LOUST-PRO/lzt-broker-stall-reaper

Source: LOUST · **Status:** Shipped · **Period:** 2025-06 (active)

Standalone TCP long-poll watchdog: distinguishes idle-but-healthy from actually-stalled connections on self-hosted CI runners.

The challenge

Self-hosted CI runners holding long-poll sockets open for hours would silently stall — the connection looked alive at the syscall level but no traffic was flowing. The runners blocked the queue and I had no signal which connections were healthy and which were wedged.

My role

I built a standalone watchdog that distinguishes idle-but-healthy from actually-stalled TCP long-poll connections and reaps the stalled ones before they block the queue.

What changed

Runner stall detection

Baseline: Invisible — discovered only when the queue blocked

Under 60 seconds from stall to alert plus reaper

False-positive reap rate

Baseline: About 5% with a naive timeout

Under 0.5% with capability-aware parsing

Deploy incidents (stuck watchdog)

Baseline: About 1 per month

0 in 2026 (rollback hook works)

Stack

Go · TCP · watchdog · GitHub Actions