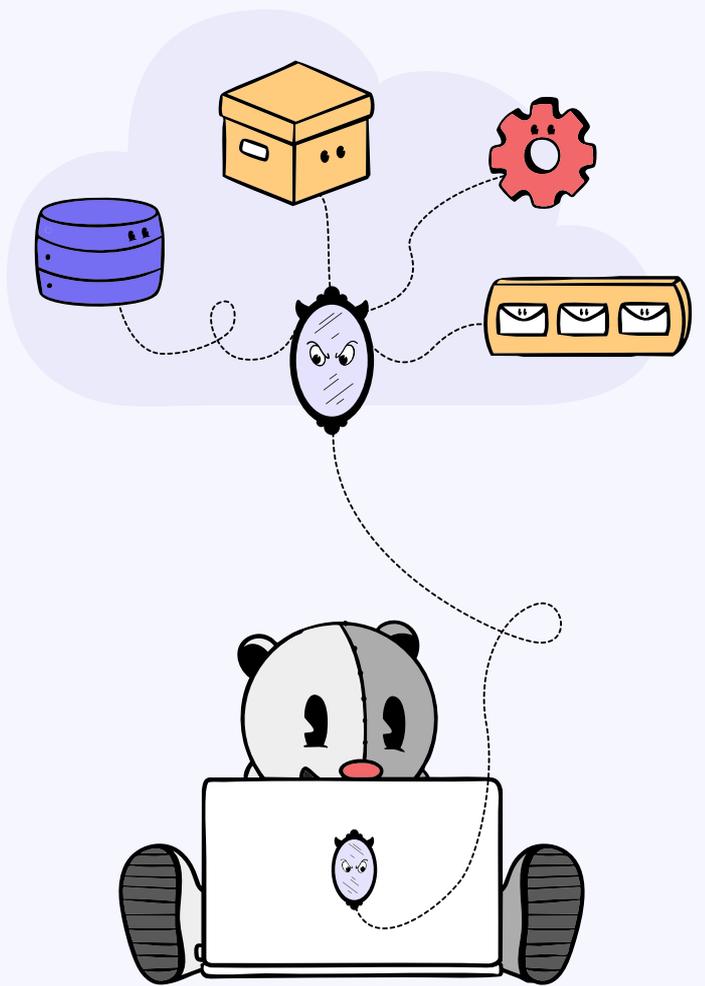


mirrord in a nutshell

Run your local process **in the context of your Kubernetes cluster** to develop and debug against real services, data, and traffic—without deploying.



Why it matters

Faster feedback loops

Test changes in seconds, not CI cycles.

Higher confidence

With more frequent, higher quality testing, fewer defects reach production.

Lower cost

Fewer per-dev environments to create and maintain.

A cartoon illustration of a person sitting at a laptop. A thought bubble above the person's head shows a network diagram with three nodes (yellow, blue, red) and arrows indicating connections. The person's laptop screen also displays a similar network diagram. The person's face is visible above the laptop.

How it works

- **A local mirrord layer** intercepts your app's I/O.
- **A lightweight agent** runs in the target cluster/pod.
- **Syscalls and traffic are proxied** so your local app behaves as if it's running in-cluster (env vars, files, ingress/egress).

Top features

- **Traffic Stealing:** Safely receive real inbound traffic.
- **Outgoing Control:** Choose which requests go via cluster vs. locally.
- **Queue Splitting:** Split messages between multiple clients and the cluster
- **Targetless Mode:** Start now, attach to a pod later.
- **Env & Files Merge:** Use remote env/files; keep selected ones local.
- **Inspection:** Observe requests and behavior for faster debugging.
- **DB Branching:** DB branch for safe development and testing DB migrations
- **RBAC Profiles/Policies:** Team guardrails and standardization.

Where it fits

- Works with **your current CI/CD and testing.**
- Ideal for **K8s microservices.**
- **No root access required;** CLI + IDE (VS Code/JetBrains) supported.

Proof

Used by teams such as **SurveyMonkey, Cadence, CoLab,** and **Personio,** who report shorter development cycles and higher throughput.