Agenda

- Why should I use deegree on Docker?
- Existing Docker templates for deegree
- Create deegree Container with Maven
- Exercise: Starting up of deegree and database
  Exercise: Working with your application running on a Docker-based infrastructure
Why should I use deegree on Docker?

- Most appropriate Java and Tomcat version is used
- Easy to run, easy to deploy in different environments
- Easy to update
Existing Docker templates for deegree

- There are already Dockerfiles for deegree on Github:
  - https://github.com/tfr42/deegree-docker/
- Docker Images on DockerHub:
  - https://hub.docker.com/r/martinvi/deegree/
  - https://hub.docker.com/r/dolite/deegree/
  - https://hub.docker.com/r/stempler/deegree/
  - https://hub.docker.com/r/sgoeke/deegree/
  - https://hub.docker.com/r/tfr42/deegree/
Create docker image with Maven

- The Spotify Docker Maven Plugin is configured in project „deegree3_workshop“.

- Create the Docker Image with Maven:
  
  ```
  mvn clean package docker:build
  ```

- Start the Docker Container:
  
  ```
  docker run -p 8080:8080 --rm tfr42/deegree
  ```

- Use deegree on Docker:
  
  ```
  http://localhost:8080/deegree-webservices/
  ```
PostgreSQL with PostGIS on Docker

- There is an existing Image on Docker Hub.
  - https://hub.docker.com/r/mdillon/postgis/
- Image can be used to create Docker container.
Exercise: Starting up of deegree and database

- Start database:
  
  docker run --name postgis -p 5432:5432 -d mdillon/postgis

- Start deegree:

  docker run --name deegree -p 8080:8080 --link postgis:db -d tfr42/deegree

- Alternatively, you can connect to shell during start up:

  docker run --name deegree -p 8080:8080 --link postgis:db -it tfr42/deegree
Exercise: Working with your application running on a Docker-based infrastructure

- Access the deegree console:
  
  http://localhost:8080/deegree-webservices/
What we have learned

- You are able to set up a deegree webservice on a Docker-based infrastructure.
Contact & Licence

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