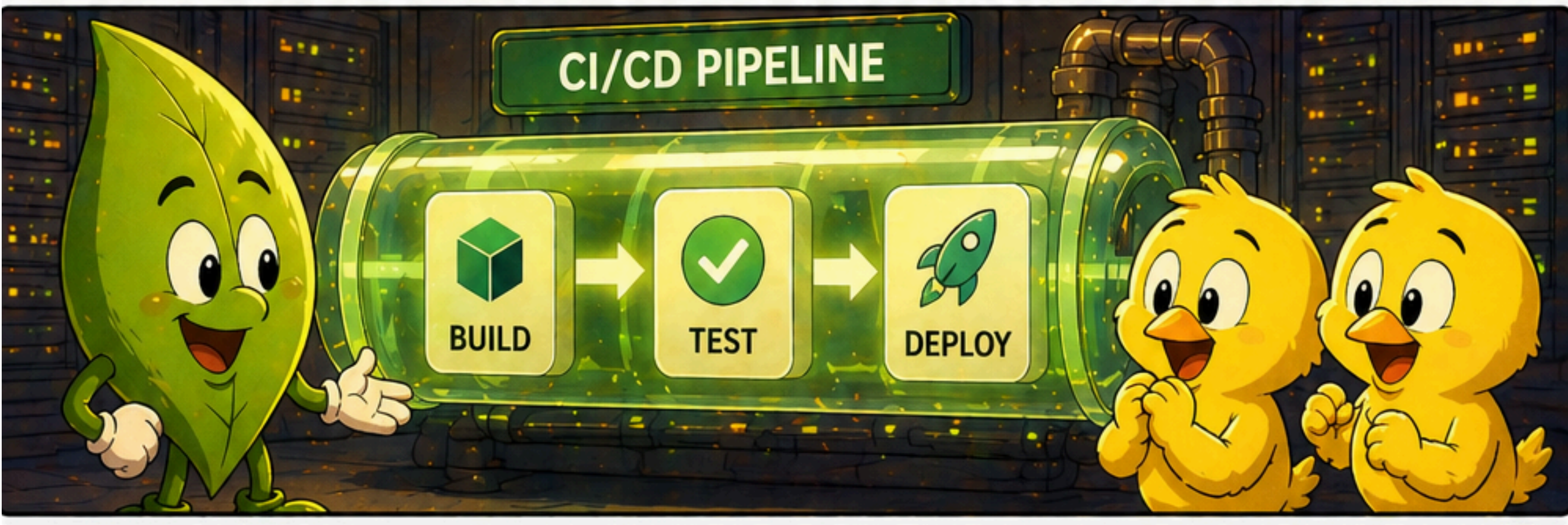
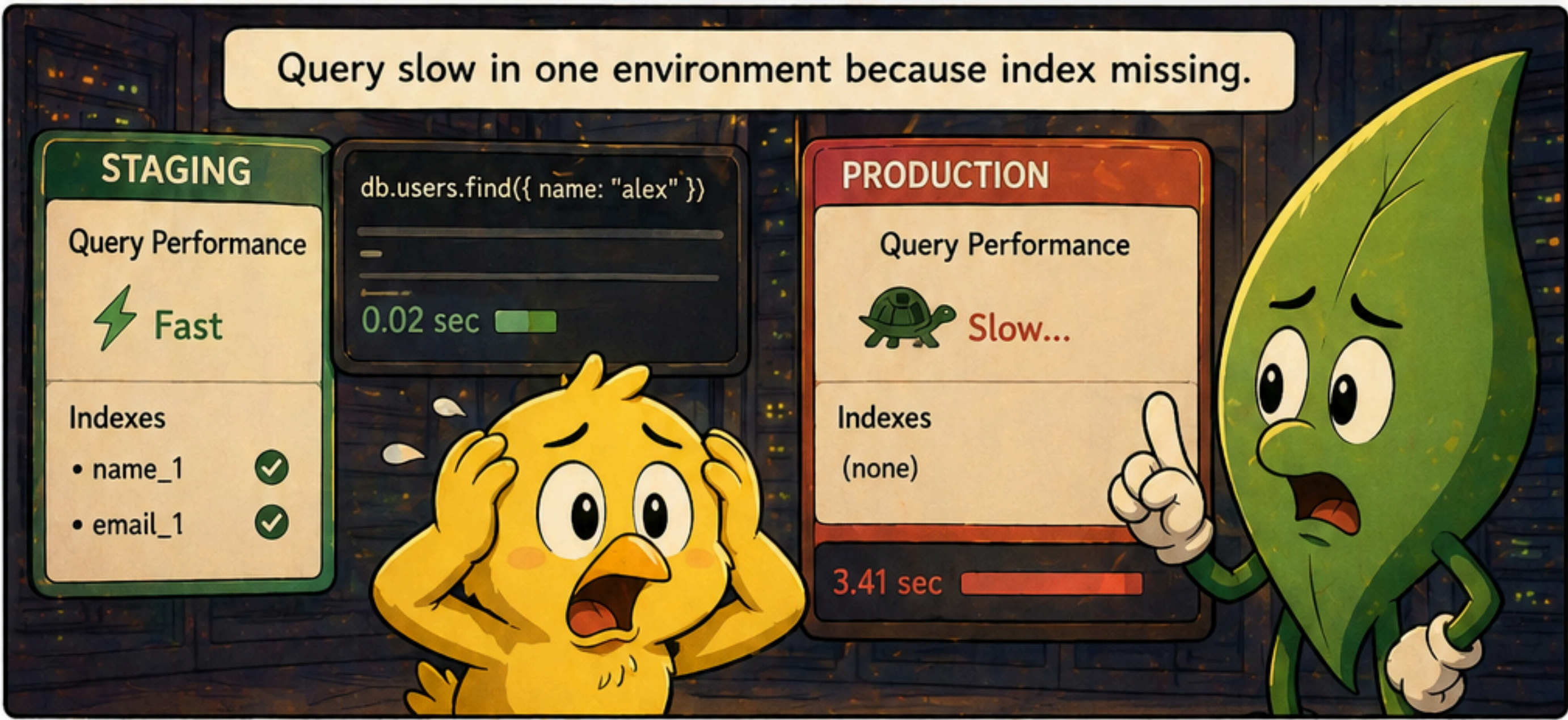
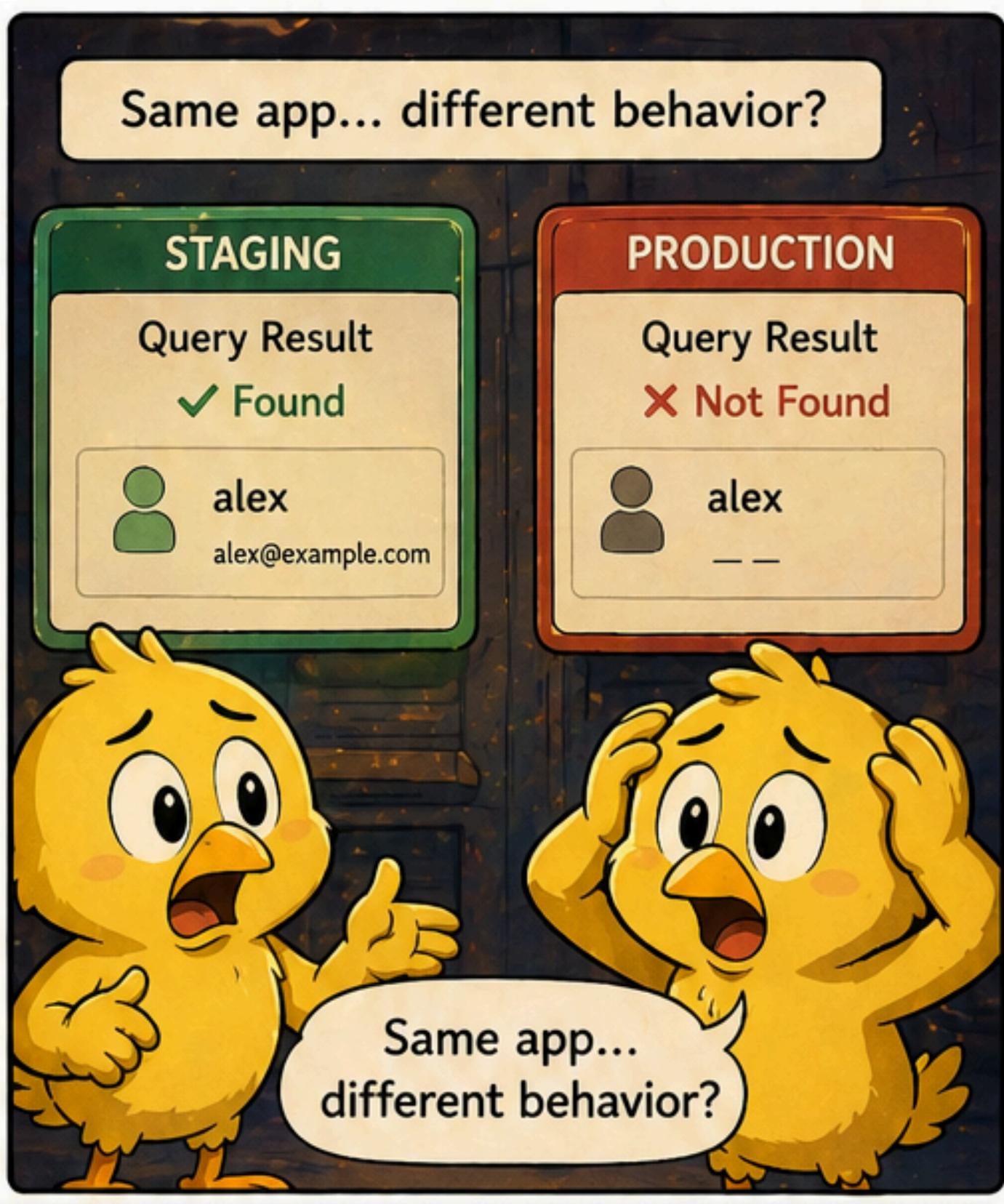


THE NOSQL STORM



Once upon a Night...





PRODUCTION ISSUES!

- ⚠ Missing fields
- ⚠ Broken migrations
- ⚠ Slow queries
- ⚠ Untracked scripts
- ⚠ Environment drift

This isn't a database problem.

This is a workflow problem.

We changed data... but never tracked the changes!

Query slow in one environment because index missing.

STAGING

Query Performance

⚡ Fast

Indexes

- name_1 ✓
- email_1 ✓
- createdAt_1 ✓

```
db.users.find({ name: "alex" })
```

0.03 sec

PRODUCTION

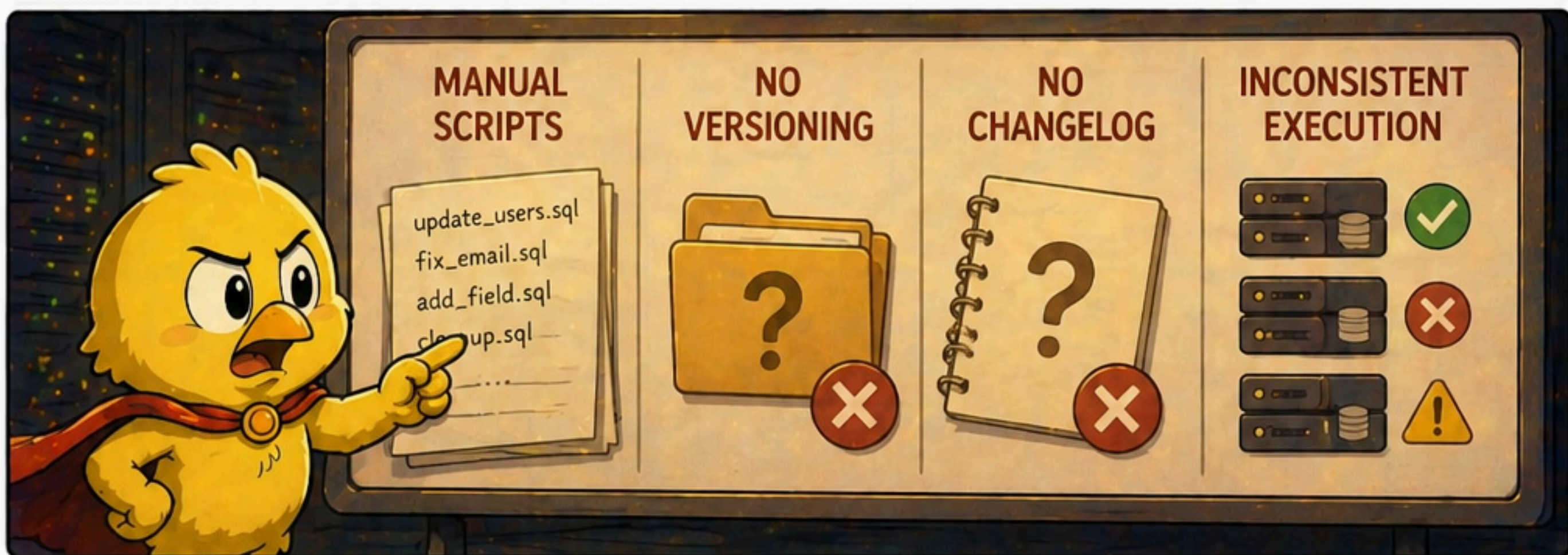
Query Performance

🐢 Slow...

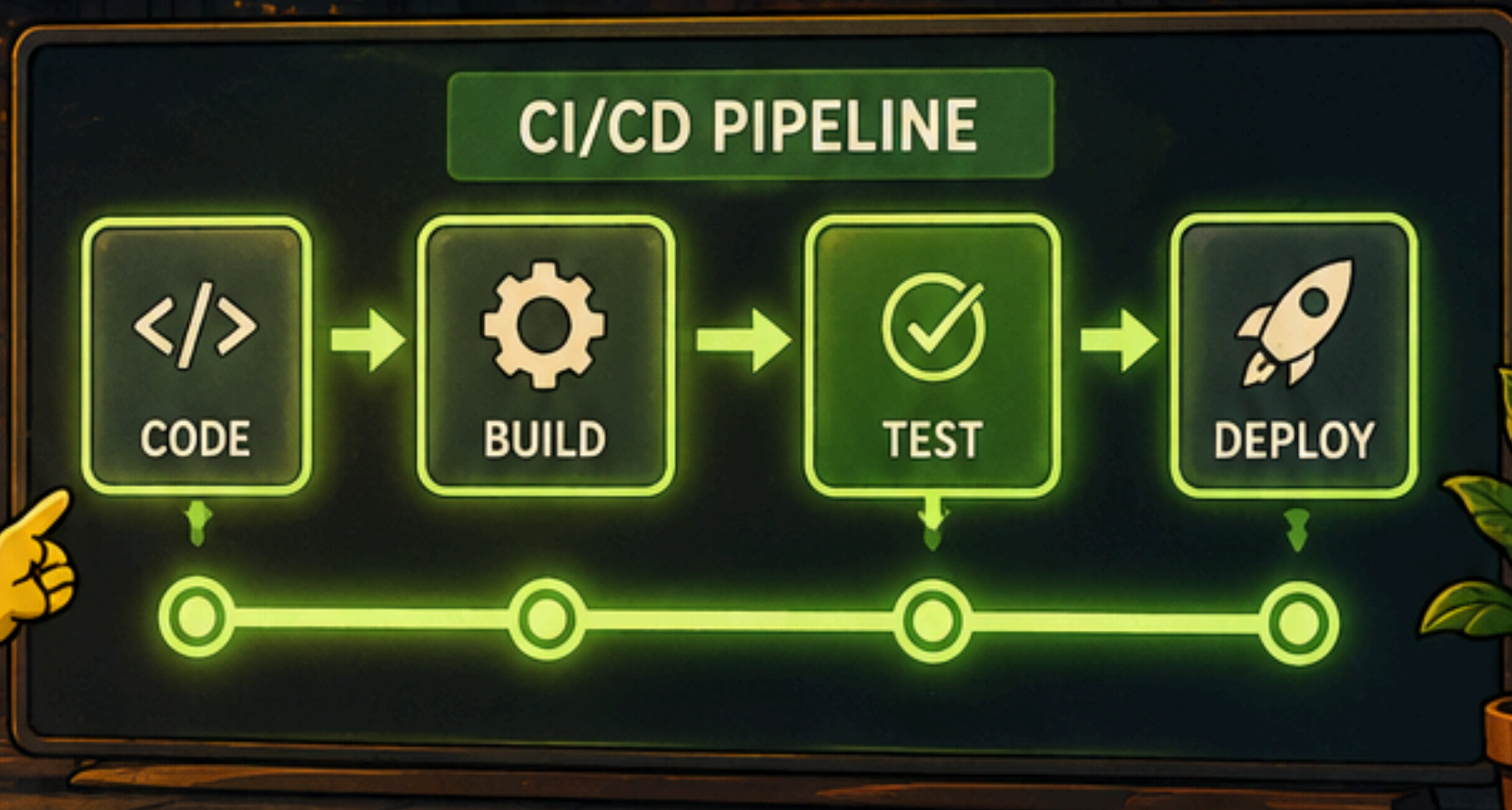
Indexes

(none)

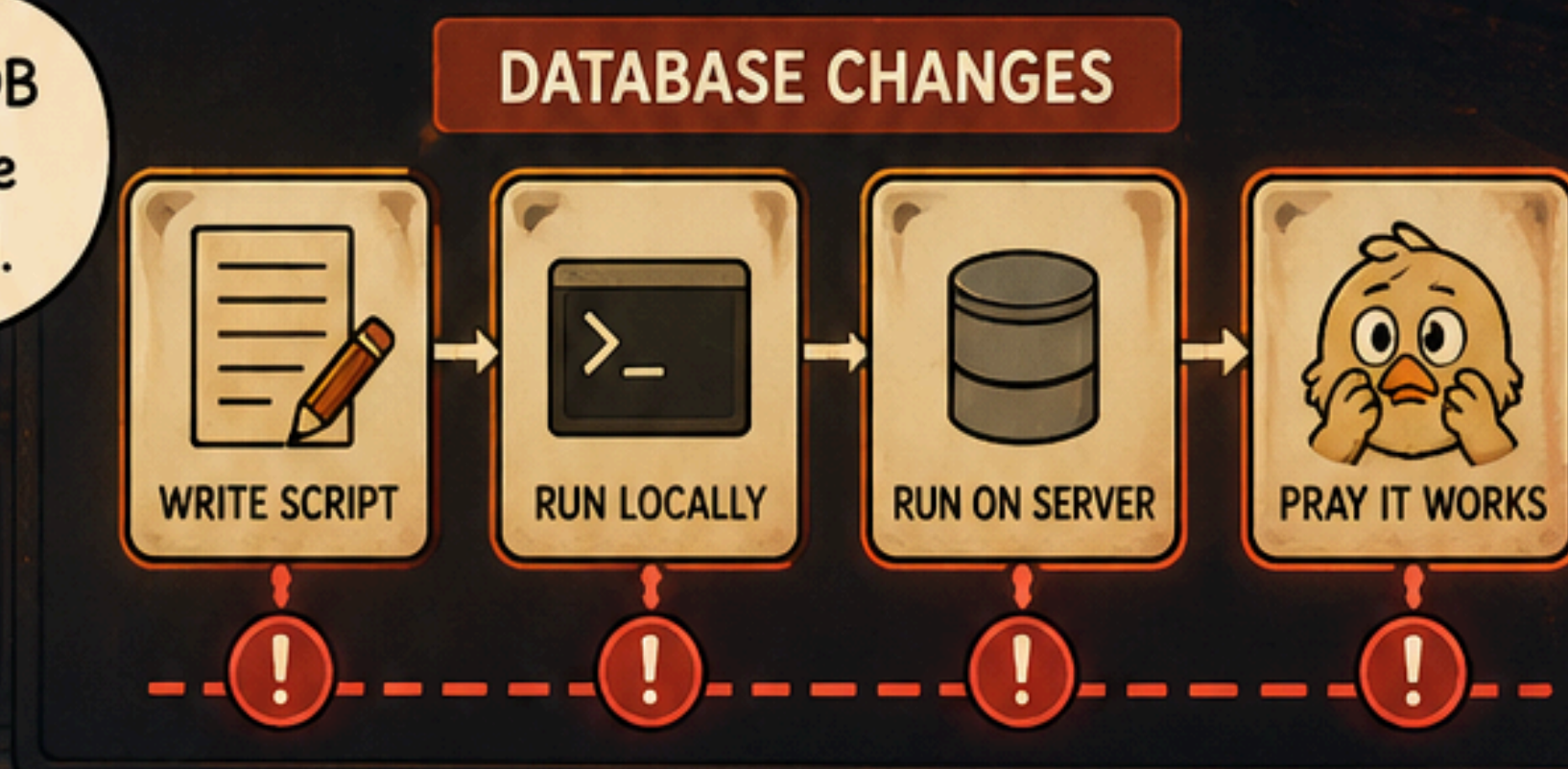
3.87 sec



We automated applications...



But MongoDB changes are still manual.



If only MongoDB changes could run naturally inside the pipeline...



I might have something for that.





1 CHANGELOG.YML

```
version: 2025-05-15
changes:
  - id: 001_add_status_field
    type: schema
    description: "Add status field to users collection"
  - id: 002_create_index
    type: index
    description: "Create index on users.email"
  - id: 003_migrate_data
    type: data
    description: "Backfill status for existing users"
```

We define changes clearly in a single changelog.



2 NATIVE MONGODB SCRIPT EXECUTION



Runs real MongoDB scripts, natively and safely.

3 VERSIONED MIGRATIONS



Every change is versioned, tracked, and repeatable.

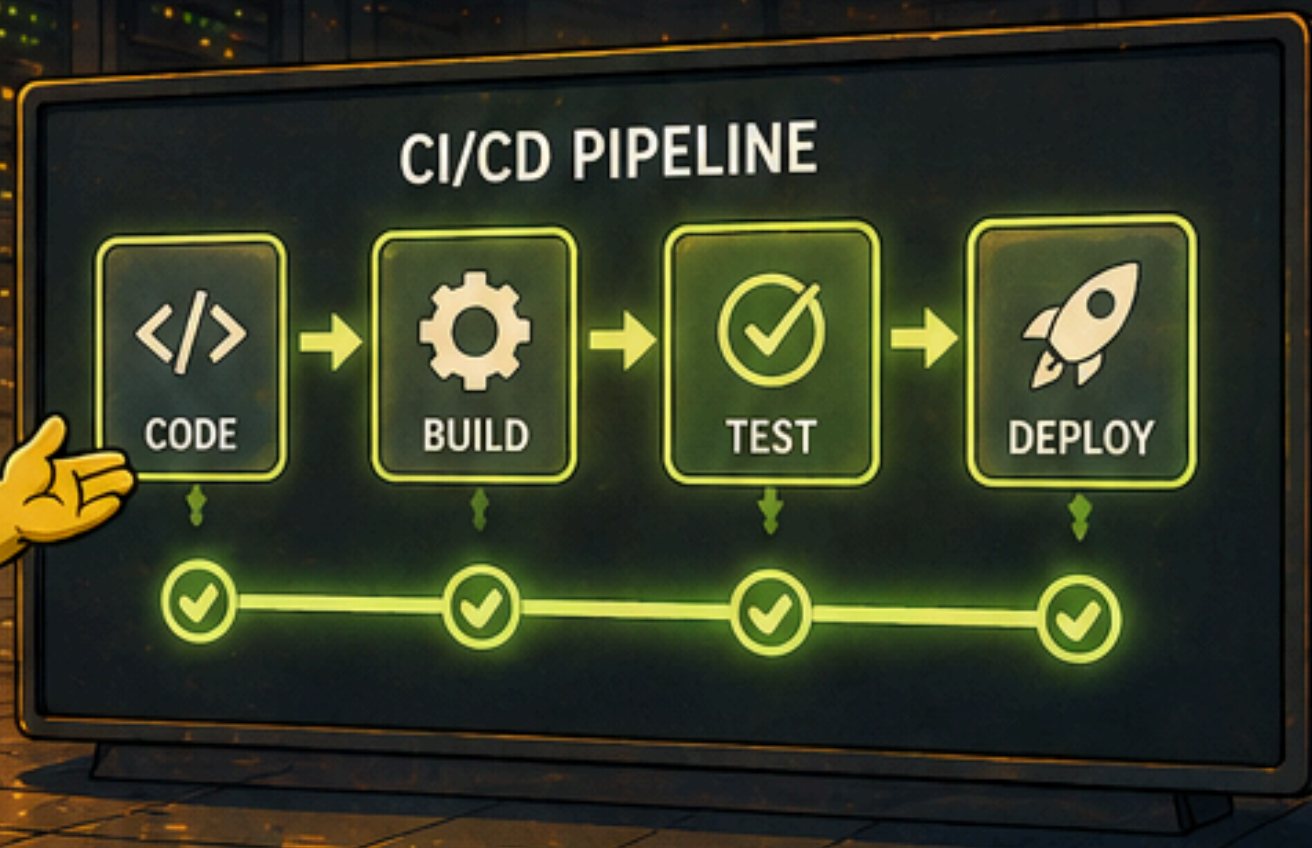
4 AUTOMATED WORKFLOWS



Database changes run automatically in the pipeline with full visibility and control.



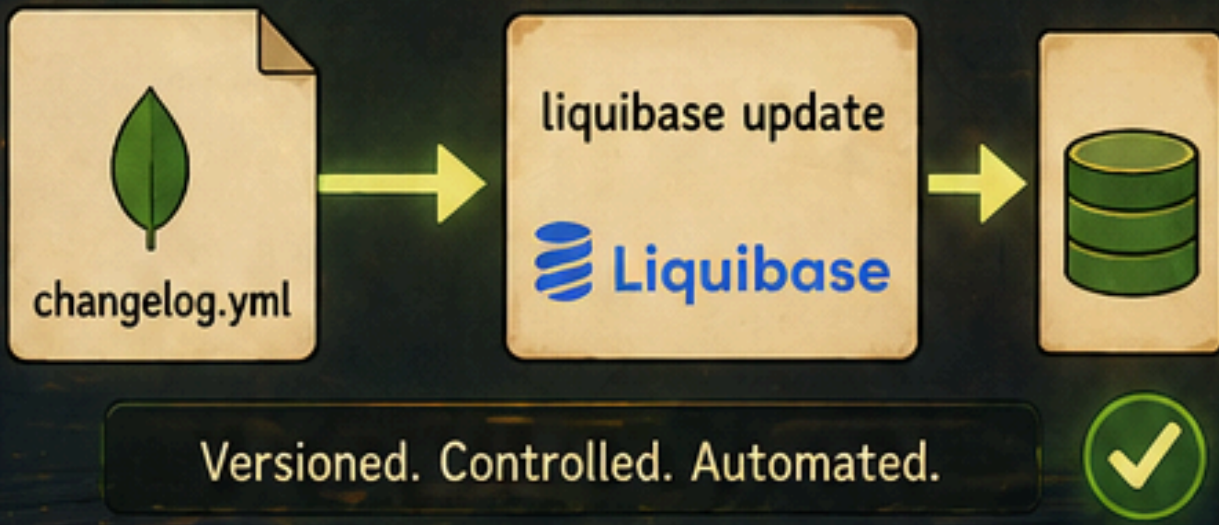
Everything stabilizes.



MONGODB CHANGES FLOWING THROUGH ENVIRONMENTS



DATABASE CHANGE MANAGEMENT

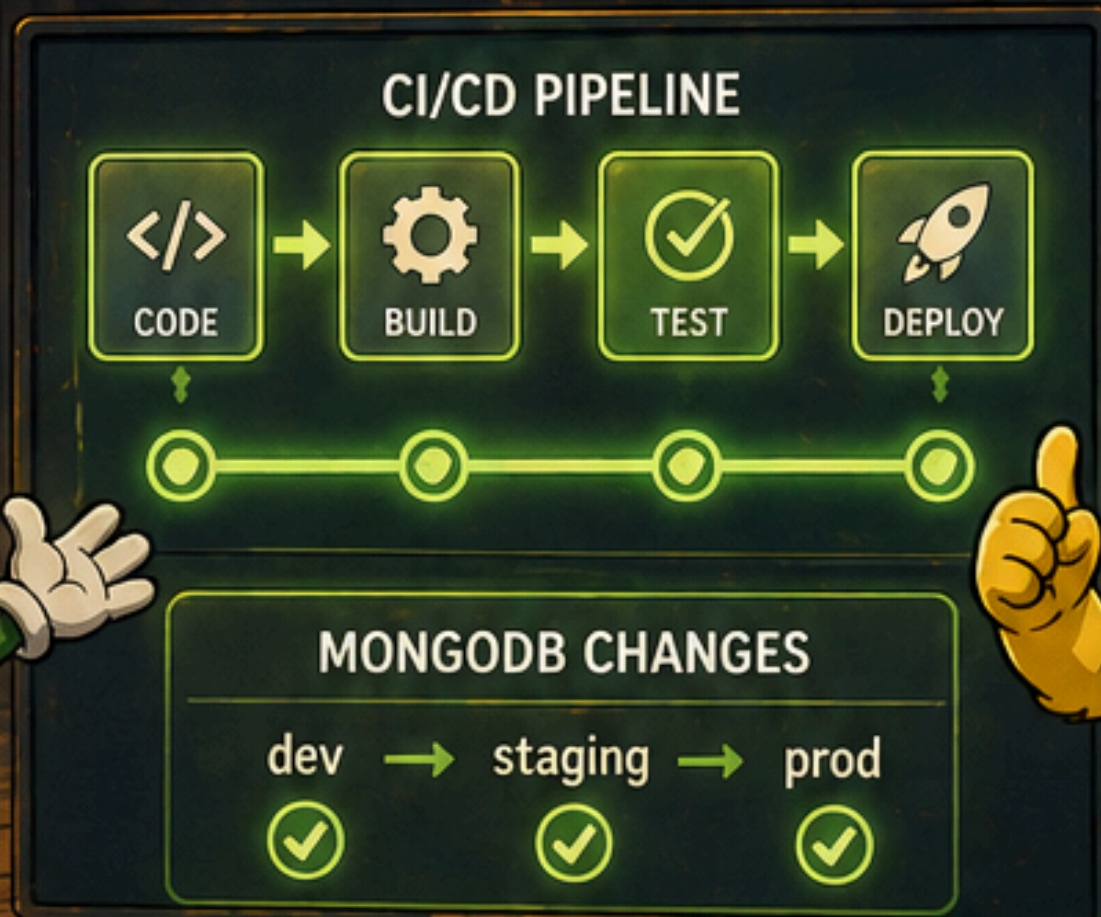


CHANGE EXECUTION (LIQUIBASE)

```
liquibase update
Reading changelog.yml
Validating changesets
Running changes...
Changes applied successfully
DATABASE UPDATE COMPLETE
```



Now every environment behaves the same!



That's real Database DevOps.

LESSONS LEARNED



NoSQL still needs versioning



Flexible schema \neq unmanaged schema



Native execution matters



CI/CD should include database workflows

Lessons Learned!

mongoDB

Now our changes are traceable and repeatable.



mongoDB

Build something that lasts.

LEARN MORE



PEACE RESTORED.



That felt... controlled.



Good recovery... Captain.



PIPELINE STATUS



MONGODB CHANGES

DEV ✓ liquibase update	STAGING ✓ liquibase update	PROD ✓ liquibase update
-------------------------------------	---	--------------------------------------

But drift is still out there.

DRIFT DETECTED

