3 Days of DevOps in 1 Day: From Local to Production

Introduction

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Agenda

- Short intro into the workshop

- Timetable

- Questions and setup

What are three days?

- Day 0 - design and development

    - Language, dependencies, architecture

- Day 1 - deployment and operating in Production

    - Containerization, security, deployment

- Day 2 - maintenance, observability, reliability

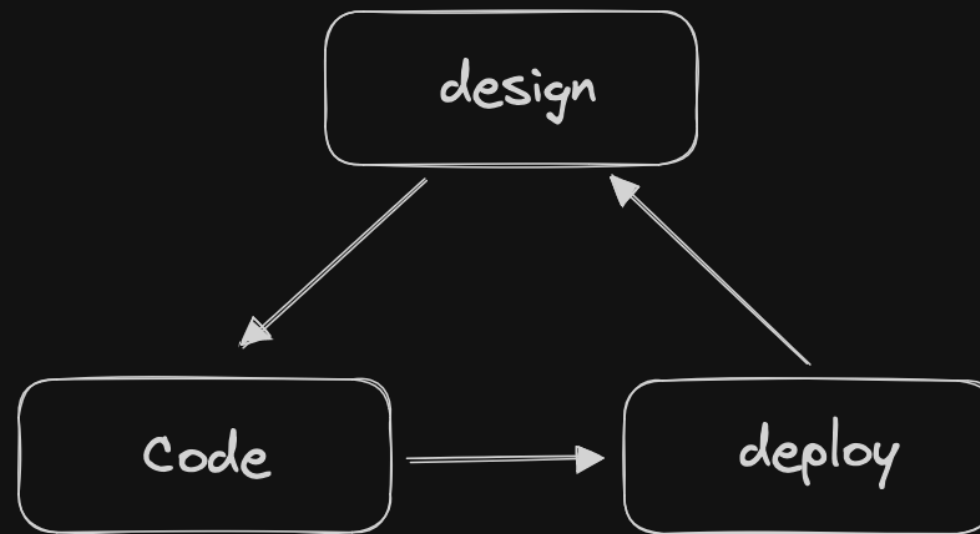   - Monitoring, alerting on issues, scaling

Our goal

- Use DevOps practices on a small scale
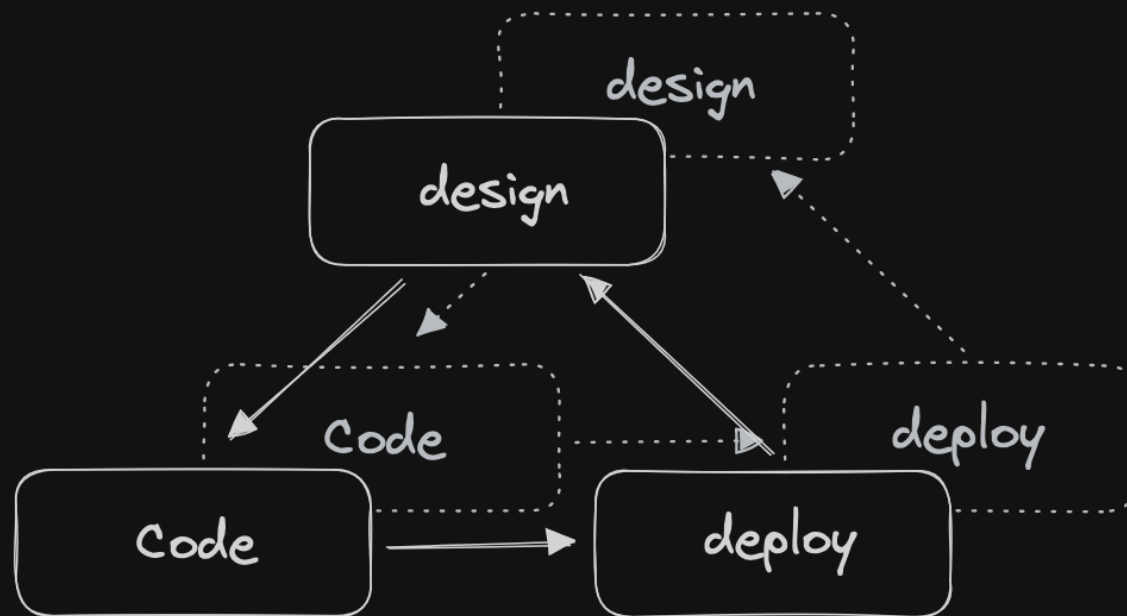
- Learn, apply, recap

Our sample application

- A simple web application

  - With a database, message queue and jobs

- We will keep deploying it to "prod"

- Afterwards we will "simulate" extending it

  - Add a message queue

  - Add a job processor
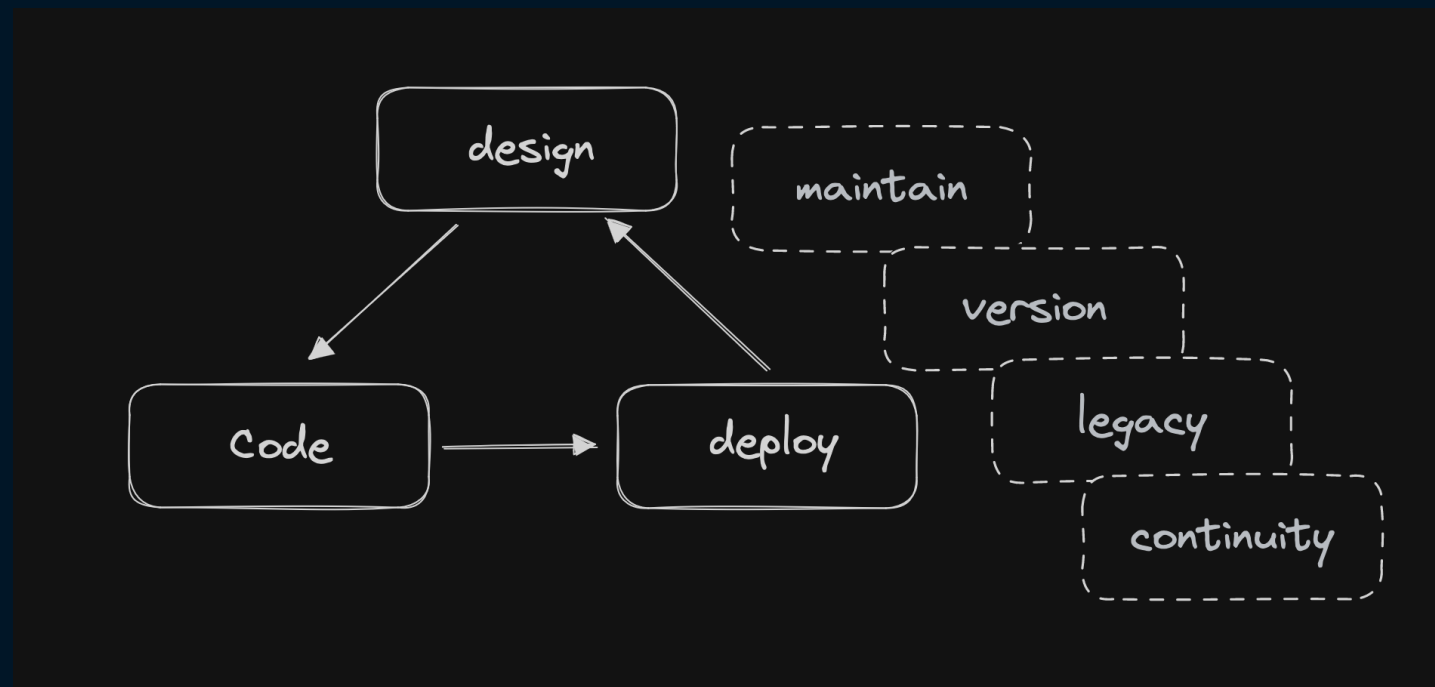
  - Versioning

- Add observability

- Introduce Aspire

Software development lifecycle

Multiple teams, features, stages

As time passes, other concerns influence our work

Link to slides, materials

- https://github.com/tpetrina/3daysworkshop

- Use `final` branch for time-travelling

- All instructions are in the `main` branch

Timetable

- Start: 09:30

- Coffee break: 11.00 - 11.30

- Lunch break: 13:00 - 14:00

- Coffee break: 15:30 - 16:00

- Workshops end: 17:00