkg002	Have the NAS manage your downloads including those from one-click-hosting sites.	
Message	Ready				

Action	Package Name	Version	<u>Size</u>	Source
Install	WordPress	3.9.1zypkg002	29.22 MB	NAS
Select Volur	ne	Volume1(582.9G)		
Enable pack	age(s) after installing.			
Package Tot	al Size	58.44 MB		
Current Fre	e Size			

8.5.2 Using WordPress on the NAS

#### STEPS

✓ After installing and running WordPress, click the link associated with it to configure an account.

Package Manag	jement				
Retrieve In List From	stall/Upgrade Uninstall/Ca Installati	ancel Enable Dis	able Package Info		
Internet				ICP (mansmission control Protocol). It cannot list directories nor authenticate users.	
Enabled	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091
Enabled	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/WordPres https://10.251.40.41:5001/pkg/WordPres
Enabled	myZyXELcloud-Agent		0.0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your ZyXEL network devices accessory from anywhere that has an internet connection!	https://mycloud.zyxel.com
Not Installed	ownCloud	PHP-MySQL- phpMyAdmin	7.0.2zypkg002	This allows you to create and manage your private cloud.	
Not Installed	pyLoad		0.4.9zypkg002	Have the NAS manage your downloads including those from one-click-hosting sites.	

 Enter the required information such as Site Title, Username, Password and Email.

Information I	Information needed								
Please provide the foll	lowing information. Don't worry, you can always change these settings later.								
Site Title	Brian's Blog								
Username	Brian Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods and the @ symbol.								
Password, twice	•••••								
A password will be automatically generated for you if you leave this									
blank.	Medium Hint: The password should be at least seven characters long. To make it stronger, use upper and lower case letters, numbers, and symbols like ! " ? \$ % ^ & ).								
Your E-mail	@zyxel.com.tw           Double-check your email address before continuing.								
Privacy	Allow search engines to index this site.								
Install WordPress									

✓ Click the Install WordPress button. A screen displays to show that the installation was a success.

Success!					
WordPress has been installed. Were you expecting more steps? Sorry to disappoint.					
Username	Brian				
Password	Your chosen password.				
Log In					



8.5.3 How to add a new post on WordPress

#### **STEPS**

 $\checkmark$  There are many different ways for a user to add a new post.

🚯 🆀 Brian's Blog	🛡 0 🕂 New		Howdy, Brian 📃 🧂
🚳 Dashboard 📢	Dashboard		Screen Options 🔻 Help 🔻
Posts     Media     Pages     Comments	All Posts Add New Categories Tags 2	Next Steps	Dismiss      More Actions      Manage widgets or menus
<ul> <li>Appearance</li> <li>Plugins</li> <li>Users</li> </ul>	Customize Your Site or, change your theme completely	Add an About page      View your site	<ul> <li>Turn comments on or off</li> <li>Learn more about getting started</li> </ul>
<ul><li>Tools</li><li>Settings</li></ul>	At a Glance	A Quick Draft	Δ
<ul> <li>Collapse menu</li> </ul>	📌 1 Post 📳 1 Page ♥ 1 Comment	Title What's on your mind?	
	Activity	A	
	Recently Published Today, 6:35 am Hello world!	Save Draft	
https://10.251.40.62:5001/	Comments adv./pkg/WordPress/wp-admin/edit.php	WordPress News	A

🔞 📸 Brian's Blog	<b>9</b> 0 <b>+</b> New					Howdy, Brian 📃
🚯 Dashboard	Posts Add New 4				Screen Option	s 🔻 Help 🔻
📌 Posts	All (1)   Published (1)					Search Posts
All Posts	Bulk Actions         Apply         All dates         View all categories         Filter					1 item
Add New	Title	Author	Categories	Tags		Date
Categories Tags	Hello world!	Brian	Uncategorized	-	<b>Q</b>	2 hours ago Published
91 Media	Title	Author	Categories	Tags		Date
Pages	Bulk Actions Apply					1 item
Comments						
🔊 Appearance						
🖌 Plugins						
占 Users						
🖋 Tools						
5 Settings						
<ul> <li>Collapse menu</li> </ul>						
	Thank you for creating with WordPress.					Get Version 4.1.1

 $\checkmark~$  A user can enter any title, as well as add media files and text to the content body.

🚯 🏠 Brian's Blog 📮	0 + New View Post	Howdy, Brian 📃 🔒
🚳 Dashboard	Edit Post Add New	Screen Options 🔻 Help 🔻
📌 Posts	Post updated. View post	
All Posts		
Add New	This is the first post.	Publish 🔺 🗉
Categories Tags	Permalink: http://10.251.40.62:5001/adv./pkg/WordPress/?p=6 Change Permalinks View Post	Preview Changes
01 Media	Add Media Click nere to add Visual Text	9 Status: Published Edit
Pages		Wisibility: Public Edit
Comments	Hi everyone,	Revisions: 5 Browse
🔊 Appearance	This is the test of the first post on WordPress.	m Published on: <b>Apr 11, 2015 @ 8:41</b> Edit
😰 Plugins	And you guys can search WordPress on Google there are many	Move to Trash Update
👗 Users	article to teach you how to modify your WordPress page.	
🖋 Tools	publish the pos	Format 🔺
Settings		● 📌 Standard
Collapse menu	http://10.251.40.62:5001/adv./pkg/WordPress/wp-	Aside
	York.mp3	🔿 🔛 Image
		🔿 💽 Video
		O 🎜 Audio
_		O 66 Quote -

✓ After clicking the **Publish** button, users can see the post in the main page.

Brian's Blog		SAMPLE PAGE	۹
Just another WordPress site			
Search			
	THIS IS THE FIRST POST.		
RECENT POSTS	◎ APRIL 11, 2015		
This is the first post.	Hi everyone,		
Hello world!			
	This is the test of the first post on WordPress.		
RECENT COMMENTS	And you guys can search WordPress on Google, there are many arti-		
Mr WordPress on Hel- lo world!	cle to teach you how to modify your WordPress page.		
ARCHIVES			
April 2015			
CATEGORIES			~

ownCloud is file sync and share that is hosted in a data center, on servers, or using a user's storage. ownCloud provides Universal File Access through a single front-end to all disparate systems. Users can access company files on any device, anytime, from anywhere while IT can manage, control and audit file sharing activity to ensure security and compliance measures are met.

8.6.1 Installing ownCloud from the Package Management

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the ownCloud package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **ownCloud** package.
- ✓ From the drop-down menu, select a data path for the backup and click Create.

ystem Setting - Fir	mware/Packages					
FW Upgrade	Package					
Package Manag	ement					
Retrieve List From Internet	stall/Upgrade Ul-astall/Ca Installatic	ncel Enable Disa n	able Package Info	TCP (Transmission Control Protocor). It cannot list directories nor authenticate users.		
Enabled	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.4	<u>41:9091</u>
Enabled	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/ https://10.251.40.41:5001/	pkg/WordPress/ /pkg/WordPress/
Enabled	myZyXELcloud-#gent		0.0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your ZyXEL network devices accessory from anywhere that has an internet connection!	https://mycloud.zy	vxel.com
Not Installed	ownCloud	PHP-MySQL- phpMyAdmin	7.0.2zypkg002	This allows you to create and manage your private cloud.		
Not Installed	pyLoad		0.4.9zypkg002	Have the NAS manage your domilouds including those from one-click-hosting sites.		
<b>M</b> essage	Ready					

Install/Upgra	de			
Install/Upgrade	e Package List			
Action	Package Name	Version	Size	Source
Install	ownCloud	7.0.2zypkg002	131.98 MB	NAS
Select Vol	lume	Volume1(582.90	5)	
🗾 Enable pa	ckage(s) after installing.			
Package T	Total Size	131.98 MB		
Current F	ree Size	565.54 GB		
i Note: Plea Note: Plea	ise backup/export private da troyed.	ata via ownCloud	before upgrading,	, or all of data
		Analy Cons		
		Apply Canc		ose monn offe-click-



8.6.2 Configuring ownCloud on the NAS

### STEPS

✓ After installing and running ownCloud, click **Application > ownCloud** to configure an account.

System Setting -	Firmware/Packages				
FW Upgrade	Package				
Package Man	agement				
<b>~</b> 2	÷ 😫				
Retrieve List From	Install/Upgrade Uninstall/Car Installation	ncel Enable Disa n	ble Package Info		
Internet				ICP (mansingsion control Protocol). It cannot list directories nor authenticate users.	*
Enabled	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091
Enabled	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/WordPress/ https://10.251.40.41:5001/pkg/WordPress/
Enabled	myZyXELcloud-Agent		0.0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your ZyXEL network devices accessory from anywhere that has an internet connection!	https://mvcloud.zvxel.com
Enabled	ownCloud	PHP-MySQL- phpMyAdmin	7.0.2zypkg002	This allows you to create and manage your private cloud.	http://10.251.40.41:5000/pkg/ownCloud/ https://10.251.40.41:5001/pkg/ownCloud/
Not Installe	d pyLoad		0.4.9zypkg002	Have the NAS manage your downloads including those from one-click-hosting sites.	
📕 Message	Ready				

✓ After clicking the provided ownCloud link, log into the ownCloud page create an account with admin permission on the NAS.



✓ Once login is successful, click **File** to upload files to the NAS.



(Ô)	buncloud	(	۹	admin v
	New tuload max. 513 MB	Cancel Upload		Deleted files
File	First name		Size	Modified Date
	<b>J</b> 01 Mapsmp3		7.4	Seconds ago
Music	🕻 02 Animals .mp3		9.0	Seconds ago
12	🗱 03 It Was Always Yoump3		9.3	Seconds ago
Contacts	🎏 04 Unkiss Me .mp3		9.3	Seconds ago
	🗱 05 Sugar.mp3		9.2	Seconds ago
Photo	🎜 06 Leaving California .mp3		8.0	Seconds ago
	🎏 07 In Your Pocket .mp3		8.6	Seconds ago

✓ Click **Photo** to check the images uploaded via ownCloud.



- 8.6.3 Back Up Files from a PC to the NAS
  - ✓ Go to the ownCloud website and download the ownCloud client. The following figure shows the Windows version of the client.

https://owncloud.com/download/						
owr	nCloud Enterpri	se Desktop	o Clients			
Wi	ndows Mac OS X	Linux Sc	purce Code			
OW own your and will a the c	nCloud Windows Client (.c Cloud Desktop Client 1.8.0 for Wind corporate ownCloud Server. With it keep the contents of your local direc also appear in your home directory o ownCloud Client, the latest changes Changelog	exe) 1.8.0 ws enables you to conn you can create folders, o rory synced with your ow n your desktop, and char are always at your finger	ect folders on your Windows desktop to organize your local ownCloud directory, wnCloud server. Anything shared with you nges will be automatically synced. With tips. Version 1.8.0.			

✓ Start installing the ownCloud client on the PC.

🖟 ownCloud Setup	
	Welcome to the ownCloud Setup Wizard
own(loud	This wizard will guide you through the installation of ownCloud.
	It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
	Click Next to continue.
	Next > Cancel

✓ Select which features of ownCloud to install.

🛃 ownCloud Setup							
Cloud C	Choose Components Choose which features of ownCloud you want to install.						
Check the components you wa install. Click Next to continue.	nt to install and uncheck the components you don't want to						
Select the type of install:	Standard 🗸						
Or, select the optional components you wish to install:	www.cloud Windows Explorer Windows Explorer Windows Explorer Windows Explorer						
Space required: 105.7MB Position your mouse over a component to see its description.							
ownCloud 1.8.0.4893 built on 2015/03/26 at 09:33 AM							
< Back Next > Cancel							

✓ Choose the folder where the ownCloud client will be installed.

😽 ownCloud Setup						
buolonwc	Choose Install Location Choose the folder in which to install ownCloud.					
Setup will install ownCloud in the following folder. To install in a different folder, dick Browse and select another folder. Click Install to start the installation.						
Destination Folder	Destination Folder C:\Program Files\ownCloud Browse					
Space required: 105.7MB Space available: 82.7GB						
ownCloud 1.8.0.4893 built	on 2015/03/26 at 09:33 AM					



✓ The ownCloud client has been installed on the PC.



✓ Run the ownCloud client and set the **Server Address** to that of the NAS.

. own	Cloud Connection Wizard	×
Co	nnect to ownCloud Update ownCloud server	own(loud
	Server Address http://10.251.40.53/	
		Next >

✓ Enter the Username and Password of the NAS

👞 ownCloud Connection Wizard	×
Connect to ownCloud Update user credentials	ownCloud
Username admin Password ••••	
	< Back Next >

✓ Select the file types to be synced from the **Server** and **Local Folder**.

and ownCloud Connection Wizard	×
Connect to ownCloud Update advanced setup	own(loud
Sync everything from server (69 MIB)     Choose what to sync	
D:\music	
Keep local data     Start a dean sync (Erases the local folder!)	
Warning: The local directory is not empty. Pick a re	isolution!
Skip folders config	uration < Back Connect

✓ Set up is finished.

. ownCloud Connection Wizard		×
Everything set up!	0	wn(loud
	Open ownCloud in Browser	
		Finish

✓ Check the files via the ownCloud page of the NAS after syncing.

Ó	w∩	Cloud		admin <del>v</del>
		šiz ↑		Deleted files
文件		名字	大小	修改日期
	J	01 Maps.mp3	7.4	11 hours ago
音乐	IJ	02 Animals mp3	9.0	11 hours ago
11	J	03 It Was Always You mp3 🖉 ඔස්ස 🖡 🕫 🔿 Versions < එම	9.3	11 hours ago 🛛 🗙
联系人	J	04 Unkiss Me.mp3	9.3	11 hours ago
	J	05 Sugar.mp3	9.2	11 hours ago
相片	J	06 Leaving California mp3	8.0	11 hours ago
	J	07 In Your Pocket mp3	8.6	11 hours ago
		AlbumArtSmall jpg	< 0.1	年前
		AlbumArt_{83DE791E-57D5-4539-89D6-D31BD8711DE0)_Large jpg	< 0.1	年前
		AlbumArt_{83DE791E-57D5-4539-89D6-D31BD8711DE0}_Small.jpg	< 0.1	年前
		AlbumArt_(7912684D-96E2-4E2A-9DA8-E4F0407F5882)_Large (pg	< 0.1	年前
		AlbumArt_{79126B4D-96E2-4E2A-9DA8-E4F0407F5B82}_Small.jpg	< 0.1	年前
		AlbumArt_{83B967E7-B7FD-43B0-9D64-F00A932EDB9A}_Large jpg	< 0.1	年前
		AlbumArt_(B3B967E7-B7FD-43B0-9D64-F00A932EDB9A)_Small jpg	< 0.1	年前
		AlbumArt_{E9DB5C09-F8B2-4B7D-9FAF-D81D1795D7C7}_Large jpg	< 0.1	年前
		AlbumArt_[E9DB5C09-F8B2-4B7D-9FAF-D81D1795D7C7]_Small.jpg	< 0.1	年前
		Folder jpg	< 0.1	年前
		IMG_20141004_114141.jpg	1.7	11 hours ago
		IMG_20141011_094632 jpg	2.4	11 hours ago
		IMG_20141011_094638 jpg	1.8	11 hours ago
		IMG_20141011_110852 jpg	2.2	11 hours ago

✓ Check the files in the local folder of the PC after syncing.



## 8.7 pyLoad

pyLoad is a fast, lightweight and full featured download manager for many One-Click Hosters, container formats like DLC, video sites or just plain http/ftp links. It aims for low hardware requirements and platform independence to be runnable on all kinds of systems (desktop PC, netbook, NAS, router).

8.7.1 Installing pyLoad from the Package Management

- ✓ Log into the NAS using **NAS Starter Utility** or a **Web browser**.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the pyLoad package from the table and then click the Install/Upgrade button.
- Click Apply to install the pyLoad package.

em Setting - F	irmware/Packages				
W Upgrade	Package				
ackage Mana	agement				
Retrieve List From Internet	nstall/Upgrade Inistall/Ca Installatio	ncel Enable Disable	Package Info	TCP (Transmission Control Protocor). It cannot list directories nor authenticate users.	
Enabled	Transmission	:	2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091
Enabled	WordPress	PHP-MySQL- phpMyAdmin	.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/WordPress/ https://10.251.40.41:5001/pkg/WordPress
Enabled	myZyXELcloud-Agent	0.	0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your ZyXEL network devices accessory from anywhere that has an internet connection!	https://mycloud.zyxel.com
Enabled	ownCloud	PHP-MySQL- phpMyAdmin	.0.2zypkg002	This allows you to create and manage your private cloud.	http://10.251.40.41:5000/pkg/ownCloud/ https://10.251.40.41:5001/pkg/ownCloud/
Not Installed	d pyLoad	C	.4.9zypkg002	Have the NAS manage your downloads including those from one-click-hosting sites.	
10000.00	Ready				

nstall/Upgrade							
nstall/Upgrade	Package List						
Action	Package Name	Version	Size	Source			
Install	pyLoad	0.4.9zypkg002	56.79 MB	NAS			
Select Volu	me	Volume1(582.9G	)				
Package To	tal Size	56.79 MB					
Current Fre	ee Size	534.46 GB					
	0.000	Apply Cance					

# 8.7.2 Configuring pyLoad on the NAS

#### STEPS

 After installing and running pyLoad, click Applications > pyLoad to configure an account.

System Setting -	ystem Setting - Firmware/Packages						
FW Upgrade	Package						
Package Man	agement						
Retrieve List From Internet	Install/Upgrade Uninstall/Canc Installation	el Enable Disa	able Package Info				
				It cannot list directories nor authenticate users.	•		
Enabled	Transmission		2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091		
Enabled	WordPress	PHP-MySQL- phpMyAdmin	3.9.1zypkg002	This allows you to create and manage a blog. Use the NAS administrator credentials to log in. The administrator can then create accounts for other users.	http://10.251.40.41:5000/pkg/WordPress/ https://10.251.40.41:5001/pkg/WordPress/		
Enabled	myZyXELcloud-Agent		0.0.13zypkg0013	myZyXELcloud, your solution for remote application management and securely access to your ZyXEL network devices accessory from anywhere that has an internet connection!	https://mycloud.zyxel.com		
Enabled	ownCloud	PHP-MySQL- phpMyAdmin	7.0.2zypkg002	This allows you to create and manage your private cloud.	http://10.251.40.41:5000/pkg/ownCloud/ https://10.251.40.41:5001/pkg/ownCloud/		
Built-in	pyLoad		0.4.9zypkg002	Have the NAS manage your downloads including those from one-click-hosting sites.	Applications > pvLoad		
P Message	Ready				۲		

✓ Click Enable pyLoad then enter the admin Password and Port Number.

Applications - pyLoad	
Settings	admin
Password Password (Confirm) Port Number	7272
Note: Default password:1234.	
	Apply Reset

### ✓ Click the pyLoad Management Page link.

Applications - pyLoad		
Settings		
<ul> <li>Enable pyLoad</li> <li>Management Page</li> <li>Username</li> <li>Password</li> <li>Password (Confirm)</li> <li>Port Number</li> </ul>	http://10.251.40.41:7272 admin 	]
Note: Default password:1234.		
		Apply Reset

✓ On the **pyLoad** login page, type the username and password.

← → C 10.251.40.31:7272/login	★ =
🥐 pyLoad	Please Login!
A Home O Queue & Collector 🕹 Downloads	Config
pyLoad - Webinterface	
Login	1
Username Password	
Logn	j
© 2008-2011 pyLoad Team Back to top	

✓ After successfully logging in to the **pyLoad** page, configure plugin settings in the **Config > Plugins > Menu** screen.

→ C 10.251 → PyLoc ← Home (	.40.31:7272 ad 🕑 Queue 🛛 🏩 Collector 🛛 🐺 Download	5		admin [	GLogout 🖭 Admin	istrate 🕜 Info
Start Stop Stop	Cancel 🔹 Add		ODwnload: on	🔊 Reconnect: off 🛛 🍓 Speed: 0 B/s	Active: 0 / 0 / 0	Reload page
Active Dow	vnloads					
Name	Status	Information	Size	Progress		
		© 2008-2011	byLoad Team Back to top			

Ç pyLoac @Home ⊘	aueue 🍳 Collector 👎 Downloads				admin 📑	QLogout €Admi	nistrate 🕜 Info
● Start ● Stop ≤ Cano	el		ODownload: on	Reconnect of	🍬 Speed: 0 Bis	@Active: 0/0/0	Reload page
Config							
General Plug	ins Accounts						
Menu CaptchaTrader CickAndLoad EmbeduploadCom EvlorieRicher ExtractArchive HotPolder IRCInterface LinkList MergeFiles Mutthome MuttolaadC2 MuttolaadC2 MuttolaadCa	deo Download Hoster 0 de * de * de * de * on *						
RapidshareCom RealdebridCom RehostTo SerienjunkiesOrg Ulo2To UlpdateManager VeehdCom XM/PPInterface Xdcc YoutubeCom	ם	© 2008-2011 pyLoad Team Back b	o top				

→pyLoad tome ② Queue @ Collector ♣ Downloads	🚷 sdmin 🚺 Logout 🕮 Administrate 🕡 Info
• Start • Stop × Cancel • Add	🕐 Download: 🚾 🛛 🎉 Reconnect 🌌 🎕 Speed: 0 Bis 💿 Active: 0 / 0 / 0 🔤 Reload page
Config	
General Plugins Accounts	
Menu YoutubeCom	
Youtube.com Video Download Hoster	
FMT Number 0-45: 0	
Allow .3gp. off •	
Allow .webm: off •	
Quality Setting: hd •	
Allow fiv: on V	
Allow mp4. on V	
Submit	
0	© 2008-2011 pyLoad Team Back to top

✓ View and configure plugin accounts in the **Config > Accounts** screen.

PyLoad	- Downloads			admin 🗾	Logout EAdministrate () Info
♦ Start      Stop      Scancel      Add     Add			ODownload: on	Acconnect: off Speed: 0 B/s	Active: 0 / 0 / 1 Reload page
Config General Plugins Accounts	L				
Plugin Name MegasharesCom	Password Status valid	Premium Valid until no unlimited	Traffic left Time M unlimited	lax Parallel Delete?	
Submit Add		© 0000 0044 mil and 1	Tanan Danisla kan		

- 8.7.3 Check the Download Status on the pyLoad Page
  - ✓ Go to **pyLoad > Home** and click **Add** to configure a download item.

🤁 pyLoa		loads		admit	Logout 💽 Admi	nistrate 🕜 Info
● Start ● Stop ● C Active Dow	ancel Add	liuaus	O Download: on	🚜 Reconnect: <mark>off</mark> 🏻 🍫 Speed: 0	B/s () Active: 0 / 1 / 7	Reload page
Name	Status	Information	Size	Progress		
		© 2008-2011 p	Load Feam Back to top			

Add Package	
Paste your links or upload a container.	
Name The name of the new package.	TEST5
Links Paste your links here or any text and press the filter button. Filter urls 🐊	https://www.youtube.com/watch?v=-QHC8iI531A
Password Password for RAR-Archive	
File Upload a container.	Choose File No file chosen
Destination	Queue Collector
Add Package	Reset

✓ The application starts the download process immediately.

Home Queue & Collector & Downloads				Sconfig
Start 🔹 Stop 🛞 Cancel 💿 Add		ODownload: on Acconnect: o	ff 🛛 🍓 Speed: 4.4 MiB/s	Active: 3 / 10 / 16 Reload p
Active Downloads				
Name	Status	Information	Size	Progress
Name Mariah Carey Charmbracelet Full Album.mp4	Status downloading	Information 00:00:30 @ 1.78 MiB/s	Size 375.96 MIB	Progress 85% / 321.82 MIB 🛞
Name Mariah Carey Charmbracelet Full Album mp4 Mariah Carey - The Adventures of Mimi - Anaheim Concert 2006 mp4	Status downloading downloading	Information 00:00:30 @ 1.78 MiB/s 01:26:18 @ 274.00 KiB/s	Size 375.96 MIB 1.41 GIB	Progress 85% / 321.82 MIB ® 4% / 60.3 MIB ®

✓ Once download is done, check the file(s).



## 8.8 TFTP

Trivial File Transfer Protocol (TFTP) is a simple, lock-step, file transfer protocol, which allows a Client (computing) to get from or put a file onto a remote Host (network). One of its primary uses is in the early stages of nodes booting from a Local Area Network. TFTP has been used for this application because it is very simple to implement.

8.8.1 Installing TFTP from the Package Management

- ✓ Log into the NAS using NAS Starter Utility or a Web browser.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the TFTP package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **TFTP** package.



In	stall/Upgrad	le			
In	stall/Upgrade	Package List			
	Action	Package Name	Version	Size	Source
lled	Install	Tftp	0.7zypkg002	537.16 KB	NAS
	Select Vol	ume	Volume1(582.90	G) 🔽	
	Package T	otal Size	537.16 KB		
	Current Fr	ree Size	534.41 GB		
			Apply	<u>م</u>	
		25100		e	pports toment and magnet.

## 8.8.2 Enable TFTP server on the NAS

#### **STEPS**

✓ After installing the TFTP server, open the NAS GUI and click Applications
 > TFTP Server. Check Enable TFTP Server.

Applications - TFTP Server	
TFTP Server	
Enable TFTP Server	
-	
	Apply Reset

### 8.8.3 Set Up the TFTP Share Folder on the NAS

✓ To add a TFTP share, enter the share name in the Folder Name field and click the Add icon. The TFTP share (e.g., TFTP testing) appears in the table. Click the share to configure it.

Browse		
Current Location: /		Folder Name:
Type	Name	
tftp upload file		

Appli TFT	cations - TFTP Server P <b>Server</b>	
~	Enable TFTP Server	
•	Upload / Download Directory Setting Shares Path	View Files TFTP /tftp upload file Browse
		Apply Reset

### 8.8.4 Client Access to the TFTP server

✓ Enable TFTP server on Linux.

Pro <u>t</u> ocol	TFTP	
10.251.40.4	1	<b>+×</b>
# 8.9 NZBGet

NZBGet is a usenet downloader, written in C++ and designed with performance in mind to achieve maximum download speed by using very little system resources. It supports all platforms including Windows, Mac, Linux and works on all devices including PC, NAS, WLAN routers and media players.

8.9.1 Installing NZBGet from the Package Management

#### STEPS

- ✓ Log into the NAS using NAS Starter Utility or a Web browser.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the NZBGet package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **NZBGet** package.



Install/Upgrade						
	Install/Upgrade	Package List				
	Action	Package Name		Version	Size	Source
	Install	NZBGet		14.1zypkg002	11.81 MB	NAS
	Select Volu	ume		Volume1(582.9G	)	
	🗹 Enable pa	ckage(s) after installing.				
	Package To	otal Size		11.81 MB		
	Current Fr	ee Size		532.26 GB		
				Apply Cance		

# 8.9.2 Enable NZBGet Service on the NAS

✓ After installing NZBGet, click the link provided (e.g., http://NASIP:6789) to access the NZBGet GUI.

V Upgrade	Package				
ackage Man	agement				
<b>~</b> 2	÷ \$				
Retrieve List From Internet	Install/Upgrade Uninstall/Ca Installatio	ncel Enable n	Disable Package Info		
Not Installe	d Logitech® Media Server	PHP-MySQL- phpMyAdmir	7.7.4zypkg00	2 This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Built-in	Memopal		2.4.4zypkg00	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	Applications > Memopal
Built-in	NFS		1.3.0zypkg00	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.	<u>Network &gt; NFS</u>
Enabled	NZBGet		14.1zypkg00	This package downloads .nzb file from 2 Usenet. Default username:nzbget password:1234	http://10.251.40.41:6789/
Enabled	PHP-MySQL- phpMyAdmin		1.0zypkg00	This tool can be used to manage MySQL through the web. Enter 'root' as the username and '1234' as the password to log in.	http://10.251.40.41:5000/pkg/phpmyadmi https://10.251.40.41:5001/pkg/phpmyadmi
				Trivial File Transfer Protocol (TFTP) is an Internet file transfer protocol that uses port	

- ✓ Enter the **User Name** and **Password** to log into the NZBGet GUI.
- ✓ Note: Use the default user name "nzbget" with password "1234".

Authentication Required ×
The server http://10.251.40.41:6789 requires a username and password. The server says: NZBGet.
User Name: Password:
Log In Cancel

✓ The NZBGet GUI main screen displays.

122B G¢1 ♀ ★ KB/s ⊙ 0h 0m		Downloads	History Mes	sages 🕧 🛛 Settings		
+ Add  ☑ Edit  ➤ Merge	e II Pause FResume	Delete <b>T</b>	<b>↓ ↑ ∓</b>			
10 records per page						
Status	Name	Category		Age	Size Left	
Download queue is empty. To add downloads click Add butt	Download queue is empty. To add downloads click Add button or put nzb-files into incoming nzb-directory (option <i>NzbDir</i> ).					

# 8.9.3 Configuring NZBGet

✓ Click Settings to configure NEWS-SERVERS.

1)2B G¢1 ♥ ♥ → KB/s ♥ 0h 0m	Downloads History Messages 1 Settings
INFO SYSTEM	NEWS-SERVERS
OPTIONS	Server1
NEWS-SERVERS REMOTE CONTROL	Server1 Level 0 0-99 Level (priority) of news server.
PERMISSIONS INCOMING NZBS	The servers are ordered by their level. NZBGet first tries to download an articl fails, NZBGet tries all other level-0-servers. If all servers fail, it proceeds with t
DOWNLOAD QUEUE	Put your major download servers at level 0 and your fill servers at levels 1, 2,
CATEGORIES	Several servers with the same level may be defined, they have the same prior
SCHEDULER PAR CHECK/REPAIR	Group of news server.

✓ Type the Server Host, Server Port, Username and Password that the ISP Usenet server provided.

122B Ge1 ♥ → ₩ KB/s © 0h 0m	Downloads	History Message	s 6 Settings	Search settings 🗶 🗘 -
NEWS-SERVERS REMOTE CONTROL	Server1.Level	0 0-99 evel (priority) of news s	server.	
PERMISSIONS INCOMING NZBS DOWNLOAD QUEUE CATEGORIES LOGGING SCHEDULER PAR CHECKIREPAIR UNPACK POST-PROCESSING SCRIPTS	Server1.Group	he servers are ordered ails, NZBGet tries all of Put your major downloar several servers with the 0 0-99 Group of news server. If you have multiple acc han 0) for all of them. If Yalue "0" means no gro	by their level. NZBGet first trie her level-0-servers. If all server d servers at level 0 and your fill same level may be defined, th ounts with same conditions (ref download fails on one news so up defined (default).	is to download an article from one (any) of level-0-servers. If that servers fail, it proceeds with the level-1-servers, etc. servers at levels 1, 2, etc., level have the same priority. tention, etc.) on the same news server, set the same group (greater arver, NZBGet does not try other servers from the same group.
EMAIL LÖGGER	Server1.Host	10ST name of news serv	rer.	
	Server1.Password	First To connect to.	thentic ation.	

✓ Click **Save all changes** to save the configuration.

	"Co	ould not sele	ect cipher for TLS" if the cipher string is not v
Server1.Connect	ions 4	(	0-999
	Ma	aximum numl	ber of simultaneous connections to this serv
Delete Server1			
Add another Server			
Save all changes			

✓ Click **Reload NZBGet** to validate the configuration.

	ZB	¥ KB/s ₲ 0h 0m	Downloads	History	Messages 🜀	Settings	Sea
	Configuratio For changes to TIP: You can i	n has been saved successfu bave effect NZBGet must be n reload anytime later in section S	<b>ully</b> eloaded (soft-restart). <b>YSTEM</b> on settings page.				
Ļ	Reload NZBGe	]					

✓ The NSA reloads NZBGet.

Stopping all activities and reloading		

- 8.9.4 Download a File from an HTTP Link to the NAS via NZBGet
  - ✓ In the NZBGet GUI, click **Download** and then click the **Add** button.

1)ZB Get 💽 * 🛪 Get 💿	KB/s h 0m	Downloads Histor	y Messages 1	Settings			
+ Add 10 ▼ records p	+ Add						
Status	Name	Category		Age	Size	Left	
	Download queue is empty. To add downloads click Add button or put nzb-files into incoming nzb-directory (option <i>NzbDir</i> ).						

Enter a URL, select a Category then click Submit to start downloading the file. If Category is left blank, the file is automatically stored in /admin/download/nzbget/nzb/.

Add	NZB-Files to Download Queue
Add from URL	http://10.251.40.60/NZBGet_test/471AALS0C0.pdf The nzb-file will be downloaded from the URL and added to queue.
Add local files	Select files or drop files here. You need a modern browser for this to work.
Priority	normal
Category	
Add from incoming directory	Scan Click Scan if you have already put files to incoming directory (option NzbDir). The dialog will be closed automatically.
Quick Help	Close

✓ Check the file's download status in the Messages page.

DZB Get 耳	)* 💥 KB/s ⊙ 0h 0m	Downloads History Messages 4 Settings
🖶 Clear		
10 💌	records per page	
Kind	Time	Text
DETAIL	Mon Apr 20 2015 14:48:15	Download 10.251.40.60/NZBGet_test/471AALS0C0.pdf completed
DETAIL	Mon Apr 20 2015 14:48:14	Downloading 10.251.40.60/NZBGet_test/471AALS0C0.pdf
INFO	Mon Apr 20 2015 14:48:14	Queue 10.251.40.60/NZBGet_test/471AALS0C0.pdf
INFO	Mon Apr 20 2015 14:40:01	Messages have been deleted
Showing reco	ords 1-4 from 4	

✓ Check the downloaded file on the NAS.

Share	Browsing					
Create	Folder Upload	Rename	Delete d/nzbget	Move /nzb	Сору	
Турё			-		Name	
53						
B	471AALS0C0.n	df				
	471AALSOC0 2	 2.pdf				

# 8.9.5 Download a .NZB File via NZBGet

✓ Download a .NZB file and save it on the local computer.

A.Perfect.Man.2013.WEBRip.XviD-EVO.nzb	2015/4/17 下午 0
BBC_The_Polio_Story_The_Vaccine_That_Changed_The_World_2015_XviD.nzb	2015/4/17 下午 0
Percy.Jackson.Sea.Of.Monsters.2013.FR.DVDRiP.MD.XViD.boheme.nzb	2015/4/17 下午 0
Sous.Le.Soleil.De.Toscane.Fr.DVDrip.XviDnzb	2015/4/17 下午 0
The.Big.Wedding.2013.PAL.COMPLETE.DVD9-iOM.nzb	2015/4/17 下午 0
White.Bird.in.a.Blizzard.2014.REPACK2.1080p.BluRay.DD5.1.x264-HiFi.nzb	2015/4/17 下午 0

✓ In the NZBGet GUI, click **Download** and then click the **Add** button.

Downloads History Messages 🕧 Settings		🖡 KB/s O 0h 0m			
+ Add					
Category Age	Name Cat	atus			
Category Age	Name Cate	atus			

# ✓ Click Select files.

Add M	ZB-Files to Download Queue	×
Add from URL		
Add local files	The nzb-file will be downloaded from the URL and added to queue. Select files or drop files here. You need a modern browser for this to work.	
Priority	normal	
Category	•	
Add from incoming directory	Scan Click Scan if you have already put files to incoming directory (option <i>NzbDir</i> ). The dialog will be closed automatically.	,
Quick Help	Close	nit

✓ Select the downloaded .NZB file, choose a Category and then click Submit.

Add	NZB-Files to Download Queue	
Add from URL		
	The nzb-file will be downloaded from the URL and added to queue.	
Add local files	Select files or drop files here.	
	A Perfect Man 2013 WEBRip XviD-EVO nzb	
Priority	normal	
Category	Movies	
Add from incoming	Scan	
airectory	Click Scan if you have already put files to incoming directory (option <i>NzbDir</i> ). The dialog will be closed automatically.	
Quick Help	Close	

 $\checkmark$  The file is downloading.

Get 💽 🗸 428 KB/s Get 🥥 32m 52s	Downloads 1	History Messages 85	Settings			Sear
+ Add C Edit >	terge II Pause ▶ Resume 前 Delete	↓ ↑ ∓				
Status	Name		Category	Age S	ize	Left
	A Perfect Man 2013 WEBRip XviD-EVO Movies			697 🖞 🚺	60 MB	825 MB
DOWNLOADING						

 $\checkmark$  When the download is finished, the file should now be available on the NAS.

Share Browsing					
		~~		Ehs.	
	: 65	3		46	
Create Folder Upload	Rename D	elete M	love	Сору	
Current Location: /admin	ı/download/r	nzbget/ds	st/Movie	es	
<u>Τγρĕ</u>				Name	
i.					
A.Perfect.Man.20	13.WEBRip.	XviD-EV	C	1	

# 8.10 Logitech® Media Server

Logitech® Media Server is a media server which enables users to manage a Logitech's Squeezebox device connected to the NAS.

# 8.10.1 Installing Logitech® Media Server from the Package Management

## STEPS

- ✓ Log into the NAS using NAS Starter Utility or a Web browser.
- ✓ Click System Setting > Firmware/Packages > Package.
- ✓ Click Retrieve List From Internet, select the Logitech<sup>®</sup> Media Server package from the table and then click the Install/Upgrade button.

System Setting - Firr	mware/Packages				
FW Upgrade	Package				
Package Manage	ement				
Retrieve List From Internet	tall/Upgrade	el Enable Disa	ble Package Info		
<u>Status</u>	Package Name 🔺	Requires	Version	Description	Management Page
Enabled	Gallery	PHP-MySQL- phpMyAdmin	3.0.9zypkg002	This web-based application allows your NAS to host pictures. Use the NAS administrator credentials to log in. The administrator can then greate accounts for other upper	http://10.251.40.41:5000/pkg/gallery/ https://10.251.40.41:5001/pkg/gallery/
Not Installed	Logitech® Media Server	PHP-MySQL- phpMyAdmin	7.7.4zypkg002	This enables you to manage a Logitech's Squeezebox device connected to the NAS.	
Built-in	Memopal		2.4.4zypkg002	Memopal is online backup and online storage software that archives your files in real-time to a remote server.	Applications > Memopal
Built-in	NFS		1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.	<u>Network &gt; NFS</u>
Enabled	NZBGet		14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	http://10.251.40.41:6789/
				This tool can be used to manage MySQL	·
Aessage	Ready				

Click Apply to install the Logitech® Media Server package.
 Note: PHP-MySQL-phpMyAdmin are required. If not installed, users will be asked to install both packages.

ACTION	Package Name	Version	Size	Source	
Install	Logitech® Media Server	7.7.4zypkg002	126.07 MB	NAS	
Select Volume		Volume1(582.9G	)		
🖌 Enable p	ackage(s) after installing.				
Package Total Size		126.07 MB			
rackage	Current Free Size		532.24 GB		

8.10.2 Configuring Logitech® Media Server on the NAS

#### STEPS

✓ After installation, click the link provided to configure Logitech<sup>®</sup> Media Server.

					-		
						nagement	Package Man
		6		$\geq$		÷	<b>~</b> 2
		Package Info	Disable	Enable	de Uninstall/Cance Installation	Install/Upgrad	Retrieve List From Internet
Management Pag	Description Management Page	Version		<u>Requires</u>	ge Name 🔺	Packag	<u>Status</u>
ur NAS istrator <u>http://10.251.40.41:5000/pk</u> tor can <u>https://10.251.40.41:5001/pl</u> 3.	his web-based application allows your NAS o host pictures. Use the NAS administrator redentials to log in. The administrator can https://10.251.40.41:500/pkg/ga https://10.251.40.41:500/pkg/ga	0.9zypkg002	3	PHP-MySQL- phpMyAdmin	allery	Ga	Enabled
ech's <u>http://10.251.40.41:9</u>	his enables you to manage a Logitech's <u>http://10.251.40.41:9000</u> queezebox device connected to the NAS.	7.4zypkg002	7	PHP-MySQL- phpMyAdmin	h® Media erver	Logitech Se	Enabled
files in <u>Applications &gt; Memo</u>	temopal is online backup and online torage software that archives your files in <u>Applications &gt; Memopal</u> eal-time to a remote server.	4.4zypkg002	2		mopal	Men	Built-in
haring ed on <u>Network &gt; NFS</u>	IFS (Network File System) is a file-sharing rotocol most commonly implemented on <u>Network &gt; NFS</u> mix-like systems.	3.0zypkg002	1		NFS	N	Built-in
iharing ed on <u>Network &gt; I</u>	ear-time to a remote server. IFS (Network File System) is a file-sharing rotocol most commonly implemented on Inix-like systems. <u>Network &gt; I</u> his-rackage duveloads a sh file from	3.0zypkg002	1		NFS	N	Built-in

✓ Click Settings located at the bottom-right corner of the screen to enter the configuration page.





Configure the settings by following the instructions on each page. Click
 Apply to save the settings. Mouse over an icon i to view the corresponding instruction.



 Rescan the media library if any media content shown on the list is not available.

Logitech Med	lia Serv	er					
Basic Settings	Player	My Music	mysqueezebox.com	Interface	Plugins	Advanced	Information
Language			i English	٣			
Media library	name		i				
Media Folders	•		i Please go to t	he page of M	edia Server	to modify this s	setting.
Rescan Media	Library		i Look for new Look for new Clear library Only rescan	/ and changed / and changed and rescan e playlists	d media files d media files verything	Rescan	



# 8.10.3 Playing the media content via Logitech® Media Server by SoftSqueeze

- ✓ If users do not have Logitech's Squeezebox device, there is a free software called SoftSqueeze, which simulates Squeezebox on a PC. Download it from <a href="http://softsqueeze.sourceforge.net">http://softsqueeze.sourceforge.net</a>.
- ✓ When launching this software, the preferences window will be prompted. Please select the Squeezebox Server Hostname from the list to connect to Logitech<sup>®</sup> Media Server.

If the list of Squeezebox Server Hostname is empty, please make sure both server and PC are in the same network.

SoftSquee	ze Preferences	×
?	Basic Skin Audio Netwo	cking SSH Debug Console
	Squeezebox Server Hostname	NAS520 -
	SoftSqueeze Skin:	slimdevices 👻
	Java version: SoftSqueeze version: Squeezebox Server version:	1.8.0_20 3.9b2
	ОК	Cancel Rest

✓ After successfully connecting SoftSqueeze to Logitech<sup>®</sup> Media Server, users can access the media content in the storage.



 The currently playing media content is displayed on the web GUI of Logitech® Media Server.



# 8.11 PHP-MySQL-phpMyAdmin

#### PHP

Known as the "PHP: Hypertext Preprocessor," PHP is a widely used computer programming language. It is used to create dynamic Web pages, or Web pages that update and display information depending on the user's activity. PHP is mainly a server side language, allowing it to process Web pages faster and easier, providing a better user experience.

Reference: http://www.ehow.com/info\_8484766\_description-php.html

#### MySQL

MySQL is a database management system. A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, users need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

Reference: https://dev.mysql.com/doc/refman/4.1/en/what-is-mysql.html

## phpMyAdmin

phpMyAdmin is a free software tool written in <u>PHP</u>, intended to handle the administration of <u>MySQL</u> over the Web. It supports a wide range of operations on MySQL, MariaDB and Drizzle. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc.) can be performed via the user interface, while still having the ability to directly execute any SQL statement.

Reference: <a href="http://www.phpmyadmin.net/home\_page/index.php">http://www.phpmyadmin.net/home\_page/index.php</a>

Note: **WordPress, Gallery, SqueezeCenter** and **ownCloud** cannot be modified in phpMyAdmin.

# 8.11.1 Installing PHP-MySQL-phpMyAdmin from the Package Management

## STEPS

- ✓ Log into the NAS using NAS Starter Utility or a Web browser.
- ✓ Click System Setting > Firmware/Packages > Package.
- Click Retrieve List From Internet, select the PHP-MySQL-phpMyAdmin package from the table and then click the Install/Upgrade button.
- ✓ Click **Apply** to install the **PHP-MySQL-phpMyAdmin** package.

ystem Setting - Firmv	vare/Packages					
FW Upgrade Pag	ckage					
Package Managem	ent					
Retrieve List From Internet	Uupgrade Uninstall/Cancel Instalation	Denable	Disable	Package Info		
Built-in	NFS			1.3.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix- like systems.	<u>Network &gt; NFS</u>
Enabled	NZBGet			14.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	http://10.251.40.41:6789/
Not Installed	PHP-MySQL- phpMyAdmin			1.0zypkg002	This tool can be used to manage MySQL through the web. Enter 'root' as the username and '1234' as the password to log in.	
Built-in	Tftp			0.7zypkg002	Trivial File Transfer Protocol (TFTP) is an Internet file transfer protocol that uses port number 69. It is similar to FTP but uses UDP (User Datagram Protocol) rather than TCP (Transmission Control Protocol). It cannot list directories nor authenticate users.	Applications > TFTP Server
Enabled	Transmission			2.83zypkg002	This package is another P2P download client which supports torrent and magnet.	http://10.251.40.41:9091
					This allows you to create and manage a blog. Use	•
Message	Ready	-	-			

stall/Upgra	de			
stall/Upgrade	e Package List			
<u>Action</u>	Package Name	Version	Size	Source
Install	PHP-MySQL-phpMyAdmin	1.0zypkg002	116.98 MB	NAS
Select Vo	ume	Volume1(582.9G	i) 🔽	
Enable pa	ckage(s) after installing.			
Package T	otal Size	116.98 MB		
Current F	ree Size	532.48 GB		
	1	Apply Cance	1	
		прру Сансс	4	

# 8.11.2 Configuring phpMyAdmin on the NAS

## STEPS

✓ After installing and running **phpMyAdmin**, click the provided link to configure an SQL table.

System Setting	- Firmware/Packages					
FW Upgrade	Package					
Package Ma	nagement					
Retrieve List From	Install/Upgrade Uninstall/C	ancel Enable	Disable	Package Info		
Internet					real-time to a remote server.	
Built-in	NFS		1.3	.0zypkg002	NFS (Network File System) is a file-sharing protocol most commonly implemented on Unix-like systems.	Network > NFS
Enabled	NZBGet		14.	.1zypkg002	This package downloads .nzb file from Usenet. Default username:nzbget password:1234	http://10.251.40.65:6789/
Enabled	PHP-MySQL- phpMyAdmin		1.0	0zypkg002	This tool can be used to manage MySQL through the web. Enter 'root' as the username and '1234' as the password to log in.	http://10.251.40.65:5000/pkg/phpmvadmin/ https://10.251.40.65:5001/pkg/phpmvadmin/
					Trivial File Transfer Protocol (TFTP) is an Internet file transfer protocol that uses port number 60. It is similar to FTP but uses	-

Enter the NSA User Name and Password in order to access the phpMyAdmin page.

Authentication Required									
The server http://10.251.40.65:80 requires a username and password. The server says: phpMyAdmin localhost.									
User Name:	User Name: root								
Password: ****									
Log In Cancel									

✓ Click Databases to check existing databases, create a new database, and manage databases and tables.

phpMyAdmin	뎛 Server: localhost	
🛆 📟 🔜 🛯	Databases Databases Calification Charsets Calification Charsets Calification Control C	
<ul> <li>WordPress (14)</li> </ul>	Actions	MySQL
<ul> <li>information_schema (28)</li> <li>mysql (23)</li> <li>test (67)</li> </ul>	9° Charge password ■ Log out ()	Server: Localhost via UNIX socket     Server version: 5.1.30     Detected version: 5.1.0
Please select a database	MySQL localhost	User: root@localhost
	Secreate new database ()	1 MySQL charset: UTF-8 Unicode (utf8)
	Collation Collation	Web server
	Lai MysiaL connection collation: utt3_general_ci • (0)	Apache/2.2.9 (Unix) mod_ssl/2.2.9 OpenSSL/0.9.80 PHP/5.4
	Interface	MySQL client version: 5.1.30
	S Language (D) English	<ul> <li>PHP extension: mysqi</li> </ul>
	Style Original	phpMyAdmin
2	Custom color:      Reset	Version information: 3.1.1
	Font size: 82%	Documentation
		Wiki Charles
		[ChangeLog] [Subversion] [Lists]

# 8.11.3 Example

#### **STEPS**

✓ Under MySQL localhost, create a new database for a web site, such as a blog.



ph MyAdmin	gg Server: localhost I 🗿 Database: MyBlog
A 🖼 🖬 🛛 🔍	🖀 Structure 🚜 SQL 🔑 Search 👜 Query 🚵 Export 🖓 Import % Operations 😒 Privileges 🐹 Drop
	✓ Database MyBlog has been created.
MyBlog T	CREATE DATABASE 'MyBlog' ;
iny blog	
MyBlog (0)	
No tables found in database.	No tables found in database.
	ு 🎁 Create new table on database MyBlog————————————————————————————————————
	Name: Number of fields:

 Configure the web information (i.e., Host Name, Username and Password) to sync the databases with MySQL.

	🔀 Joomla!°							
	Joomlal $^{\oplus}$ is free software released under the GNU General Public License.							
Configuration	Database 3 Overview							
Database Conf	iguration + Next							
Database Type *	MySQL  This is probably "MySQLI"							
Host Name *	localhost							
Username *	This is usually "localhost" root Either something as "root" or a username given by the host							
Password	For site security using a password for the database account is mandatory							
Database Name *	MyBlog Some hosts allow only a certain DB name per site. Use table prefix in this case for distinct Joomlal sites.							
Table Prefix *	bxmqa_							
	Choose a table prefix or use the <b>randomly generated</b> . Ideally, three or four characters long, contain only alphanumeric characters, and MUST end in an underscore. <b>Make sure that the prefix chosen is not used by</b>							

✓ After syncing databases, a number of tables will be created and users can start setting up the web site.

phpMyAdmin 🔒	덄 Se	rver: localhost ▶ 👼 Data	base: My	Blog										
	😭 🔂	tructure 🛛 🚜 SQL 🖉 Se	arch 🚇	Que	y å	🖗 Ex	port	201	mpor	t % Opera	tions 😭	Privileges 🛛 🔀 Drop		
		Table				Ac	tion			Records1	Туре	Collation	Size	Overhead
Database		bxmqa_assets			r B	1	34	T	×	44	MyISAM	utf8_general_ci	10.2 KiB	-
yBlog (67) 🔹		bxmqa_associations		E	ß	12	36	TT	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
Blog (67)		bxmqa_banners			ß	1	34	T	×	0	MyISAM	utf8_general_ci	4.0 KiB	-
hyman assata		bxmqa_banner_clients			±	12	30	m	×	0	MyISAM	utf8_general_ci	4.0 KiB	-
bxmqa_associations		bxmqa_banner_tracks		E	ß	12	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
xmqa_banners xmqa banner clients		bxmqa_categories			ŝ		34	T	×	7	MyISAM	utf8_general_ci	19.1 KiB	-
xmqa_banner_tracks		bxmqa_contact_details			đ	12	34	107	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
oxmqa_contact_details		bxmqa_content			Ē		34	T	×	6	MyISAM	utf8_general_ci	20.4 KiB	-
xmga_content xmga_contentitem_tag_mar		bxmqa_contentitem_tag	map	E	ŝ	12	34	1	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
xmqa_content_frontpage		bxmqa_content_frontpag	e	E	ß	12	34	TT	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
xmqa_content_types		bxmqa_content_rating			ß	1	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	
xmqa_core_log_searches		bxmqa_content_types			Ê	1	30	<b>T</b>	×	13	MyISAM	utf8_general_ci	28.9 KiB	-
nqa_finder_filters		bxmqa_core_log_search	es		ß	1	34	TT	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
iqa_finder_links iqa_finder_links_terms0		bxmqa_extensions		Ξ	ŝ	1	34	T	×	132	MyISAM	utf8_general_ci	81.3 KiB	-
qa_finder_links_terms1		bxmqa_finder_filters		Е	đ	12	34	11	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
nqa_finder_links_terms3		bxmqa_finder_links			Ê	1	34	T	×	0	MyISAM	utf8_general_ci	4.0 KiB	-
mqa_tinder_links_terms4 mqa_finder_links_terms5		bxmqa_finder_links_term	150		ŝ	12	34	1	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
mqa_finder_links_terms6		bxmqa_finder_links_term	ns1		Ē	12	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
mqa_finder_links_terms8		bxmqa_finder_links_term	152		ß	1	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
kmqa_finder_links_terms9 kmqa finder links termsa		bxmqa_finder_links_term	183		đ	12	30	111	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
xmqa_finder_links_termsb		bxmqa_finder_links_term	ns4		Ē	1	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
kmqa_finder_links_termsd		bxmqa_finder_links_term	155		ŝ	12	36	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
kmqa_finder_links_termse kmga_finder_links_termsf		bxmqa_finder_links_tern	ns6	E	ß	12	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
oxmqa_finder_taxonomy		bxmqa_finder_links_term	ns7		ŝ	1	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
oxmqa_finder_taxonomy_ma bxmqa_finder_terms		bxmqa_finder_links_term	158		til I		34	10	×	0	MyISAM	utf8_general_ci	1.0 KiB	-
bymaa finder terms commo -	php?db=	MyBlog&token=a7b51e4b18d	96d8f09bfe	e00dd	13274	a6 🗐	34	T	×	0	MyISAM	utf8_general_ci	1.0 KiB	-



# 9 DyDNS

Dynamic DNS points an easy to remember hostname to a dynamic IP address. If a NAS is set up with a dynamic IP address behind a router, a host name can be configured on the NAS. When users are outside and want to access the NAS, they can log in using the hostname of DyDNS in case they forget or do not know the IP address of the unit.

# 9.1 Set up DyDNS on the NAS

#### STEPS

✓ Click **Network > DyDNS** to configure an account.

Network - DyDNS		
Status		
Status	Disable by user	
Gateway Information		
Default Gateway	LAN1	
Internal Address	Unknown	
External Address		
Configuration		
Enable DyDNS support to allow users Enable DyDNS Service Provider Hostname Username Password Password (Confirm)	bynDNS.com	
	Apply Reset	
Message Ready		

- ✓ A drop-down menu containing DDNS support services appears.
- ✓ Note: The DDNS support service, **myzyxel.in.th**, can used in Thailand only.

DynDNS.com	T
DynDNS.com	
NoIP.com	
3322.org	
zoneedit.com	-
dhs.org	
myzyxel.in.th	

- ✓ The following steps set up DyDNS using NoIP.
- ✓ Create a host on a NoIP account.

Manage Hosts									
Host mynas520.no-ip	.org created. Update will be applied	within 1 minute.							
Current Hosts: 2 Need More Hosts? Enhance Your Account! Enhance Your Account									
Host IP/URL Action									
🚱 Hosts By Domain									
no-ip.org									
		Modify 🔀 Remove							
mynas520.no-ip.org 114.34.247.205									
		Add A Host							

- ✓ Check Enable DyDNS.
- ✓ Type the **Hostname**, which will be created on the NoIP domain.
- ✓ Type the **Username/Password** for the NoIP account.
- ✓ Click **Apply** to save the configuration.

Network - DyDNS		
Status		
Status	Success to update	
Gateway Information		
Default Gateway	LAN1	
Internal Address	10.251.40.41	
External Address	114.34.247.205	
Configuration		
Enable DyDNS support to allow users Enable DyDNS Service Provider Hostname Username Password Password (Confirm)	to access the server through a registered hostname.  DynDNS.com mynas520.no-tp.org	
	Apply Reset	
Message Ready		

✓ Log into the NAS via the defined hostname to confirm the settings.

Opera ZyXEL NAS520	×	¢					Ę		-
← → C III 🔞 mynas	520.no-ip	org						٩	)
ZyXEL						Lang	uage: English	. ?	2
Status	St	atus						_	l
NAS520		( System Information							
E-System Setting H-rimware/Packages _ Date/Time Date/Time E-Storage L-External Volume - Network H-TCP/IP - UPAP Port Mapping - PPPoE - Telnet/SSH - DyDNS _ NFS - PAPpications L-FTP Server	E	Server Name Model Name Firmware Version Media Server Status FTP Server Status Web Publishing Status UPS CPU Usage CPU Usage CPU Temperature FAN Speed Memory Usage	NAS520 NAS520 VS O4(AAS2.0)b2 Enabled Enabled N/A 631 RPM	3% 41.00°C (105.80°F) 34% Used, 346MB/995MB	0 000000000000000000000000000000000000				
-Media Server		Volume Status							
-Download Service		External Volume							
-Web Publishing		Status	Name	File System	Disk(s)	E	oisk Usage		
- Copy/Sync Button		Healthy	Transcend	ntfs	Front USB	14.72 GB Total	0.43% (64.88 MB)	Used ) Free	
-Dropbox -Time Machine -GoogleDrive		Active Sessions							
-Syslog Server		<u>Type</u> *	Share Name	<u>Username</u>	Connected	At	IP Address		
Memopal		Web		admin	2015-05-14 10:	40:47	10.251.40.42		
pyLoad	- 5	Message Ready						۲	

# 10. Protect

Use the NSA's Backup to have a backup of files and folders.

This packet enables users to schedule a backup of important files when the NSA is not busy (such as during the night or on weekends). For example, users can do daily backups of important individual files or folders, and a weekly general archive. Save the backup to another location so that files are safe even if the original RAID or NSA fails.

10.1 Set up a Backup task on the NAS

- The following is an example wherein NAS data are sent to a remote storage for backup.
- ✓ Create a backup job by clicking **Protect > Backup**.
- ✓ Use NAS to create a backup job in which files are stored to another NAS (e.g., NSA325 v2).
- ✓ Click Add Job.



✓ Select a backup type: choose **Archive > Full**.

Ob Information	n	
Job Name:	Fullbackup	
Job Description :	Add new backup for NAS	
Backup Type		
Archive		
Full		
Increme	ital	
Synchronizati	n	
Rsync		

✓ Choose a folder.

Step 2  Backup Source  Volume1
OB Backup Source       Volume1       □       ↓       <
Volume1 x Ulume1 volume1 Ulume1 Ulume1 Volume1 Ulume1 Ulume1 Volume1
Image: State
Image: Grade of the second
Image: Image
⊕-     music       ⊕-     ✓ admin
🕂 🔽 admin
tri_ memopai
Selected Source Folders
Volume1/admin/
C Backup larget
Remote
Remote NSA Address
Username
P dasworu
Test connection
O Local
External
Protos
Massage Ready

✓ Make sure the connection is up between NSA520 and NSA325 v2.

Protect - Backup		
Step 2		
● Back Volume E- ✓ V ‡-	up Source olume1 video	
中 中 中	photo music admin	
₽-0 ₽-0 ®-0	Memopal nfs TFTP	
Selecte	ad Source Folders	<b>A</b>
Volume	1/admin/	
Back	un Tarret	
• Rem Re	ote note NSA Address 10.251.40.40	
Us	arname admin	
Pa	sword	
Sh	are Name admin	
	est Connection	
Su	ccessfully connected to the Remote NSA.	
O Loca	1	
○ Exte	mai	
	Pro-	vious Next
P Message	Ready	

- ✓ Compress the file.
- ✓ Users can either have an encryption password for the compression file or opt not to have a password.
- $\checkmark$  The following is an example of a backup without a password.

Protect - Backup	
Add a new backup Job	
Step 3	
( Compression	
Yes	
○ No	
Encryption	
○ Yes	
No	
Purge Policy	
Keep All Old Backup files	
Keep Only the last backup files	
Keep Backups For day(s)	
	Previous Next

✓ If the user has set up a password, it must be remembered. The password will be needed in order to restore the backup file.

Step 3			
Compression			
• Yes			
○ No			
Encryption			
Encrypt Archive File			
Yes			
Password:			
Confirm Password:			
○ No			
Purge Policy			
Keep All Old Backup files     Keep Only the last	hadkun filos		
C Keep Only the last	backup files		

# ✓ Set a backup time.

a new backu	p Job					
Step 4			 			
🕑 Sche	duler					
Backup	Frequency:	Daily				
Start Tir	ne (hh:mm):	0				
Every ho	ow many days?	*				
						Previous

 $\checkmark~$  Wait for the backup job to finish.

Protect - Backup				
Backup				
Add Job Edit J	ob Delete Selected Job(s)	Execute Job Now Archiv	e Abort Job Activate Inactivate Job Job	
<u>Status</u>	Job Name	<u>Job</u> Description	Backup Info	Scheduler Info
WAITING	Fullbackup	Add new backup for NA S	Backup Type: Full Backup Source: /Volume1/admin/ Backup Target:10.251.40.40:admin/	Frequency: Daily Last Run Time: N/A Last Run Result: N/A Next Run Time: 2015-05-15 00:00:00
E Message	Ready			۲

 $\checkmark~$  Job is in progress as shown in the **Running bar**.

citap							
÷	:69				?	8	
dd Job	Edit Job	) Delete Selected Job(s)	Execute Restor Job Now Archiv	re AbortJob Act /e J	ivate Ir ob	activate Job	
u must a	bort the	currently run	ning job if you war	nt to restore a job.			
<u>Statu</u>	<u>is</u> ^	<u>Job Name</u>	<u>Job</u> Description		Bac	kup Info	Scheduler Info
	NG	Fullbackup	Add new backup for NA S	Backup Type: Full Backup Source: /\ Backup Target:10	/olume1/ .251.40.	/admin/ 40:admin/	Frequency: Daily Last Run Time: 2015-05-14 11:47:38 Last Run Result: N/A

 Note: The backup job can be manually started to run immediately by clicking Execute Job Now.

Backup         Image: Add Job       Image: Add Job       Image: Abort J	Protect - Backup				
Image: Second	Backup				
Status         Job Name         Job Description         Backup Info         Scheduler Info           WAITING         Fullbackup         Add new backup for NA S         Backup Type: Full Backup Source: /Volume1/admin/ Backup Target:10.251.40.40:admin/ Backup Target:10.	Add Job Edit .	Job Delete Selected Job(s)	Execute Job Now Restor	e Abort Job Activate Inactivate g Job Job	
WAITING         Fullbackup         Add new backup for NA S         Backup Type: Full Backup Source: /Volume1/admin/ Backup Target:10.251.40.40:admin/ Backup Target:10.251.40:admin/ Backup Target:10.251.	<u>Status</u>	<u>Job Name</u>	<u>Job</u> Description	Backup Info	Scheduler Info
	WAITING	Fullbackup	Add new backup for NA S	Backup Type: Full Backup Source: /Volume1/admin/ Backup Target:10.251.40.40:admin/	Frequency: Daily Last Run Time: N/A Last Run Result: N/A Next Run Time: 2015-05-15 00:00:00

- ✓ Backup task is finished.
- $\checkmark$  The files are ready to be restored.

ckup								
÷	:67			Ð		8		
Add Job	Edit Job	Delete Selected Job(s)	Execute Re Job Now A	estore rchive	Abort Job	Activate Job	Inactivate Job	
<u>Statu</u>	<u>s</u> ^	<u>Job Name</u>	<u>Job</u> Descriptio	<u>on</u>		<u>B</u>	ackup Info	Scheduler Info
	١G	Fullbackup	Add new bac for NA S	:kup	Backup Type: Backup Sourc Backup Targe	Full :e: /Volum t:10.251.	e1/admin/ 40.40:admin/	Frequency: Daily Last Run Time: 2015-05-14 11:47:38 Last Run Result: success Next Run Time: 2015-05-15 00:00:00

# 10.2 Restore file from a remote location

## STEPS

- ✓ Go to **Protect > Restore**.
- ✓ Type the remote NSA information.

Step 1. Select R	estore Source		
Remote NS	A		
IP Address	10.251.40.40		
User	admin		
Password	••••		
Share Nam	e admin	Test Connection	
<ul> <li>Internal or</li> </ul>	External Volume		
		Browse	

# ✓ Test the connection.

re				
Step 1. Select Re	store Source			
Remote NSA	L. C.			
IP Address	10.251.40.40			
User	admin			
Password	••••			
Share Name	admin	Test Connection	Successfully connected to the Remote NSA.	
<ul> <li>Internal or E</li> </ul>	External Volume			
		Browse		

# $\checkmark$ Select the file to be restored.

Step 2. Select Restore Point		
	Job Name	
۲	Fullbackup	
0	download	
0	eMule	
0	zy-pkgs	
0	zyfw	
A	Restored Time	
	2015-05-14 11:47:39	

## ✓ Choose a folder/file to restore.

Protect - Restore		
Restore		
Step 3. Please select which file(s)/folder(s) to re	store.	
ever booser E- ∑ / ⊕- ∑ admin	/ A	
		Previous Next
Ready		

 $\checkmark$  Set a restore target location and start the restoring process.

Protect - Restore	
Restore	
Step 4. Set a restore target and start restoring         Path for restoring         Browse         Please input encryption password if you have set to this backup job	
	Previous Done

owse	
olume Volume1 ( 582.94 GB )	
irrent Location: /	Manua
ype	Name
S	
🛅 Memopal	
C Restore	
TFTP	
🚞 admin	
🛅 lost+found	
🚞 music	
🛅 nfs	
🚞 photo	
🚞 video	
	Apply Cancel

Step 4. Set a restore target and start	restoring	
Path for restoring		
/Restore	Browse	
Please input encryption password if y	ou have set to this backup job	
		Previous

✓ Restore process is on-going.

# ✓ The progress page will automatically close after the process is done.

Protect - Restore	
Progress	
	Job Name : Fullbackup Target Path : Restore
	Progress
	16.67%

 $\checkmark$  Check the previously defined target folder to find the restored files.

rganize 🔻 🛛 New folder			U Shred File	= • 🔟 🔞
Documents	Name	Date modified	Туре	Size
Music	<b>5.02</b>	2015/5/8 下午 06:05	File folder	
New Library	🌗 download	2015/5/13 下午 01:	File folder	
Pictures	退 Dropbox	2015/5/12下午 04:	File folder	
	🎳 firmware	2015/5/9 上午 02:07	File folder	
Local Disk (C:) E Local Disk (D:) CD Drive (E:) Worrr				
<ul> <li>Local Disk (C:)</li> <li>Local Disk (D:)</li> <li>CD Drive (E:) Worm</li> <li>DHBU_Data (\\10.2</li> <li>Network</li> <li>10.251 40.40</li> </ul>				
Local Disk (C:) Local Disk (D:) CD Drive (E:) Worrr DHBU_Data (\\10.2 Network 10.251.40.41				

# 11. Syslog Server

Syslog is a widely used method for message logging, and the more complex part comes in with what is logged. Syslog messages often contain important details about the health of a computer system, such as when a hard drive fills up, when someone logs in, when an application crashes, etc. Because of this, monitoring the messages in syslog files is an important part of managing a system.

One of the biggest challenges with Syslog is the volume of data generated; therefore, the Syslog Server is a great way to store logs from multiple sources into a single location.

# 11.1 Configuring Syslog Server on the NAS

#### STEPS

- ✓ Click **Applications > Syslog Server** to configure a Syslog server.
- ✓ Check Enable Syslog Server.

Applications - Syslog Server			
Syslog Server			
Enable Syslog Server			
	 Apply	Reset	

In the page that opens, users can set up the Log Location (Shares and Path), Purge Policy and Log Format. Click Apply when done.

Applic	cations - Syslog Server	
Sysl	og Server	
	Enable Syslog Server	
€	Log Location Shares Path	Path does not exist. Syslog
⊜	Purge Policy Carlot Enable Purge Policy Log Deletion Interval	6 Month(s)
۲	Log Format Simple ( Date <tab> Host <tab> M Full ( Date <tab> Host <tab> Progr Customize <tab>: The tab separator</tab></tab></tab></tab></tab>	essage ) ram <mark><tab></tab></mark> Tag <mark><tab></tab></mark> Facility <mark><tab></tab></mark> Level <mark><tab></tab></mark> Message )
		Apply Reset

# 11.2 Example of How Syslog Server Works

#### STEPS

 Enable the client's log settings and set up the server IP address to that of the NAS.

Syslog Server		Email Setting         Report Setting         Syslog Server Setting								
Syslog Server Configuration										
Enable Syslo Server Addro Please select w	og Server ess 10.251. hich log cat	.40.41 tegorie	es vou wis	h to include	in the log	report.				
^ _	All Logs	User	<u>Shares</u>	Services	System	Network	Storage	Applications	Backup	Auto Upload
Syslog										

✓ Users can check the log file(s) on the NAS via clicking View Files.

Appli	cations - Syslog Server	
Sys	log Server	
~	Enable Syslog Server	
⊜	Log Location Shares	View Files  Syslog
	Path	/ Browse
⊜	Purge Policy           Enable Purge Policy	
	Log Deletion Interval	6 Month(s)
0	Log Format	Message )
	<ul> <li>Full ( Date <tab> Host <tab> Pro</tab></tab></li> <li>Customize</li> </ul>	gram <mark><tab></tab></mark> Tag <mark><tab></tab></mark> Facility <mark><tab></tab></mark> Level <mark><tab></tab></mark> Message )
	<tab>: The tab separator</tab>	
		Apply Reset

Share Browsing	ierver (1996)			
Create Folder Upload	Rename Delete Move	Сору		
Type	9	Name	Size	Modified Date
201505	i populari populari Recepción de la companya			2015-05-14 13:56:13

 $\checkmark~$  Users can then see the log file(s) and download it.

Share Browsing							
Create Folder Upload Rename C	Delete Move Copy						
<u>Typē</u>	Name	Size	Modified Date				
10.251.40.40         20150514.txt		197.00 Bytes	2015-05-14 13:56:16				

 Open the log file. The log can be viewed in the format that the user has set up.



# 12. Help

Click on this to display the NAS's embedded help system screens.



DeskTop > Help

Web Help to easy understand for each screen.



# 12.1 FAQ

#### 1. What is RAID?

RAID stands for Redundant Array of Inexpensive Disks. It takes two or more hard disks achieve greater levels of performance, reliability and/or larger volume of data size.

#### 2. What kind of RAID is supported by the NAS520/NAS326?

NAS support JBOD, RAID0, RAID1.

#### 3. Which file system is supported by the ZyXEL NAS series?

Internal file system: EXT4 External file system: FAT32, EXT2, EXT3, EXT4 and NTFS.

#### 4. Which kind of multimedia server does the NAS support?

ZyXEL NAS series supports Logitech® Media Server, Twonky server, UPnP AV Server, and iTunes Server.

#### 5. Does the ZyXEL NAS series support a DLNA media server?

Yes. The ZyXEL NAS series supports a DLNA 1.5 compliant media server.

#### 6. What is the feature "Wake On LAN"?

You can turn on the ZyXEL NAS series through its wired Ethernet connection after enabling Wake On LAN. To use Wake On LAN from a computer on your LAN, install a program such as Wake On LAN EX or other Wake On LAN programs that supports sending magic packets. You can also use Wake On LAN from a remote location if the router in front of the ZyXEL NAS series that supports sending magic packets.

Maintenance - Power								
Power Management				<u>^</u>				
Turn off hard disk(s)	15	▼ minutes	C Enable Sleeping HDD LED Blinking					
Minimum UPS Capacity								
Minimum UPS Capacity	50 %							
<ul> <li>Note:</li> <li>This feature will not work now because there is no UPS control cable connected.</li> <li>The NAS automatically shuts down if the UPS's remaining charge gets down to this level.</li> </ul>								
Power On After Power Failure								
Keep Former Status     If the system was on when the power failed, it restarts automatically when the power is restored. If it was off, it stays off.								
<ul> <li>Always Power On The system restarts automatically when the power is restored.</li> </ul>								
<ul> <li>Always Power Off</li> <li>The system will not restart after power failure. You must press the power button manually to restart it.</li> </ul>								
Power On/Off Schedule								
Enable Power Control Schedule								
Wake On LAN Setting								
Enable Wake On LAN								
		Apply Reset		-				
Message Ready								

### 7. Which types of video file formats are supported by the ZyXEL NAS series?

ZyXEL NAS series supports the following video formats: MPEG-1/MPEG-2, MPEG-4, AVI, DivX, Motion JPEG, Quick Time Video, RealMedia, Ogg, Matroska, ASF, Windows Media Video and ISO. Subtitles are also supported by the NAS.

#### 8. Which types of audio file formats are supported by the NAS?

ZyXEL NAS series supports the following audio formats: MP3, Ogg Vorbis, RealMedia, WAVE, Windows Media Audio, Matroska, Monkeys Audio, MP1, MP4, PCM, LPCM, DTS, AC3, Free Lossless Audio Codec, Au, AAC, 3GPP, AIFF, RIFFbased MIDI and Playlist.

#### 9. Which types of image file formats are supported by the ZyXEL NAS series?

ZyXEL NAS series supports bitmap, JPEG, and PNG.

#### 10. Which types of web browsers are supported by the ZyXEL NAS series?

ZyXEL NAS series supports Internet Explorer 6.0 and later versions, and Firefox 2.00 and later versions. Currently, ZyXEL NAS series does not support the Safari web browser.