

Introduction

This document is a brief instruction guide outlining the necessary steps required to set up a basic FreeNAS configuration on the SolidLogic A2000 NAS/Home Server System. For more information on the FreeNAS software platform, visit the FreeNAS Web site: <http://www.freenas.org>.

For more technical information, please contact a Logic Supply technical sales associate at 802 861 2300, option 1.

This document explains how to:

1. Configure a RAID Array
2. Enable File Sharing

For more advanced configurations, please visit the FreeNAS Web site.

Configure a RAID Array

All RAID configurations are done through a Web interface. To access this interface, type in the address 192.168.1.250 from within the local subnet. The default username is "admin" and password is "freenas" (this can be changed from the Web interface).

If the 192.168.1.250 address is inaccessible on your network, you must change it manually by connecting a monitor and keyboard directly to the system. You will see a text-based prompt with the following options:

1. Assign interface
2. Set LAN IP address
3. Reset WebGUI password
4. Reset to factory defaults
5. Ping host
6. Shell
7. Reboot system
8. Shutdown system

To change the server's IP address, enter number 2 and follow the prompts. If you use a DHCP server, you will need an IP address, subnet mask, and default gateway.

Step 1: Add Disks to FreeNAS

Navigate to Disks > Management (as shown in Image 1).

Click on the + (plus) sign at the bottom right to add a disk. This will open up the menu to show the available disks (as shown in Image 2).

Choose the first disk in the drop-down menu.

Click **Add** then click **Apply changes**.

Choose the second disk in the drop-down menu.

Click **Add** then click **Apply changes**.



Image 1

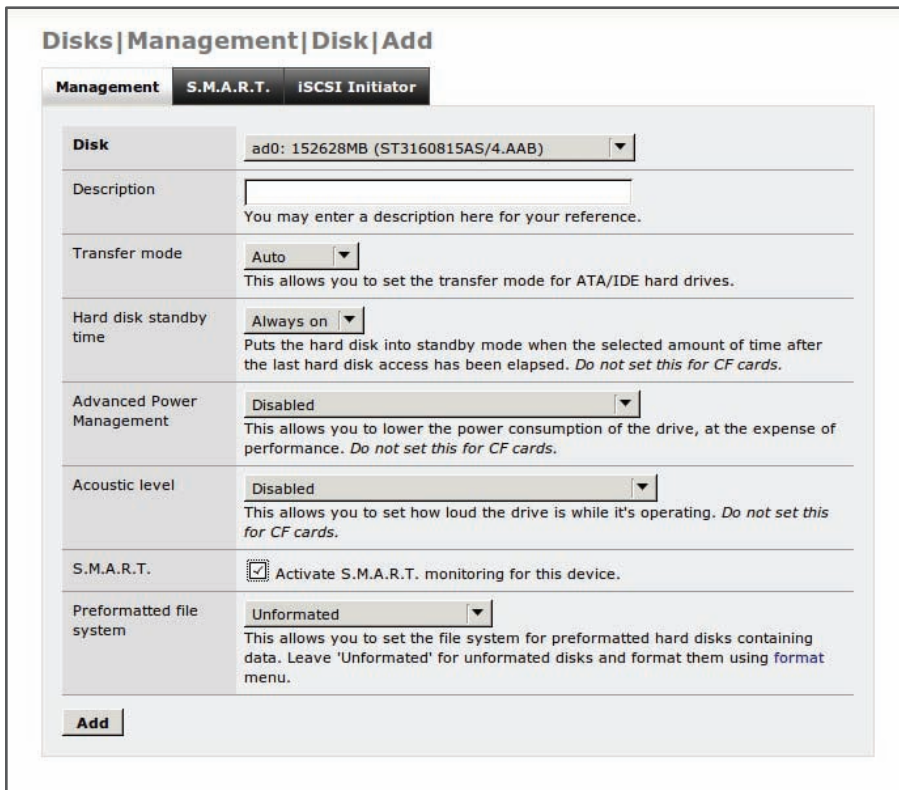


Image 2

Note: FreeNAS is installed on the 1 GB CompactFlash card. Do not select this card for your disk.

Step 2: Format Disks

Navigate to Disks > Format (as shown in Image 3).

Select the first disk shown and choose "Software RAID" as the File system (if not already selected).

Click **Format disk**.

Repeat above steps for formatting the second disk

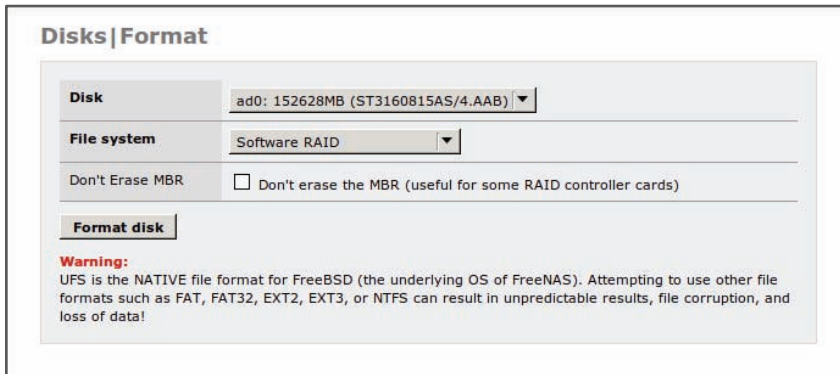


Image 3

Step 3: Add RAID Array

Navigate to Disks > Software RAID (as shown in Image 4).

Click on the + (plus) sign at the bottom right to add a RAID array.

Enter "RAID" for "Raid name."

Select both disks as the providers.

Check box to **Create and initialize RAID**, click **Add**, then click **Apply changes**.

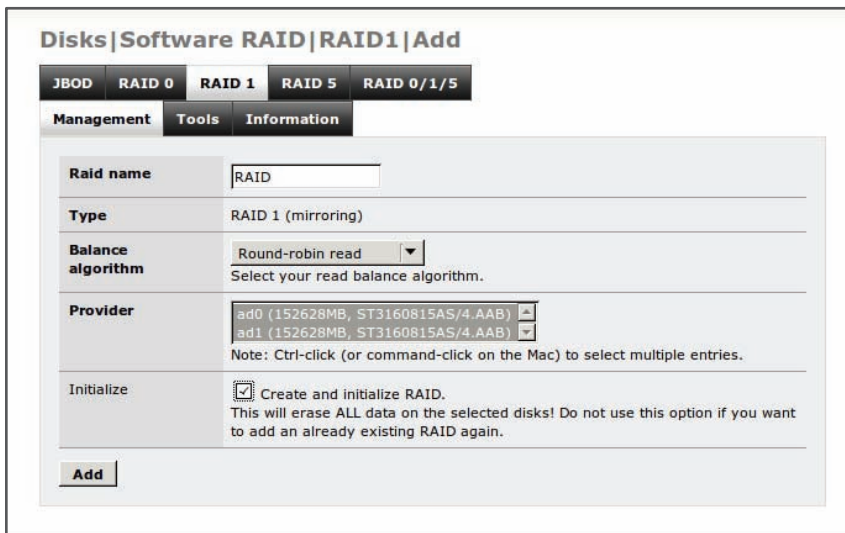


Image 4

Step 4: Format RAID array

Navigate to Disks > Format (as shown in Image 5).

Select "RAID" as the disk.

Select "UFS" as the file system.

Click **Format disk**.

Disks | Format

Disk	RAID: 152628MB (Software gmirror RAID 1) ▼
File system	UFS (GPT and Soft Updates) ▼
Volume label	<input type="text"/> Volume label of the new file system.
Minimum free space	8 ▼ Specify the percentage of space held back from normal users. Note that lowering the threshold can adversely affect performance and auto-defragmentation.
Don't Erase MBR	<input type="checkbox"/> Don't erase the MBR (useful for some RAID controller cards)

Format disk

Warning:
UFS is the NATIVE file format for FreeBSD (the underlying OS of FreeNAS). Attempting to use other file formats such as FAT, FAT32, EXT2, EXT3, or NTFS can result in unpredictable results, file corruption, and loss of data!

Image 5

Step 5: Mount RAID array

Navigate to Disks > Mount Point (as shown in Image 6).

Click on the + (plus) sign at the bottom right.

Choose "RAID" as the disk.

Choose "EFI GPT" for the Partition.

Choose "UFS" for the File system.

Enter "FreeNAS" for the Share name.

Click **Add**, then click **Apply changes**.

Disks | Mount Point | Add

Management Tools Fdisk

Settings

Type: Disk

Disk: RAID: 152628MB (Software gmirror RAID 1)

Partition: EFI GPT

EFI GPT if you want to mount a GPT formatted drive (**default partition since 0.684b**).

1* first MBR partition, for UFS formatted drive or Software RAID volume (**created before 0.684b**).

2* second MBR partition (**DATA partition**) if you select option 2 during installation on hard drive (**all versions**).

3*,4* third or fourth primary MRB partition.

5*,6* first or second logical MBR partition on extended partition.

CD/DVD or Old software RAID for old SoftwareRAID volumes (**created before version 0.68**) or CD/DVD.

* for disks imported/formatted under a different OS (Windows, Linux, MAC, etc.) that use MBR partition table.

File system: UFS

Share name: FreeNAS

Description:
You may enter a description here for your reference.

Read only: Mount the file system read-only (even the super-user may not write it).

File system check: Enable foreground/background file system consistency check during boot process.

Image 6

Enable File Sharing

Step 1: Enable the CIFS service

Navigate to Services > CIFS/SMB (as shown in Image 7).

Check box labeled "Enabled."

Click **Save and Restart**.

The screenshot shows the 'Services | CIFS/SMB | Settings' page. At the top, there are two tabs: 'Settings' and 'Shares'. Below the tabs is a section titled 'Common Internet File System' with an 'Enable' checkbox that is checked. The settings are as follows:

Field	Value
Authentication	Anonymous
NetBIOS name	freenas
Workgroup	WORKGROUP
Description	FreeNAS Server
Dos charset	CP437
Unix charset	UTF-8
Log Level	Minimum
Local Master Browser	Yes
Time server	Yes

Image 7

Step 2: Add a CIFS Share

Navigate to Services > CIFS/SMB > Shares (as shown in Image 8).

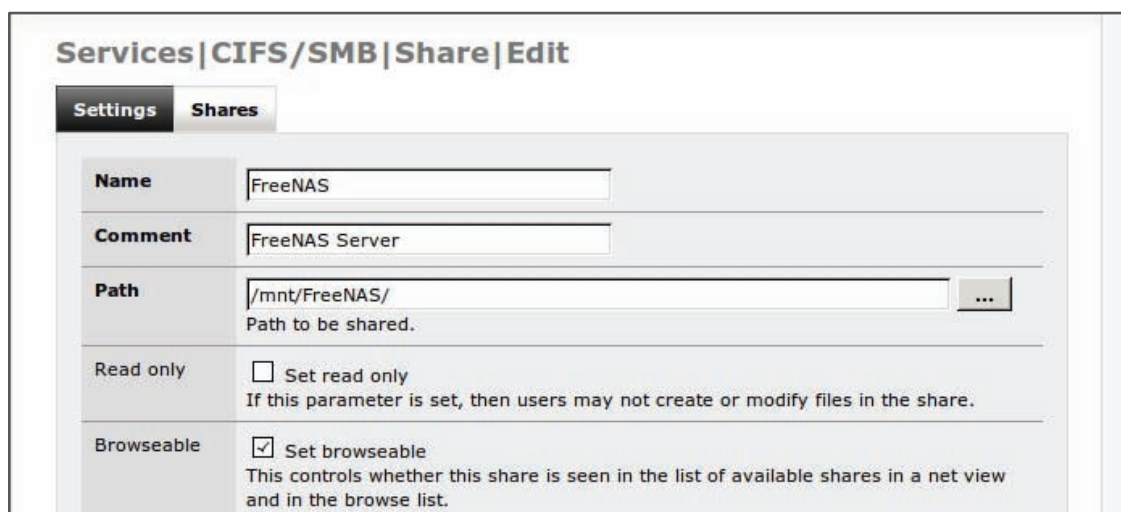
Click on the + (plus) sign at the bottom right.

Enter "FreeNAS" for the name.

Enter "FreeNAS Server" for the comment.

Enter "/mnt/FreeNAS/" for the path.

Click **Add**, then **Apply settings**.



The screenshot shows the 'Services | CIFS/SMB | Share | Edit' interface. It features a 'Settings' tab and a 'Shares' tab. The 'Shares' tab is active, displaying a form with the following fields and options:

Name	<input type="text" value="FreeNAS"/>
Comment	<input type="text" value="FreeNAS Server"/>
Path	<input type="text" value="/mnt/FreeNAS/"/> ... Path to be shared.
Read only	<input type="checkbox"/> Set read only If this parameter is set, then users may not create or modify files in the share.
Browseable	<input checked="" type="checkbox"/> Set browseable This controls whether this share is seen in the list of available shares in a net view and in the browse list.

Image 8

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