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# Fester's Very Basic One User/One Dataset Experimental Starter Share

Fester is still learning about shares and in particular share permissions.

As Fester learns more I will try to pass on what I have learned by adding to this section and creating additional guides for more “real world” share scenarios (if time permits).

This particular share will not be much use to most people, but it will get you going.

Don't forget the official FreeNAS guide has lots of information on shares. But for now, this will be a very basic share on a FreeNAS system and is designed to get you started so you can experiment with shares.

## Share Scenario

This share is designed for one user who wants to access the same share from different client machines.

The client machines will mostly be running Windows (or Mac OS X).

It will utilise one dataset and show you how to share it.

It is designed to get you started with shares so that you can experiment.

## Share Creation and Configuration

Go to the “Accounts” page (1) and click the “Add Group” button (2).

Group ID	Group Name	Built-in Group
0	wheel	true
1	daemon	true
2	kmem	true
3	sys	true
4	tty	true
5	operator	true
6	mail	true

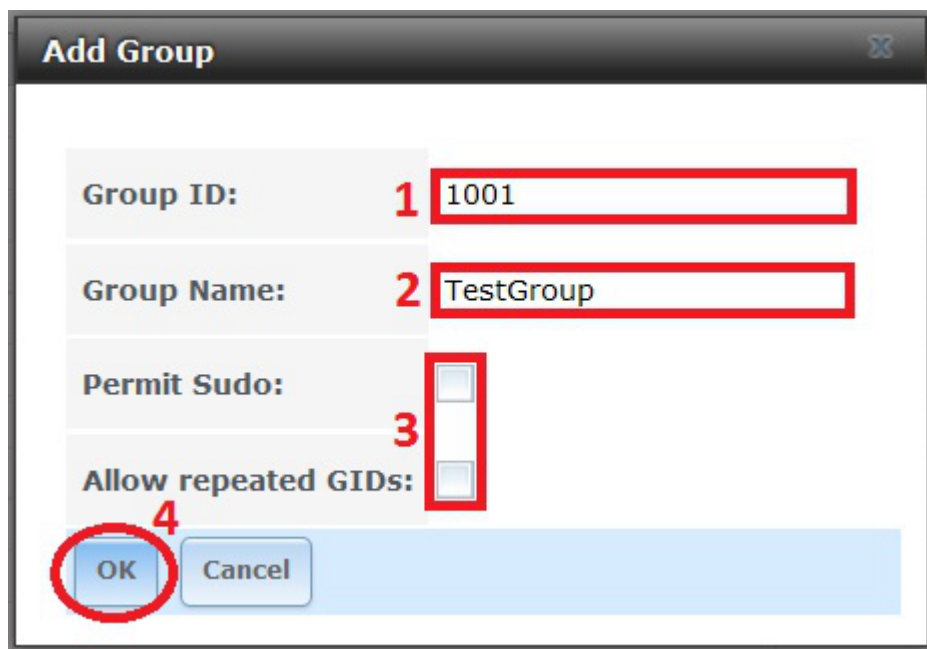
A new smaller window will pop up. Here we can create a new Group.

Leave the “Group ID:” at its default value of **1001** (1).

Now type in a name for the new group in the “Group Name:” text box (2) (because this is a starter share from which you can experiment, Fester used **TestGroup**).

Do not tick the “Permit Sudo:” or “Allow repeated GIDs:” tick boxes (3).

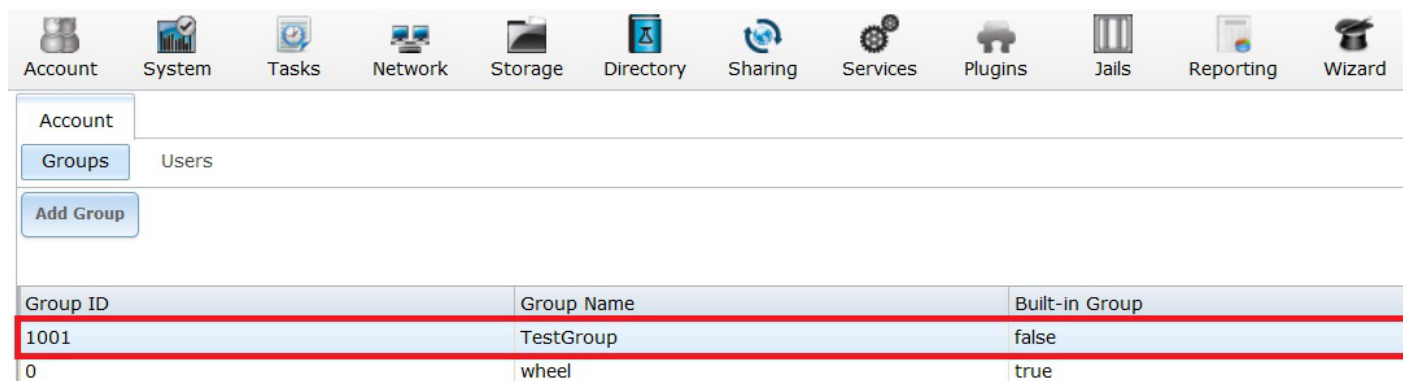
Now click the “OK” button (4).



The screenshot shows a dialog box titled "Add Group" with the following fields and controls:

- Group ID:** 1 1001
- Group Name:** 2 TestGroup
- Permit Sudo:** 3
- Allow repeated GIDs:** 3
- Buttons:** 4 OK (circled in red), Cancel

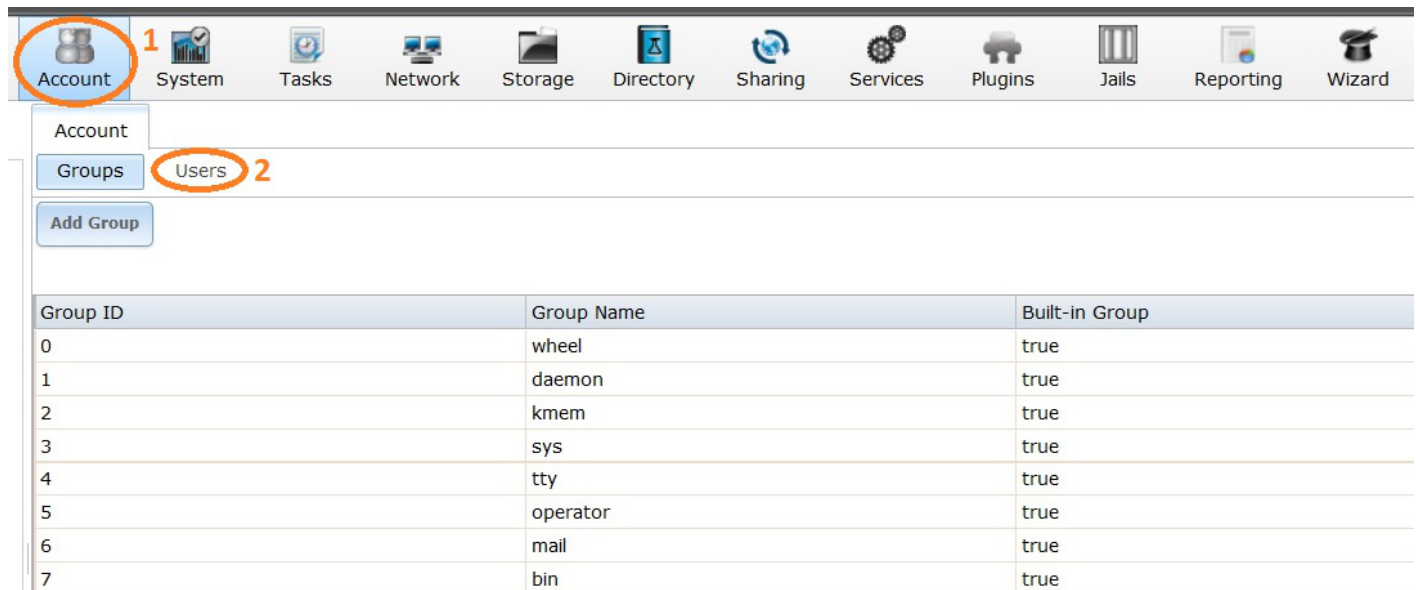
If all goes well an entry should appear in the Account → Groups page. You should see something like this.



The screenshot shows the "Account" page with the "Groups" tab selected. The "Add Group" button is visible. Below is a table of groups:

Group ID	Group Name	Built-in Group
1001	TestGroup	false
0	wheel	true

Now go to the “Accounts” page (1) and click the “Users” button (2).



Group ID	Group Name	Built-in Group
0	wheel	true
1	daemon	true
2	kmem	true
3	sys	true
4	tty	true
5	operator	true
6	mail	true
7	bin	true

A new window will pop up. Here we can create a new User.

Leave the "User ID:" at its default value of **1001** (1).

Now type in a name for the new user in the "Username:" text box (2) (because this is a starter share from which you can experiment, Fester used **TestUser**).

Untick the "Create a new primary group for the user:" tick box (3).

The "Primary Group:" drop down selection box (4) should now become active. The group we created earlier (i.e. TestGroup) should be available for selection.

Leave the "Create Home Directory In:" text box at the default **/nonexistent** (5).

Leave "Shell:" at its default setting (6).

Type in a name for the new user (7) (Fester chose **Test User**).

Create a password in the "Password:" text box and confirm it by retying it in the "Password Confirmation:" text box (8) (because this is a starter share to experiment with Fester just used **test**. Make sure you use a stronger and less predictable password when you create your real/final share/s).

Now scroll down.

**Add User**

User ID: 1 1001

Username: 2 TestUser

Create a new primary group for the user: 3

Primary Group: 4 TestGroup

Create Home Directory In: 5 /nonexistent

Shell: 6 csh

Full Name: 7 Test User

E-mail:

Password: 8

Password confirmation:

Disable password login:

Do not tick the "Disable password login:" you will lock yourself out of the share.

Leave the "Lock user:" and "Permit Sudo:" at their default settings of unticked (9).

Fester will be accessing this account from a windows machine so I tick the "Microsoft Account:" tick box (10).

Now click the "OK" button (11).

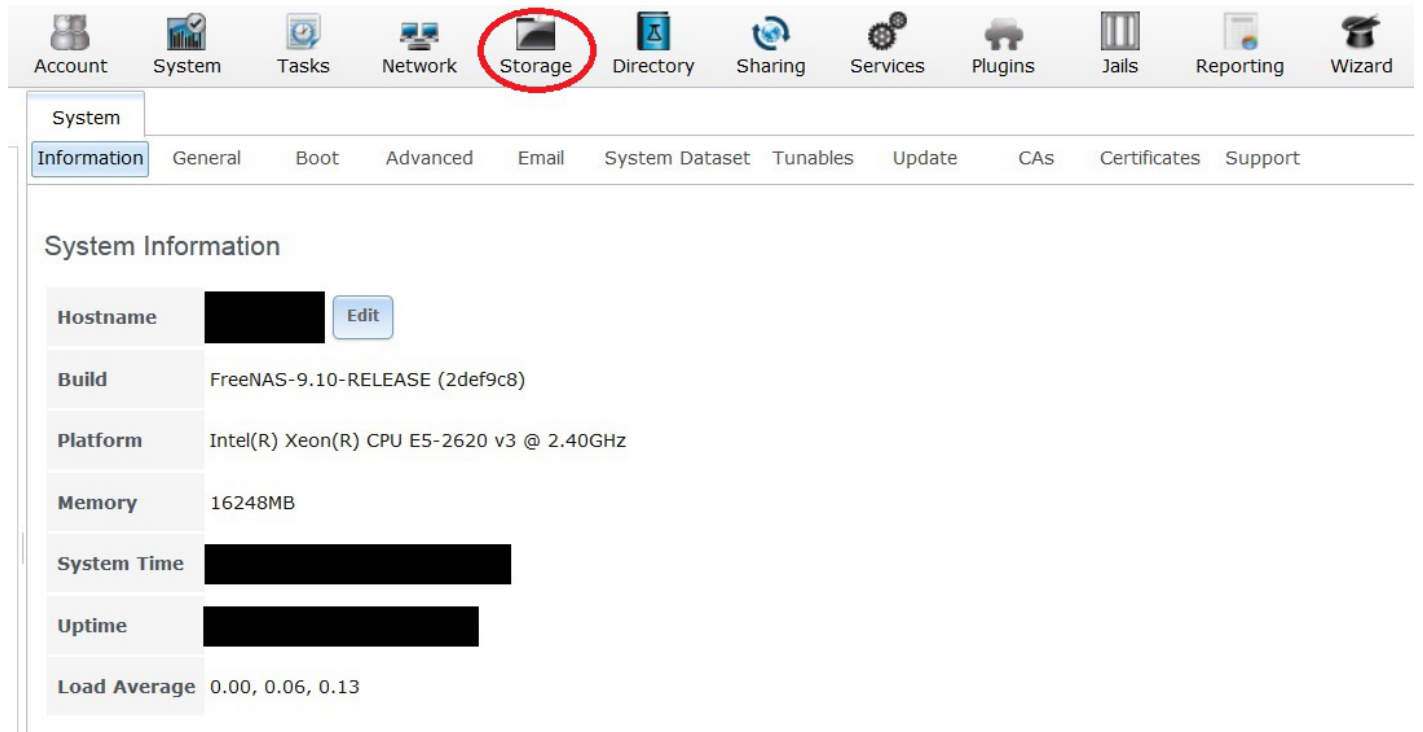
The screenshot shows a user configuration form with the following fields and annotations:

- E-mail:** Text input field.
- Password:** Password input field with masked characters (dots).
- Password confirmation:** Password input field with masked characters (dots) and an information icon (i).
- Disable password login:** Checkable field with an information icon (i).
- Lock user:** Checkable field with a red '9' annotation.
- Permit Sudo:** Checkable field.
- Microsoft Account:** Checkable field with a red '10' annotation and a checked checkbox.
- SSH Public Key:** Large text input field.
- Auxiliary groups:** Group selection interface with an 'Available' list (TestGroup, \_dhcp, \_pflogd, audit, authpf, avahi) and an empty 'Selected' list.

At the bottom of the form, there are three buttons: **OK** (circled in red with a red '11' annotation), **Cancel**, and **Advanced Mode**.

Now we need to create the dataset.

Go to the "Storage" page.



The screenshot shows the FreeNAS web interface. At the top, there is a navigation bar with icons for Account, System, Tasks, Network, Storage, Directory, Sharing, Services, Plugins, Jails, Reporting, and Wizard. The 'Storage' icon is circled in red. Below this is a sub-menu for 'System' with tabs for Information, General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The 'Information' tab is selected, displaying 'System Information' with the following details:

Hostname	[REDACTED]	<a href="#">Edit</a>
Build	FreeNAS-9.10-RELEASE (2def9c8)	
Platform	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	
Memory	16248MB	
System Time	[REDACTED]	
Uptime	[REDACTED]	
Load Average	0.00, 0.06, 0.13	

Select "Tank1" or whatever you called the volume (1) by clicking on it (it should turn blue when selected).

A series of buttons should appear on the bottom of the screen.

From these buttons click on the one that creates a dataset (2).



The screenshot shows a web interface for storage management. At the top, there are tabs for 'Storage', 'Volumes', 'Periodic Snapshot Tasks', 'Replication Tasks', 'Scrubs', 'Snapshots', and 'VMware-Snapshot'. Below these are buttons for 'Volume Manager', 'Import Disk', 'Import Volume', and 'View Disks'. A table displays storage volumes:

Name	Used	Available
▲ Tank1	443.0 MiB (0%)	29.0 TiB
▲ Tank1	312.0 MiB (0%)	20.0 TiB
jails	204.8 KiB (0%)	20.0 TiB

At the bottom, there is a toolbar with several icons. A red circle highlights the 'Create Dataset' icon, and a callout box with the number '2' points to it.

A new smaller window will pop up for creating the dataset.

In the "Dataset Name:" text box (1) give the share a name (because this is a starter share from which you can experiment, Fester used **TestShare**).

Leave the "Compression level:" drop down selection box (2) set to lz4.

Set the "Share type:" to whatever suits the type of clients on your network (Fester has mainly Windows machines so I set this to **Windows**).

Leave the "Case Sensitivity:" drop down selection box and "Enable atime:" at their default settings as shown (4).

“ZFS Deduplication:” should be set to **off** in the drop down selection box (5) unless you understand this and you have plenty of memory.

Now click the “Add Dataset” button (6).

Create ZFS dataset in Tank1

Dataset Name: 1 TestShare

Compression level: 2 Inherit (lz4)

Share type: 3 Windows

Case Sensitivity: Sensitive

Enable atime: 4

- Inherit (on)
- On
- Off

ZFS Deduplication: 5 Inherit (off)

Enabling dedup may have drastic performance implications, as well as impact your ability to access your data. Consider using compression instead.

6 Add Dataset Cancel Advanced Mode

The dataset will now be created and you should see something like this.

Name	Used	Available	Compression
▲ Tank1	443.7 MiB (0%)	29.0 TiB	-
▲ Tank1	312.3 MiB (0%)	20.0 TiB	lz4
TestShare	204.8 KiB (0%)	20.0 TiB	inherit (lz4)
jails	204.8 KiB (0%)	20.0 TiB	inherit (lz4)

Remain on this screen and select the newly created dataset (1) if it is not selected already (in Fester’s case this was TestShare).

Now click on the change permissions button (2).

The screenshot shows the 'Storage' section of the FreeNAS interface, specifically the 'Volumes' tab. A table lists storage volumes with columns for Name, Used, Available, and Compression. The 'TestShare' row is highlighted with a red border. A red '1' is placed next to the 'Tank1' entry in the table. Below the table, a toolbar contains several icons, with the first icon (a key) circled in red and labeled with a red '2' and a 'Change Permissions' tooltip.

Name	Used	Available	Compression
▲ Tank1	443.7 MiB (0%)	29.0 TiB	-
▲ Tank1	312.3 MiB (0%)	20.0 TiB	lz4
TestShare	204.8 KiB (0%)	20.0 TiB	inherit (lz4)
jails	204.8 KiB (0%)	20.0 TiB	inherit (lz4)

A new window will pop up for changing the permissions of the new dataset.

Leave the "Apply Owner (user):" tick box (1) at its default setting (with a tick).

In the "Owner (user):" drop down selection box (2) select the new user you created a moment ago (in Fester's case this was TestUser).

Leave the "Apply Owner (group):" tick box (3) at its default setting (with a tick).

In the "Owner (group):" drop down selection box (4) select the new group you created a moment ago (in Fester's case this was TestGroup).

Leave the "Apply Mode:" tick box (5) at its default setting (with a tick).

If you have chosen "Windows" as the Permission Type then the "Mode:" tick boxes (6) will be greyed out so you can not alter them. FreeNAS will prevent you from making alterations here and is correct to do so. This is because if you did you could break the share.

Set the "Permission Type:" radio button (7) to match the clients on your network (Fester has mostly Windows machines so I set this to **Windows**).

Put a tick in the "Set permission recursively:" tick box (8).

Now click the "Change" button (9).

Change permission

Change permission on /mnt/Tank1/TestShare to:

Apply Owner (user): **1**

Owner (user): **2** TestUser

Apply Owner (group):  **3**

Owner (group): **4** TestGroup

Apply Mode: **5**

Mode: **6**

	Owner	Group	Other
Read	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Write	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Execute	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Permission Type: **7**

- Unix
- Mac
- Windows

Set permission recursively: **8**

**9**

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