

zapier.georgelambert.org · Markdown indexes

VERAE TIME × ZAPIER

Operator console

packages/verae-fleet/docs/CONSOLE.md

Operator console

Operator UI at **http://0.0.0.0:3850/** (all interfaces). Fleet, Trace (simulator), and Docs in one shell. NATS stays private (`127.0.0.1:4222`); SSH identity files stay on disk.

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

Tabs

Tab	Purpose
Fleet	Machines (SSH/local), replica floors, green/yellow/red, RTT spark. Replica and service actions live in one … overflow menu. Power column shows on/paused/off as status, not toggles. Add-machine roles are chips.
Trace	In-process Zapier simulator: run a step, hop log, monitors/suggestions
Docs	Reading order: overview → module summaries → architecture → remaining docs

Screenshots

OPERATOR LAN · BINDS 0.0.0.0:3850

Verae operator console

Fleet, message trace, and docs in one shell. HTTP listens on all interfaces; NATS stays private. Pause does not count toward replica floors. SSH keys stay on disk.

Fleet

Trace

Docs

probe 2026-09-11T21:58:12.858Z · NATS nats://127.0.0.1:4222 · HTTP 0.0.0.0:3850

MACHINES

id

host

kind

user

ssh port

identity file

capacity

ns1-b

70.88.205.138

ssh

marchon

22

~/ssh/id_ed25519

8

roles

tree-node

archive-worm

archive-aggregator

job-poller

webhook-deliver

nats

edge

Add machine

local

OPERATIONAL

Control plane (this host)

127.0.0.1

local · 12/32 running · 12 avail

RTT ms 0 / 0 / 0 / 0 n=200

disable

ns1

OPERATIONAL

NS1.GEORGEAMBERT.ORG

marchon@70.88.205.138

ssh · 8/24 running · 8 avail

TREE-NODE ARCHIVE-WORM ARCHIVE-AGGREGATOR JOB-POLLER WEBHOOK-DELIVER

RTT ms 0 / 0.1 / 0.1 / 0.1 n=1600

disable ssh-check

lan-134

DEGRADED

70.88.205.134

marchon@70.88.205.134

ssh · 0/12 running · 0 avail

TREE-NODE ARCHIVE-WORM

disable ssh-check

SERVICES

SERVICE	HEALTH	FLOOR	RTT	INSTANCES	POWER
access-api Direct customer API access	OPERATIONAL	1 / min 1		UP access-api-0 @local :3022 ...	ON ...
access-authz Access-plane authorization	OPERATIONAL	1 / min 1		UP access-authz-0 @local :3020 ...	ON ...
access-leaf Server-to-server NATS leaf access	OPERATIONAL	1 / min 1		UP access-leaf-0 @local :3023 ...	ON ...
access-web Direct customer web access	OPERATIONAL	1 / min 1		UP access-web-0 @local :3021 ...	ON ...
access-zapier Zapier Platform access plane	OPERATIONAL	1 / min 1		UP access-zapier-0 @local :3024 ...	ON ...
account-balance Account balance (NATS billing SoT)	OPERATIONAL	1 / min 1		UP account-balance-0 @local :3010 ...	ON ...
accounting-export Accounting export (QuickBooks)	OPERATIONAL	1 / min 1		UP accounting-export-0 @local :3013 ...	ON ...
archive-aggregator Archive reply aggregator	OPERATIONAL	1 / min 1	RTT ms 0 / 0.1 / 0.1 / 0.1 n=200	UP archive-aggregator-0 @ns1 :13400 ...	ON ...
archive-worm Bloom-filtered WORM archive	OPERATIONAL	3 / min 3	RTT ms 0 / 0.1 / 0.1 / 0.1 n=600	UP archive-worm-0 @ns1 :13500 ... UP archive-worm-1 @ns1 :13501 ... UP archive-worm-2 @ns1 :13502 ...	ON ...
customer-service Customer-service credits and review	OPERATIONAL	1 / min 1		UP customer-service-0 @local :3011 ...	ON ...
job-poller Job poller worker	OPERATIONAL	1 / min 1	RTT ms 0 / 0.1 / 0.1 / 0.1 n=200	UP job-poller-0 @ns1 :13200 ...	ON ...
middleware-http Verae Zapier HTTP middleware	OPERATIONAL	1 / min 1		UP middleware-http-0 @local :3100 ...	ON ...
nats NATS JetStream (NS1 loopback)	NOT OPERATIONAL	0 / min 1		none	OFF ...
sales-pricing Sales per-customer pricing	OPERATIONAL	1 / min 1		UP sales-pricing-0 @local :3012 ...	ON ...
tree-node Merkle tree-node archive	OPERATIONAL	3 / min 3	RTT ms 0 / 0.1 / 0.1 / 0.1 n=600	UP tree-node-0 @ns1 :13600 ... UP tree-node-1 @ns1 :13601 ... UP tree-node-2 @ns1 :13602 ...	ON ...
webhook-deliver Zapier REST Hook deliverer	OPERATIONAL	1 / min 1	RTT ms 0 / 0 / 0 / 0 n=200	UP webhook-deliver-0 @local :13300 ...	ON ...
zapier-simulator Zapier interface simulator + trace console	OPERATIONAL	0 / min 0		none	OFF ...
zapier-edge Zapier commercial HTTPS edge	OPERATIONAL	1 / min 1		UP zapier-edge-0 @local :3000 ...	ON ...

Fleet

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OPERATOR LAN - BINDS 0.0.0.0:3850

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FleetTraceDocs

ZAPIER STEP (SIMULATOR)

Action

Create Timestamp and Wait

Data / batch lines

invoice-1001
invoice-1002
invoice-1003

SHA256

fa14b9f107d4ab25725090bebc80c7dd04956

Public metadata JSON

{ "source": "zap" }

☐ includeAttached ☐ includeTree

FAULTS

Orange is inject-only — not the product brand.

☐ 402 ☐ drop events ☐ recover

Run stepReset worldBatch Merkle

Lookup leafLookup tree

RESPONSE

{
 "jobId": "86a3267f-2831-44b3-97df-3cd4d536f57a",
 "status": "completed",
 "sha256": "fa14b9f107d4ab25725090bebc80c7dd049568056c40061d21fbaa0b6e3b9550",
 "existing": true,
 "receipts": [
 {
 "kind": "seal",
 "timestamp": "2026-09-11T21:55:47.287Z",
 "certificate": "mock-cert-86a3267f",
 "blockIndex": 1,
 "jobId": "86a3267f-2831-44b3-97df-3cd4d536f57a",
 "sha256": "fa14b9f107d4ab25725090bebc80c7dd049568056c40061d21fbaa0b6e3b9550"
 }
],
 "files": [],
 "archivesQueried": false,
 "archiveReplies": 0
}

HOP TRACE

0ms → zapier-platform-app perform zapier://action/timestamp_and_wait - Zapier cloud perform(z, bundle). HTTPS only.
0ms → zapier-edge auth HTTPS x-api-key
0ms → zapier-edge meter HTTPS → middleware - Rate card × tier - monthly credit
0ms → middleware-http POST /zapier/v1/timestamp/wait HTTPS /zapier/v1/timestamp/wait
0ms → verae-request-splitter splitRequest in-process - Chain gets hash only. Files/meta → archive.put
0ms → verae-chain-client lookup HTTPS api.verae.net (MOCK) - Already sealed - original receipt, no second write
0ms → middleware-http publish verae.zapier.jobs.watch
0ms → job-poller consume verae.zapier.jobs.watch
0ms → job-poller GET status HTTPS api.verae.net/status
0ms → job-poller publish verae.zapier.jobs.events
0ms → middleware-http wait verae.zapier.jobs.events
0ms → middleware-http response HTTPS 200
0ms → zapier-platform-app output zapier://action/timestamp_and_wait - Returned to Zap step / task history

MONITORS

OPERATIONAL 13 hops · 0 errors

Trace

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Fleet Trace Docs

Reading order: high-level first, then architecture, then the rest. Catalog defaults to colored PDFs. Operator HTTP binds all interfaces; NATS does not.

[Open CONSOLE.pdf](#) · [PDF catalog](#) · [Markdown indexes](#)

HIGH-LEVEL (START HERE)

Overview
Whole system in plain language.
[Open PDF](#)

Modules and repositories
Short names of every independent repo.
[Open PDF](#)

docs-master
One-line SUMMARY + NATS for each module.
[Open PDF](#)

User guide
Signup → register → lookup (non-operator).
[Open PDF](#)

ARCHITECTURE

NATS.IO 3-server cluster
Loopback NATS, not a public bus.
[Open PDF](#)

Uptime / replica floors
Pause does not count toward floors.
[Open PDF](#)

Local network failures
What the monitors flag.
[Open PDF](#)

Address routing
Access planes to internal subjects.
[Open PDF](#)

Diagrams
System, cluster, routing.
[PDF](#) [SVG](#)

Composition
How packages sit together.
[Open PDF](#)

Module NATS map
Subjects per repo.
[Open PDF](#)

Archive / bloom
WORM nodes.
[Open PDF](#)

Tree nodes
Merkle proofs for hashes.
[Open PDF](#)

Fleet
Replica floors and spawn.
[Open PDF](#)

REMAINING DOCUMENTATION

Full index
Every remaining document.
[Open PDF](#)

Expansion template
New verae.* worker.
[PDF](#) [repo](#)

Zapier developer setup
Platform CLI, not a customer surface.
[Open PDF](#)

Simulator README
Hop-by-hop lab.
[Open PDF](#)

verae-fleet repo
Source for this console.
[Open repo](#)

Docs

Design tokens match the zappier portal/admin (indigo shell). Customer portal is unchanged.

See [overview](#).