Table of Contents

Fester's Very Basic One User/One Dataset Experimental Starter Share	
Share Scenario	1
Share Creation and Configuration	
User Creation	
Dataset Creation	
Share Creation	
CIFS/SMB Configuration	
Windows Client Configuration	
Enable CIFS/SMB Service	27
Mapping the share to a drive letter	27
Share Permissions	32
NTFS Permissions	33

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

User Creation

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

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Account 1 System	2 Tasks	Network	Storage	Directory	(interview) Sharing	Services	Plugins	Jails	Reporting	Wizard
Account										
Groups Users										
Add Group 2										
0 ID			0	N			D:Ib	in Carry		
			Group	Name				-in Group		
0			wheel				true	in Group		
0								-in Group		
0			wheel				true	in Group		
2			wheel daemo				true true	in Group		
0 1 2 3			wheel daemo kmem				true true true	in Group		
Group ID 0 1 2 3 4 5			wheel daemo kmem sys	n			true true true true	in Group		

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).

Add Group		8
Group ID:	1 1001	_
Group Name:	2 TestGroup	
Permit Sudo:		
Allow repeated	GIDs:	
OK Cancel		

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

Account	System	Tasks	Network	Storage	Directory	Constant Sharing	Services	Plugins) Jails	Reporting	8 Wizard
Account											
Groups	Users										
Add Group											
Group ID				Group	Name			Built	in Group		
1001				TestGr	oup			false			
0				wheel				true			

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

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3/33

Account System	D Tasks	Network	Storage	Directory	i Sharing	Services	Plugins	Jails	Reporting	T Wizard
Account										
Groups Users	2									
Add Group Group ID			Group	Name			Built	-in Group		
0			wheel	Hume			true			
1			daemo	n			true			
2			kmem				true			
3			sys				true			
4			tty				true			
5			operat	or			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 retyping 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.

A	dd 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 Browse	
	Shell:	6	csh 💌	
	Full Name:	7	Test User	
	E-mail:			
	Password:	8	••••	
	Password confirmation:	•	••••	
	Disable password login:			
	to all sugar			

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).

	E-mail:				
	Password:	••••			
	Password confirmation:	••••	٢		
	Disable password login:	i			
	Lock user:	9			
	Permit Sudo:				
	Microsoft Account:	10 🗹			
	SSH Public Key:				
	Auxiliary groups:	Available TestGroup	Selected		≡
		_dhcp _pflogd audit	>>		
	11	authpf avahi	-	-	
(OK Cancel Advanced Mode				
					*

Dataset Creation

Now we need to create the dataset.

Go to the "Storage" page.

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Count Syste		Network	Storage	Directory	Sharing	Services	Plugins	Jails	Reporting	Wizar
System										
nformation Ge	neral Boot	Advanced	Email	System Dat	aset Tunab	les Update	e CAs	Certifica	ates Support	
System Infor Hostname		dit								
Build	FreeNAS-9.10-R	ELEASE (2def	9c8)							
Platform	Intel(R) Xeon(R)	CPU E5-2620) v3 @ 2.40	GHz						
Memory	16248MB									
System Time										
Uptime										
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).

Storage			
Volumes	Periodic Snapshot Task	s Replication Tasks Scrubs S	Snapshots VMware-Snapshot
Volume Ma	nager Import Disk	Import Volume View Disks	
Name		Used	Available
⊿ Tank1	1	443.0 MiB (0%)	29.0 TiB
⊿ Tank1		312.0 MiB (0%)	20.0 TiB
jails		204.8 KiB (0%)	20.0 TiB
		e Dataset	

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 Iz4.

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 Dataset	X
Create ZFS dataset in Tai	nk1
Dataset Name:	1 TestShare
Compression level:	2 Inherit (Iz4)
Share type:	3 Windows -
Case Sensitivity:	Sensitive 💌
Enable atime:	 4 ● ③ Inherit (on) ● On ● Off
ZFS Deduplication:	Enabling dedup may have drastic performance implications, as well as impact your ability to access your data. Consider using compression instead.
Add Dataset Cancel	5 Inherit (off) Advanced Mode

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

Storage			
Volumes Periodic Snaps	not Tasks Replication Tasks Scru	bs Snapshots VMware-Snap	shot
Volume Manager Impor	t Disk Import Volume View Dis	ks	
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).

Import Volume View Disks Used 443.7 MiB (0%) 312.3 MiB (0%) 204.8 KiB (0%) 204.8 KiB (0%) 204.8 KiB (0%)	Available 29.0 TiB 20.0 TiB 20.0 TiB 20.0 TiB	Compression - lz4 inherit (lz4) inherit (lz4)
443.7 MiB (0%) 312.3 MiB (0%) 204.8 KiB (0%)	29.0 TIB 20.0 TIB 20.0 TIB	- Iz4 inherit (Iz4)
312.3 MiB (0%) 204.8 KiB (0%)	20.0 TiB 20.0 TiB	lz4 inherit (lz4)
204.8 KiB (0%)	20.0 TiB	inherit (lz4)
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).

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Now click the "Change" button (9).

Change permission	·····	-
Change permission on /m	nt/Tank1/TestShare to:	
Apply Owner (user)	• 1 🗹	
Owner (user):	2 TestUser	
Apply Owner (group	o): 🗹 3	
Owner (group):	4 TestGroup <	
Apply Mode:	5 🗹	
Mode:	Owner Group Other Read Write Execute	III
Permission Type:	 O Unix Mac Windows 	
Set permission recursively: 9	8	
Change Cancel		-

Share Creation

Now we need to create a CIFS share. On a network that utilises predominately Windows clients this is a good choice.

Go to the "Sharing" page.

	:38	11/33 Fester's Very Basic One User/One Dataset Experimental							erimental Sta	Starter Sha	
Account	System	D Tasks	Network	Storage	Directory S	(a) Sharing	Services	Plugins	Jails	Reporting	Wizar
System											
Information	General	Boot	Advanced	Email	System Dataset	Tunables	s Update	CAs	Certificate	s Support	
Hostname	e	E	dit								
Build Platform			ELEASE (2def CPU E5-2620		lGHz						
		R) Xeon(R)			lGHz						
Platform	Intel(R) Xeon(R)			lGHz						
Platform Memory	Intel(R) Xeon(R)			lGHz						

Now click the "Windows (CIFS)" button (1) and then click the "Add Windows (CIFS) Share" button (2).

Sharing		1	
Apple (AFP)	UNIX (NFS)	WebDAV Windows (CIFS) Blo	ck (iSCSI)
Add Window	vs (CIFS) Shar 2	re	
Path		Name	Comment
No entry has	been found		

A new smaller window will pop up.

In the "Path:" section click the "Browse" button.

Add Windows (CIFS) Share		ж
Path:	/mnt/Tank1/TestShare	wse
Use as home share:		
Name:	Fester's Test Share	
Apply Default Permissions:	i	
Allow Guest Access:	i	
OK Cancel Advanced M	Mode	

The window should now expand a little and allow you to navigate to the newly created dataset (1).

When you have it selected click the "Close" button (2).

13/33

A	dd Windows (CIFS) Shar	e 🕺	-
	Path:	/mnt/Tank1/TestShare Close 2 Close / Close / Close / Close / Close /	III
	Use as home share:		
	Name:	Fester's Test Share	
	Apply Default Permissions:		
		- @	-

The "Path:" text box (1) should now display the chosen dataset.

Do not tick the "Use as home share:" tick box (2) at the moment.

Give the share a name in the "Name:" text box (3).

Put a tick in the "Apply Default Permissions:" tick box (4) if a tick is not present.

Do not tick the "Allow Guest Access:" tick box (5).

Now click the "OK" button (6).

A	dd Windows (CIFS) Sł	are	X
	Path:	1 /mnt/Tank1/TestShare	Browse
	Use as home share:	2	
	Name:	3 Fester's Test Share	
	Apply Default Permissi	ions: 🗾 🛈 4	
	Allow Guest Access:	5 🗖 创	
(OK Cancel Adva	nced Mode	

If all goes well you will see the newly created CIFS share entry (1).

You will now be asked if you wish to enable the CIFS share service.

Click the "No" button (2).

Sharing Apple (AFP) UNIX (NFS) Add Windows (CIFS) Share	/ Windows (CIFS) Block (iSCSI)	
Path /mnt/Tank1/TestShare	Name 1	Comment	Export Read Only
/mnt/Tank1/TestShare		nable service 🕺	false
		Yes No 2	

CIFS/SMB Configuration

Now go to the "Services" page.

	}	15/33	_			Fester's V	ery Basic On	e User/One I	Dataset Exper	rimental Sta	arter Sha
	stem	0 Tasks	Network	Storage	Directory	Sharing	Services	Plugins	Jails F	Reporting	S Wizar
System											
Information	General	Boot	Advanced	Email	System Data	set Tunabl	es Update	CAs	Certificates	Support	
Hostname	a marte de		dit								
Build Platform	Intel(R) Xeon(R)	ELEASE (2def CPU E5-2620		OGHz						
	Intel(R) Xeon(R)			DGHz						
Platform Memory	Intel(R) Xeon(R)			OGHz						

Click on the little spanner next to the "CIFS" service (1).

A new window will pop up.

The NetBIOS name will already be present in the "NetBIOS Name:" text box (2).

In the "Workgroup" text box (3) type in the name of the workgroup you want to use on the client machines (Fester used **T ESTWORKGROUP** because it is an experimental starter share). If you don't know your Workgroup then skip to the relevant section on how to do this.

Type in a good name for the CIFS share in the "Description:" text box (4).

Do not alter the default values of the "DOS charset:", the "Unix charset:" and the "Log level:" (5).

Leave the "Use syslog only:" (6) at its default (no tick).

Make sure the "Local Master:" tick box (7) is ticked.

Leave "Domain logons:" (8) unticked.

Leave "Time Server for Domain:" (9) ticked.

Leave "Guest account:" (10) at **nobody**.

Last update: 2017/06/19 11:18	fester112:shares_basic https://www.familybrown.org/dokuwiki/doku.php?id=fester112:shares_basic&rev=1497871138
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Services		CIFS Settings		88
AFP	OFF 🔧			
CIFS		NetBIOS name:	2 TestNAS1	
Domain Controller	OFF 🔧	Workgroup:	3 TESTWORKGROUP	=
Dynamic DNS	OFF 🔧	Description:	4 Fester's Server Share	
FTP	OFF 🔧	DOS charset:	CP437 💌	
iSCSI	OFF 🔧	UNIX charset:	5 UTF-8 💌	
LLDP	OFF 🔧	Log level:	Minimum	- 1
NFS	OFF 🔧	Use syslog only:	6	- 1
Rsync	OFF 🔧	Local Master:	7 🗹	- 1
S.M.A.R.T.	N 🔍			
SNMP	OFF 🔍	Domain logons:	8	- 1
SSH C		Time Server for Domain:	9 🗷	
ТЕТР	OFF	Domain		
UPS	OFF	Guest account:	10 nobody	- 1
WebDAV	OFF			Ŧ

Do not put anything in the "File mask:" and "Directory mask:" text boxes (11) unless you really understand UNIX permissions (Fester can't help you here).

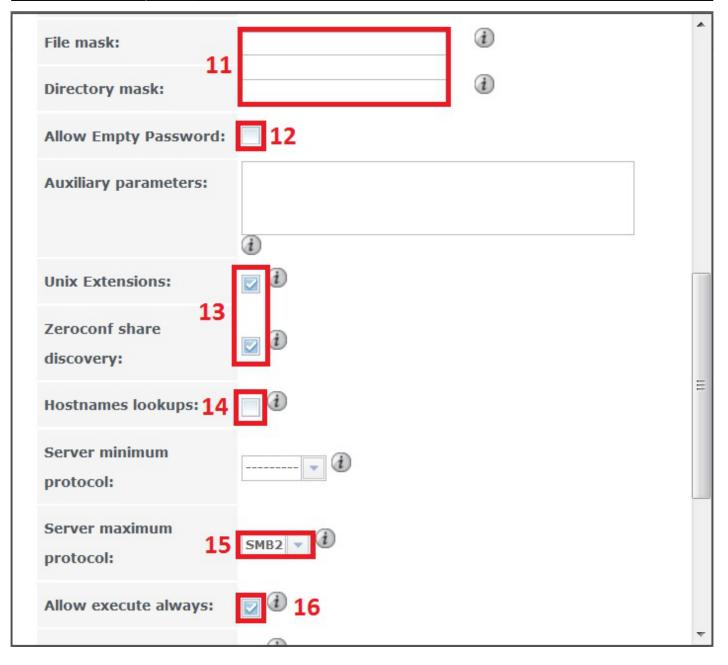
Do not tick the "Allow Empty Password:" tick box (12) as this weakens the security of the share.

Leave the "Unix Extensions:" and "Zeroconf share discovery:" tick boxes (13) as they are.

Untick the "Hostnames lookups:" tick box (14) otherwise you will keep getting a name mismatch error.

Set the "Server maximum protocol:" (15) to SMB2.

Leave the "Allow execute always:" tick box (16) in its default setting (with a tick).



Fester has no idea what the "Obey pam restrictions:" setting (17) actually does. I just leave it ticked, but I have no idea how it should be set.

Don't tick any of the IP address text boxes (18) in the "Bind IP Addresses:" section.

The "Idmap Range Low:" and "Idmap Range High:" settings (19) Fester does not touch as I don't know what they do.

Now click on the "OK" button (20).

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discovery:		•
Hostnames lookups:		
Server minimum protocol:		
Server maximum protocol:	SMB2 V	
Allow execute always:		
Obey pam restrictions:	2 17	
Bind IP Addresses: 18	 192.168.0.5 192.168.0.6 192.168.0.7 192.168.0.8 	
Idmap Range Low: 19	90,000,001	III
Idmap Range High:	100,000,000	
OK Cancel		•

<u>Do not turn on the CIFS share service yet</u>. We first need to check if the Workgroup on the Windows client is set correctly.

Windows Client Configuration

Click on the "Start" button and go into the "Control Panel" in Windows and select "System and Security" (this was on a Windows 7 machine).

Control Panel	✓ ✓ ✓ Search Control Panel
adjust your computer's settings	View by: Category -
System and Security Review your computer's status Back up your computer Find and fix problems Network and Internet	User Accounts and Family Safety Add or remove user accounts Set up parental controls for any user Appearance and Personalization Change the theme
View network status and tasks Choose homegroup and sharing options Hardware and Sound View devices and printers Add a device	Change desktop background Adjust screen resolution Clock, Language, and Region Change keyboards or other input methods
Connect to a projector Adjust commonly used mobility settings Programs Uninstall a program	Ease of Access Let Windows suggest settings Optimize visual display

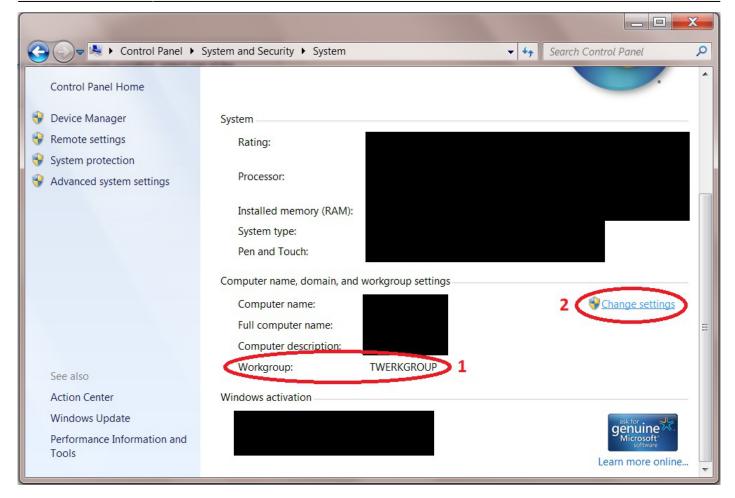
Now click on "System".

🚱 💭 🗢 🎨 🕨 Control Panel 🕨	System and Security
Control Panel Home System and Security Network and Internet Hardware and Sound Programs User Accounts and Family Safety Appearance and Personalization Clock, Language, and Region	 Action Center Review your computer's status and resolve issues Change User Account Control settings Troubleshoot common computer problems Restore your computer to an earlier time
Ease of Access	 Windows Update Turn automatic updating on or off Check for updates View installed updates Power Options Change battery settings Require a password when the computer wakes Change what the power buttons do Change when the computer sleeps
	Backup and Restore Back up your computer Restore files from backup
	Windows Anytime Upgrade Get more features with a new edition of Windows 7
	Administrative Tools Free up disk space Defragment your hard drive 😌 View event logs

In the "System" page we can see the Workgroup is set to **TWERKGROUP** (1). This must be changed to match the Workgroup name you created in the CIFS settings a moment ago (in Fester's case this was TESTWORKGROUP).

Click on "Change settings" blue text (2) to access the screen where we can change the Workgroup name.

You will probably be asked for the administrator's password at this point.



A smaller window will now pop up.

Click on the "Change" button.

ystem Properties				X
Computer Name	Hardware	Advanced	System Protection	Remote
	ows uses th etwork.	e following ir	nformation to identify	your computer on
Computer descri	iption:			
		For example Computer".	: "Kitchen Computer	" or "Mary's
Full computer na	me:			
Workgroup:		TWERKGR	OUP	
To use a wizard Network ID.	to join a doi	main or work	group, click	Network ID
To rename this o	computer, cl	ick Change.	(<u>C</u> hange
			DK Can	cel <u>A</u> pply

Another window will now pop up.

Change the text in the Workgroup text box (1) to the one you created in the CIFS settings page (in Fester's case this was **TESTWORKGROUP**) and click the "OK" button (2).

System Properties	X
Computer Name/Domain Changes	
You can change the name and workgroup membership of this computer. You cannot join a computer running Windows 7 Home Premium to a domain. <u>More information</u>	uter on
Computer name:	5
Full computer name: More	k ID
Member of	
O Domain:	ge
Workgroup: TESTWORKGROUP 1	
2 OK Cancel	
OK Cancel	Apply

Yet another window will pop up showing the Workgroup has now been changed.

Click the "OK" button.

	System Properties	X
powe		
	You can change the name and workgroup membership of this computer. You cannot join a computer running Windows 7 Home Premium to a domain. <u>More information</u>	uter on
Co	mputer Name/Domain Changes	3
	Welcome to the TESTWORKGROUP workgroup.	j ik ID ge
	Workgroup: TESTWORKGROUP	
	OK Cancel	
	OK Cancel	Apply

A message window will now appear telling you the changes will be implemented when the computer is restarted.

Click the "OK" button.

	System Properties	X
n a powe	Computer Name/Domain Changes	
Comp	uter Name/Domain Changes	uter on
	You must restart your computer to apply these changes Before restarting, save any open files and close all programs.	3 ik ID
	Member of Domain: Workgroup: TESTWORKGROUP OK Cancel	ge
	OK Cancel	Apply

As can be seen from the next screen shot the Workgroup has been changed to "TESTWORKGROUP" (1).

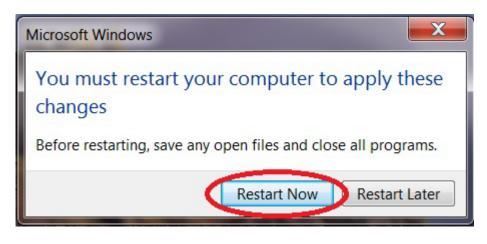
Click the "Close" button (2).

System Properties				×
Computer Name	Hardware	Advanced	System Protection	Remote
	lows uses th etwork.	e following ir	formation to identify	your computer on
Computer descr	iption:			
	6	For example Computer".	: "Kitchen Computer	" or "Mary's
Full computer na	ame:			
Workgroup:	1	TESTWOR	GROUP	
To use a wizard Network ID.	to join a doi	main or work	group, click	Network ID
To rename this o	computer, cl	ick Change.		<u>C</u> hange
🛕 Changes	will take effe	ct after you re	estart this computer.	
		2 CI	ose Can	cel <u>A</u> pply

The system will now ask to be restarted. This must be done before going any further.

Close any open windows, save and close any open programs, etc.

Now click on the "Restart Now" button.



That's the Windows Workgroup configured.

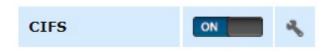
The client computer will now reboot, when it does log back into the FreeNAS GUI.

Enable CIFS/SMB Service

Now go to the "Services" page.

						-				
System										
nformation Ge	eneral Boot	Advanced	Email	System Datas	et Tunables	Update	CAs	Certificates	Support	
System Info	rmation									
	_									
Hostname	E	dit								
Build	FreeNAS-9.10-R	ELEASE (2def	9c8)							
1000000000										
Platform	Intel(R) Xeon(R)	CPU E5-2620	v3 @ 2.40	OGHZ						
Memory	16248MB									
including (102 10112									
System Time										
	_									
Uptime										
optine										

Turn on the CIFS share service.



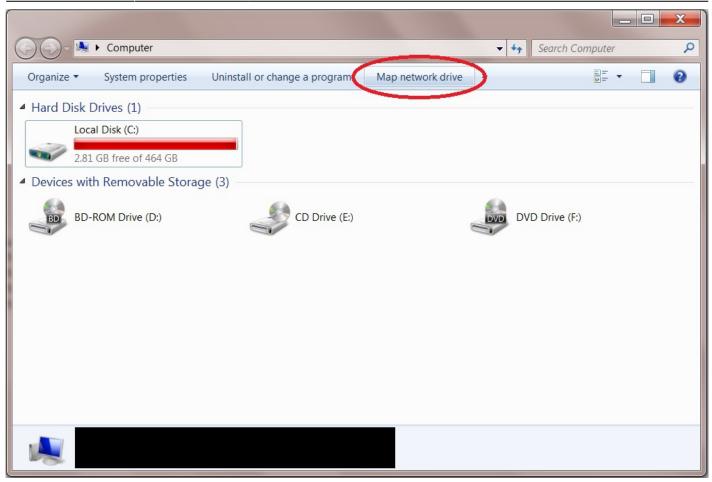
Give the server some time to get the share up and running, then it is time to map the network folder to a drive letter.

Mapping the share to a drive letter

On the Windows client click on the "Start" button and go into "Computer" (this was on a Windows 7 machine).

This should bring up a window that shows all the hard drives and any other devices connected to the Windows computer.

Click on the "Map Network Drive" button.



From the "Drive:" drop down selection box (1) chose the drive letter you wish to assign to the shared folder (Fester accepted the default **Z** letter).

Now click the "Browse..." button (2).

This will cause a window to pop up.

Navigate to the location of the shared folder by clicking on the server (in this case TestNAS1) (3) and then clicking on the shared folder itself (in this case Fester's TestShare) (4).

Now click the "OK" button (5).

The shared folder's path name should appear in the "Folder:" text box (6).

Tick the "Reconnect at logon" Tick box (7).

Now click the "Finish" button (8).

🕞 🧐 Map	Network Drive
	etwork folder would you like to map? e drive letter for the connection and the folder that you want to connect to: Z: 1 [X] TESTNAS1\Fester's Test Share
	8 Finish Cancel

	Browse For Folder
Map Netv	Select a shared network folder
What netwo	Network
Specify the driv	> 🕵
Drive: Z:	Fester's Test Share 4
Folder:	
Ex	
V	5
<u>Cc</u>	Make New Folder OK Cancel
	Finish Cancel

At this point another window will pop up and ask you for the username and password for the share.

The name of the server is shown next to the text at the top of the window (1).

Type in your username in the first text box (2) (in Fester's case this was **TestUser**).

Now type in your password in the second text box (3) (in Fester's case this was **test**).

If you don't want to type in your username and password exact time you log into your client machine then tick the "Remember my credentials" tick box (4).

Now click the "OK" button (5).

0.0-	Browse For Folder	<u> </u>
G Sr	Windows Security	
Wha Speci	Enter Network Password Enter your password to connect to TESTNAS1 1	
Drive Folde	TestUser 2 •••• Domain: Remember my credentials 4 S Access is denied.	
	OK Cancel	ancel
1	Finish	ancel

If all has gone well you should find yourself in the shared folder. Here you can create other folders and save files. Test this to make sure there are no permissions problems.

The shared folder will now appear as another drive on your system and should look something like this.

Computer >	
Organize Properties System properties Uninstall or change a program	Map network drive »
 Hard Disk Drives (1) Local Disk (C:) 2.81 GB free of 464 GB Devices with Removable Storage (3) 	
BD-ROM Drive (D:) CD Drive (E:)	DVD Drive (F:)
A Network Location (1) Fester's Test Share (\\TESTNAS1) (Z:) Here Is The Network	w Share.
Fester's Test Share (\\TESTNAS1) (Z:) Space used: Network Drive Space free: 19.9 TB	Total size: 19.9 TB File system: NTFS

That's the starter share done.

If you want to play with the permissions for this share then feel free. It is the only real way to learn about these things.

Remember the permissions for a share on Windows clients are in two parts.

Part one is the "Share" permissions and part two is "NTFS" permissions.

Share Permissions

"Share" permissions relate to the permissions of the actual shared folder on the server.

Be very careful changing these. The FreeNAS GUI will stop you making most catastrophic changes to the permissions that would otherwise break the share.

However, if you go behind the GUI to the command prompt you could really mess things up. Do not use the **chmod** command here or you will probably break the share. Use the **getfacl** and **setfacl** commands.

Another way you can alter the "Share" permissions is by using an application that runs on the client specifically for this purpose. I have not used any of these programs so I cannot comment on how useful or easy they are to use. However, you still need to be careful when using them because you are still

going behind the FreeNAS GUI here.

NTFS Permissions

"NTFS" permissions relate to the permissions you set for the shared folder on the client side through the Windows OS.

It is considered good practice (this is debateable) to leave the "Share" permissions as they are and lock down the share using NTFS permissions. This has the advantage of controlling the share regardless of how it is accessed (i.e. locally or via a network).

It is much easier for the beginner and those that are unfamiliar with Linux or FreeBSD to configure permissions in this way as the permissions are controlled by a series of tick boxes (not cryptic commands). As long as you understand what each of the settings mean you should be fine.

However, be careful as it is possible using the "Everyone" group to lock yourself out of the share (Fester did this and could not regain control of the share).

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