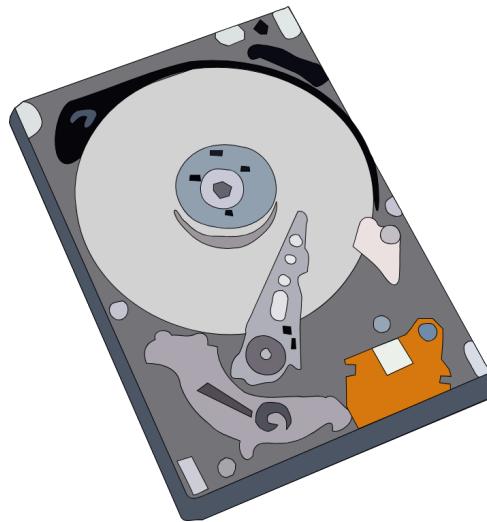


Network-Attatched_Storage_Notes



NAS will be used as a shared home network drive for convenience use. Pictures, saved short video clips moments, videos, documents! This will be done with OpenMediaVault (OMV) - a web-based OS I install on my Pi to turn it into a NAS. A home file server. It does control permissions via users. OMV configures **Samba**, a Linux File-sharing service that listens on the network and accepts requests from other computers on the HDD and enforces the permissions.

Hardware Required

- Sabrent USB 3.0 3.5 HDD enclosure
 - <https://a.co/d/4StL0Kf>
- Seagate BarraCuda 2TB 3.5 HDD
 - <https://a.co/d/gE122cM>

To open OpenMediaVault (OMV), goto the Pi's IP in any device browser

OR

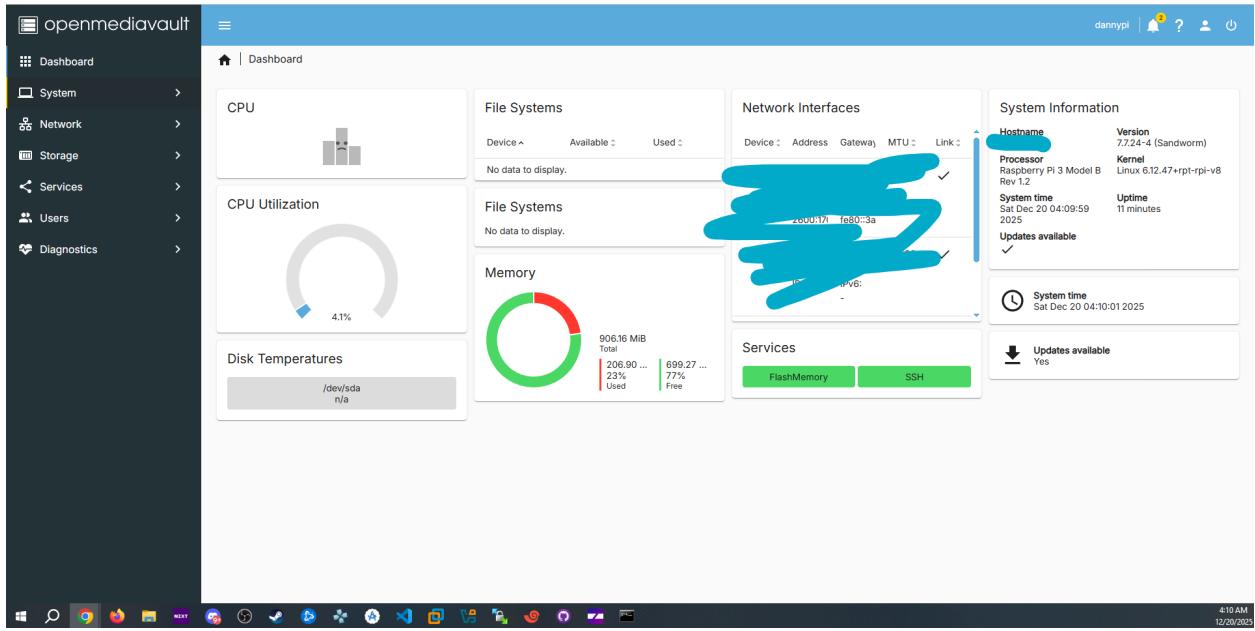
The same thing as ^, do <hostname.local> so you don't have to get the Pi IP



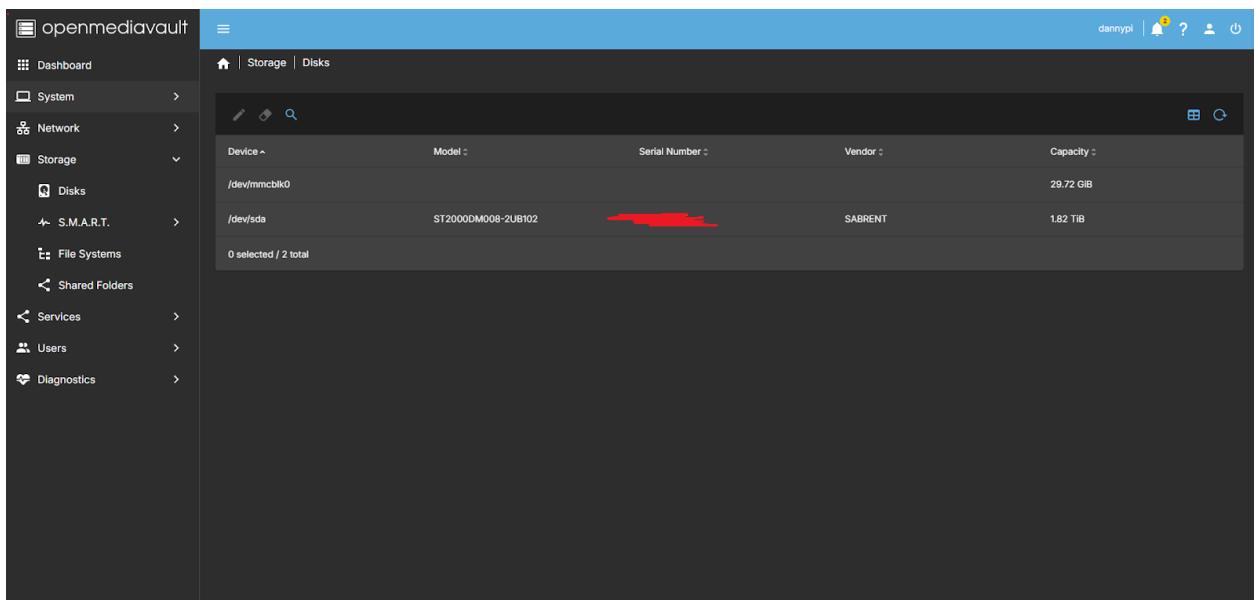
OMV after using <hostname.local>

A screenshot of the OpenMediaVault dashboard. The left sidebar contains navigation links: Dashboard, System, Network, Storage, Services, Users, and Diagnostics. The main content area features a blue header bar with the text "Welcome to openmediavault". Below this, there's a message about the project being developed by Volker Theile, a "Donate" button with payment method icons, and links to the homepage, forum, and documentation. A smaller message at the bottom encourages users to find additional plugins. The bottom of the dashboard has a blue bar with the text "Information" and a note that the dashboard has not yet been configured.

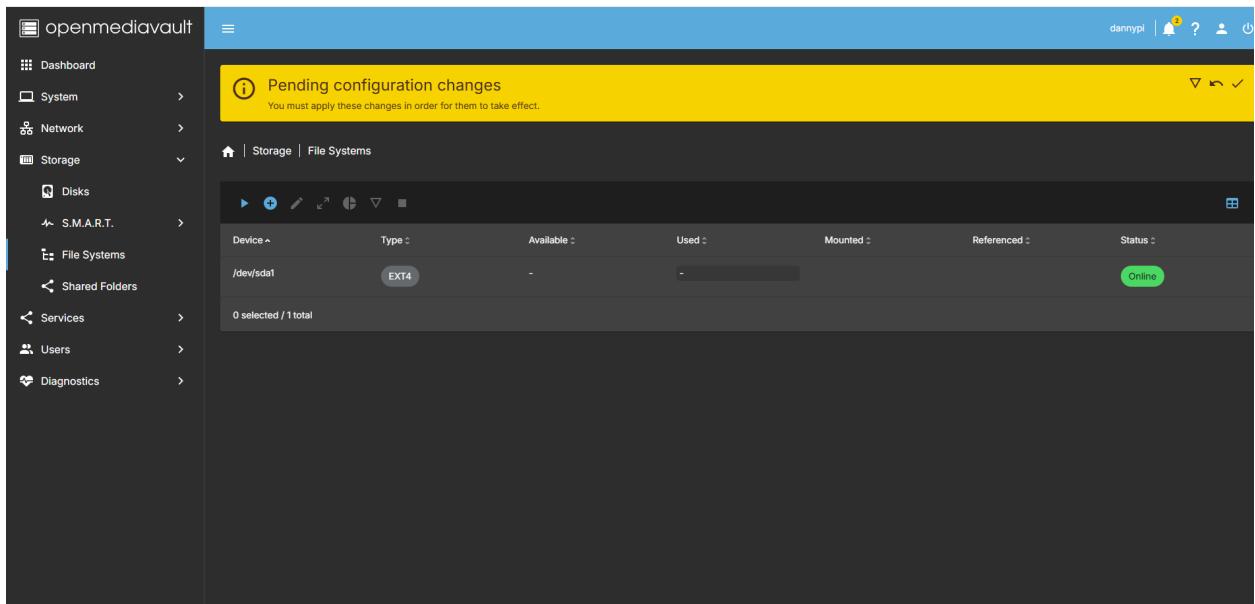
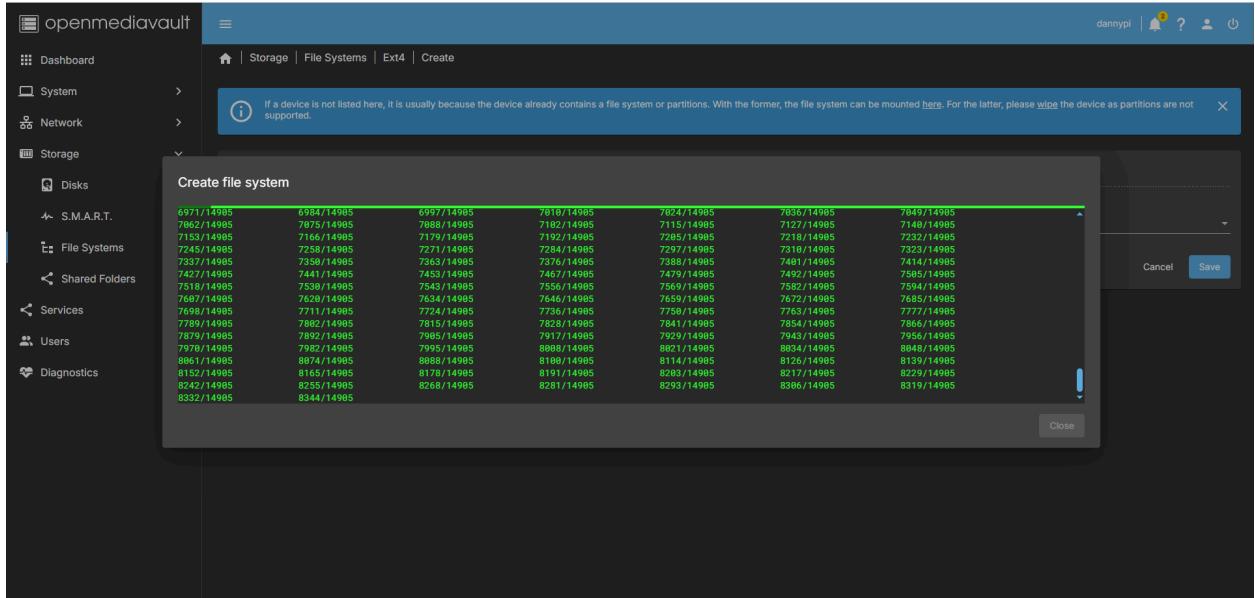
Post admin login (details in Secret Notes)D



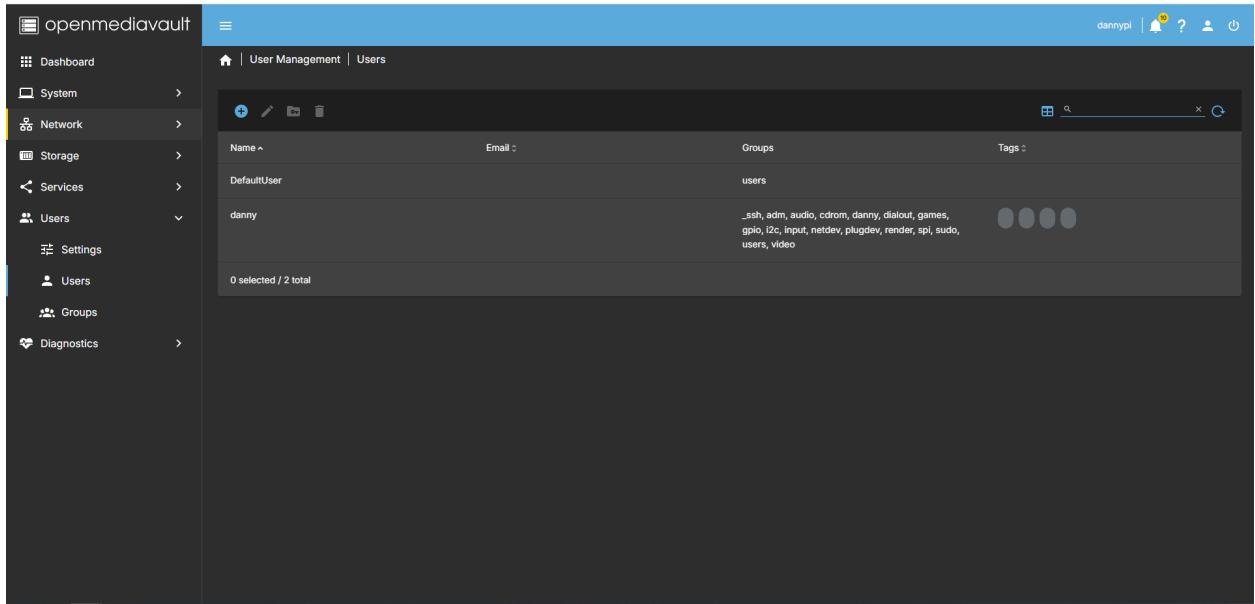
Populating OMV dashboard with settings in the UI



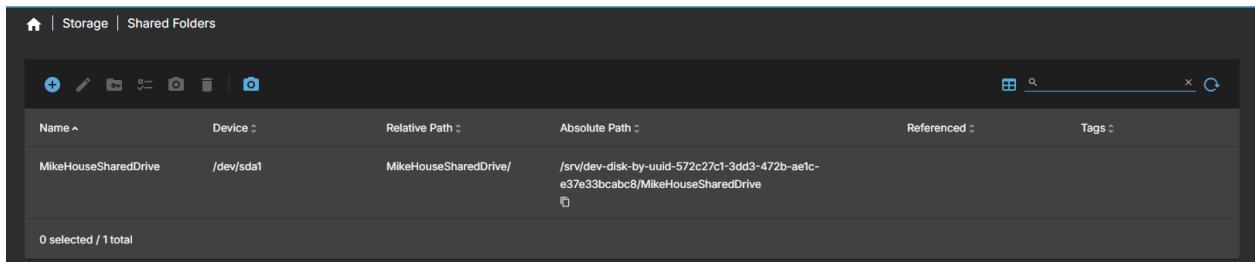
Going to Storage > Disk and I see my 2TB HDD



Adding file system to drive

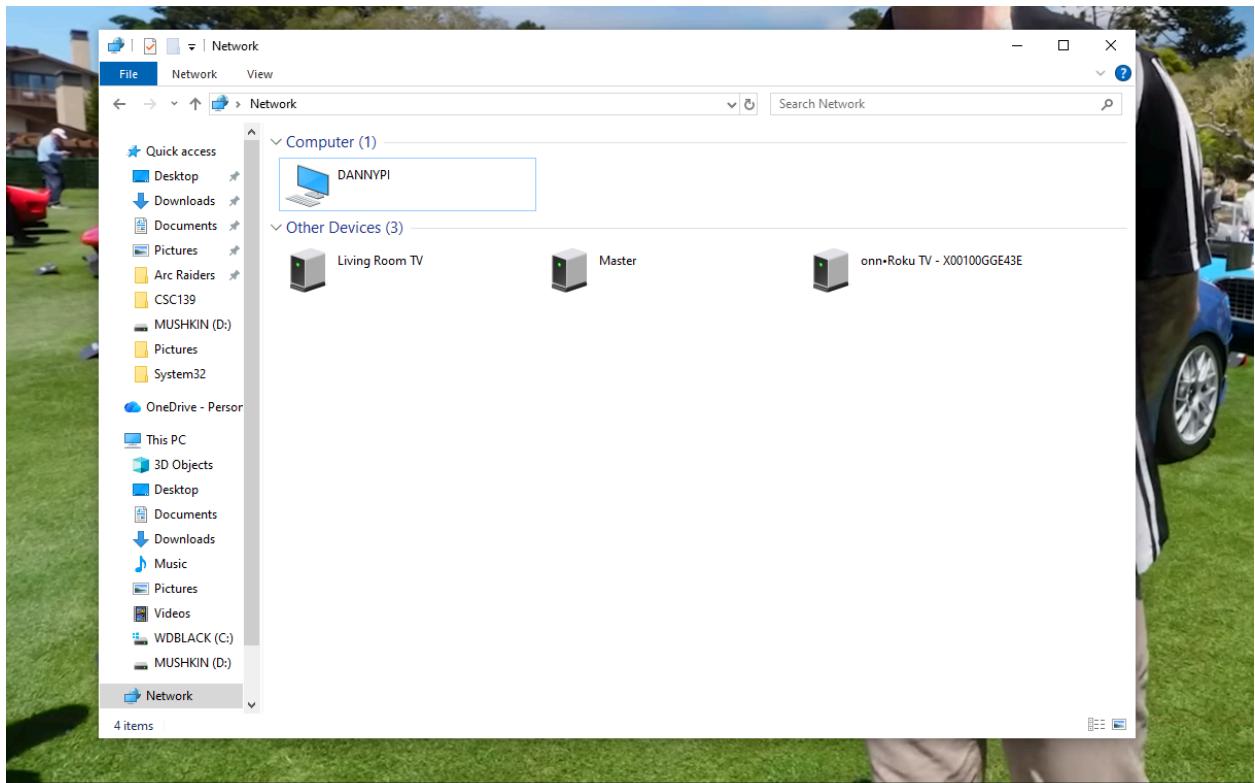


Adding a User (**This is where you make logins for connecting to the drive)**



Adding Shared Folder

Added Recycling bin >:)



Monterey Car Week BROKE My Brain



AlexMartini 533K subscribers

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398



Share

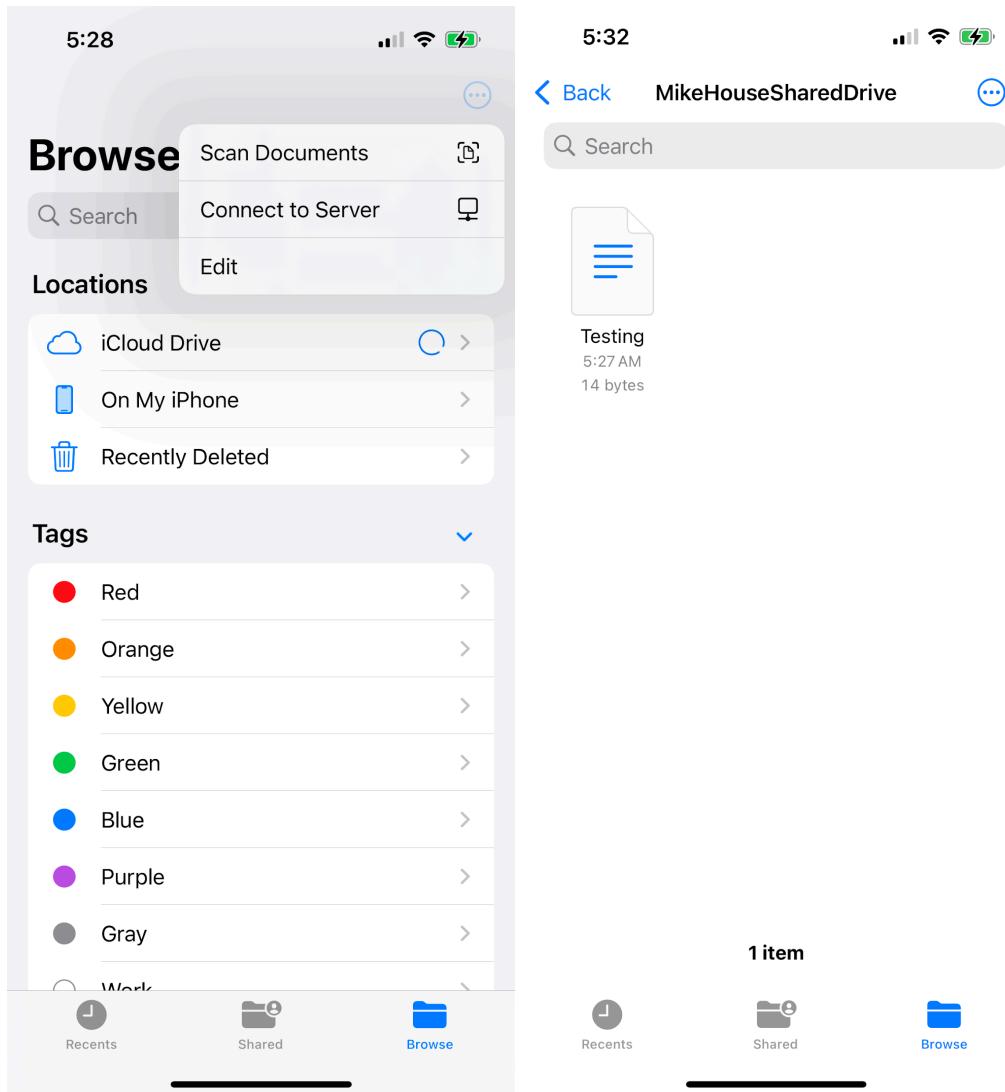
Ask

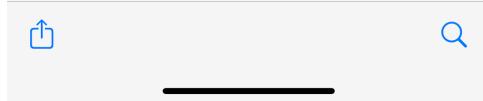
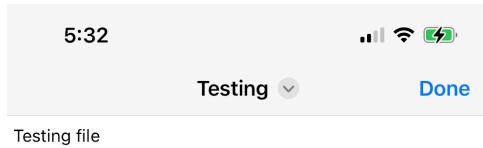
Save

...



NAS POPS UP ON MY NETWORK AFTER ENABLING SMB!

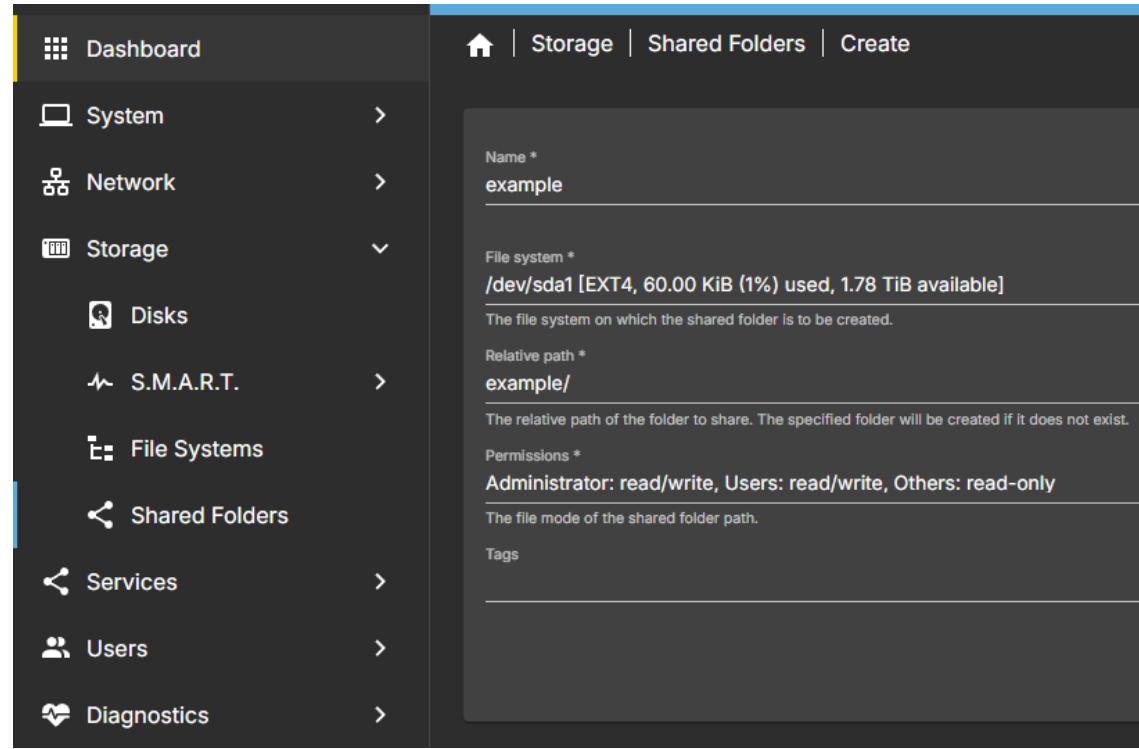




To connect to NAS via iPhone
File > 3 dots top right > Connect to Server smb://<pi_ip>

IT WORKED and the file I created, I was able to access!

To make a folder that only 1 or more people can see
1. Goto Storage > Shared Folders
2. + Create

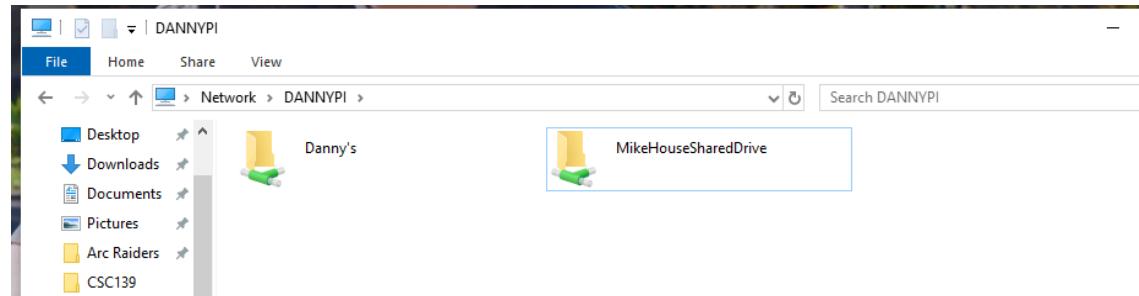


3. Services > SMB/CIFS
4. + Create and fill out using new folder created
 - a. Recommend Enabling Recycling bin

b.

The screenshot shows the openmediavault web interface. On the left, a sidebar menu includes Dashboard, System, Network, Storage, Services (with Flashmemory, NFS, Rsync, and SMB/CIFS listed), Settings, Shares, SSH, Users, and Diagnostics. The main panel is titled 'SMB/CIFS' and shows a configuration form for a share named 'Danny's'. The 'Enabled' checkbox is checked. The 'Shared folder *' field contains '/dev/sda1'. Below it is a 'Comment' field. A note states: 'This is a text field that is seen next to a share when a client queries the service.' Under the 'Public' section, 'No' is selected. A note says: 'If 'Guests allowed' is selected and no login credential is provided, then access is granted to the share.' Below that, 'Read-only' is unchecked. A note says: 'If this parameter is set, then users may not create or modify files in the share.' Under 'Browseable', 'Yes' is checked. A note says: 'This controls whether this share is seen in the list of available shares in a network browser.' Other options like 'Time Machine support', 'Transport encryption', 'Inherit ACLs', 'Inherit permissions', and 'Enable recycle bin' are also listed with their respective notes.

b.

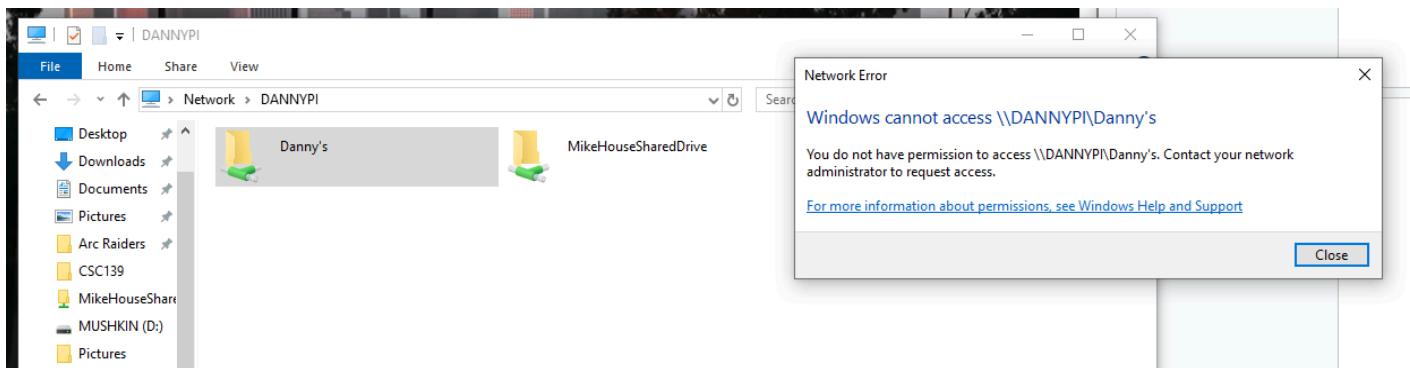


c.

It works!

Name	ID	Type	System account	Permissions
danny	1000	User		Read/Write Read-only No access
danny	1000	Group		Read/Write Read-only No access
DannyActual	1002	User		Read/Write Read-only No access
DefaultUser	1001	User		Read/Write Read-only No access
_apt	42	User	✓	Read/Write Read-only No access

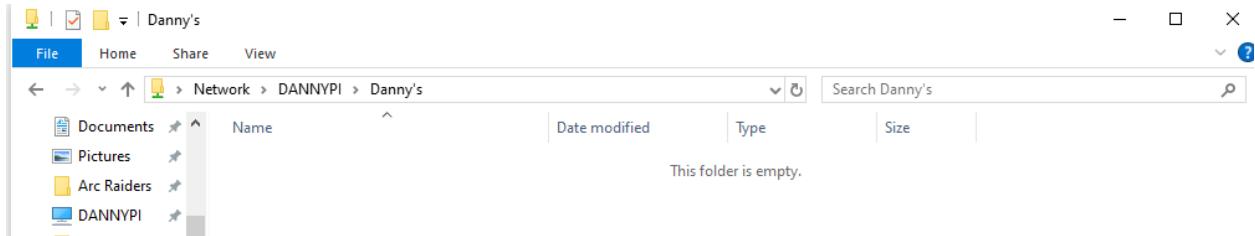
To decide what users have access to a Shared Folder, goto Storage > Shared Folders



Can't open since the only user with access is DannyActual and I'm logged in with DefaultUser here.

To switch users

1. Close File Explorer
2. Command Prompt `net use * /delete` and next time it will ask you for credentials. **Sometimes it takes retries or time**



I swapped to DannyActual user here which has permissions to read/write into that Shared folder

In case you forgot admin login (Yeah this happened to me)

```
sudo omv-firstaid
```

Please note that I did consider having another 2TB drive as a 1-to-1 mirror backup of the first 2TB drive. No raid setup as this will work better for my setup. However I do not have the funds to do so and don't personally think I need it. I can attach a small 128gb external SSD that connects via USB down the line for only about \$25 for those most important and sensitive documents.