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VERAE TIME × ZAPIER

Proxmox

site/packages/verae-ops/93-proxmox.md

3. Proxmox (LXC and QEMU)

Target: one **NATS cluster VM/CT** (or three), one **HTTPS edge VM**, one or more **worker VMs**.

Fleet SSH-spreads worm/tree-node onto worker hosts.

Suggested guests

Guest	OS	vCPU / RAM / disk	Role
nats-a nats-b nats-c	Debian 12 LXC unprivileged	1 / 1G / 8G	JetStream, bind 127.0.0.1 or a vmbr private bridge only
edge	Debian 12 QEMU	2 / 2G / 20G	Caddy + zappier-edge + middleware
worker-1 ...	Debian 12 LXC	2 / 2G / 20G	fleet SSH target; worm + tree-node

Use a **private bridge** (`vmbr1` , RFC1918) for NATS 4222 / 6222 . Public `vmbr0` only on `edge` (80/443).

NATS on an LXC

```
apt-get update && apt-get install -y curl
# official nats-server binary
curl -sSL https://github.com/nats-io/nats-server/releases/latest/download/nats-server-v2.10.26-linux-amd64.tar.gz | tar -xzf-
install nats-server /usr/local/bin/
```

/etc/nats/nats.conf:

```
jetstream {}
listen: 10.10.10.11:4222      # private bridge, not 0.0.0.0 on public
cluster {
  name: verae
  listen: 10.10.10.11:6222
  routes: [ nats-route://10.10.10.12:6222, nats-route://10.10.10.13:6222 ]
}
http: 127.0.0.1:8222
```

systemd: `ExecStart=/usr/local/bin/nats-server -c /etc/nats/nats.conf`.

Edge VM

Install Node 22, clone `zapier-edge` and `verae-middleware`, Caddy reverse-proxy:

```
zapier.example.com {
  reverse_proxy 127.0.0.1:3000
}
middleware.example.com {
  reverse_proxy 127.0.0.1:3100
}
```

Middleware env: `NATS_URL=nats://10.10.10.11:4222,nats://10.10.10.12:4222,nats://10.10.10.13:4222`.

Fleet on Proxmox

On the operator workstation or a jump CT (loopback `:3850`):

`machines.json` entries: `kind=ssh`, `user=root` or `marchon`, `host=10.10.10.2x`, `identityFile=~/.ssh/id_ed25519` (**path only**). Roles: `tree-node,archive-worm`. Capacity ≥ 3 per worker if you want floors on one host.

`ssh-check` from the operator console before enabling `keepFloor`.