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VERAE TIME × ZAPIER

Docker Compose

site/packages/verae-ops/92-docker.md

2. Docker Compose

`docker-compose.yml` in this repo starts:

- NATS JetStream **3-node cluster** (`nats1` – `nats3`) on an internal network
- **zappier-edge** :3000
- **middleware** :3100 with `NATS_URL=nats://nats1:4222` and `MOCK_VERAE=true` by default
- **archive-worm** ×3 and **tree-node** ×3 (fleet floors) as long-running Node workers
- **aggregator** + **job-poller** stand-ins via middleware workers when `NATS_ENABLED=true`

NATS ports are **not** published to the host by default (private `verae` network). HTTPS edges are.

Prereqs

Docker Engine 24+ and Compose v2. Clone **this repo** plus the application repos as siblings, **or** set `MONOREPO` to a checkout of `master-zapier-plan-draft`.

```
export MONOREPO=/path/to/master-zapier-plan-draft # contains packages/
docker compose up --build
curl -fsS http://127.0.0.1:3000/health
curl -fsS http://127.0.0.1:3100/health
```

Without `MONOREPO`, Compose expects `../zappier`, `../verae-zapier-middleware`, ... (independent clones next to `verae-ops`).

Link Zapier (cloud) to the lab

1. Publish zappier-edge on a TLS hostname (Caddy/nginx in front of :3000).
2. In the Zapier app env: `MIDDLEWARE_BASE_URL=https://<zappier-host>` (edge meters, then proxies).
3. Sign up on `/portal`, copy `x-api-key`.

Scale

```
docker compose up --scale archive-worm=3 --scale tree-node=3
```

Do not publish 4222. To debug NATS from the host:

```
docker compose exec nats1 wget -q0- http://127.0.0.1:8222/healthz
```

Operator console

Fleet is **not** inside Compose by default (it SSH-spawns). On the Docker host:

```
cd $MONOREPO/packages/verae-fleet
NATS_URL=nats://127.0.0.1:4222 # only if you published 4222 on localhost for lab
node src/cli.js serve         # http://127.0.0.1:3850/ loopback
```

For Compose-only labs, skip fleet; replica counts come from `--scale`.