

zapier.georgelambert.org · Markdown indexes

VERAE TIME × ZAPIER

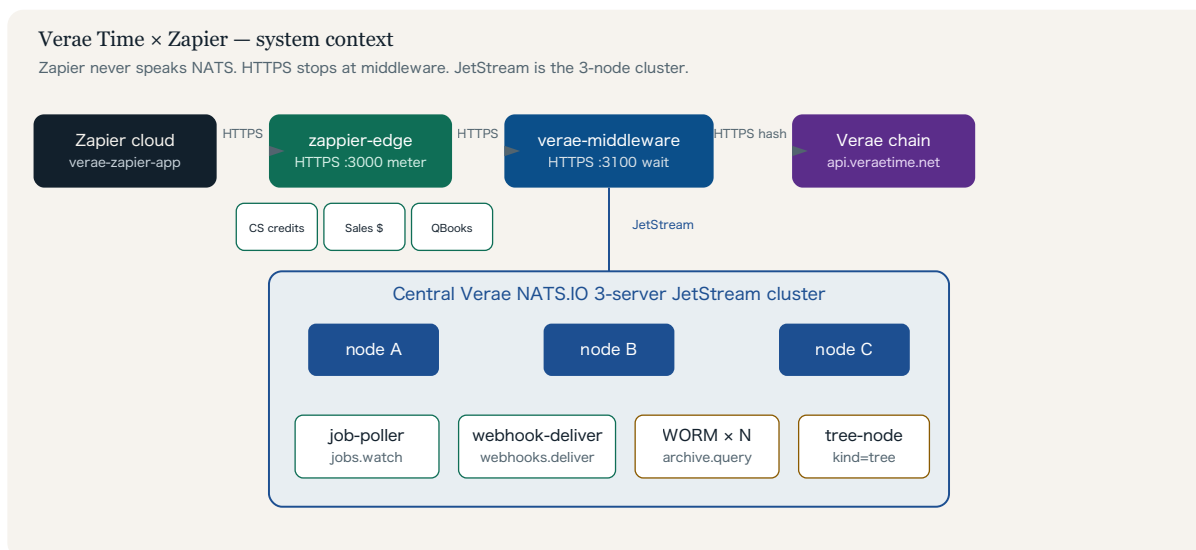
Architectural diagrams

site/packages/overview/88-diagrams.md

8. Architectural diagrams

SVG files in [diagrams/](#). The same shapes are repeated below in mermaid for Forgejo preview.

8.1 End-to-end (HTTPS vs NATS)

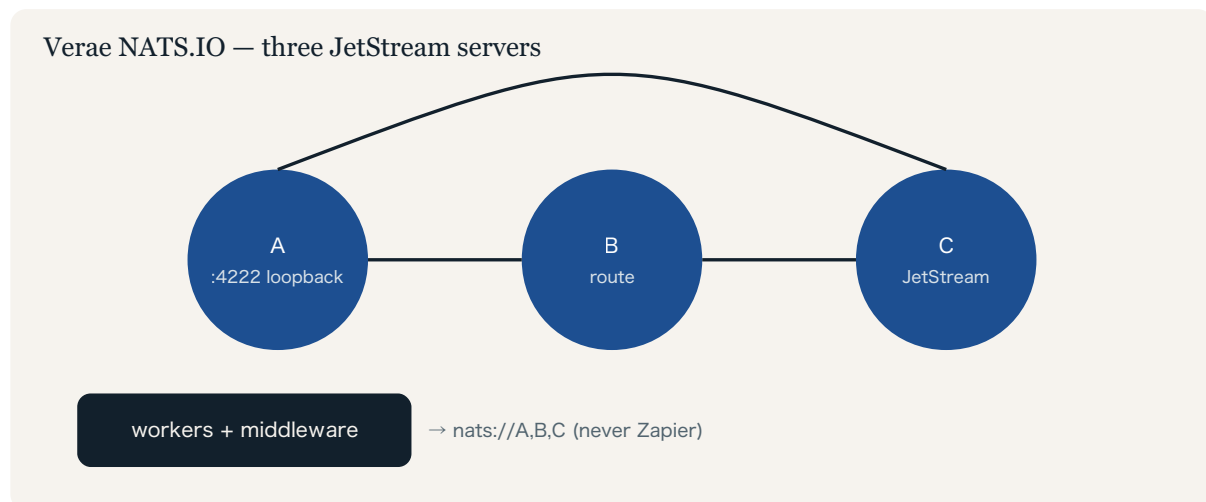


System

```

flowchart LR
    Z[Zapier cloud] -->|HTTPS plane=zapier| AZ[access-zapier]
    Web[customer browser] -->|HTTPS plane=web| AW[access-web]
    API[customer API] -->|HTTPS plane=api| AA[access-api]
    Leaf[S2S leaf] -->|verae.access.leaf.in| AL[access-leaf]
    AZ --> Authz[access-authz]
    AW --> Authz
    AA --> Authz
    AL --> Authz
    CS[staff CS/sales] --> Authz
    Authz -->|allow| N[NATS cluster]
    BAL[account-balance] --> N
    AZ -->|HTTPS| M[verae-middleware]
    M --> N
    N --> P[job-poller]
    N --> R[WORM]
    N --> T[tree-node]
    P --> C[Verae chain]
    M --> C
  
```

8.2 NATS.IO 3-server cluster



Cluster

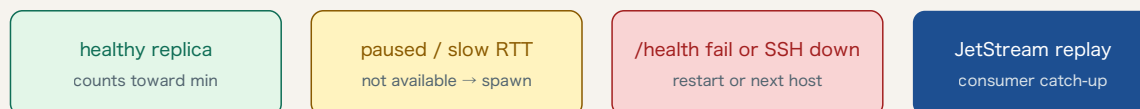
```

flowchart TB
  subgraph cluster [Verae NATS.IO JetStream]
    N1[nats-server A :4222 loopback]
    N2[nats-server B]
    N3[nats-server C]
    N1 <--> N2
    N2 <--> N3
    N3 <--> N1
  end
  MW[middleware + workers] -->|cluster URL list| cluster
  F[fleet SSH hosts] -->|workers only| cluster

```

8.3 Uptime and failure

Uptime: floors, restart, another machine



tree-node min=3 keepFloor

local + ns1 (marchon@70.88.205.138, ~/.ssh/id_ed25519). Least-loaded placement. Bloom miss = silence so a partitioned and Zapier only sees HTTPS 202 / wait JSON / REST Hook. Cluster majority of 3 NATS servers survives one node loss.

Uptime

```

flowchart TD
  H[health /health] -->|fail| R[restart instance]
  P[pause] -->|not available| F[keepFloor spawn]
  S[SSH host down] -->|spawn failed| O[place on next machine]
  Q[archive.query broadcast] -->|bloom miss| SIL[silence]
  Q -->|hit| REP[archive.reply.id]

```

8.4 New address = new process

New function = new address + clone of verae-nats-process

copy template repo
verae-nats-process

rename subjects
verae.area.resource.action

fleet min/max
keepFloor + machines

optional HTTPS
middleware only → Zapier

Existing: verae.zapier.jobs.* · verae.archive.put|query|reply.*

Unplanned search/store: verae.search.* or verae.store.* — same worker shape. Zapier never subscribes.

Broadcast queries: no queue group. Work queues: queue group. Bloom miss: no packet.

Routing

See [09-expansion-template.md](#).