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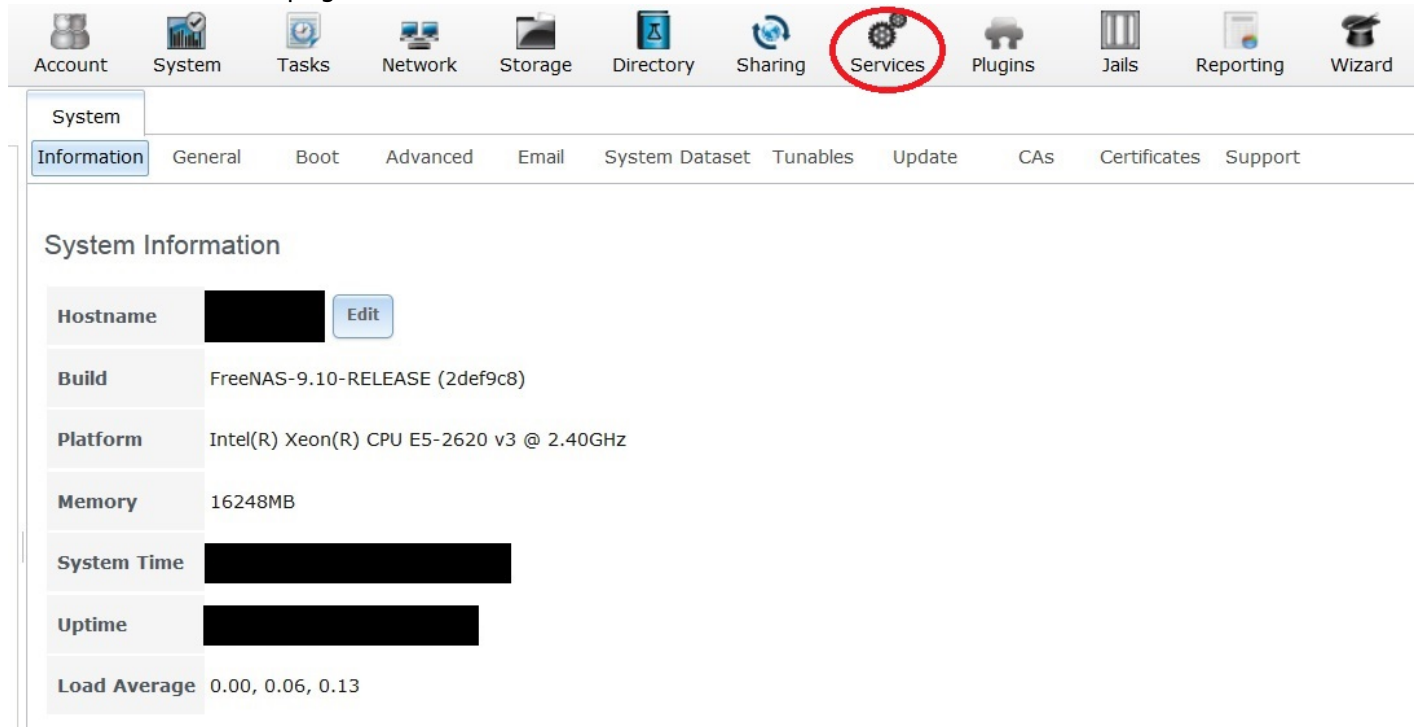
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Plex Media Server

This is a guide for installing the Plex Media Server plugin.

Create the Media Dataset

Go to the “Services” 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 (highlighted with a red circle), Plugins, Jails, Reporting, and Wizard. Below this is a sub-navigation bar with tabs for System, Information (selected), General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The main content area is titled "System Information" and displays various system details:

Hostname	[REDACTED]	Edit
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	

Now switch off the “CIFS” service.



We now need to create a dataset for storing all the media (i.e. films, music, etc) you have on your server.

- Go to the “Storage” page (1).
- Select the volume (it will turn blue when you choose it) (2) (in Fester’s case this was Tank1).
- Now click on the “Create Dataset” button (3).

Storage

Volumes Periodic Snapshot Tasks Replication Tasks Scrubs Snapshots VMware-Snapshot

Volume Manager Import Disk Import Volume View Disks

Name	Used	Available	Compression	Corr
▲ Tank1	1.3 GiB (0%)	29.0 TiB	-	-
▲ Tank1	954.9 MiB (0%)	20.0 TiB	lz4	1.5
TestShare	33.4 MiB (0%)	20.0 TiB	inherit (lz4)	1.00
▲ jails	605.8 MiB (0%)	20.0 TiB	inherit (lz4)	1.82
jails/.warden-template-pluginjail	605.6 MiB (0%)	20.0 TiB	inherit (lz4)	1.82

Create Dataset

- In the “Dataset Name:” text box (1) type a name for the new media dataset (Fester very imaginatively used **Media**).
- Leave the “Compression Level:” drop down selection box (2) at its default value (**lz4**).
- In “Share type:” I selected **Windows** simply because most of the clients on Fester’s network are Windows machines.
- Now click on the “Add Dataset” button (4).

Create Dataset

Create ZFS dataset in Tank1

Dataset Name:	1	Media
Compression level:	2	Inherit (lz4)
Share type:	3	Windows
Case Sensitivity:		Sensitive
Enable atime:		<ul style="list-style-type: none"><input checked="" type="radio"/> Inherit (on)<input type="radio"/> On<input type="radio"/> Off
ZFS Deduplication:		<p>Enabling dedup may have drastic performance implications, as well as impact your ability to access your data. Consider using compression instead.</p> <div>Inherit (off)</div>

4

Add Dataset

Cancel

Advanced Mode

If all goes well the new dataset will be listed in the "Storage" page.
Select the new dataset (it should turn blue when selected) (1).
Now click on the "Change Permissions" button (2).

Storage







Volumes Periodic Snapshot Tasks Replication Tasks Scrubs Snapshots VMware-Snapshot

Volume Manager Import Disk Import Volume View Disks

Name	Used	Available
▲ Tank1	1.3 GiB (0%)	29.0 TiB
▲ Tank1 1	955.2 MiB (0%)	20.0 TiB
Media	204.8 KiB (0%)	20.0 TiB
TestShare	33.4 MiB (0%)	20.0 TiB
▲ jails	605.8 MiB (0%)	20.0 TiB
jails/.warden-template-pluginjail	605.6 MiB (0%)	20.0 TiB

2

Change Permissions

- In the “Owner (user):” drop down selection box (1) select whatever user you created when we created the experimental share (in Fester’s case this was TestUser).
- In the “Owner (group):” drop down selection box (2) select whatever group you created when we created the experimental share (in Fester’s case this was TestGroup).
- Tick the “Set permission recursively:” tick box (3).
- Now click the “Change” button (4).

Change permission

Change permission on /mnt/Tank1/Media to:

Apply Owner (user): ☒

Owner (user): **1** TestUser

Apply Owner (group): ☒

Owner (group): **2** TestGroup

Apply Mode: ☒

Mode:

	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:

- ☐ Unix
- ☐ Mac
- ☒ Windows

Set permission recursively: **3** ☒

4 ☒

Change Cancel

Add Media Share

Now go to the "Sharing" 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 (circled in red), Services, Plugins, Jails, Reporting, and Wizard. Below this, the 'System' tab is selected, and the 'Information' sub-tab is active. The 'System Information' section displays various system details:

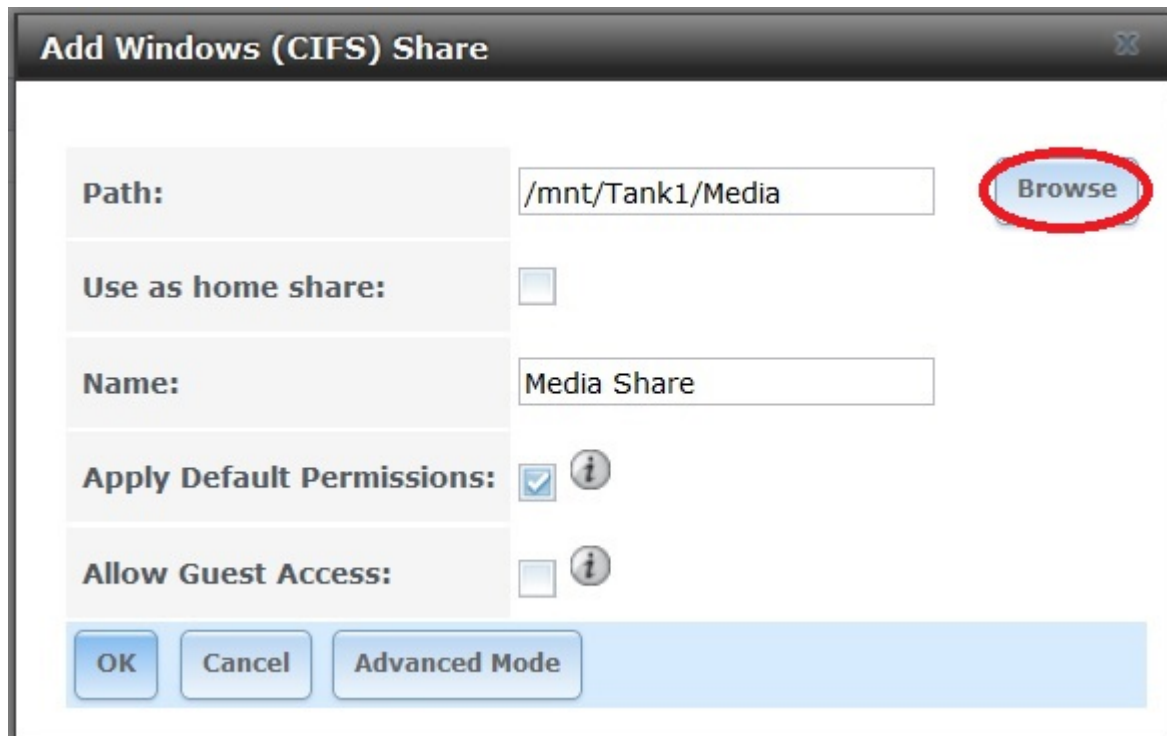
Hostname	[REDACTED]	Edit
Build	FreeNAS-9.10-RELEASE (2def9c8)	
Platform	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	
Memory	16248MB	
System Time	[REDACTED]	
Uptime	[REDACTED]	
Load Average	0.00, 0.06, 0.13	

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

The screenshot shows the 'Sharing' tab selected. Below the navigation bar, there are buttons for Apple (AFP), UNIX (NFS), WebDAV, Windows (CIFS) (circled in red and labeled 1), and Block (iSCSI). Below these buttons, the 'Add Windows (CIFS) Share' button is circled in red and labeled 2. Below the buttons, there is a table with the following data:

Path	Name	Comment
/mnt/Tank1/TestShare	Fester's Test Share	

A new smaller window will pop up. In the “Path:” section click the “Browse” button.



Add Windows (CIFS) Share

Path: /mnt/Tank1/Media **Browse**

Use as home share: ☐

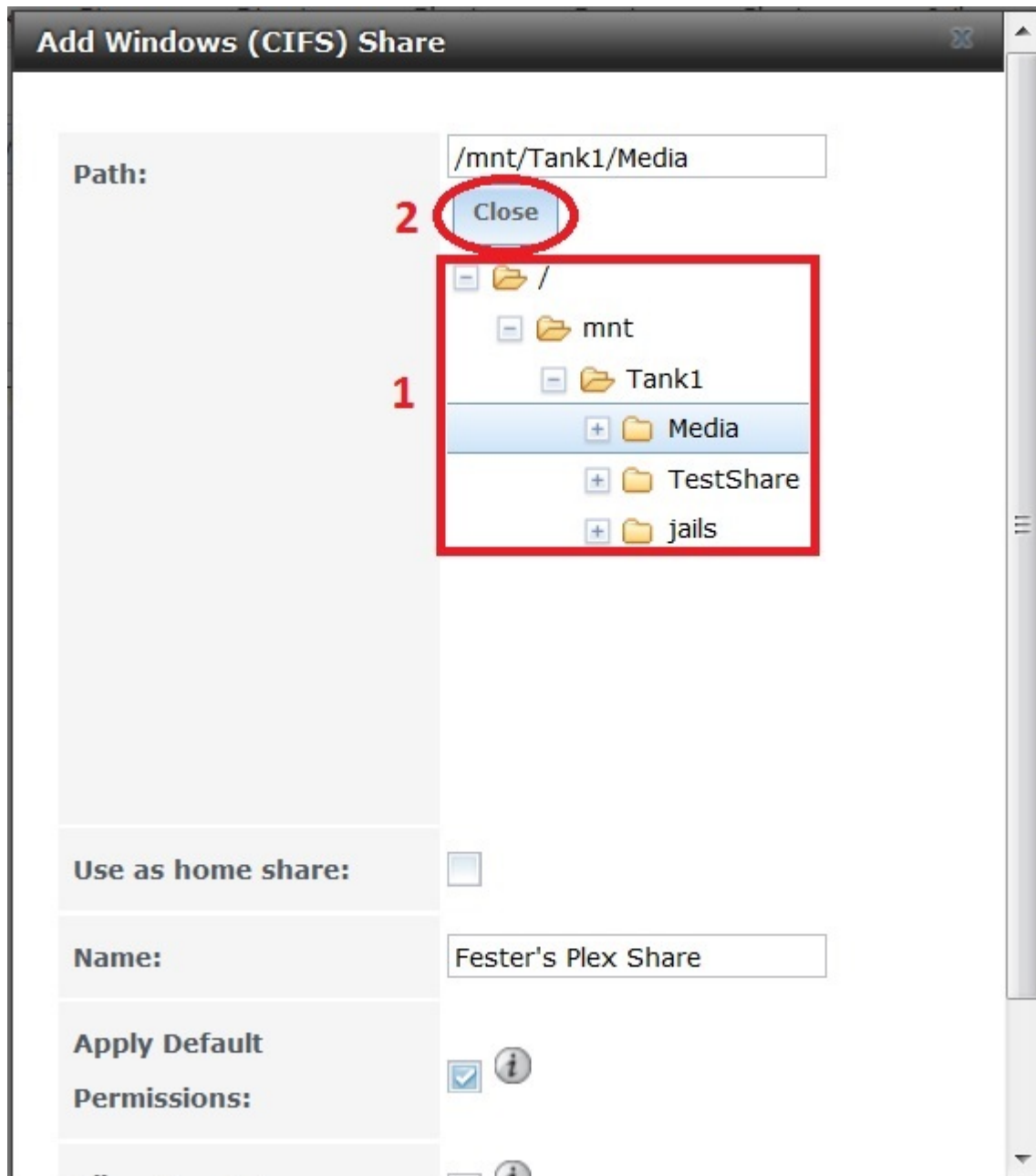
Name: Media Share

Apply Default Permissions: ☒ ⓘ

Allow Guest Access: ☐ ⓘ

OK **Cancel** **Advanced 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).



- 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).

Add Windows (CIFS) Share

Path: 1 /mnt/Tank1/Media Browse

Use as home share: 2 ☐

Name: 3 Fester's Plex Share

Apply Default Permissions: ☒ ⓘ 4

Allow Guest Access: 5 ☐ ⓘ

6 OK Cancel Advanced 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 “Yes” button (2).

Sharing

Apple (AFP) UNIX (NFS) WebDAV **Windows (CIFS)** Block (iSCSI)

Add Windows (CIFS) Share

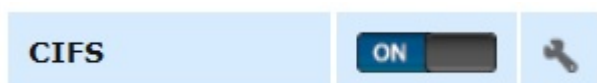
Path	Name	Comment	Export Read Only
/mnt/Tank1/Media	Fester's Plex Share		false
/mnt/Tank1/TestShare	Fester's Test Share		false

Enable service

Would you like to enable this service?

2 Yes No

The CIFS share service should now turn on.



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

Map Network Drive

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 Y 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 Plex Share) (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).

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.

Now copy a couple of media files (i.e. music, films, etc) into this folder. We will need these later to check the Plex media server.

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

Install the Plex Plugin

Now go to the “Plugins” page and wait for the page to become populated.

(If the Plugins page does not populate then check the DNS servers are configured properly in FreeNAS.)

Scroll down and select the plugin you want by clicking on it (in Fester's case this was the PlexMediaServer) (1) and then click the "Install" button (2).

A small window with a warning message will pop up. Just click the "OK" button.

You should now see something like this.

When the Plex plugin has installed go to the "Jails" page.

Make a note of the IP address assigned to the Plex media server (it is under the "IPv4 Address" heading). Now select the "plexmediaserver_1" jail (1) (it will turn blue when selected) and click on the "Add Storage" button (2).

A new smaller window will pop up.
In the "Source:" section click the "Browse" button.

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).

In the “Destination:” section click the “Browse” button.

The window should now expand a little and allow you to navigate to the folder within the Jail you wish to use (1) (Fester used the media folder).
When you have it selected click the “Close” button (2).

Now click on the “OK” button.

Remain within the “Jails” page and check that the storage for the Plex media server has been created by clicking on the “Storage” button (1). You should see an entry that relates to the newly created storage (2).

Now go back to the “Plugins” page.
Click on the “Installed” button (1).
Now switch on the Plex media server service by clicking on the “On/Off” button (2).

Give the Plex service a moment to get running.

Configure Plex Media Server

Now open your web browser and type in the following web address.

FreeNASAssignedWebAddressHere:32400/web

In Fester’s case this would look like this.

192.168.0.9:32400/web

If you don't know the IP address that FreeNAS assigned to the Plex media server you can find it in the "Jails" page listed under the "IPv4 Address" heading.

If all goes well you should be presented with the Plex Media Server web GUI. You should see something like this.

Follow the on screen instructions to setup the Plex media server as you need it. As each person's preferences are different I won't cover that here. If you have any problems there is a wealth of information on the Plex website.

Whatever you do make sure you click the "Add Library" button so you can tell Plex where to find the folder within the Jail that links to the media share. If you don't do this you will not be able to use your media files in Plex.

Fester likes music (let's go Disco!) so I picked Music as the "Library Type" (1).
In the "Name" text box you can give the library a meaningful name (Fester stuck with Music).
Now click the "Add Folders" button (3).

Next click on the folder icon (1) and from the list that appears select the "media" folder (2).
Now click the "ADD" button (3).

Now click the "ADD LIBRARY" button.

If all goes well your media should appear (in Fester's case two test files). You should see something like this.

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