

Migrate Your GCP DockerLab to On-Prem NUC

Same Services. Your Data. More Freedom.

From Cloud to Home — A Safe, Step-by-Step Migration Plan



Keep Your Data
Safe and complete



Save Money
No long-term CUD



Keep Your URLs
Use Cloudflare

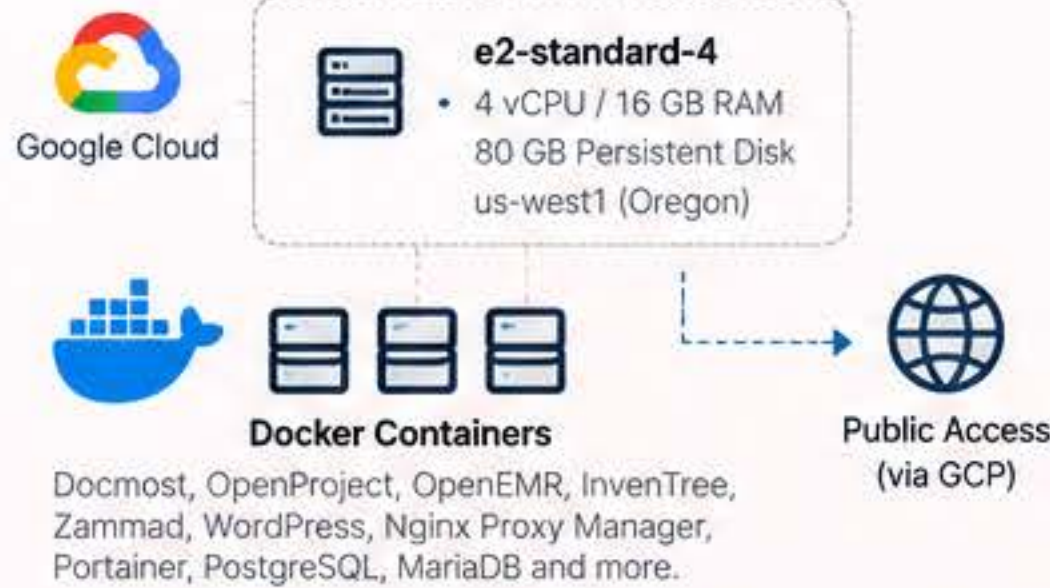


Stay Private
Tailscale access



Be in Control
Your infrastructure

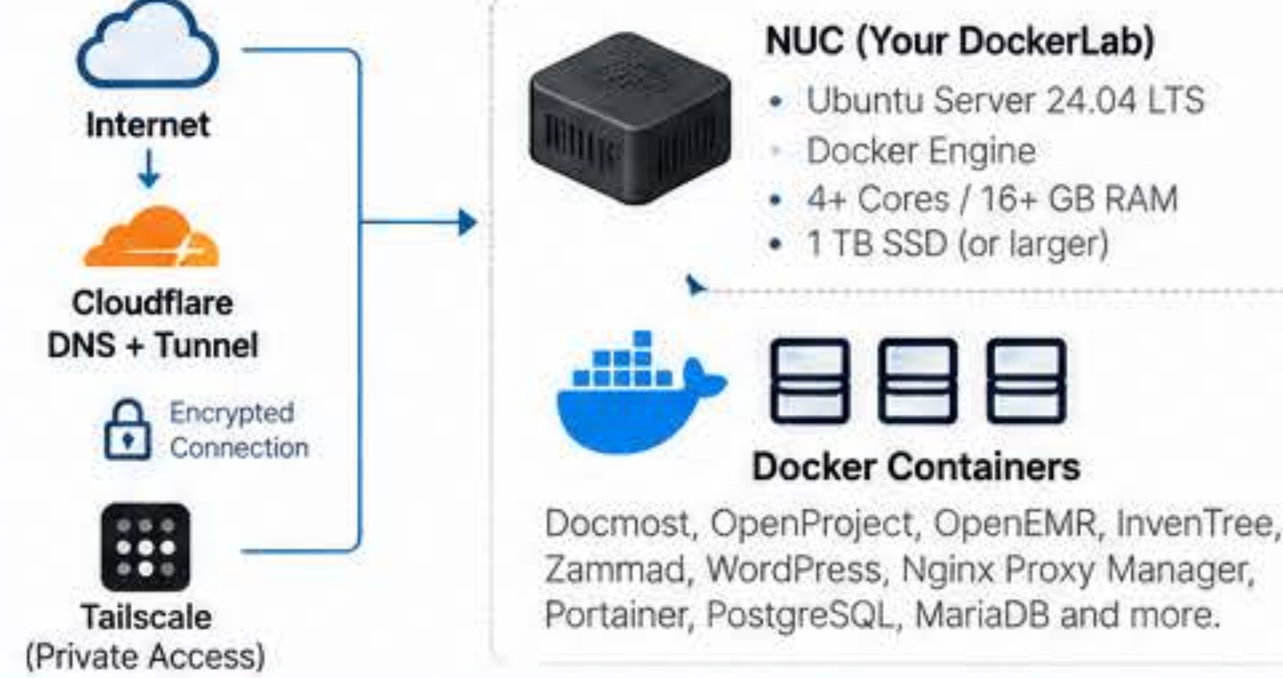
Current Setup (GCP)



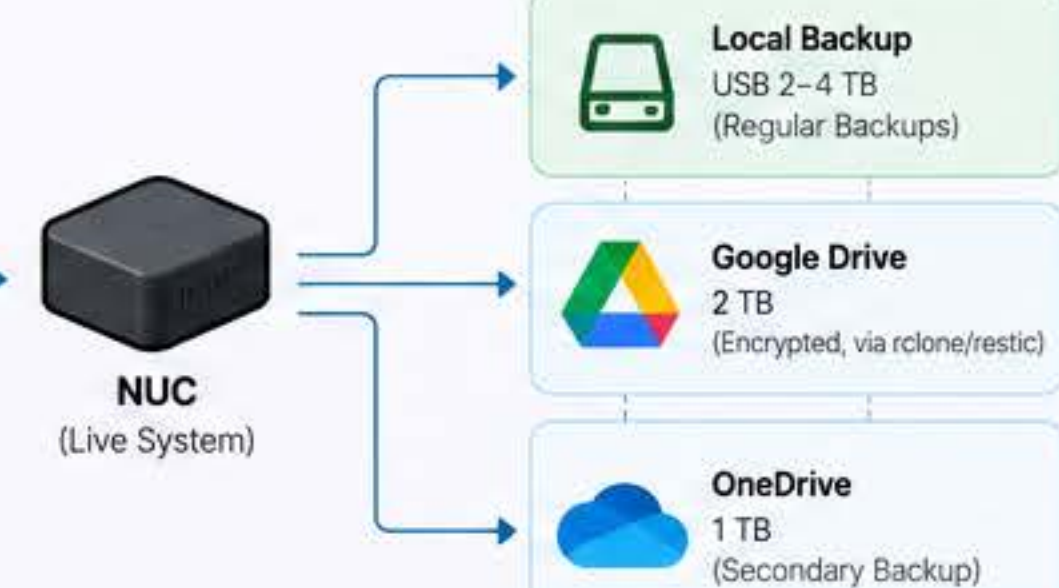
Free Trial expires: September 8, 2026

Migrate
Safely

New Setup (On-Prem NUC)



Backup Strategy (3-2-1)



Step-by-Step Migration Process

1 Inventory on GCP
List containers, volumes, networks, images, and disk usage.

```
docker ps
docker volume ls
docker network ls
docker images
df -h
```

2 Locate Compose Files
Find docker-compose.yml, .env and configuration files.

```
find ~ /opt /srv
-name "docker-compose.yml"
-o -name "compose.yml"
```

3 Backup Databases
Dump PostgreSQL and MariaDB.

```
pg_dumpall
pg_dump
mysqldump
```

4 Backup Docker Volumes
Create compressed archives of important volumes (e.g. docmost, data).

```
docker run --rm
-v VOLUME:/data
tar czf volume.tar.gz
-C /data .
```

5 Prepare Migration Package
Include compose files, .env, configs, database dumps, and volume archives.

```
dockerlab-migration/
├── docker-compose.yml
├── .env
├── *.sql / *.dump
├── *.tar.gz
└── docs/
```

6 Set Up NUC
Install Ubuntu, Docker, Docker Compose, Cloudflare Tunnel, Tailscale.

7 Restore & Test
Restore volumes, import databases, start services one by one (start with Docmost).

- ✓ Restore PostgreSQL
- ✓ Restore Docmost
- ✓ Test thoroughly
- ✓ Migrate other apps
- ✓ Verify all data

8 Switch Access (DNS/Tunnel)
Point your domains to Cloudflare Tunnel. Keep GCP running during testing.

```
docmost.gravelcloud.com
openproject.gravelcloud.com
openemr.gravelcloud.com
invenree.gravelcloud.com
zammad.gravelcloud.com
wordpress.gravelcloud.com
```

9 Finalize
After successful migration, take a final GCP snapshot, then stop and delete the VM (keep snapshot for a while).

- Final Snapshot (Keep temporarily)
- Delete GCP VM (when ready)

Your Applications



Estimated Monthly Cost (Current GCP vs NUC)

Component	On-demand	1-Year CUD	3-Year CUD
e2-standard-4 (4 vCPU / 16 GB)	\$97.82	\$61.61	\$44.02
80 GB Balanced PD	\$8.00	\$8.00	\$8.00
External IPv4	\$3.65	\$3.65	\$3.65
Total per month	\$109.47	\$73.26	\$55.67
Total per year	\$1,313.64	\$879.12	\$668.04



NUC = One-time hardware cost (e.g. 1 TB SSD NUC) + minimal electricity
No long-term commitment. More control over your data.

Migration Timeline

1	Backup & Prepare	1-2 days
2	Set Up NUC	0.5-1 day
3	Migrate Docmost (test)	1 day
4	Migrate other apps	1-3 days
5	Switch DNS / Cloudflare Tunnel	0.5 day
6	Full testing & validation	1-3 days
7	Final snapshot & cleanup	When ready



Your Data Stays Yours
No vendor lock-in



Secure Access
Cloudflare + Tailscale



Reliable Backups
Local + Google Drive + OneDrive



Flexible & Cost-Effective
No 3-year commitment



Build for the Long Term
On your own terms



hub.gravelcloud.com
Rigel G Arcayan, 2026.