DOCKER COMPOSE

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- Docker Compose is a tool that was developed to help define and share **multi-container applications**. With Compose, we can create a YAML file to define the services and with a single command, can spin everything up or tear it all down.
- **Docker-compose up / down / build**
- Is possible to define bootstrap dependencies between container via **depends_**on keyword

  https://github.com/ynov-campus-sophia/devops/tree/master/docker/compose
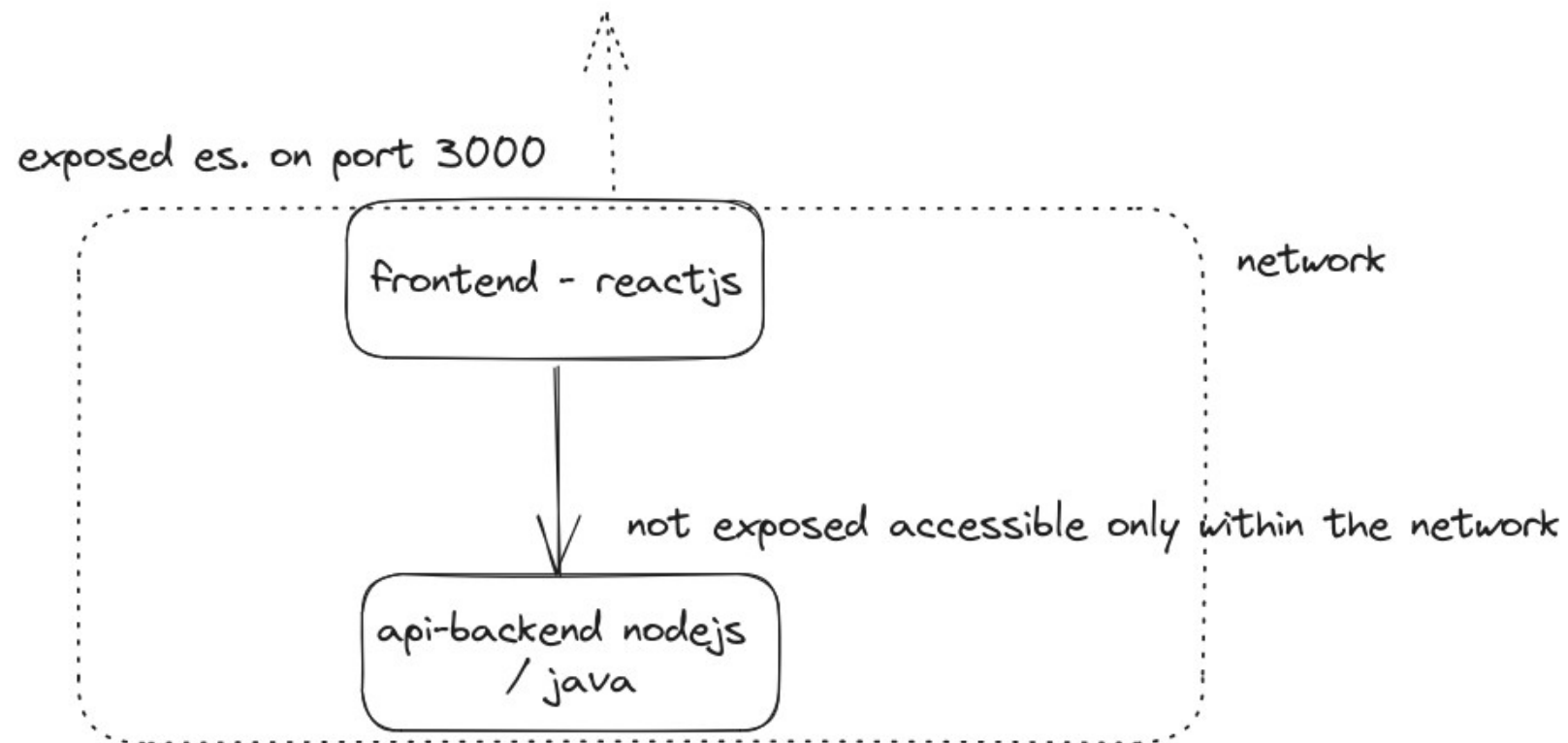
DOCKER COMPOSE

- Build/push/run with docker compose
- Environment variables
- Volumes
- Network

ARCHITECTURE MICROSERVICES

- Assignement1: deploy a react front that use data fetched from an api

exposed es. on port 3000

frontend - reactjs

network

not exposed accessible only within the network

api-backend nodejs / java

ARCHITECTURE MICROSERVICES

- Assignement2: Fetch data from crypto exchange api Kraken, collect data in postgres db

exposed es. on port 8080

pgadmin

network

api-backend nodejs / java

postgresal database

not exposed accessible only within the network

call public api endpoint
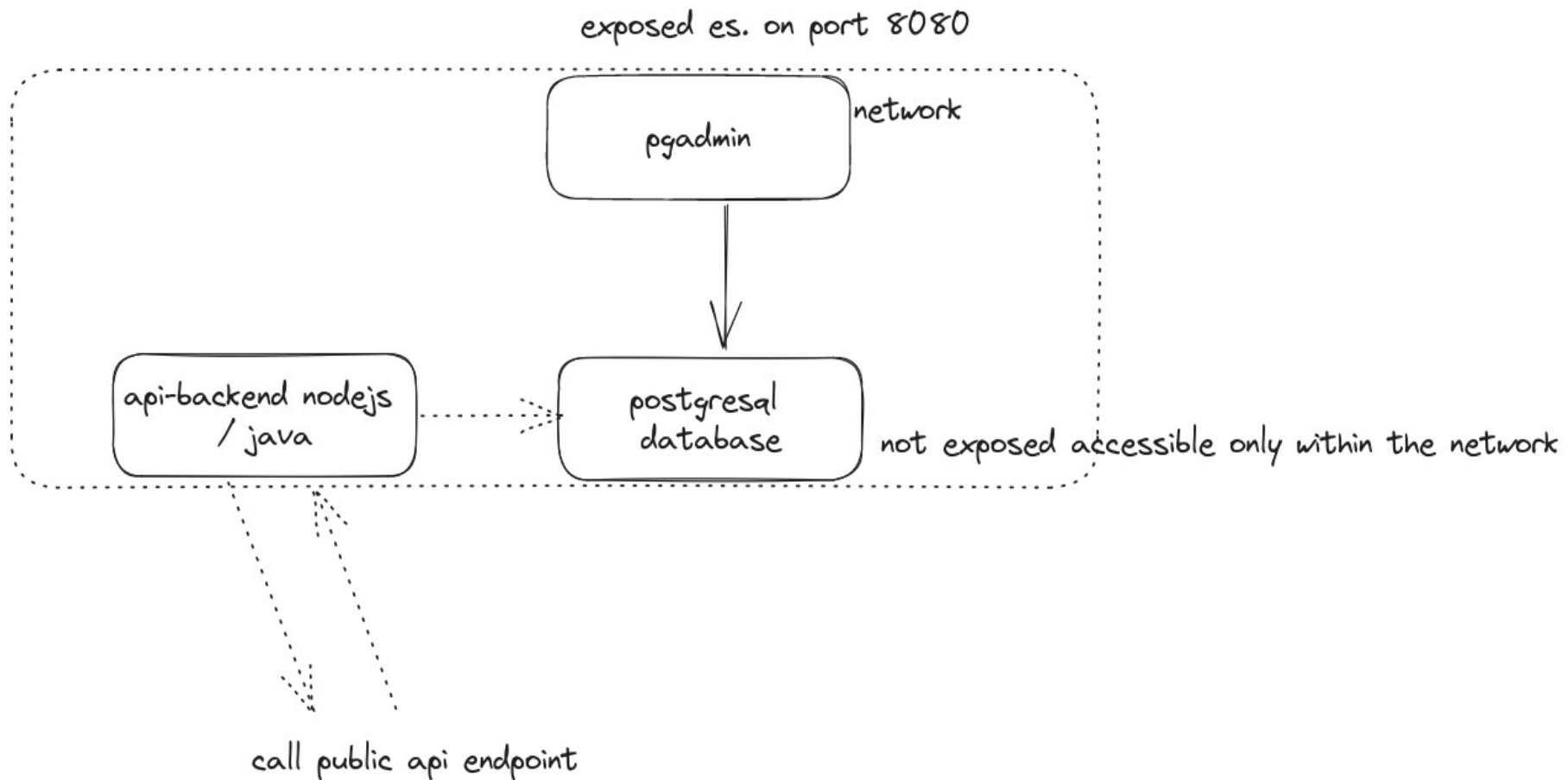
ARCHITECTURE MICROSERVICES

- Assignement3: Deploy a reverse proxy (nginx) to dispatch traffic to containers. Microservice architecture needs often a similar middleware component (like Kong or traefik).