WINCHESTERSYSTEMS®
Purpose-Built Storage

Accessing FlashNAS ZFS

from the

Internet

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Product Models Covered by This Document

This document applies to the following product models:

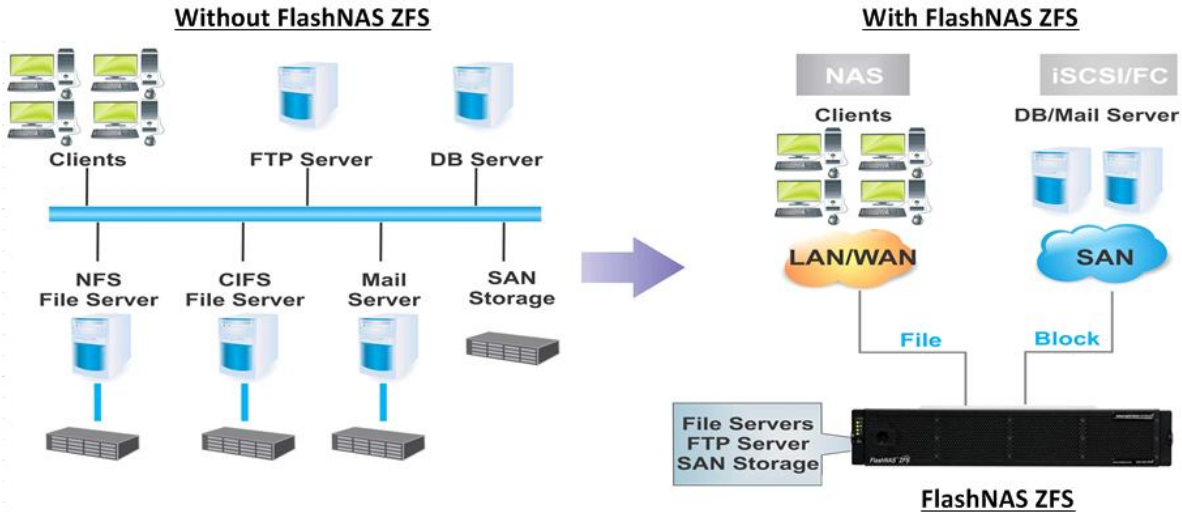
- **FlashNAS ZX2U12**
- **FlashNAS ZX3U16**

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.



Accessing FlashNAS ZFS from the Internet

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

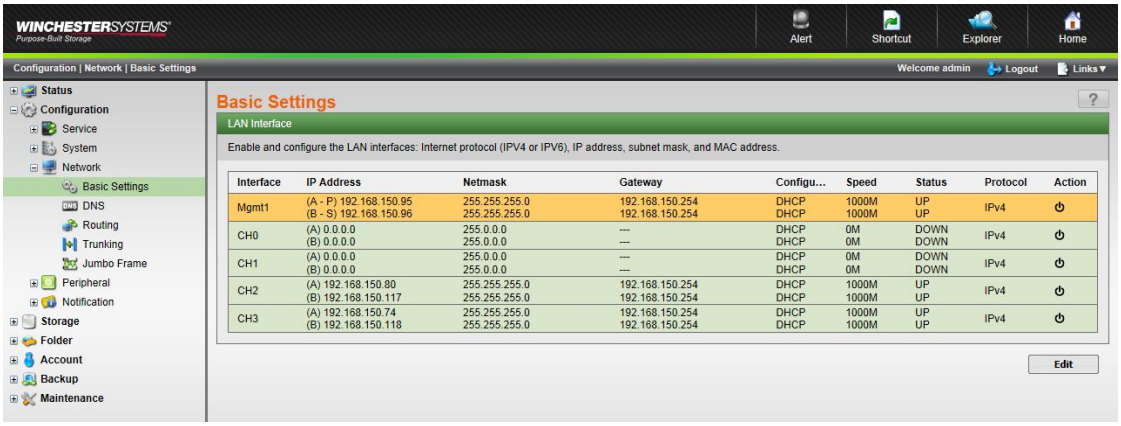
Make sure the devices meet the following requirements:

- 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

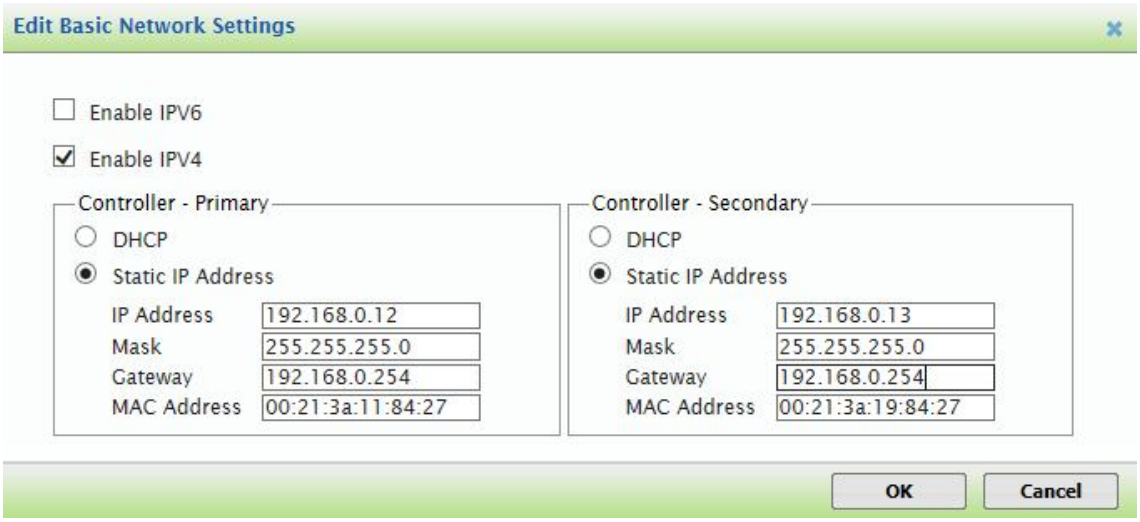
(If a static IP address has already been assigned, go to Step 3).

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



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

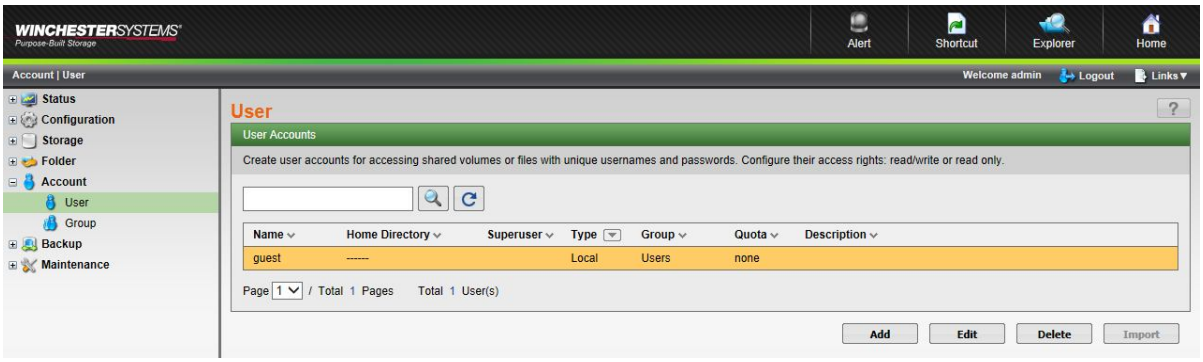
(contact the system administrator if necessary). Click the *OK* button to confirm.



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.



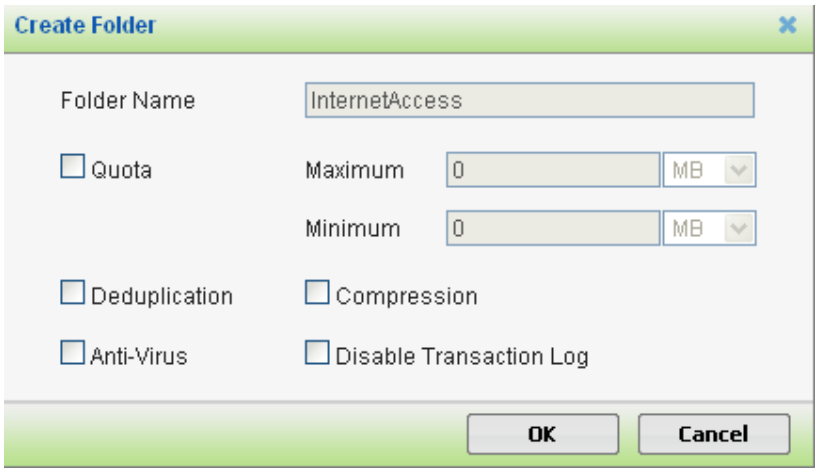
Enter the parameters.

- **Username/Password**: Specifies the user account. Only alphanumeric

characters should be used.

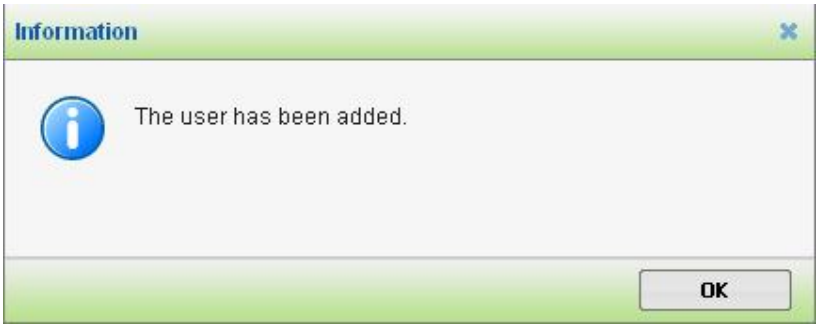
- **Group Name**: (Optional) Specifies the group to which the new user account belongs.
- **Home Directory**: (Recommended) Creates a home directory for the new user.

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.



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

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

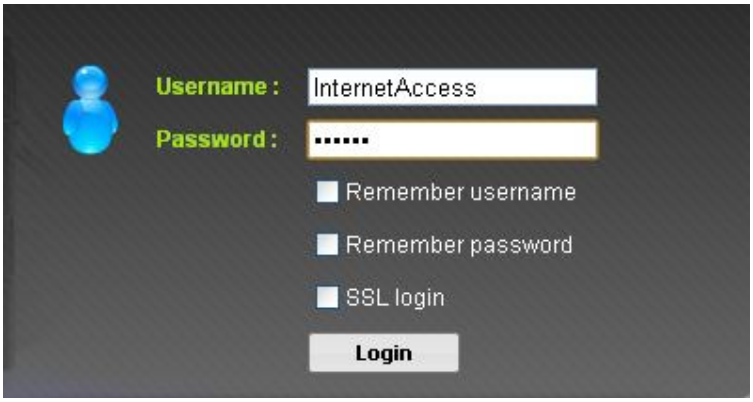
Port forwarding enables one port number on the gateway exclusive use of communication with the FlashNAS ZFS.

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

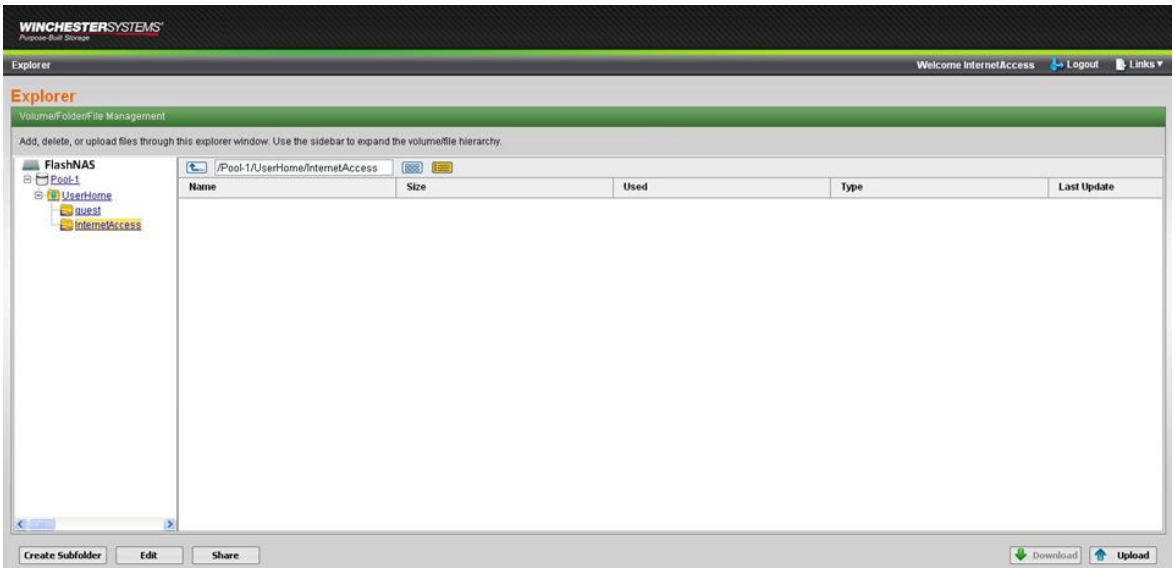
Step 5: Accessing FlashNAS ZFS from the Internet

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

Accessing FlashNAS ZFS from the Internet



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