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VERAE TIME × ZAPIER

Fleet replica floors and monitor

<site/docs/02-architecture/fleet.md>

Fleet: replica floors, monitor, pause, restart

Runtime copies of middleware workers, WORM archives, and **tree nodes** are declared in `packages/verae-fleet/fleet.json` (how many) and `packages/verae-fleet/services/*.json` (how each one runs).

```

operator --HTTP 127.0.0.1:3850--> fleet control
                                | spawn workers with /health
tree-node min=3 keepFloor      |
archive-worm min=3             |
paused ≠ available             |
unhealthy → restart            v
                                replicas on loopback health ports

```

Operator console (Fleet · Trace · Docs): <http://127.0.0.1:3850/> — see <packages/verae-fleet/docs/CONSOLE.md>.

- **list** — `node src/cli.js list`
- **monitor** — `serve` probes `/health` and reconciles
- **restart** — crash or 503 → same instance id respawned
- **pause / off** — pause does not count toward `min`; `keepFloor` starts another tree-node. `stop` on a service disables it.
- **tree-node floor** — `fleet.json` `tree-node.min` (default 3). Do not drop this without changing the spec; bulk-summary leaf queries need several bloom-filtered nodes.

Extra machines

Define hosts in `packages/verae-fleet/machines.json` (or **Add machine** on the monitor). Each machine has `capacity` and `roles` it may run. The supervisor places new replicas on the **least-loaded** eligible host.

- `kind: local` — spawn on the control plane.

- `kind: ssh` — `user@host` with `identityFile` (path only, e.g. `~/.ssh/id_ed25519`). Control plane `scp`s the worker and `ssh`es spawn/kill/health. Workers stay on `127.0.0.1` on the remote host; NATS is not published.
- `kind: agent` — HTTP to `http://host:agentPort` (`node src/agent.js` on that box).

Override credentials in gitignored `machines.secrets.json` (see `machines.secrets.json.example`). Never put private-key bytes in git.

`node src/cli.js ssh-check ns1` verifies login as `marchon@70.88.205.138`.

Raising `tree-node.max` and adding machines increases bulk-summary lookup capacity.

Message RTT (planning)

The monitor samples `POST /message` on each healthy replica and shows **min / avg / p50 / p90** milliseconds of message processing (service row, instance, and machine). Use p90 when sizing extra tree nodes.

Zapier cloud is not spawned. NATS is monitored, not bound publicly.