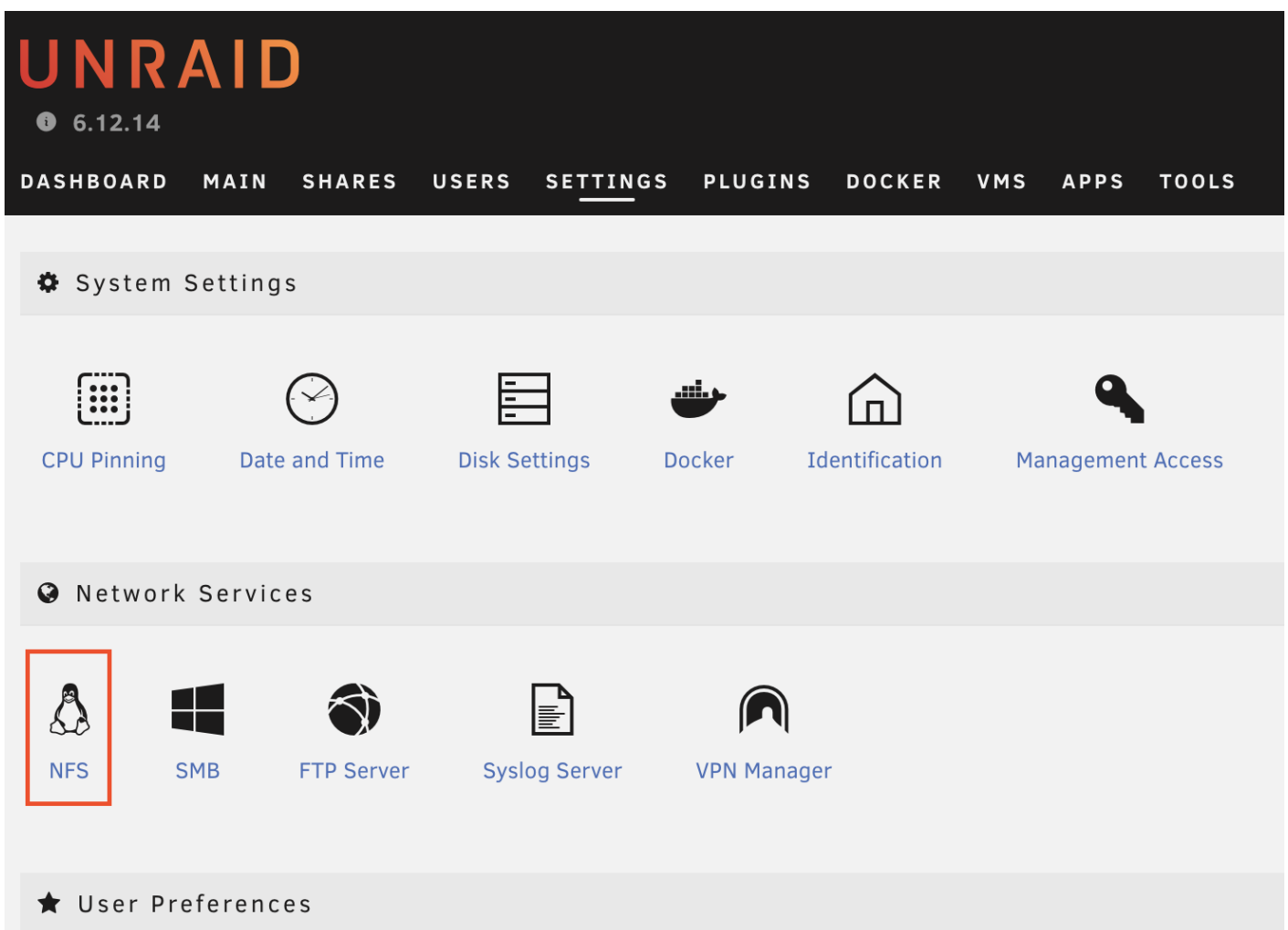


# Mounting NFS Share from Unraid to Proxmox LXC

On Unraid

## Enable NFS

Go to Settings > Network Services > NFS



## Enable NFS

### NFS

Enable NFS: Yes ▼

Tunable (fuse\_remember): 330 default

APPLY DONE

I'm just going to create a share that stays on the cache where files don't get moved to the array.

### Share Settings

Share name: pve-nfs-0

Comments:

Minimum free space: 97.7 GB

Share status: Share contains data

Exclusive access: No

Primary storage (for new files and folders): Cache ▼

Enable Copy-on-write: Auto ▼ ⓘ Set when a

Secondary storage: None ▼

Mover action: Not used ▼ ⓘ Mover take

APPLY DONE

Set the NFS settings. The IP address is the address of the Proxmox node. RW will allow PVE to view this share and read/write to it.

**NFS Security Settings**

Share name: pve-nfs-0

Export: Yes

Security: Private

Rule: 192.168.50.123(rw, sync, no\_subtree\_check)

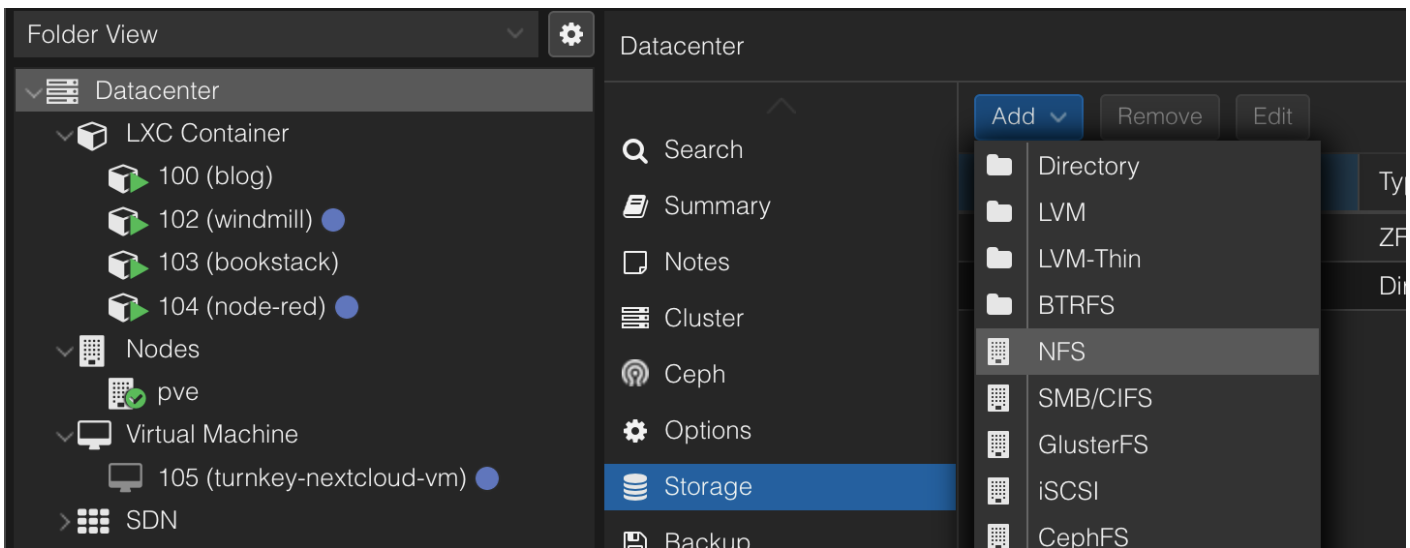
Buttons: APPLY, DONE

# On Proxmox

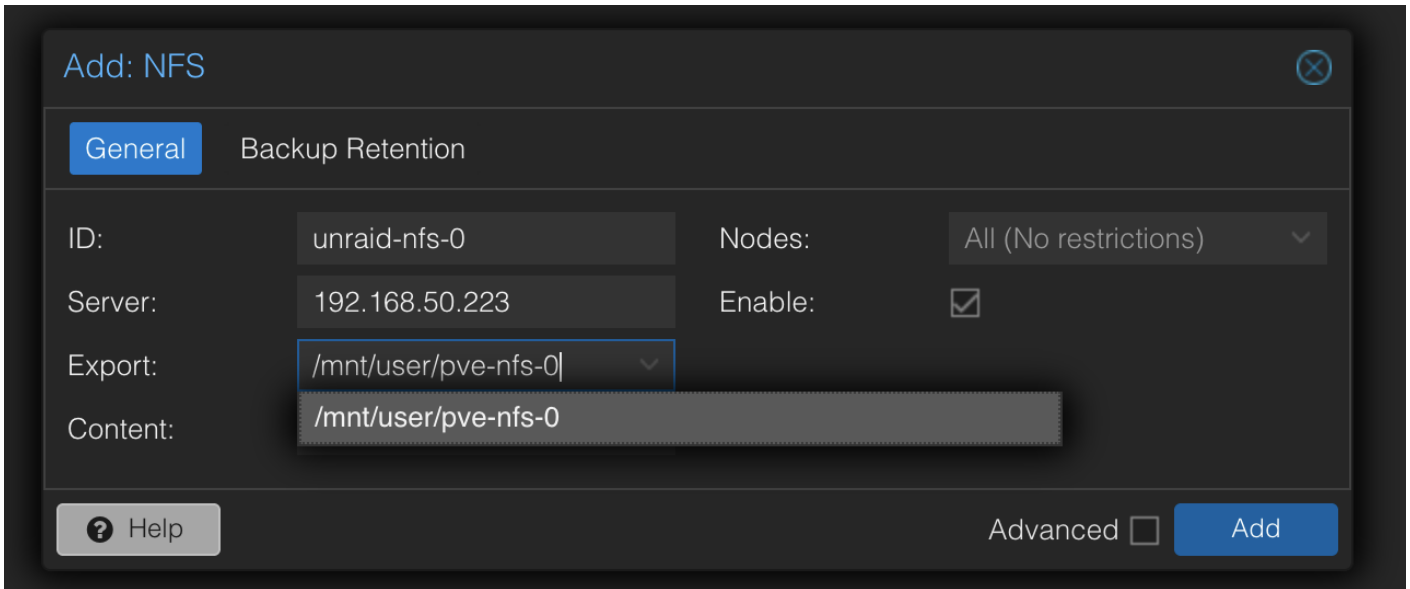
I'm going to try and run an LXC with NFS as the volume

## Configure NFS Storage

Go to Datacenter > Storage > NFS



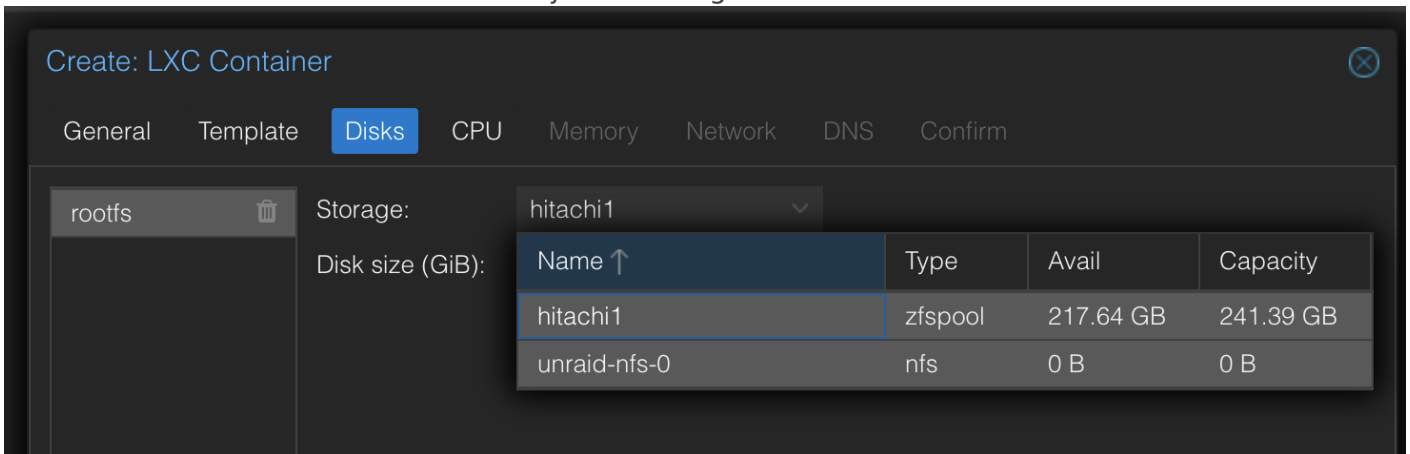
Set the ID to whatever you want. Enter the the IP of the Unraid server. After doing so, we should be able to see the path of the share we created and configured for access earlier.



Not sure what content is for but i selected Disk Image and container.

## Creating an LXC with NFS storage

Create a standard LXC. In this case im just creating a debian LXC.



Click next for the next few pages. Then create.

```
Task viewer: CT 106 - Create [X]
Output Status
Stop Download
Formatting '/mnt/pve/unraid-nfs-0/images/106/vm-106-disk-0.raw', fmt=raw size=8589934592 preallocation=off
Creating filesystem with 2097152 4k blocks and 524288 inodes
Filesystem UUID: 9acb2598-c9cb-470f-adf3-2297fa8bf353
Superblock backups stored on blocks:
 32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632
extracting archive '/var/lib/vz/template/cache/debian-12-standard_12.7-1_amd64.tar.zst'
Total bytes read: 521902080 (498MiB, 329MiB/s)
Detected container architecture: amd64
Creating SSH host key 'ssh_host_rsa_key' - this may take some time ...
done: SHA256:L5J+E3U/QtAVP+BQZomEzdTOB/wGb89WzXdb3b1A5wY root@test-nfs
Creating SSH host key 'ssh_host_ed25519_key' - this may take some time ...
done: SHA256:wlZxqbZh9K6WjIDx4y2QMzryaDLLulUZyFpz20nfuPI root@test-nfs
Creating SSH host key 'ssh_host_dsa_key' - this may take some time ...
done: SHA256:Yg5E4m7nLYs3OmZIDrM46t5VUEAn6tSpp7rR8+9dypE root@test-nfs
Creating SSH host key 'ssh_host_ecdsa_key' - this may take some time ...
done: SHA256:Tln4xaPK+Kv0lMnukW5EObhiHTaRmsk1ESeGTg9FNQ root@test-nfs
TASK OK
```

Success. Test that we can run it.

```
Container 106 (test-nfs) on node 'pve' No Tags
Summary Console Resources Network DNS Options Task History Backup Replication
Debian GNU/Linux 12 test-nfs tty1
test-nfs login: root
Password:
Linux test-nfs 6.8.12-4-pve #1 SMP PREEMPT_DYNAMIC PMX 6.8.12-4 (2024-11-06T15:04Z) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@test-nfs:~#
```

On Unraid, if we check the share we can see there is a folder being created by the LXC id.

```
user > pve-nfs-0 > images > 106
```

TYPE	NAME	OWNER	PERMISSION	SIZE
Parent Directory				
	vm-106-disk-0.raw	UNKNOWN	-rw-r-----	8.59 GB

1 object: 0 directories, 1 file (8.59 GB total)

Reference:

- <https://docs.unraid.net/unraid-os/manual/shares/network-access/>
- <https://docs.unraid.net/legacy/FAQ/cache-disk/>
- [https://bluexp.netapp.com/blog/azure-anf-blg-linux-nfs-server-how-to-set-up-server-and-client#H\\_H5](https://bluexp.netapp.com/blog/azure-anf-blg-linux-nfs-server-how-to-set-up-server-and-client#H_H5)
- <https://www.tecmint.com/install-nfs-server-on-ubuntu/>

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