

Accessing FlashNAS ZFS

from the

Internet

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Product Models Covered by This Document

This document applies to the following product models:

- FlashNAS ZX2U12
- FlashNAS ZX3U16

For more information about compression, virtualization, snapshot, remote replication, ZFS, backup, storage, network-attached-storage, file-sharing and WORM (Write Once, Read Many), please visit www.winsys.com

FlashNAS ZFS Family of Unified Storage Systems

IT environments often feature multiple types of storage infrastructures to accommodate various types of data and achieve different service levels. The scattered boxes for DAS (Direct-Attached Storage), SAN (Storage Area Network) and NAS (Network-Attached Storage) configurations lead to poor utilization and complicated management.

FlashNAS ZFS simultaneously serves file and block-based applications with a unified storage platform, and features easy management, optimized resource utilization, high availability, flexible scalability and competitive price/performance. In addition, FlashNAS ZFS offers a comprehensive set of advanced software features at no additional costs. FlashNAS ZFS systems help businesses effectively meet diverse and changing data demand while staying within budget.



FlashNAS ZFS

Accessing data from anywhere, anytime is the norm for ever-changing business environments. FlashNAS ZFS allows users to access data directly from the Internet. The direct Internet access provides access to data when users are in an environment with Internet connection but without sophisticated network infrastructure: airport lounges, hotels, and even their homes.

No software installation or network infrastructure configuration is required on the client's side; a web browser is all that's necessary. Users can upload and download files using a GUI interface similar to major file management applications such as Windows Explorer.

Setting up port forwarding is required to allow accessing the FlashNAS ZFS from the Internet side; in general, corporate Intranet is protected by firewall, preventing direct access from WAN. The following steps describe how to configure FlashNAS ZFS to access data through the Internet (HTTP/HTTPS protocol).

Step 1: Preparing the environment

Make sure the devices meet the following requirements:

- Router: Capable of port forwarding
- FlashNAS ZFS: At least one virtual pool created, available static IP address (contact the system administrator to obtain one)

Step 2: Assigning a static IP address to FlashNAS ZFS

(If a static IP address has already been assigned, go to Step 3).

In the FlashNAS ZFS GUI, go to the *Configuration > Network > Basic Settings* menu and highlight the LAN interface.

WINCHESTERSYSTEMS* Purpose-Built Storage					O Alert	Short	icut F	Explorer	Home
Configuration Network Basic Settings							Welcome admi	n 👌 Logout	💽 Links 🔻
Status Gonfiguration Bervice	Basic Set	tings				_	_	_	?
⊞ System □	Enable and co	infigure the LAN interfaces: Inte	rnet protocol (IPV4 or IPV6),	IP address, subnet mask, and MAC	address.				
Co Basic Settings	Interface	IP Address	Netmask	Gateway	Configu	Speed	Status	Protocol	Action
DNS	Mgmt1	(A - P) 192.168.150.95 (B - S) 192.168.150.96	255.255.255.0 255.255.255.0	192.168.150.254 192.168.150.254	DHCP DHCP	1000M 1000M	UP UP	IPv4	Q
Routing	CH0	(A) 0.0.0.0 (B) 0.0.0.0	255.0.0.0 255.0.0.0		DHCP DHCP	OM OM	DOWN DOWN	IPv4	Q
🐹 Jumbo Frame	CH1	(A) 0.0.0.0 (B) 0.0.0.0	255.0.0.0 255.0.0.0	-	DHCP DHCP	0M 0M	DOWN DOWN	IPv4	Q
Peripheral Antification	CH2	(A) 192.168.150.80 (B) 192.168.150.117	255.255.255.0 255.255.255.0	192.168.150.254 192.168.150.254	DHCP DHCP	1000M 1000M	UP UP	IPv4	Q
	СНЗ	(A) 192.168.150.74 (B) 192.168.150.118	255.255.255.0 255.255.255.0	192.168.150.254 192.168.150.254	DHCP DHCP	1000M 1000M	UP UP	IPv4	Φ
🗉 🍉 Folder									
🗉 🍓 Account									Edit
🗄 🧾 Backup									
E 💥 Maintenance									

Click the Edit button. Select Static as the IP address and enter the address

(contact the system administrator if necessary). Click the OK button to confirm.

Enable IPV6				
Enable IPV4				
- Controller - Prima	ry	Controller - Secon	dary	_
O DHCP		O DHCP		
Static IP Address	955	Static IP Addre	ess	
IP Address	192.168.0.12	IP Address	192.168.0.13	
Mask	255.255.255.0	Mask	255.255.255.0	
Gateway	192.168.0.254	Gateway	192.168.0.254	
MAC Address	00:21:3a:11:84:27	MAC Address	00:21:3a:19:84:27	

Step 3: Preparing a user account for Internet access

(If a user account already exists, go to step 4)

Go to the Account > Users menu and click the Add button.

WINCHESTERSYSTEMS Purpose-Built Storage							Alert	Content Conten	Explorer	fi Home
Account User								Welcom	e admin 🛛 🕹 Logout	🔒 Links 🔻
	User User Accounts Create user acc	counts for accessing shared	volumes or files with C Superuser ~	n unique userr Type 💌 Local	names and passv Group ~ Users	words. Configure Quota ~ none	their access rights: rear Description ~	d/write or read only		?
	Page 1 V	Total 1 Pages Total 1	User(s)				Add	Edit	Delete	Import

Enter the parameters.

Username	InternetAccess	
Password		
Re-enter Password		
Description		
Group	Users	
Home Directory	/Pool-1/UserHome/InternetAccess	Options

• Username/Password: Specifies the user account. Only alphanumeric

characters should be used.

- Group Name: (Optional) Specifies the group to which the new user account belongs.
- Home Directory: (Recommended) Creates a home directory for the new user.

Click the *Options* button to create a folder under this user account. Click *OK* to go back to the previous menu and click the *Next* button to continue.

Create Folder		×
Folder Name	InternetAccess	
🗖 Quota	Maximum 0 MB 🗸	
	Minimum 0 MB 🐱	
Deduplication	Compression	
Anti-Virus	Disable Transaction Log	
	OK Cancel	

Setup the access control for this user account and click OK.

	Share Folder	Read Only	Read/Write	Deny Access
•	WSI_ENG	0	۲	0

After the account has been created successfully, a window will pop out and notify the user.



Step 4: Setting up port forwarding on the router

Port forwarding enables one port number on the gateway exclusive use of communication with the FlashNAS ZFS.

Open the configuration tool for the router and add a new port forwarding setting as follows. For details, refer to its user manual.

- Protocol/Service: HTTP (Web server) or HTTPS (Secure web server)
- Port: 80 (HTTP) or 443 (HTTPS)
- IP address: The IP address configured in Step 2
- Account (if necessary): The user account configured in Step 3

Step 5: Accessing FlashNAS ZFS from the Internet

Enter the FlashNAS ZFS IP address into the browser and press the *Enter* key. Login to FlashNAS ZFS using the account created in Step 3.



Enter the shared volume and browse the folders and files

xer				Welcome	InternetAccess
olorer					
umer oldenrile Manageme	nt.				
J, delete, or upload files thro	ough this explorer window. Use the sidebar to	expand the volume/file hierarchy.			
FlashNAS	Pool-1/UserHome/InternetAc	tcess 🔛 📖		14	
E UserHome	Name	Size	Used	Туре	Last Update

To download or upload files, use the buttons at the bottom menu bar.

🕹 Download 🚹 Upload

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