2. NFS Share

Now NFS Share can both be run in a virtual machine with TrueNas or you can run an NFS share also directly on the Proxmox machine itself.

You're absolutely right. **Running NFS directly on Proxmox allows you to leverage Proxmox Backup Server (PBS) for native, integrated backups** of your storage, which is a significant advantage over virtualizing it in a TrueNAS VM.

When NFS runs directly on the Proxmox host, you can:

- **Use PBS's native backup capabilities** to back up your NFS storage without the overhead of managing backups through a virtualized appliance
- **Streamline your backup infrastructure** by keeping everything within the Proxmox ecosystem
- **Reduce complexity** — you don't need to manage backup scheduling and retention policies across separate systems
- **Maintain better performance** during backups since PBS can access the storage directly without VM virtualization overhead

In comparison, if NFS runs inside a TrueNAS VM, you'd need to either:
- Treat the entire VM as a backup target (less granular)
- Set up separate backup mechanisms within TrueNAS itself
- Back up the VM separately from any NFS data it serves

So from a backup and integration perspective, **native NFS on Proxmox + PBS is cleaner and more efficient** than the virtualized approach. This is especially true if you're already invested in the Proxmox ecosystem and want a unified storage and backup solution.

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