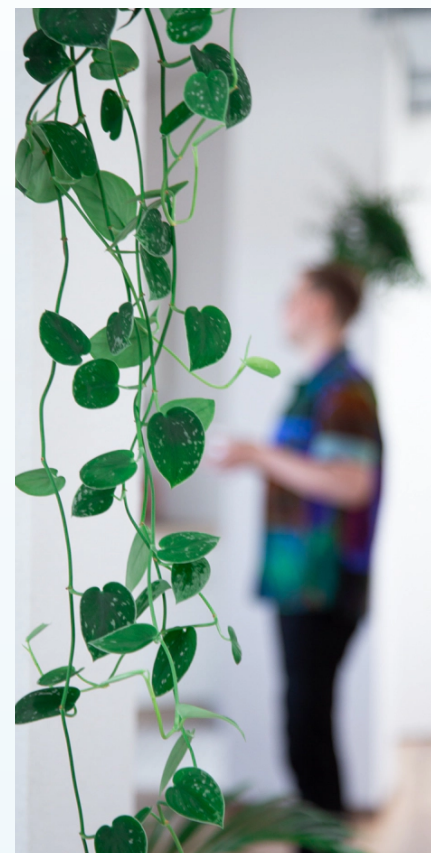


Configure Once, Run Everywhere

How and Why to Use a Common Configuration for
Dev, Testing, and CI Environments



About Garden

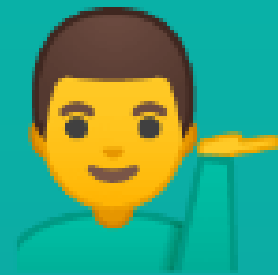
- Founded in 2018
- Headquartered in Berlin, Germany (with users and customers around the globe)
- We provide an automation platform for cloud native development and testing
- Open Core

My dislikes



- Frequent context switching
- Repetition
- Vagueness

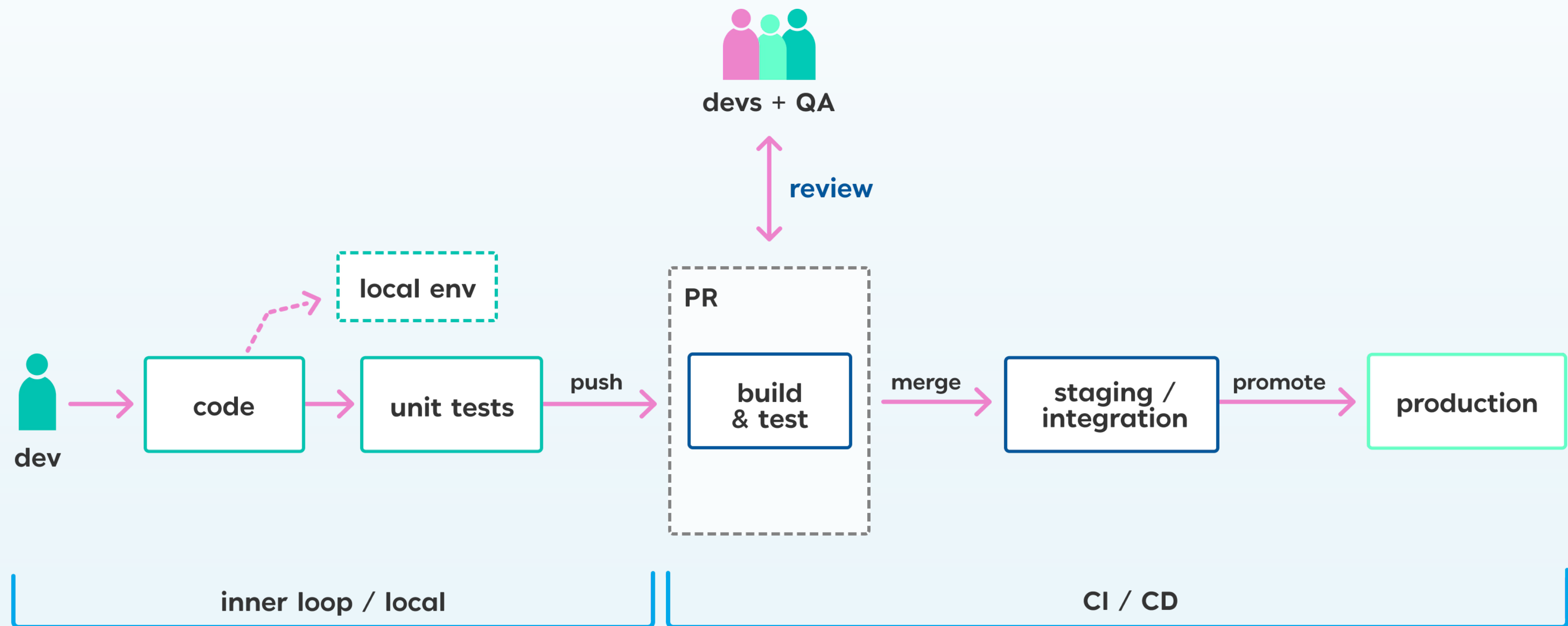
My
likes



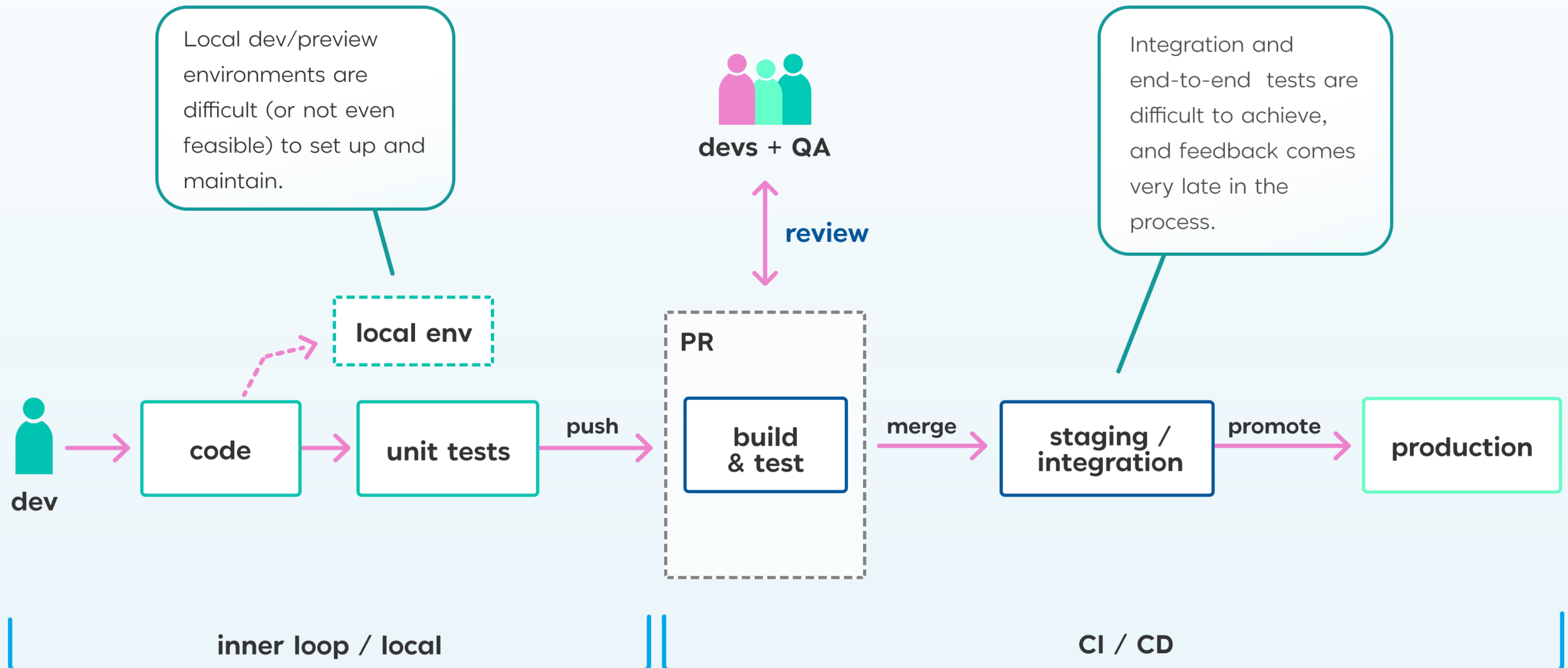
- Flow state
- Smoooooth automation
- Clarity and sincerity
- 80s Japanese synth-pop

**What makes the current
dev/CI/CD experience
less than ideal?**

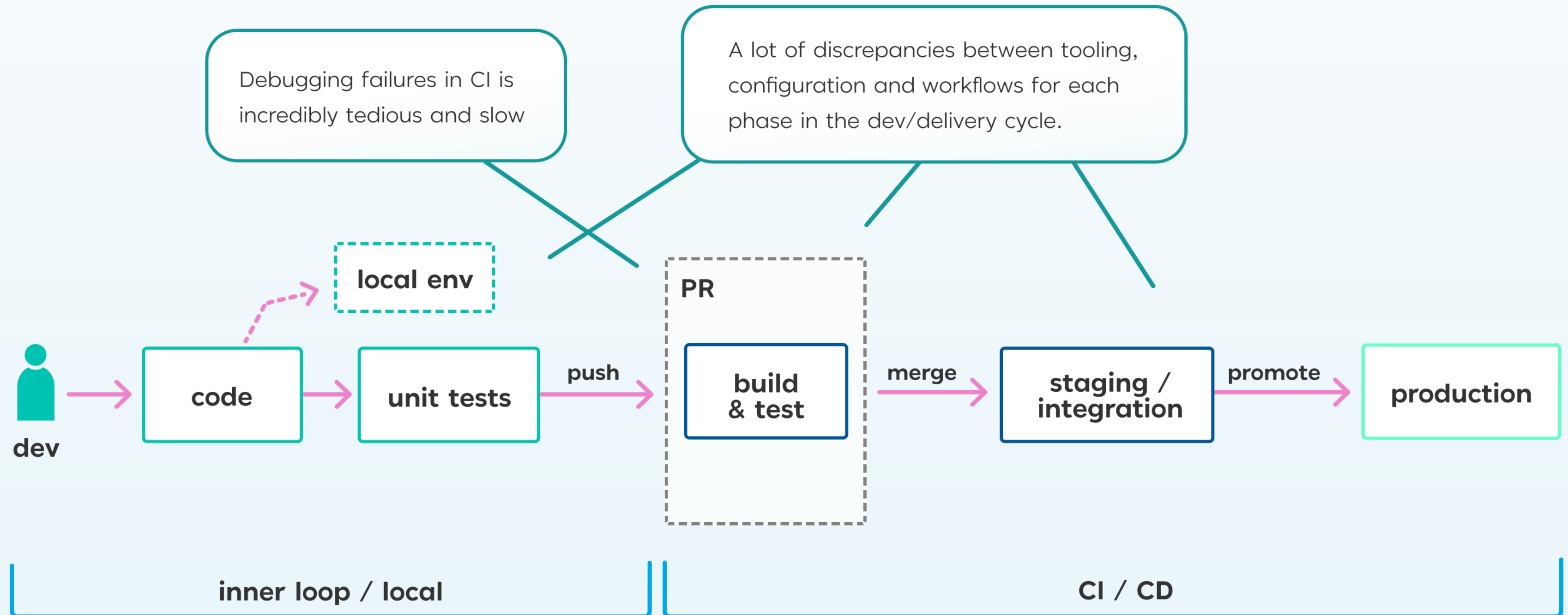
Problems with the traditional dev process

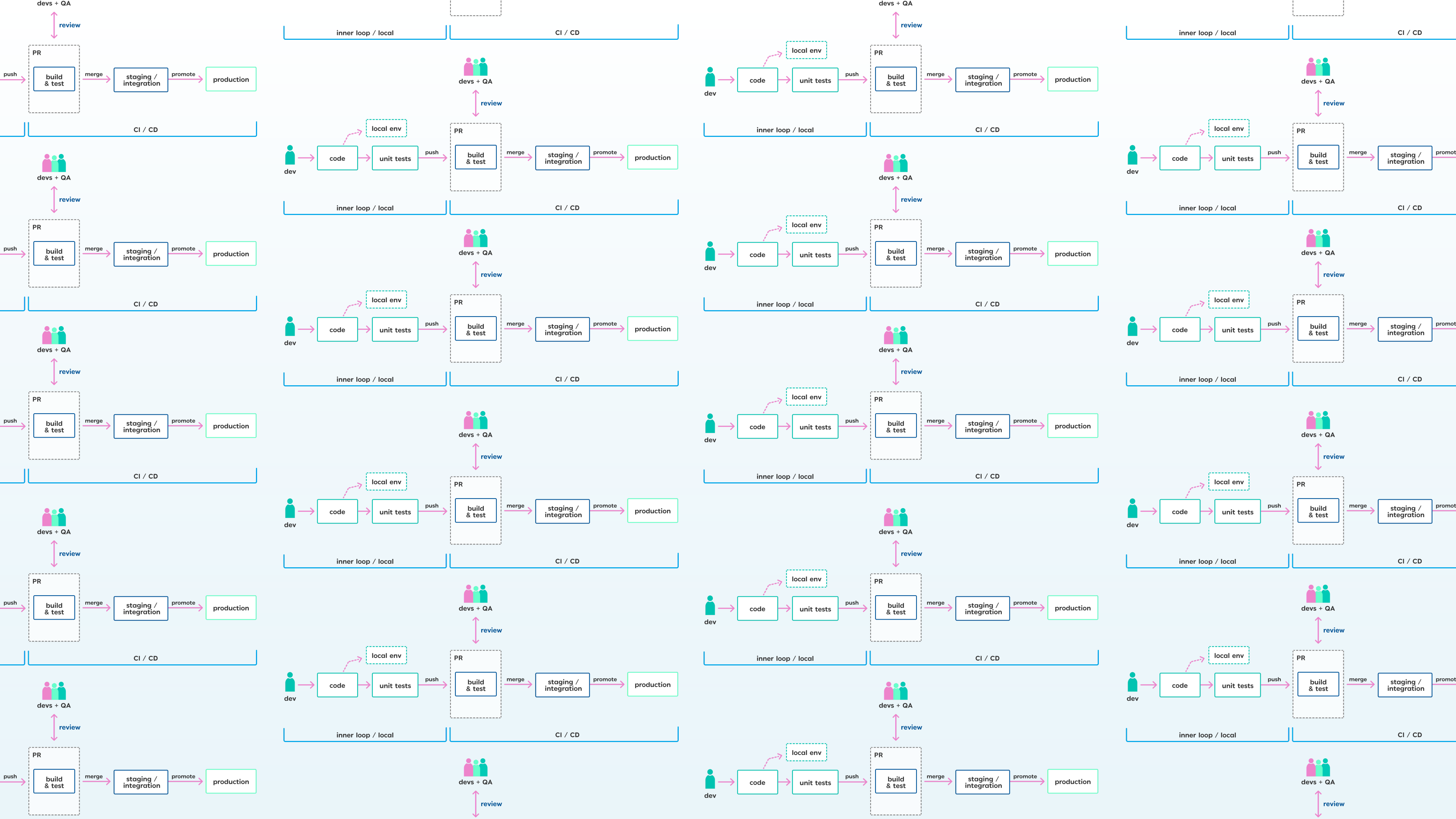


Problems with the traditional dev process



Problems with the traditional dev process





The Garden approach:
Configure Once, Run Anywhere



The Stack Graph

- Codify all the build and runtime dependencies across your project.
- Garden uses this to **only build, deploy and test what's affected by your changes**—so that devs don't need to wait for full pipeline runs for every little change.

Simple, distributed configuration

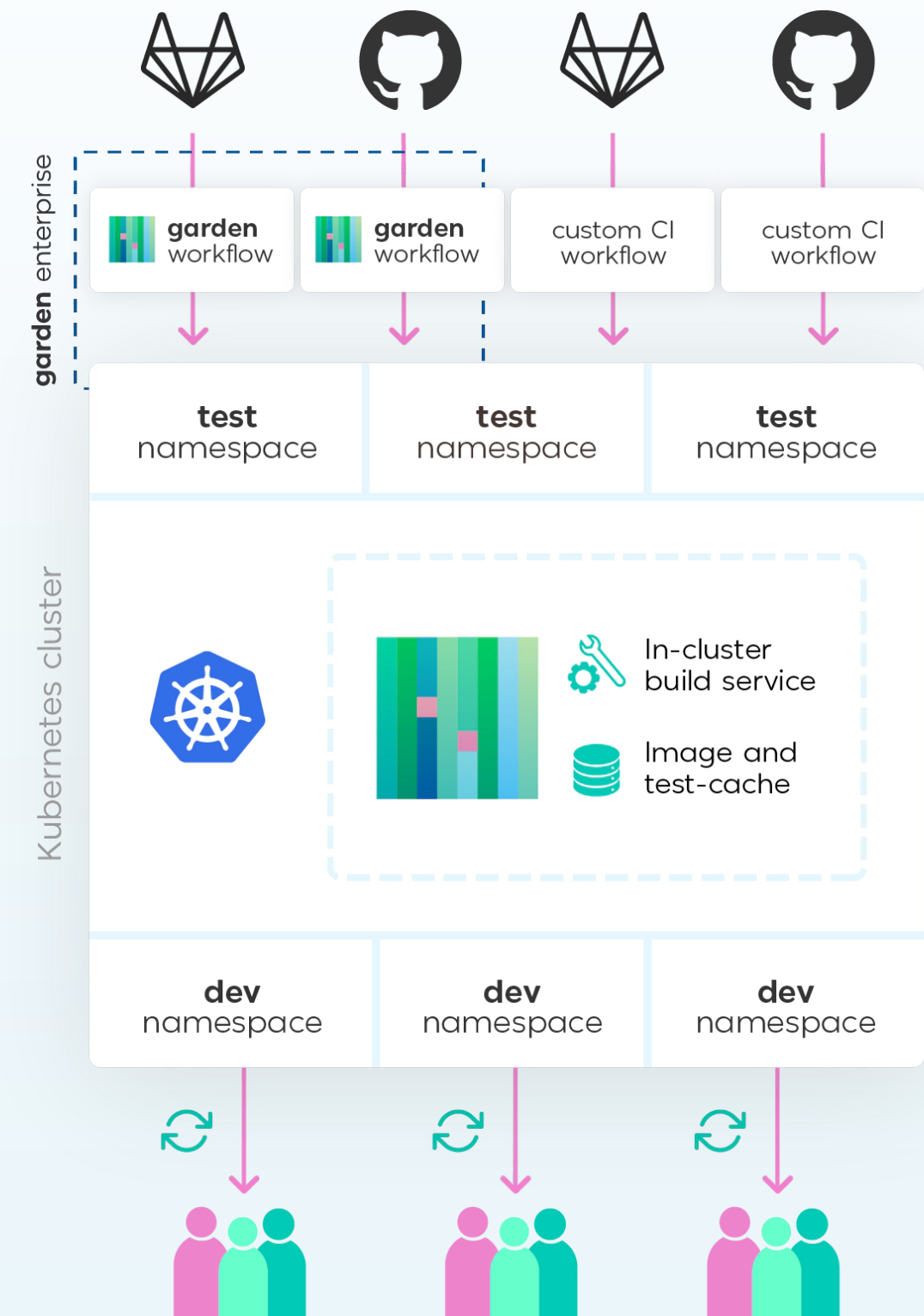
- Each component **describes itself**—
It's a distributed system, so your configuration shouldn't be monolithic.
- Powerful templating syntax.
- Define **your own abstractions**
through custom templates.

```
kind: Module
type: templated
template: api-service
name: users-api
inputs:
  servicePort: 8080
  ingressPath: /users
```

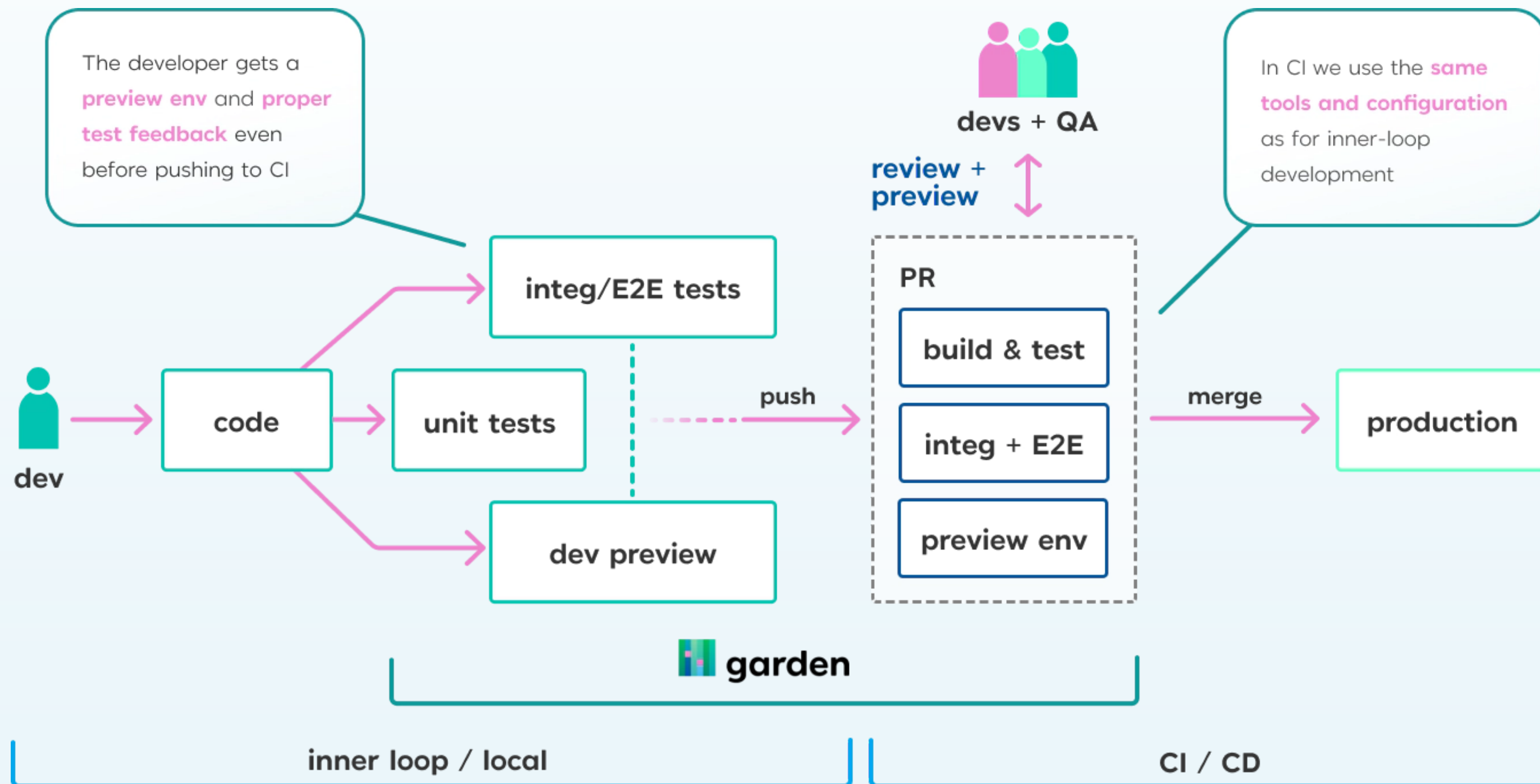
```
kind: Module
type: container
name: postgres
image: postgres:11.7-alpine
services:
  - name: postgres
    env:
      POSTGRES_USERNAME: ${secret.DB_USER}
      POSTGRES_PASSWORD: ${secret.DB_PASSWORD}
```

Same setup for dev and CI

- Run **garden deploy** or **garden test** — the same during development and in CI
- Use the same cluster for both, and get a **shared cache** between all your developers and pipelines
- Waste less time debugging CI



What this gives us



DEMO

A long list of benefits

- Production-like environments at every stage, on-demand
- Run all or individual integration tests at any stage, even before pushing to git.
 - Much faster to write and debug integ/e2e tests!
- No more pushing "asdfasdf" commits to CI for debugging
- Your build, test and deploy configuration is portable across CI systems
- Share build and test caches between developers and across dev + CI
- **Stay focused, stay in flow**

Wrapping up

- To get started: docs.garden.io
- We'd love to hear what you think! Please ask us questions along the way: community.garden.io
- We're hiring: garden.io/careers
- jon@garden.io / @JonEdvald



Thank you!

