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VERAE TIME × ZAPIER

01 dependencies

site/packages/verae-ops/01-dependencies.md

1. Dependencies and data flow

```

Humans / Zapier cloud
  | HTTPS x-api-key
  ▼
zappier-edge :3000    (meter, portal, admin, Stripe)
  | HTTPS internal
  ▼
middleware-http :3100 (/zapier/v1)
  |
  ├── HTTPS → api.veraetime.net    (or MOCK_VERAE)
  └── NATS → private cluster
          jobs.watch / jobs.events
          webhooks.deliver
          archive.put / query / reply.*
          |
          archive-worm × N    tree-node × N
          archive-aggregator  job-poller
                              webhook-deliver

```

Repositories (clone all that you run)

Prefix `ssh://git@git.georgelambert.org:2223/marchon/<name>.git` (SSH **2223**).

You need	Repo	Catalog README
Billing HTTPS	<code>zappier-edge</code>	https://zapier.georgelambert.org/packages/zappier/README.pdf
Zapier adapter	<code>verae-middleware</code>	https://zapier.georgelambert.org/packages/verae-zapier-middleware/README.pdf
Zapier app (cloud)	<code>verae-zapier-app</code>	https://zapier.georgelambert.org/packages/verae-zapier/README.pdf
WORM nodes	<code>verae-archive-worm</code>	https://zapier.georgelambert.org/packages/verae-archive-worm/README.pdf
Merkle leaves	<code>verae-tree-node</code>	https://zapier.georgelambert.org/packages/verae-tree-node/README.pdf
Archive merge	<code>verae-archive-aggregator</code>	https://zapier.georgelambert.org/packages/verae-archive-aggregator/README.pdf
Splitter	<code>verae-request-splitter</code>	https://zapier.georgelambert.org/packages/verae-request-splitter/README.pdf
Replica floors	<code>verae-fleet</code>	https://zapier.georgelambert.org/packages/verae-fleet/README.pdf
This install guide	<code>verae-ops</code>	https://zapier.georgelambert.org/packages/verae-ops/README.pdf

Optional: `verae-activate` (tiny pushable app), `verae-zapier-simulator` (trace), `overview`, `zapier-docs-master`, `zapier-user-docs`, `verae-nats-process`.

Runtime dependencies

Service	Needs
zappier-edge	Node 20+, SQLite path or volume, <code>PORT</code> , optional Stripe keys
middleware	Node 22+, <code>NATS_URL</code> or <code>NATS_ENABLED=false</code> , chain URL or <code>MOCK_VERAE</code>
NATS	JetStream, no public bind
worm / tree-node	Node, <code>NATS_URL</code> , local state dir
fleet	Node, <code>machines.json</code> (SSH paths), loopback <code>:3850</code>
Zapier cloud app	<code>MIDDLEWARE_BASE_URL</code> = public HTTPS of zappier-edge (or middleware if you skip metering in lab)

Ports (lab defaults)

Port	Bind	Process
3000	public or docker publish	zappier-edge
3100	public or docker publish	middleware
4222	private only	NATS client
6222	private only	NATS cluster
8222	private / localhost	NATS monitor
3847	loopback	simulator
3850	loopback	operator console

Chain: `https://api.veraetime.net` (prod) or `MOCK_VERAE=true` (lab).