Week 06: Containerisation and YAML

Agenda

- YAML
- Engine commands & Compose orchestrator (Demo)
- Iteration 05

Let's start

YAML

```yaml
users:
 -

    name: Pavol
    surname: Habera
    pseudonym: Porodca
    songs:
        - Je to vo hviezdach
 -

    name: Jan
    surname: Pokorný
    pseudonym: Pokáč
    songs:
        - Matfyzák na discu
 -

    name: Braňo
    surname: Mojsej
    pseudonym: Braňo
    songs:
        - Dal by Som Si Teba
```

Best practices for Containerfiles

- Image should be as small as possible
- Use official base image
- Use image with lowest amount of vulnerabilities
- Do not use root user
- Do `COPY` as a last step
- Make context as small as possible with `.dockerignore`
- Use healthcheck when possible
- Do not include development tools, packages inside of the image
- Handle exit codes in your application
- Use array syntax for `CMD` and `ENTRYPOINT`
- Use fixed tags with versions/hashes
- 1 process per Container

Hands on: Demo

- Download demo from Interactive syllabus
- Read `index.md`

Hands on: Iteration 05

You can find the assignment in GitLab issues as well as in the interactive syllabus.

Let's take a look together.

Before you start:

- Please check whether your tutor has already accepted your MR
- If they have, make sure you have merged your solution from the previous week

*Note: if your tutor has **not** seen your MR, it's completely ok. You do **not** need to have the previous iteration merged to be able to work on a new one – **iterations are independent**. However, if you **do** have an accepted MR that still has not been merged, make sure to merge it first.*