

FAIR Data Austria Internal Team Meeting

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FAIR Data Austria
Work Package 2: FDM Tools

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Recap

Last team meeting at March, 2nd 2021

- 1 Gitlab Runner
- 2 Dev-Deployment
- 3 Docker
- 4 ~~Kubernetes Cluster~~

Accomplishments since the last meeting

We received some resources both at Uni Wien and TU Wien!

- dbrepo @Uni Wien now at 4vCPUs and 16GB, thanks Markus!
- fda-runner @TU Wien now at 4 vCPUs and 16GB (+reserved quota)

Further:

- 1 Gitlab Runner installed at fda-runner
- 2 Pipelines with automated build
- 3 Dev-Deployment at dbrepo
- 4 Docker Repository at fda-runner using a private domain, can we change this? It is just a A-Record with fda-runner IPv4.

Gitlab Runner installed at fda-runner

Deployed at HPC @TU Wien `ubuntu@128.130.202.89`, send me your public key and you get access. Only SSH connections from TU network are allowed. You should have received VPN access by now.

- Gitlab Runner is group-available for all our repositories (currently fda-services, fda-docs)
- It pulls the changes and executes a defined pipeline `.gitlab-ci.yml`
- It is configured to use a standard shell executor

DEMO


Pipelines with automated build

Pipeline for all commits to **any** branch:

- Build with `docker-compose build`
- Test Backend (tbd)
- Test Frontend (tbd)

Pipeline for commits to **dev** branch:


- Build with `docker-compose build`
- Test Backend (tbd)
- Test Frontend (tbd)
- Tag Docker images with `fda-*:latest` and upload to registry¹
- Deploy them freshly at `dbrepo`

¹`docker login docker.martinweise.at with u=fda, p=fda-docker` 

Pipelines with automated build

Pipeline for commits to **master** branch:

- Build with `docker-compose build`
- Test Backend (tbd)
- Test Frontend (tbd)
- Tag Docker images with `fda-*:stable` and upload to registry²
- Deploy them freshly at `dbrepo`

²`docker login docker.martinweise.at with u=fda, p=fda-docker` 

Pipelines with automated build

DEMO

Dev-Deployment at dbrepo

Our dev-deployment server for manual runtime behaviour inspection.
Accessible through domain `dbrepo.phaidra.org`.

- Pipeline has access to this server through `fda-runner@dbrepo.phaidra.org` from `fda-runner`
- All dev/master commits deploy a new version through `docker-compose up` and daemonize it (running in background)
- Consequence: all users with access to dbrepo can use this!

Open Questions:

- How assign ports? No response for 9090-9095.

DEMO

Docker Repository at fda-runner

Private Docker Repository at `docker.martinweise.at`
(A-Record pointing to the fda-runner IPv4).

- Running at standard port 5000
- Uses secure nginx with TLS certificate (letsencrypt)
- Add user through interactive script
`cd docker-registry/auth && ./add_user username`
(not needed but just to explain)

Open questions:

- Can we use dbrepo DNS entry for this?
Example: `fda.phaidra.org` A-Record

DEMO