

okteto

@oktetoHQ



Development Workflows

For Docker and Kubernetes



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Docker and Kubernetes



**Build once,
run
everywhere**



**Simplified
dependency
management**



**"Clean room"
environments**

Dynamic orchestration of resources



Common API across clouds



Our workflows over time

Our requirements



Replicable

Anybody can start a new environment in minutes



Fast

Don't break the dev flow due to technical choices



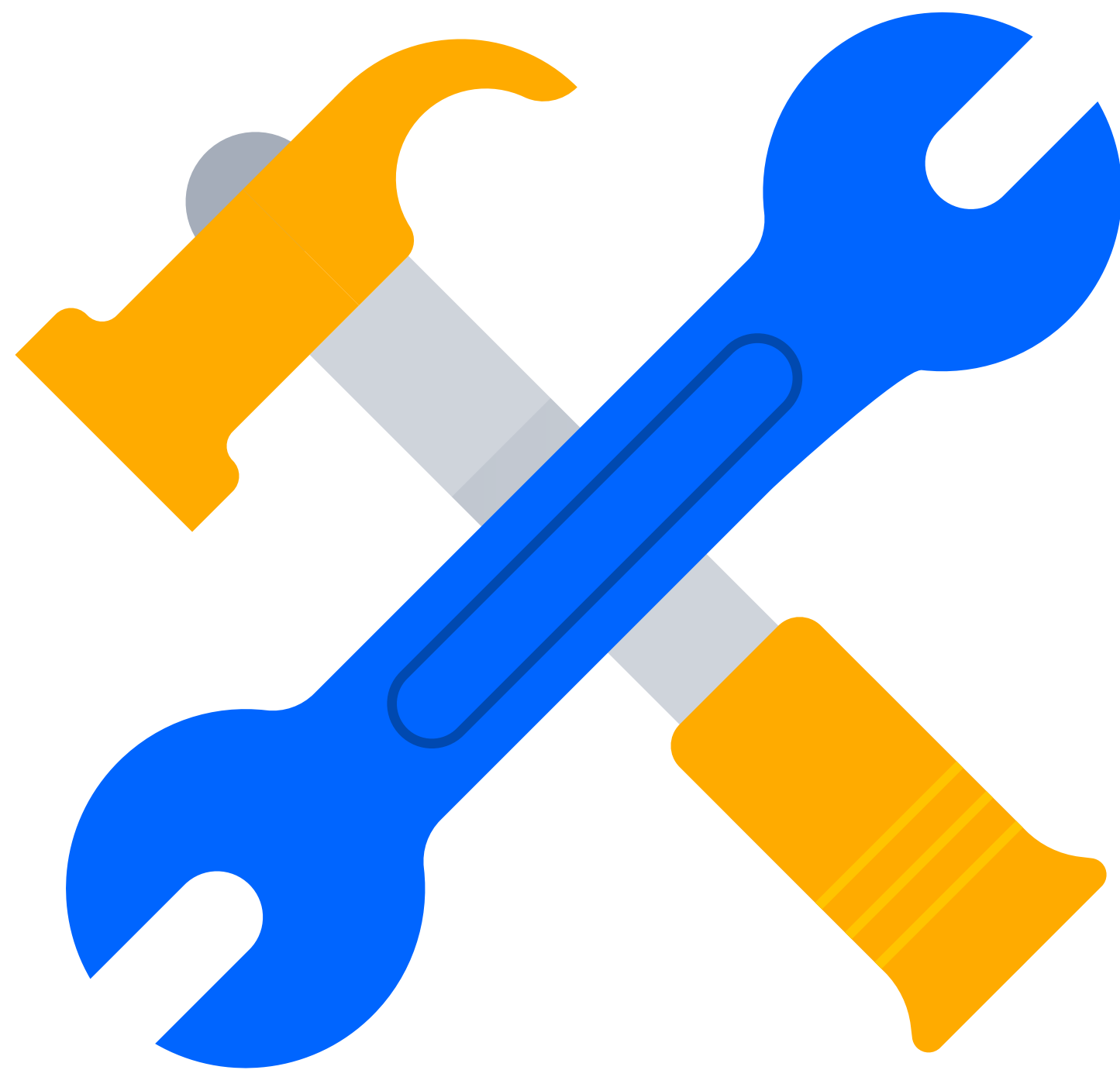
Parity

Minimize differences between dev, ci and prod



Remote friendly

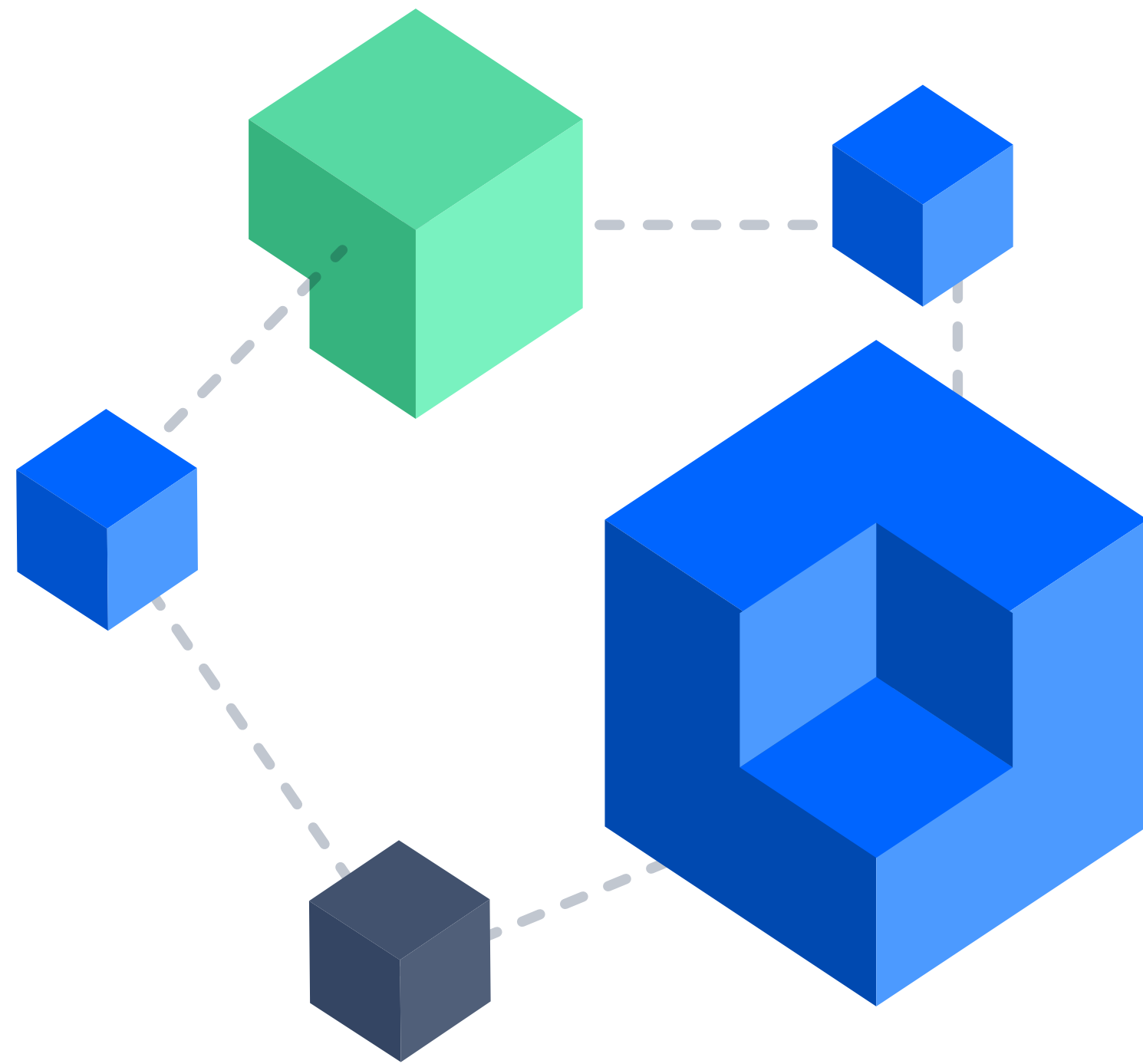
Accommodate team members everywhere



Docker for dependencies

Code runs locally, but dependencies are dockerized.

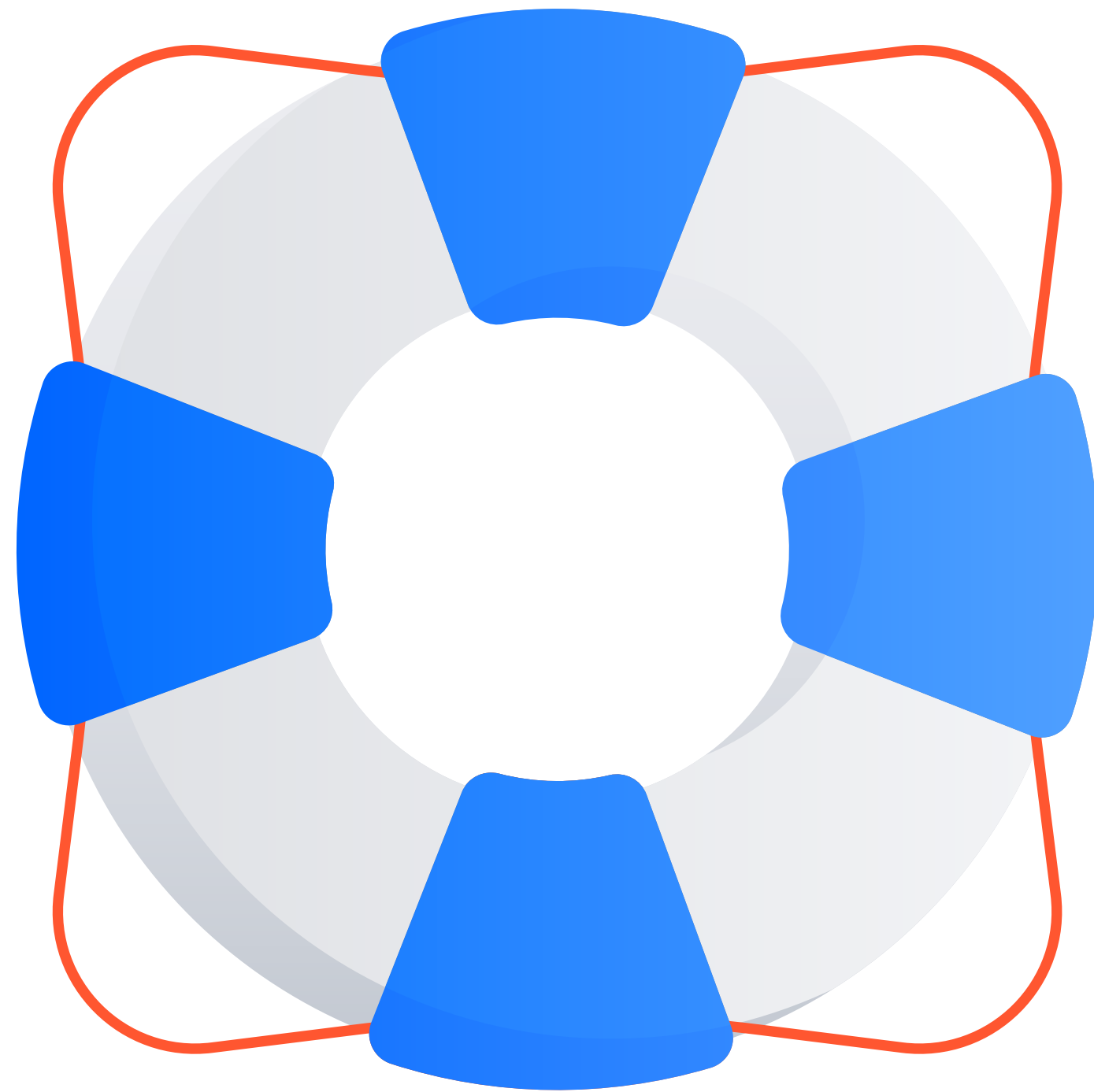
CI/CD and Prod are fully dockerized



Docker compose

Create a docker-compose and run everything locally.

We need to add 'bridge' code, since networking, DNS and configuration are now different between environments.



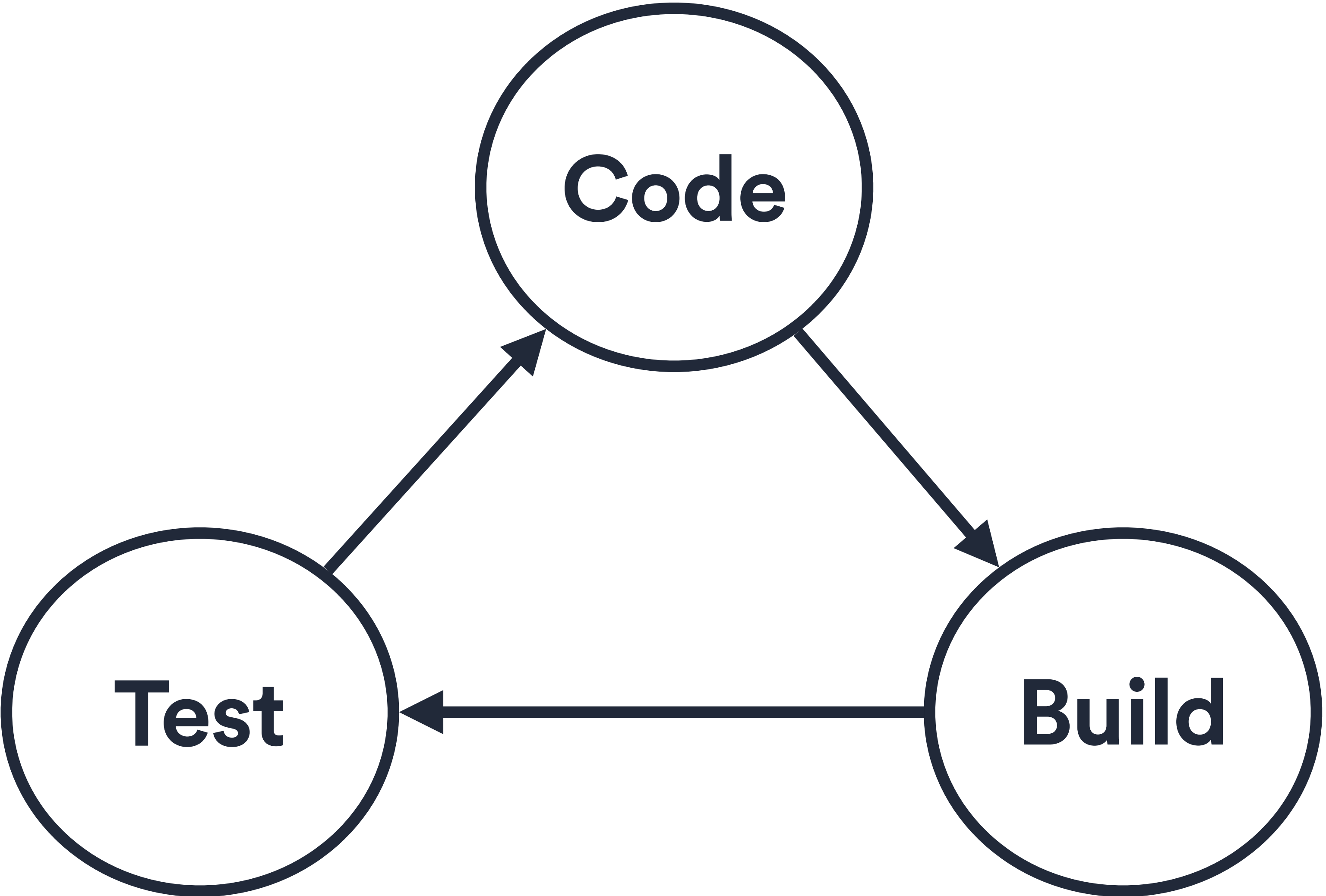
Kubernetes for dependencies

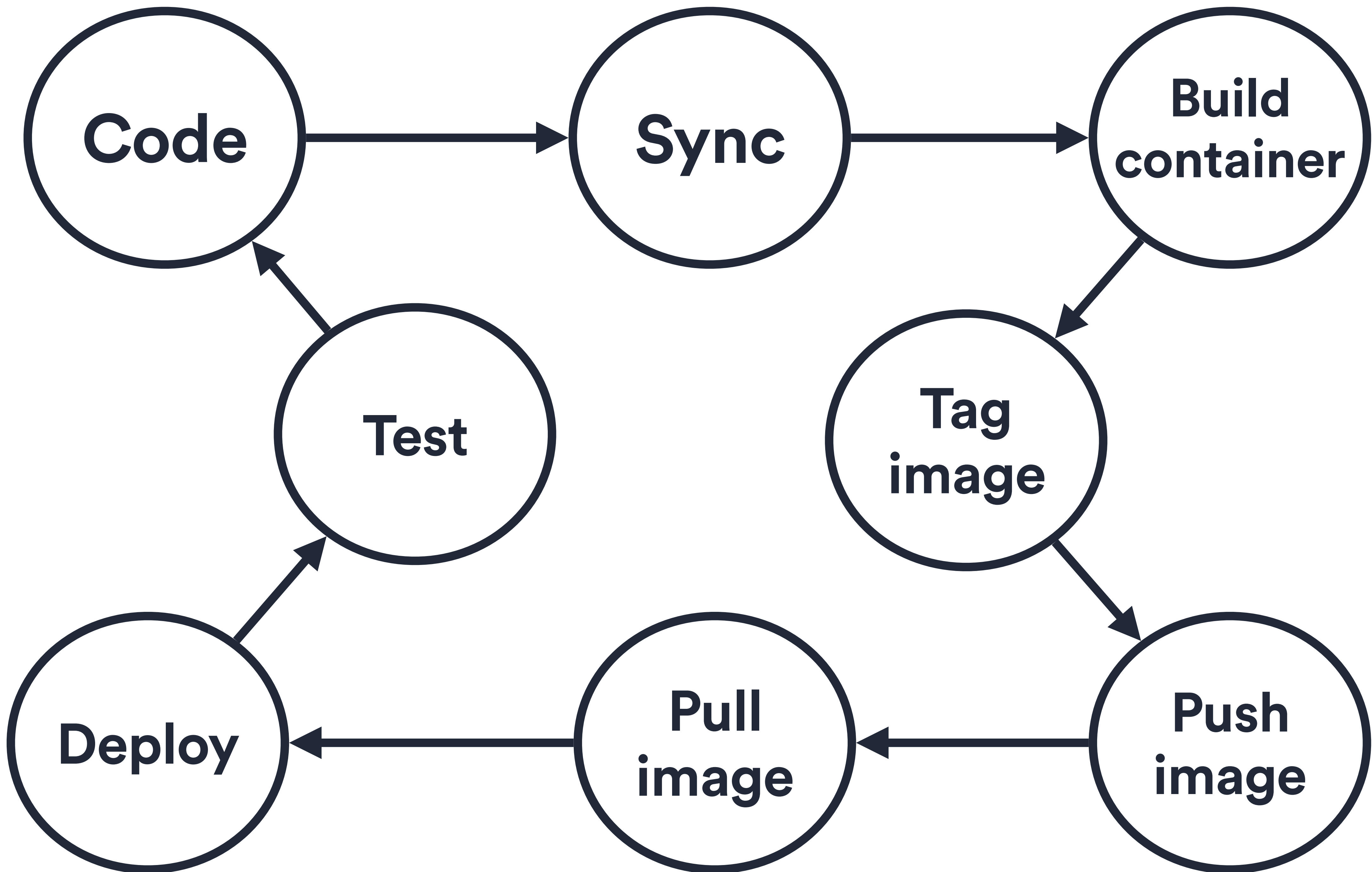
As dependencies got more complex, we moved them to kubernetes.

We removed some bridge code, as the dependencies (DBs, queues, etc...) are now the same across environments.

**We got tired of using docker
because it introduced too
much friction in our dev
workflow**







Cloud Native Development

Reduce friction by going all in

Our requirements



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Parity

Minimize differences between dev, ci and prod



Remote

Accommodate team members everywhere



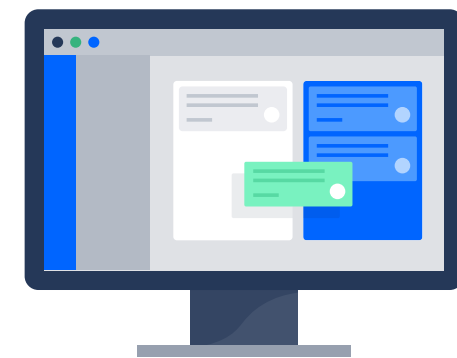
S K A F F O L D



DRAFT



Cloud Native Development



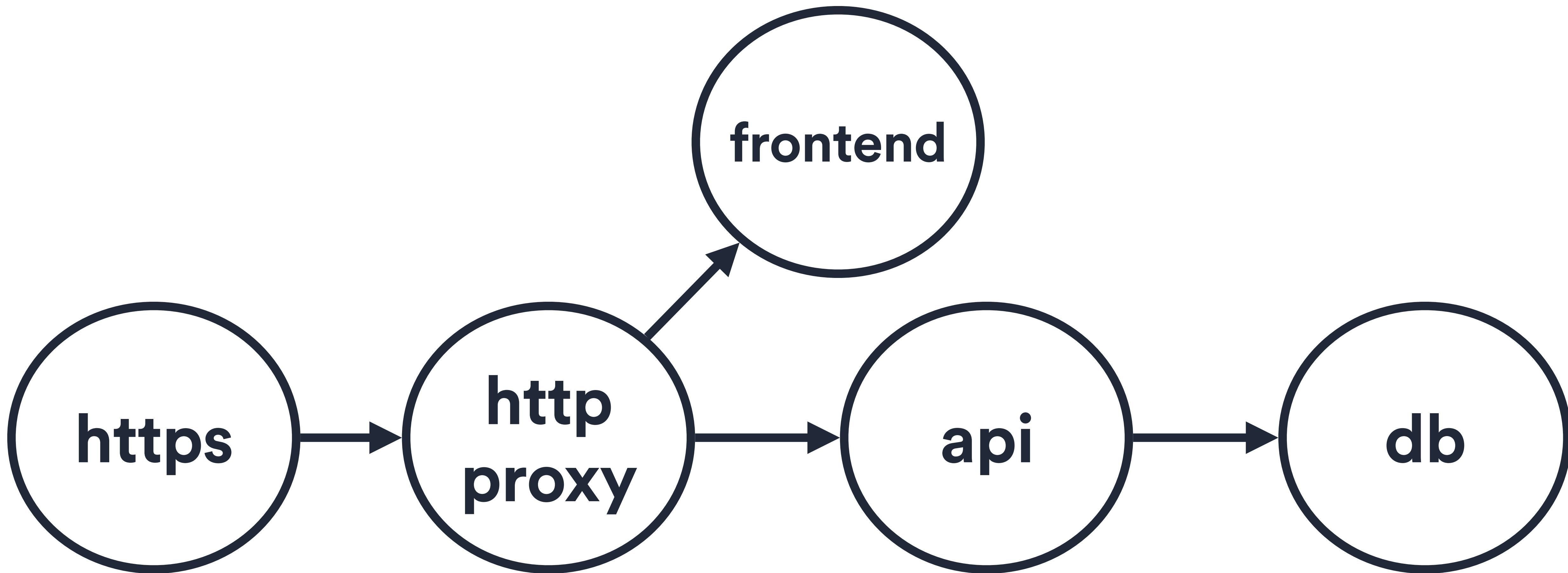
Code locally

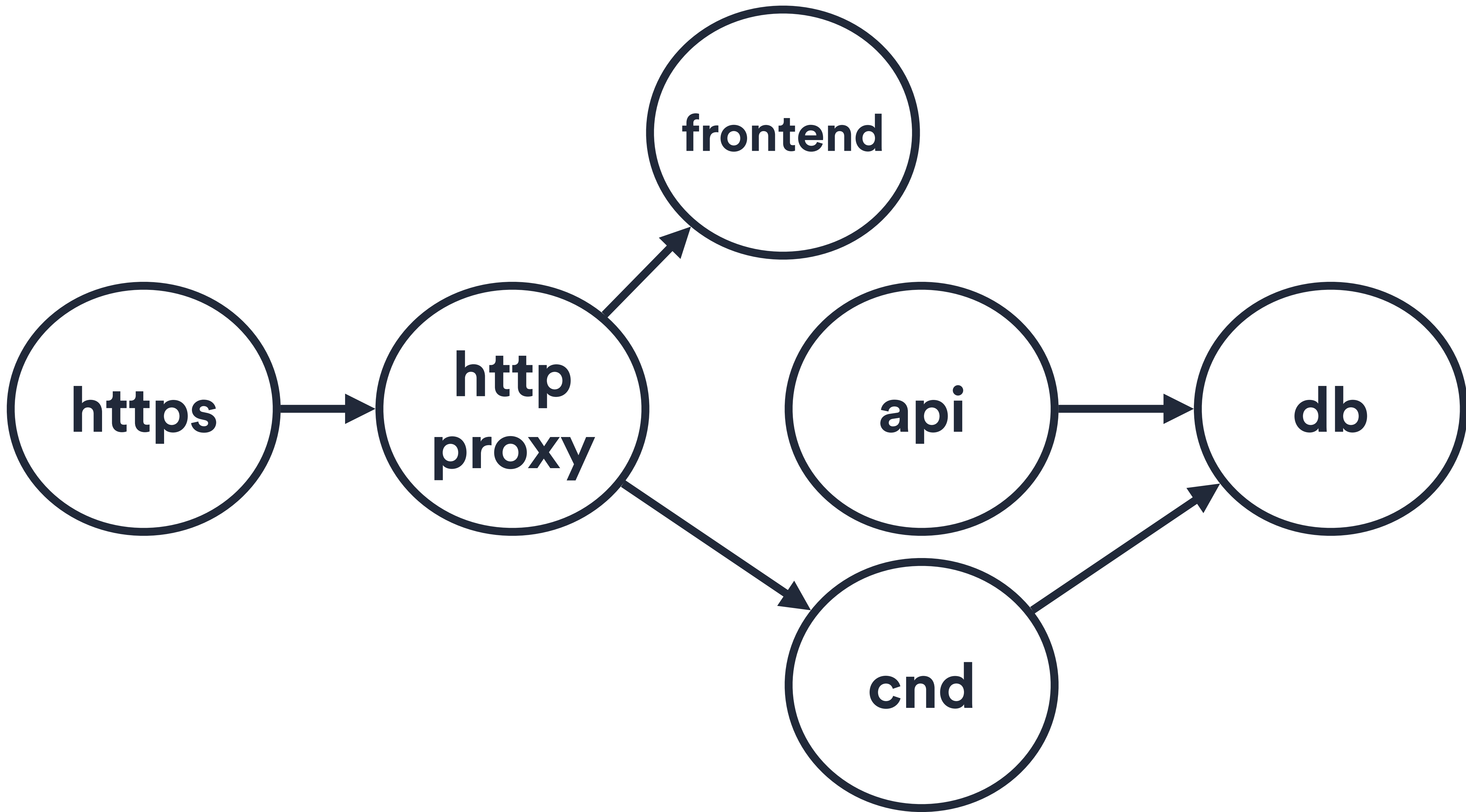
Keep your favorite editor and
local configurations

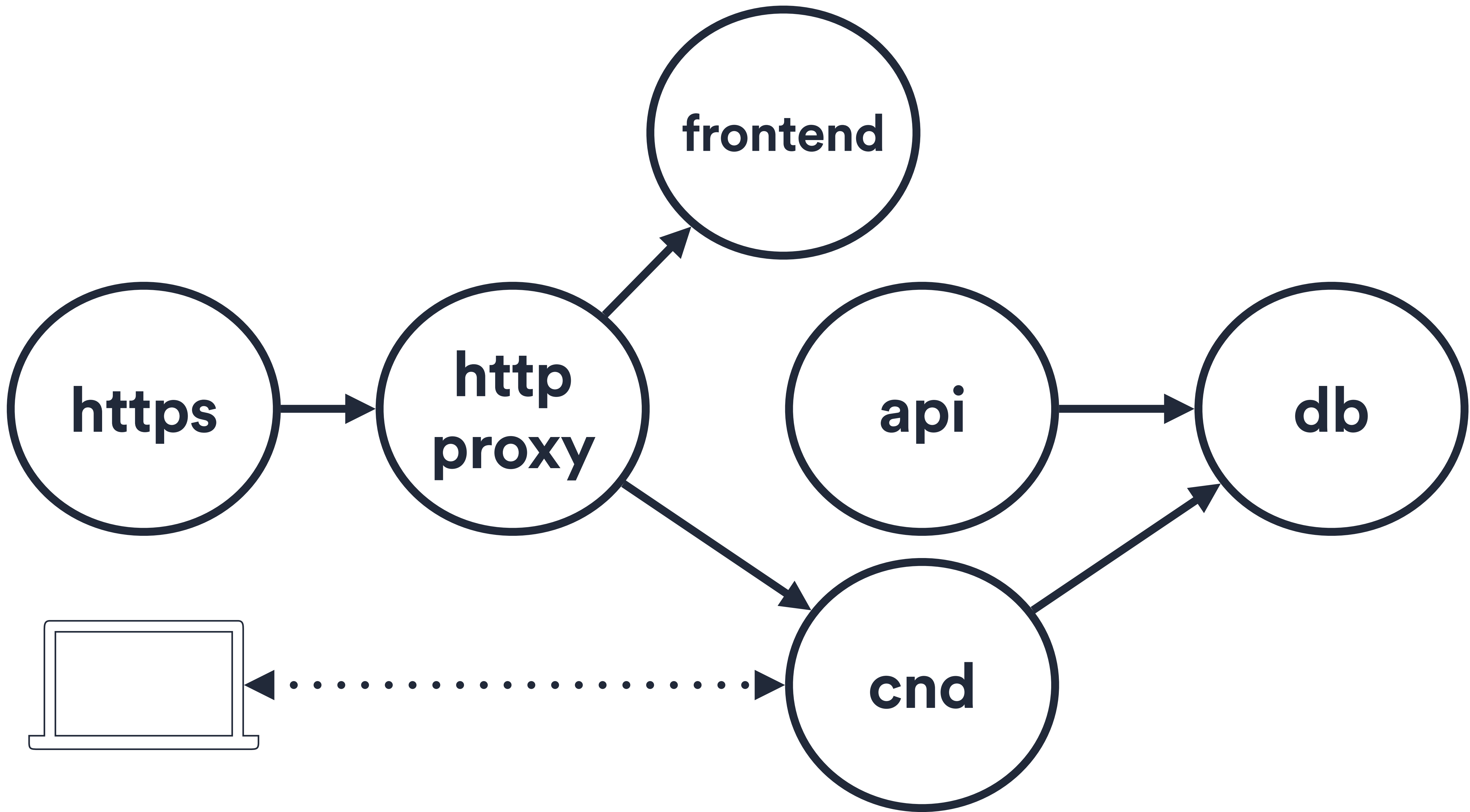


Run in cluster

Automatic synchronization
and hot reload







<https://github.com/okteto/cnd>

star it! contribute!

DEMO

super awesome things

<https://github.com/okteto/cnd>

star it! contribute!

CND

**Single command
creates and
destroys dev
environment**



CND

**Hot reload your dev
containers instead of
build, push, pull,
deploy**



CND

**Run everything in
kubernetes all
the time, from
dev to prod**



CND

**Easy to share and
troubleshoot
environments
remotely**



QA

okteto

<https://okteto.com>