Tech Talks

HellOps

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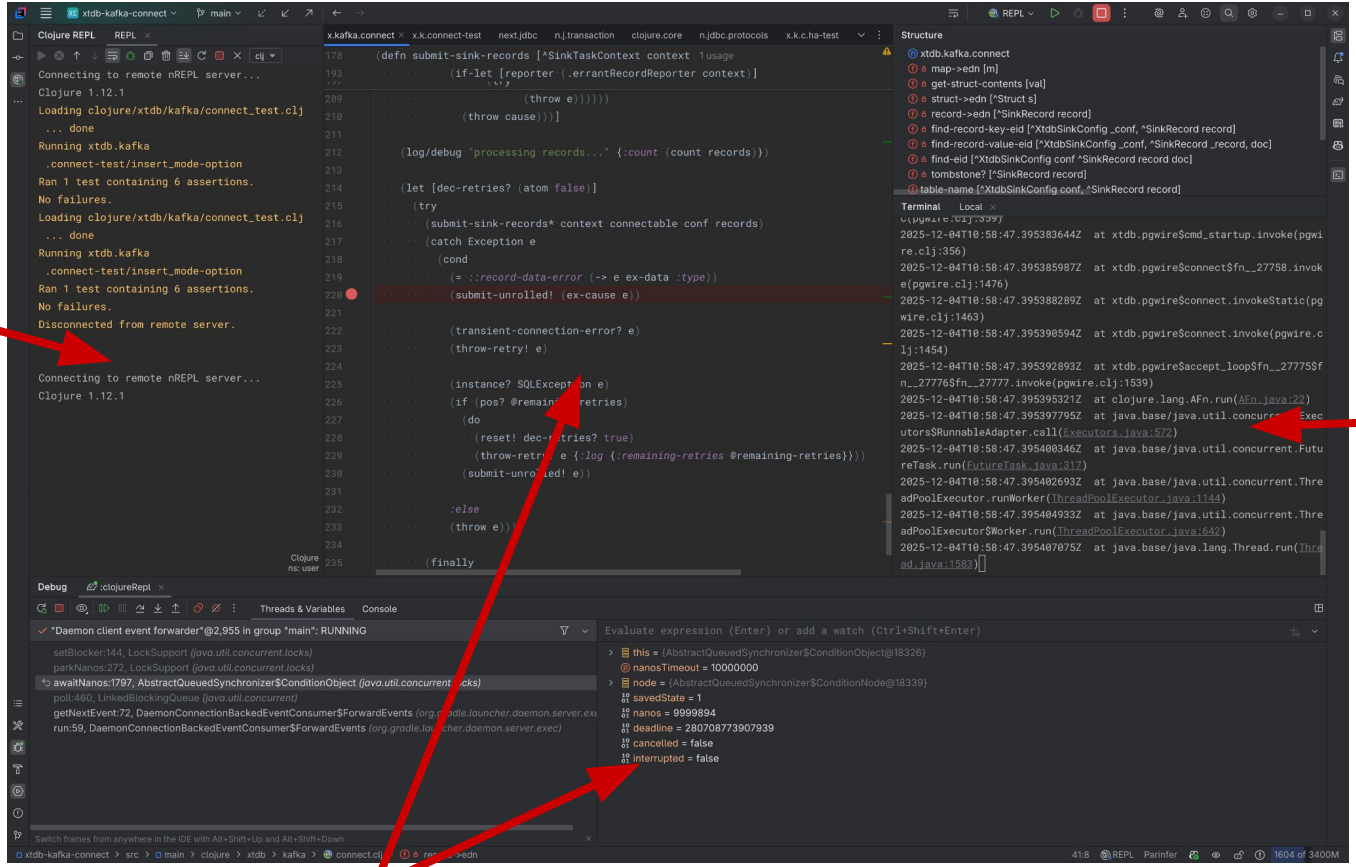
A little situation

Pager-duty. Woken up in the middle of the night…

In his laptop, finds an alert email, with a description of the problem, and a link

Clicks the link…

Running REPL



last server logs

IDE in debug mode, paused at the error site

What has happened in-between

Faulty server quarantined, ready for connect-and-debug.

Faulty server has been disconnected from backend servers.

Another instance has been spawn in production as a replace.

Further information within reach for the developer:

- User journey before the issue
- Cross-service trace
- Database snapshot at the time of the issue - see XTDB :)

There’s an issue with this story

I HAVE MADE IT UP

Sharing a feeling...

Developers are being kept a too disconnected from production use

DevOps

Originally

Devs are Ops are Devs
- in a single team

...but actually

We just call Ops
“DevOps”, cause IaC

IaC

Problem: may build a wall between production systems and developers:

- Ceremony and wait for changes
  - Particularly important for logging
- Changes causing full re-deploys
- Barriers for inspecting the running production system

In addition:

- Could introduce too much tooling, foreign to devs

Quote

Good developers write code, run tests, and push to production. They trust that if the tests pass and the build is green, their job is done. They view production as a distant, somewhat scary place that operations teams worry about.

Great developers have an intimate, ongoing relationship with production. They don't just ship code and forget it; they watch it walk out the door and follow it into the world. They treat the production environment not as a final destination, but as the ultimate source of truth about their code's behavior, performance, and value.

by thebitforge@dev.to
“10 developer habits…”

Production as your bench

Challenge your assumptions. Include asserts in your code

Schedule sanity checks

Add meaningful log events, execution data, and metrics:

- collect as detailed data as needed
- expose full histogram distributions, instead of percentiles
- tweak your logging levels until satisfied.

Run tests in production. Plan for having a part of the user base for tests. Build admin/technical UIs.

What can we do?

Do what you can from your position

Don’t accept established directly

Do not get trapped into static configurations

Look for solutions for security

Build functions into the software

Expected:

- Productivity
- Opening up new opportunities