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VERAE TIME × ZAPIER

Bring online (start here)

[site/packages/verae-ops/GETTING-STARTED.md](https://zapier.georgelambert.org/packages/verae-ops/GETTING-STARTED.md)

Bring Verae Time × Zapier online

This is the **top document** for install, first-up, and monitoring. Platform-specific detail lives in the numbered ops chapters; do not start there.

Catalog: <https://zapier.georgelambert.org/packages/verae-ops/GETTING-STARTED.pdf>

Billing / users (zappier-edge): <https://zapier.georgelambert.org/packages/zappier/docs/USER-MANUAL.pdf>

Operator console: <http://127.0.0.1:3850/> (loopback) · <https://zapier.georgelambert.org/packages/verae-fleet/docs/CONSOLE.pdf>

What you are turning on

Piece	Job	Default
access-authz	NATS authorization step for every access plane	:3020
access-web / api / leaf / zapier / staff	Public HTTP doors	:3021–:3025
identity	<code>veraeUserId</code> bind/lookup	:3026
zappier-edge	Identity cache, Stripe, admin (loopback only)	127.0.0.1:3000 (lab; NS1 all-in-one uses :13000 if :3000 is taken)
staff-iam	Named staff users, roles, sessions	:3028
staff-session	Staff cookie (proxies IAM)	:3027
verae-keep	Restart crashed units unless admin paused/stopped	keep :3860, watch :3861
jobs-events	Mailbox <code>verae.zapier.jobs.events</code>	:3030
account-balance	NATS prepaid balances (SoT)	:3010
customer-service	CS credit additions + review	:3011
sales-pricing	Per-customer sales quotes	:3012
accounting-export	QuickBooks IIF / CSV	:3013
verae-middleware	Zapier <code>/zapier/v1</code> , chain, NATS	:3100
NATS JetStream	Private jobs / archive	:4222 not public
worm ×3, tree-node ×3	Off-chain files and Merkle leaves	fleet floor
fleet	Replica floors, SSH hosts, Trace, Docs	:3850 on 0.0.0.0

Zapier cloud talks **only** to **access-zapier** (:3024) over HTTPS. Browsers use access-web. Customer API keys use access-api. Staff use access-staff. zappier-edge is loopback.

The billing and user platform is the standalone **zappier** project (/Users/marchon/zappier , Forgejo [zappier-edge](#)): portal signup, TOTP, API keys, rate card, Stripe meter, PO invoices, admin users. Verae middleware does **not** replace it.

15-minute lab (one machine)

NS1 is Proxmox. Extra worm/tree LXC: [verae-proxmox](#) [create-worker.sh](#) (VMID 510, [10.10.10.20](#)). Off-box watch: [verae-uptime](#). Backup: [verae-backup](#). Tagged upgrade: [verae-deploy](#).

Bare metal / VM (Debian or Alpine): install OS + Node first, then clone.

```
git clone ssh://git@git.georgelambert.org:2223/marchon/verae-bootstrap.git
cd verae-bootstrap
bash scripts/host-deps.sh --type ns1-all-in-one
export VERAЕ_SRC=$HOME/verae-src
bash scripts/fetch.sh ns1-all-in-one
```

Docker lab from the monorepo:

```
git clone ssh://git@git.georgelambert.org:2223/marchon/master-zapier-plan-draft.git
cd master-zapier-plan-draft
export MONOREPO="$PWD"
cd packages/verae-ops
docker compose up --build
```

Check:

```
curl -fsS http://127.0.0.1:3000/health # zappier-edge (billing + users)
curl -fsS http://127.0.0.1:3010/health # account-balance (NATS SoT)
curl -fsS http://127.0.0.1:3011/health # customer-service
curl -fsS http://127.0.0.1:3012/health # sales-pricing
curl -fsS http://127.0.0.1:3100/health # middleware
```

Open:

- Customer portal (public door): <http://127.0.0.1:3021/portal/> — sign up, copy `x-api-key`, **Statement** tab
- Loopback edge admin: <http://127.0.0.1:3000/admin> — **Statement** per customer (not a public door)
- Staff IAM: <http://127.0.0.1:3028/>
- CS review: <http://127.0.0.1:3011/>
- Sales review: <http://127.0.0.1:3012/>
- Accounting review/export: <http://127.0.0.1:3013/>
- API docs: <http://127.0.0.1:3000/docs>

Test env NATS is the **three LXC cluster** on `vmbr1`:

```
nats://10.10.10.21:4222,nats://10.10.10.22:4222,nats://10.10.10.23:4222
```

Host loopback `:4222` may still listen but modules no longer use it. Do **not** publish NATS on `vmbr0`.

Operator console (monitor)

On the same machine (or SSH tunnel `ssh -L 3850:127.0.0.1:3850 user@host`):

```
cd "$MONOREPO/packages/verae-fleet"
node src/cli.js serve
```

<http://0.0.0.0:3850/> — Fleet (green/yellow/red), Trace, Docs. Tree-node **min 3**; pause does not count. On NS1, `verae-keep` restarts workers if they crash unless you paused/stopped them here.

```
node src/cli.js status
node src/cli.js ssh-check ns1
```

Point Zapier at the lab

1. TLS in front of `:3000` (Caddy).
2. Zapier app env: `MIDDLEWARE_BASE_URL=https://<zapper-host>` (edge meters, then proxies to middleware).
3. Connect with the portal API key.

Production (pick one)

Where	Read
Docker	02-docker.pdf
Proxmox	03-proxmox.pdf
Cloud VMs	04-virtual-servers.pdf
Dedicated / NS1	05-dedicated-hardware.pdf
Env vars & NATS	06-linking-services.pdf
Backup / upgrade	07-maintenance.pdf

Daily monitor

Check	Expect
<code>curl -fsS https://zapier.example.com/health</code>	200
<code>curl -fsS https://middleware.example.com/health</code>	200
NATS <code>http://127.0.0.1:8222/healthz</code> on each node	ok (localhost only)
Fleet tree-node available ≥ 3	green
Portal login + key still works	200 <code>/v1/status</code> with <code>x-api-key</code>

If something is red

1. Fleet row color: yellow = paused/degraded, red = below floor — `restart` that replica.
2. 401/402 from Zapier → zapier-edge keys and rate card, not NATS.
3. Archive lookup empty → bloom miss is **silence**; check worm/tree floors, not “error replies”.