How to build a PaaS?
Berlin PaaS meetup: How to run your Apps on them

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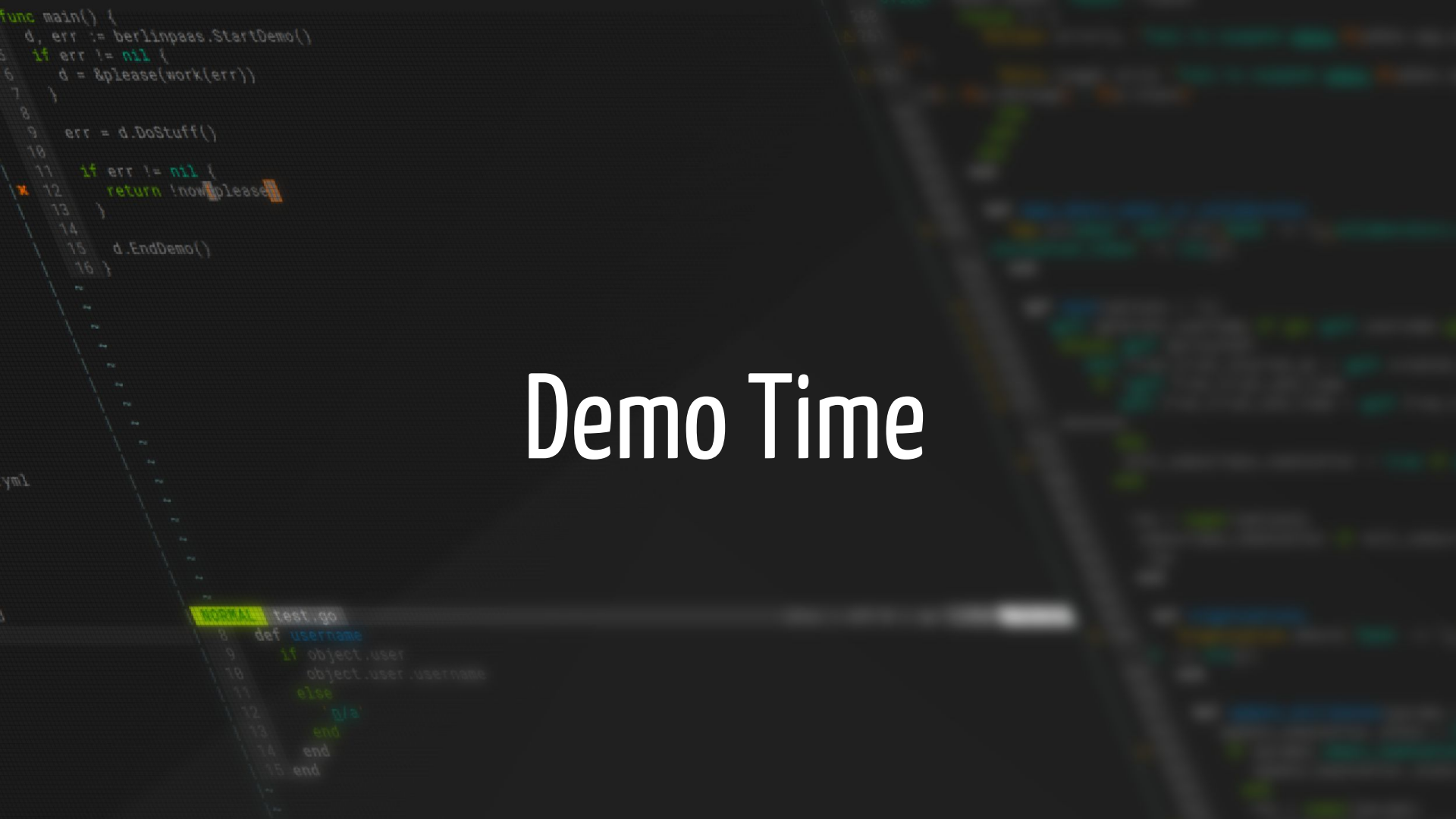

Demo Time

What is going on?
3 steps: You send your code, We build it, We run it

Common methodology

12factor.net

Common methodology

[...]

3. Store config in the environment

[...]

5. Strictly separate build and run stages

6. Execute the app as one or more stateless processes

[...]

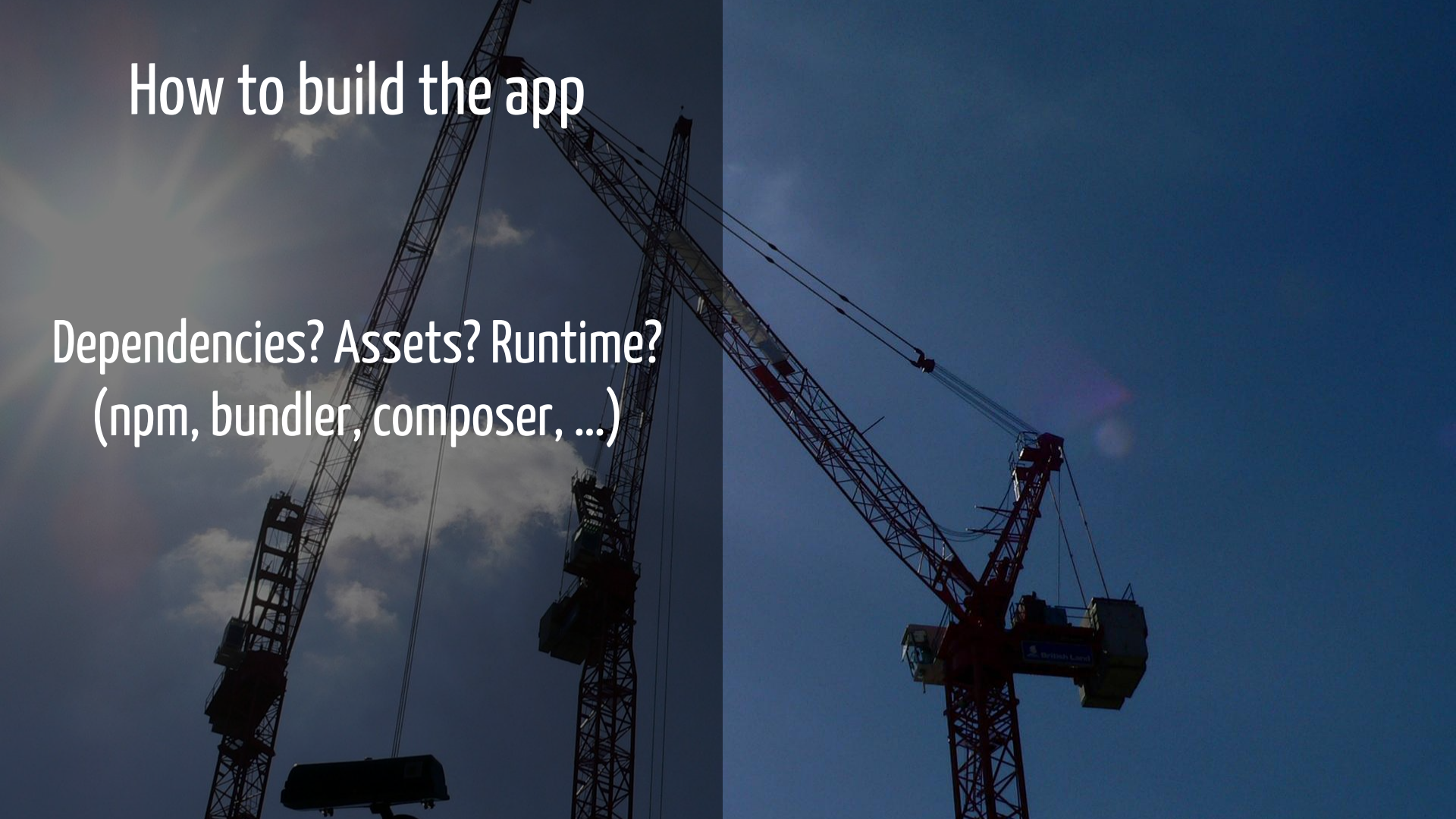
8. Treat logs as event streams

[...]

The build step

How to build the app

Dependencies? Assets? Runtime?
(npm, bundler, composer, ...)



How to build the app

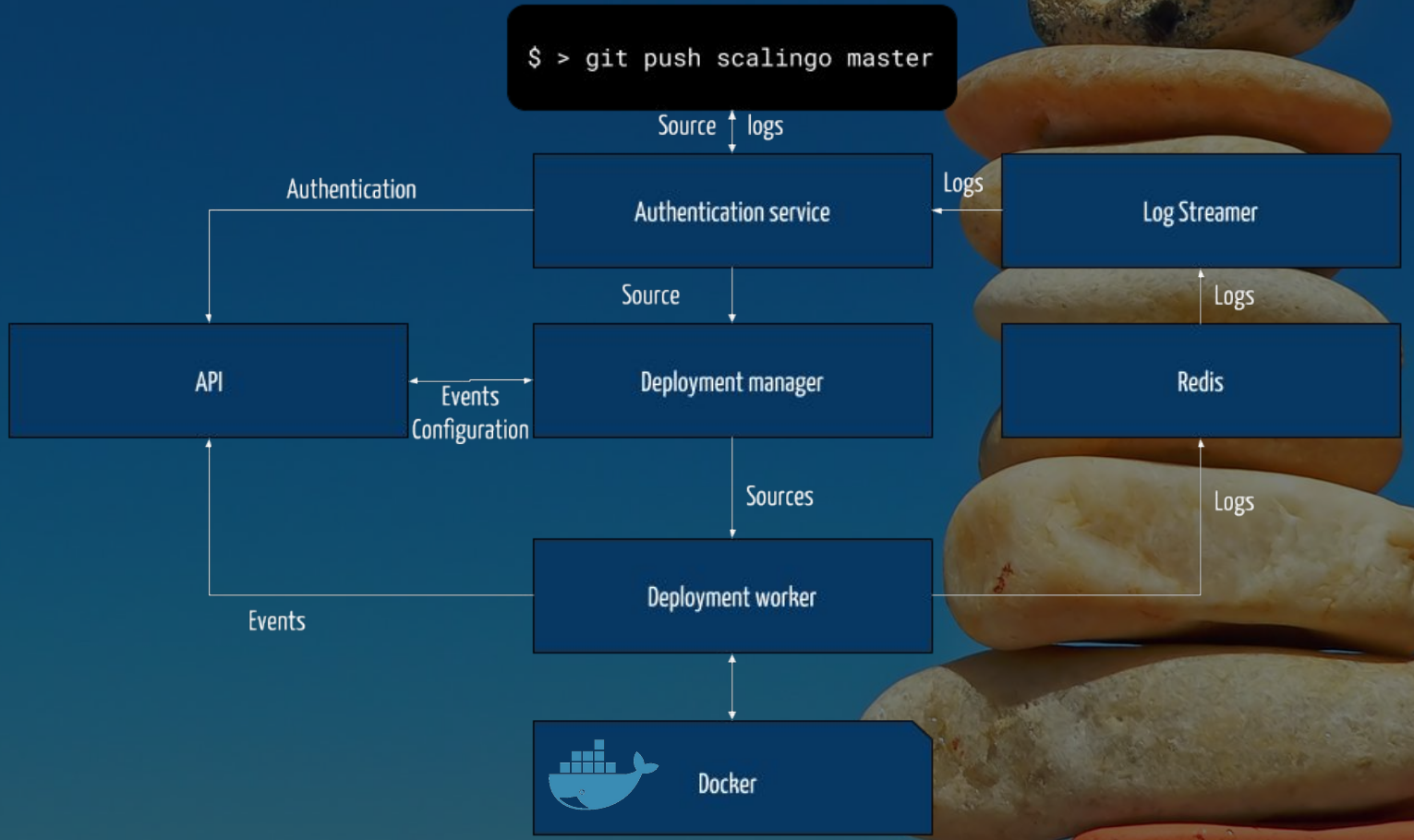
Buildpacks !

Open source

Virtually all technologies

```
$ > tree ruby-buildpack
ruby-buildpack
├── bin
│   ├── compile
│   ├── detect
│   ├── release
...
```

The build stack



The run step

The run step

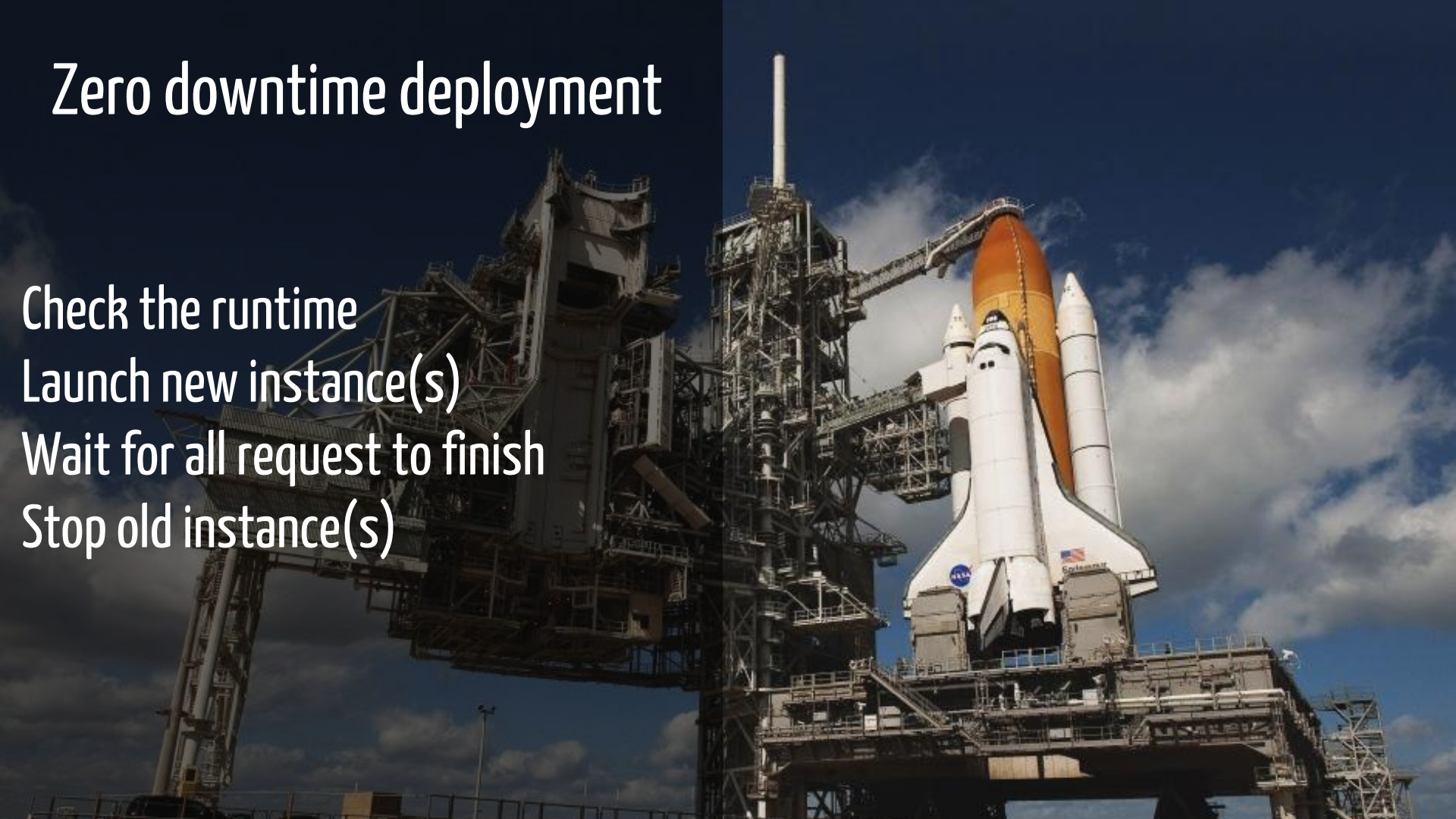
Scheduling:

- Zero downtime deployment
- Horizontal/Vertical Scaling
- Health checks

Tooling:

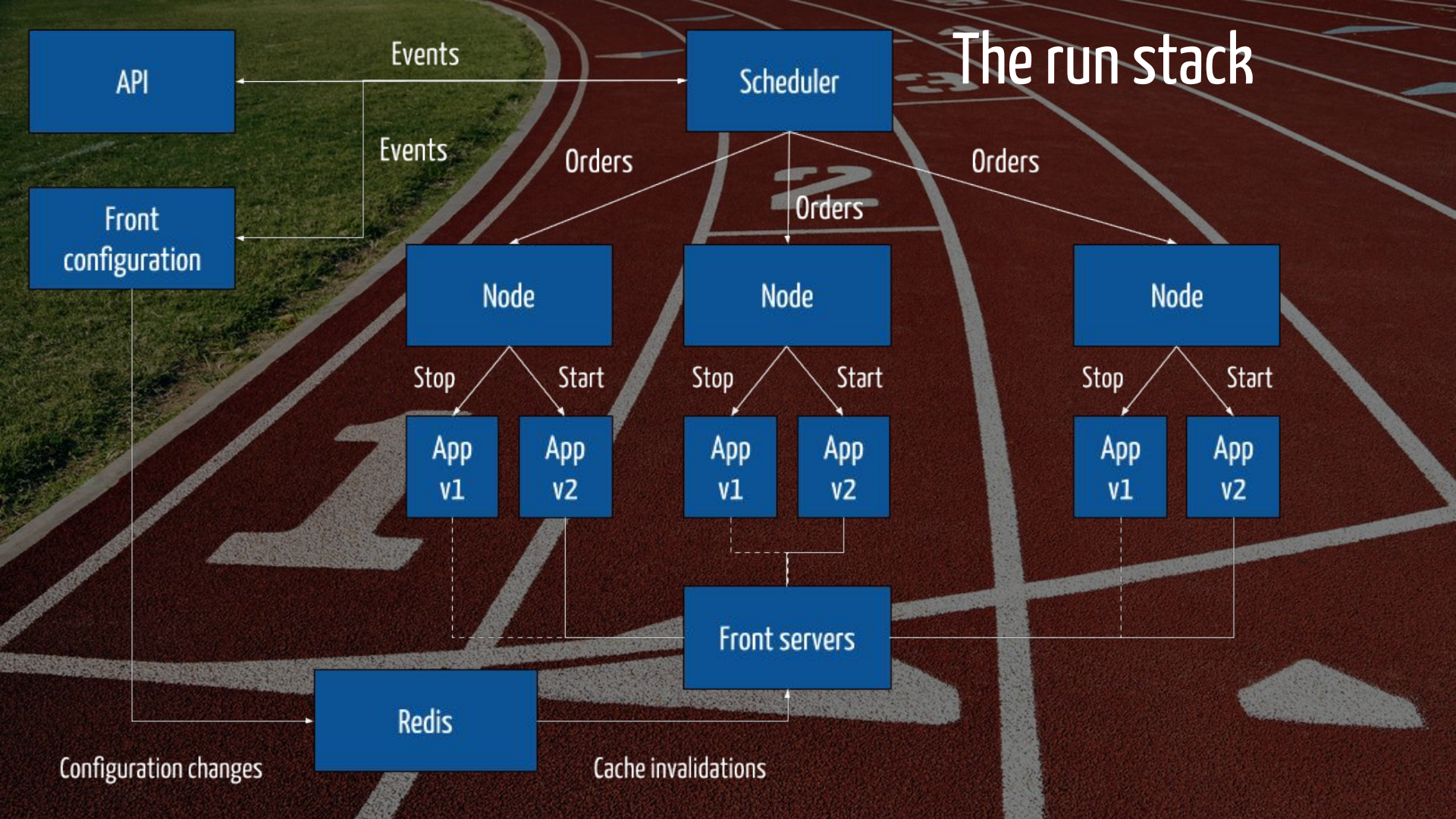
- Logs
- Events

Zero downtime deployment



Check the runtime
Launch new instance(s)
Wait for all request to finish
Stop old instance(s)

The run stack



Final thoughts
Building a PaaS is hard!
Addons (DB, FS)?
Tooling?

Any questions ?

50€ w/ WELCOMESCLNG

https://paas-meetup.scalingo.io

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