

Setting Up a Nas with Docker

Your quick guide to Docker NAS setup

- 1 Install Portainer for intuitive Docker management and container deployment.
- 2 Choose hardware with Intel i5 CPU, 16GB RAM, and mixed SSD/HDD storage.
- 3 Update system and install Docker using apt on Ubuntu Server 22.04 LTS.
- 4 Install Docker Compose to manage multi-container applications efficiently.
- 5 Create organized storage directories under `/srv/docker/` for each service.
- 6 Mount physical drives to dedicated paths for persistent, backed-up data.
- 7 Use ZFS or Btrfs filesystems for snapshots and data integrity checks.
- 8 Deploy Nextcloud, Plex, Duplicati, WireGuard, and Sonarr/Radarr containers.
- 9 Assign static IP address to Docker host for consistent network access.
- 10 Forward only necessary ports and isolate services using Docker networks.
- 11 Run VPN container and access remote services exclusively through it.
- 12 Set CPU and memory resource limits on containers to optimize performance.