

AAD / Backend Development

Docker and AWS

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23/24 Q3



Assignment 2

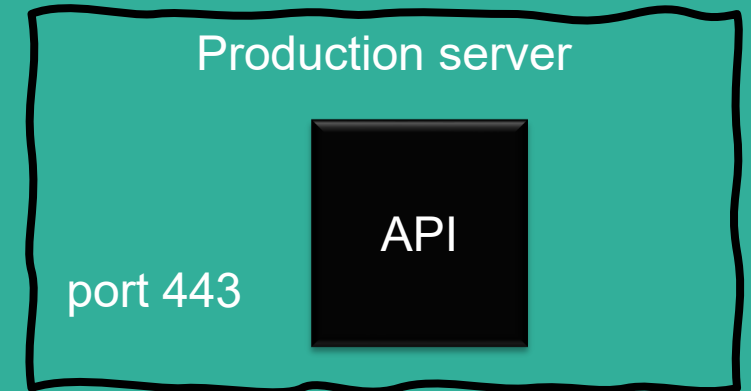
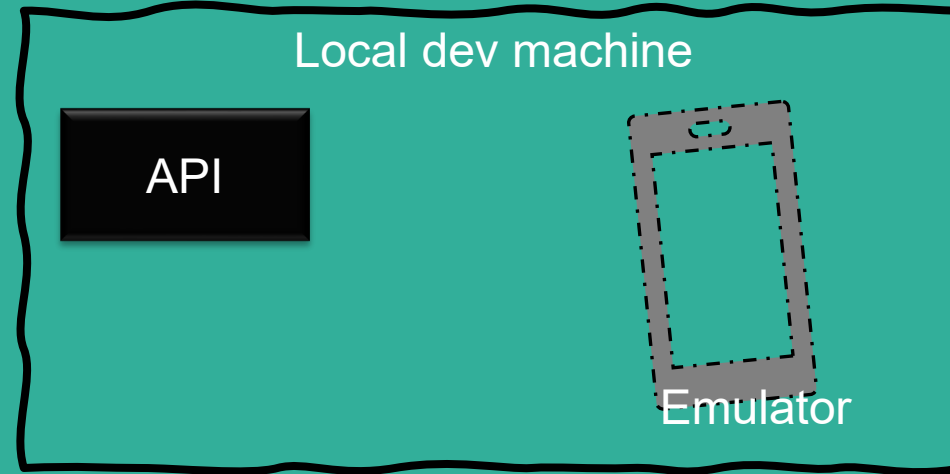
Continue one of the prototypes and create a full API.

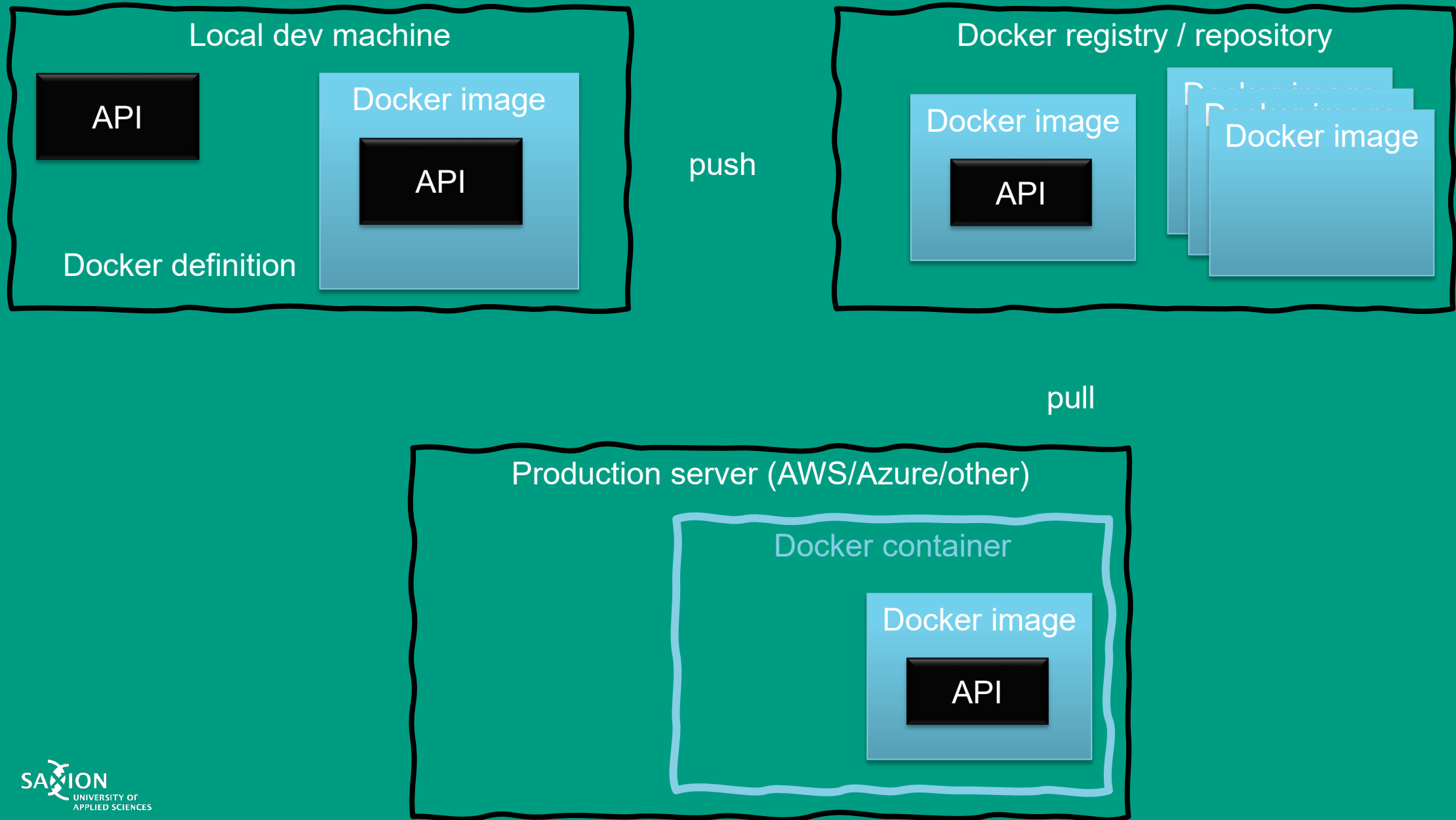
The API itself must have:

- A self-hosted database
- A formal API
- At least 5 entities
- Code according to the arts of our trade
- Full dockerization
- Authentication with multiple roles
- Tests
- Advanced track stuff (depends)

Documentation

Deployment





http://123.231.213.132:3000/



https://my-api.saxion.online/

DNS

saxion.online:

A my-api 123.231.213.132

:443

Production server (AWS/Azure/other)

IP: 123.231.213.132

Proxy (nginx or
HAProxy or ...)

Load balancing
HTTPS → HTTP
API routing
Security

Docker container

API

port 3000

port 80 / 443

port 3000

Practice

- Deploy a docker container to AWS
- Create a reverse proxy to host it on port 80
- Fix the IP-address and add HTTPS

Refer to the tutorial on Blackboard.

NOTE:

Email me for an AWS academy lab invite

Email me for a subdomain under saxion.online



Now what

This week

- Continue with Assignment 2