

Online Workshop

Docker & Kubernetes

Session #3 | @inicipaez



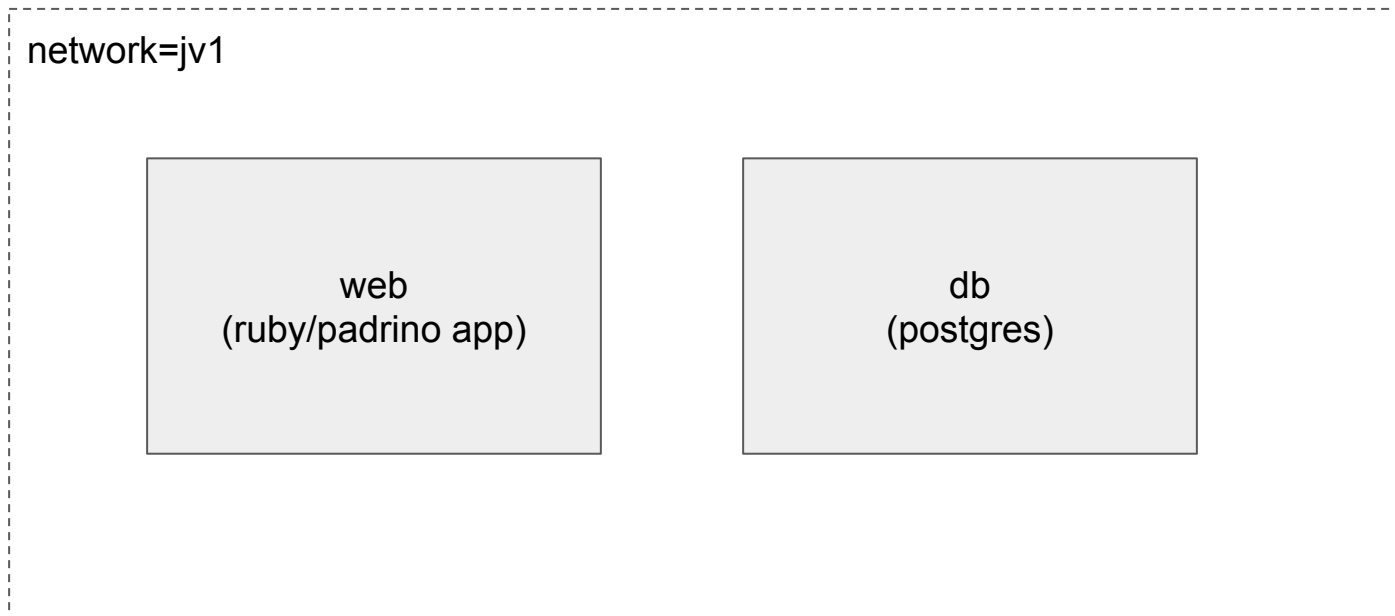
Session 3 Agenda

- Working with multiple containers
- Docker-compose fundamentals
- Docker-compose use cases

Homework recap

Ejercicio imagen RedHat

Job Vacancy Application





<https://gitlab.com/-/snippets/2376003/raw/main/plain-docker.sh>

Docker Compose



Job Vacancy on docker-compose

 **docker-compose.yml**  375 bytes

```
1  version: '2'
2  services:
3    web:
4      image: nicopaez/jobvacancy-ruby:1.3.0
5      links:
6        - db
7      ports:
8        - "3000:3000"
9      environment:
10       PORT: "3000"
11       RACK_ENV: "production"
12       DATABASE_URL: "postgres://postgres:Passw0rd!@db:5432/postgres"
13      depends_on:
14        - db
15    db:
16      image: postgres:14.4-alpine
17      environment:
18        POSTGRES_PASSWORD: Passw0rd!
```

<https://gitlab.com/-/snippets/2376003/raw/main/docker-compose.yml>

docker-compose

vs.

docker compose

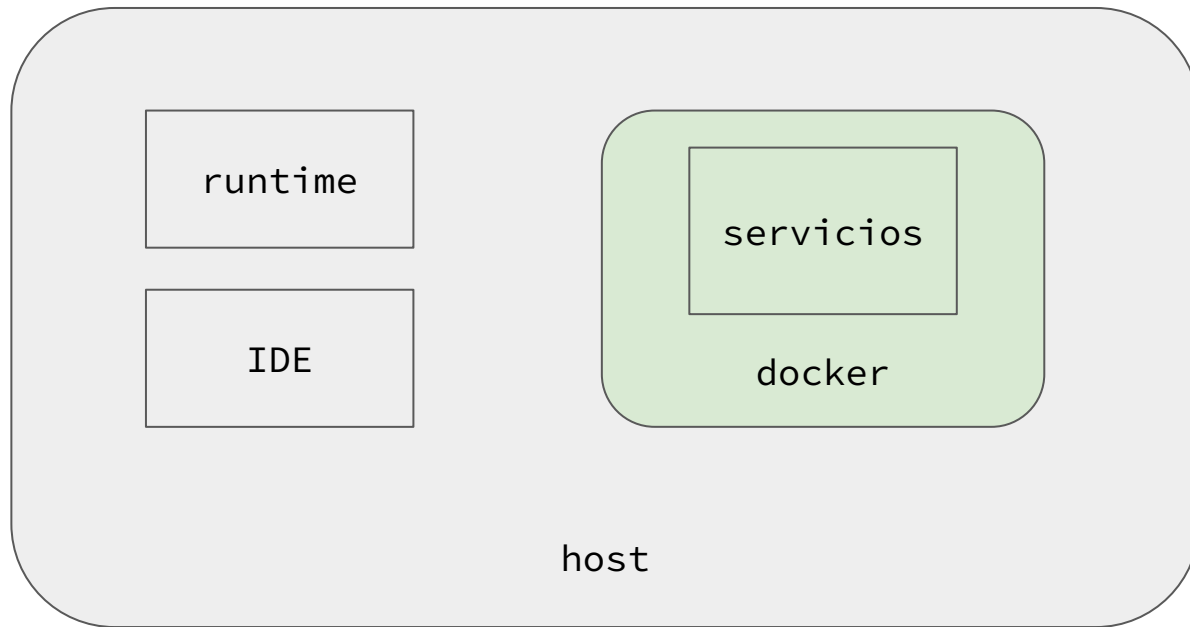
<https://github.com/docker/awesome-compose>

Compose use cases

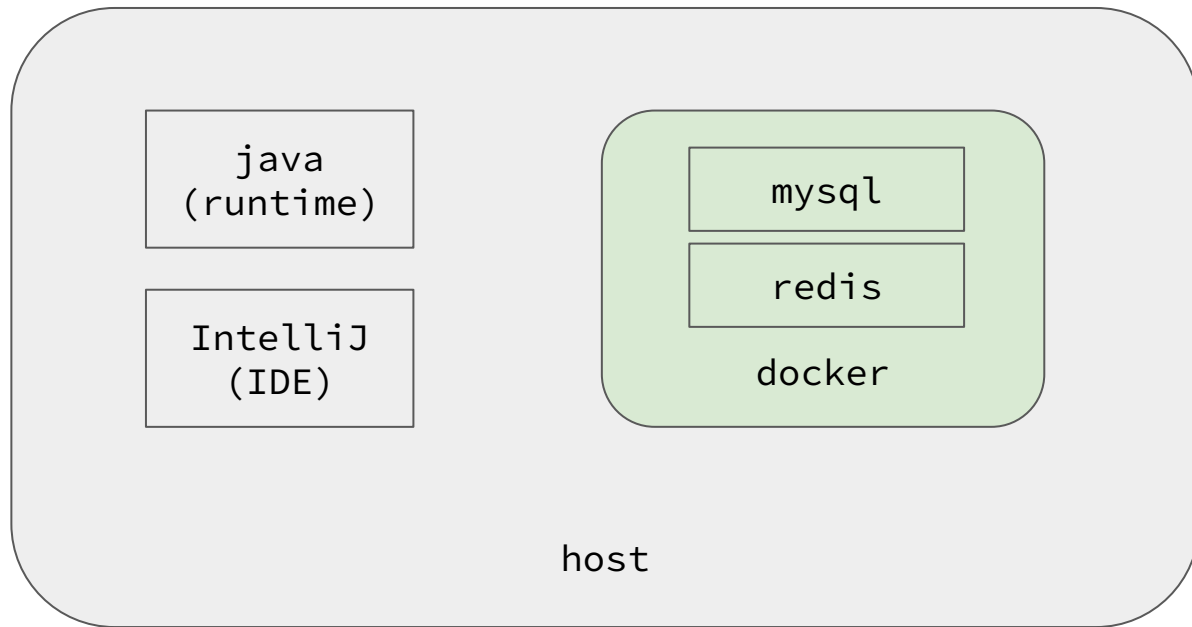
- Development: clone & run experience
- Testing: end-to-edge testing

clone & run

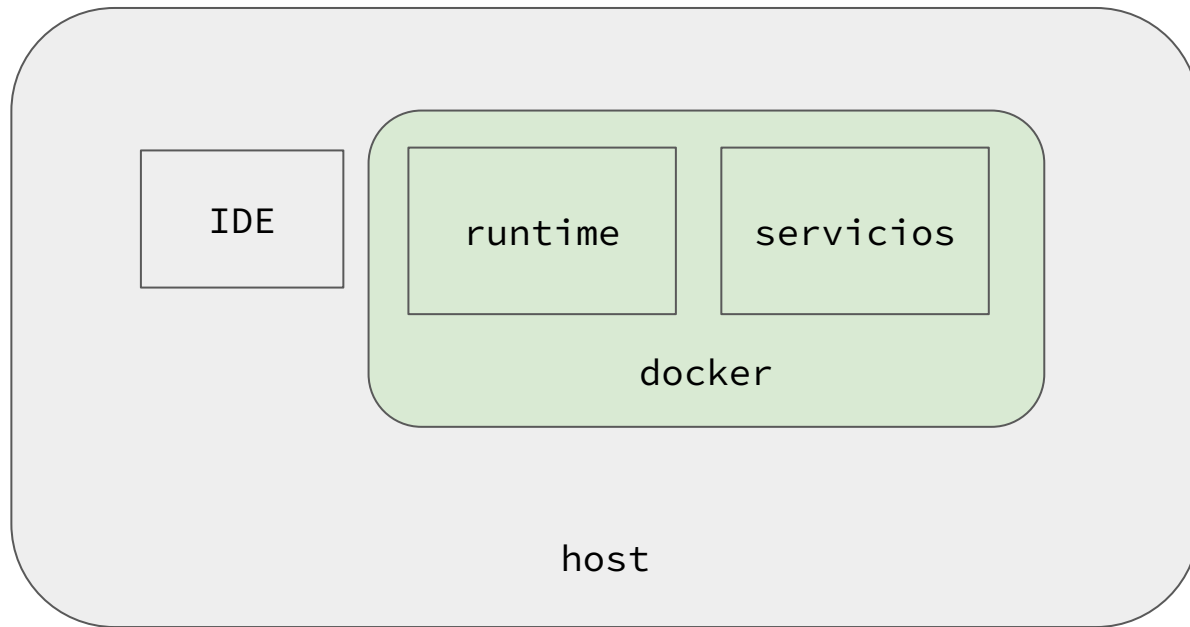
Development docker-compose 1



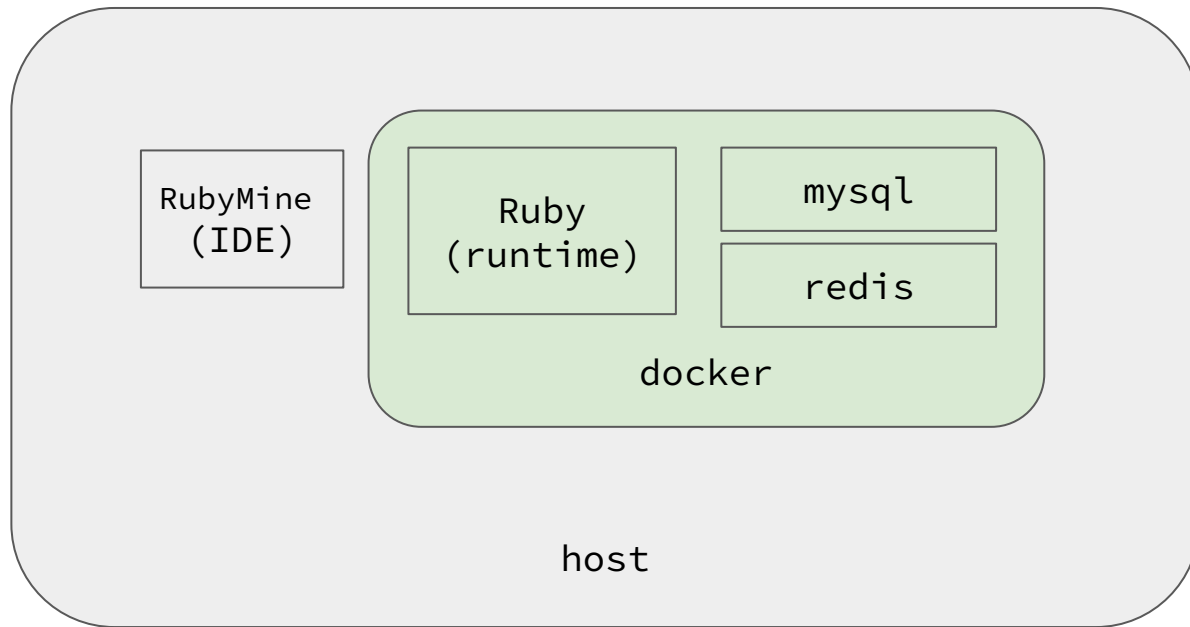
Development con docker-compose 1



Development docker-compose 2



Development docker-compose 2



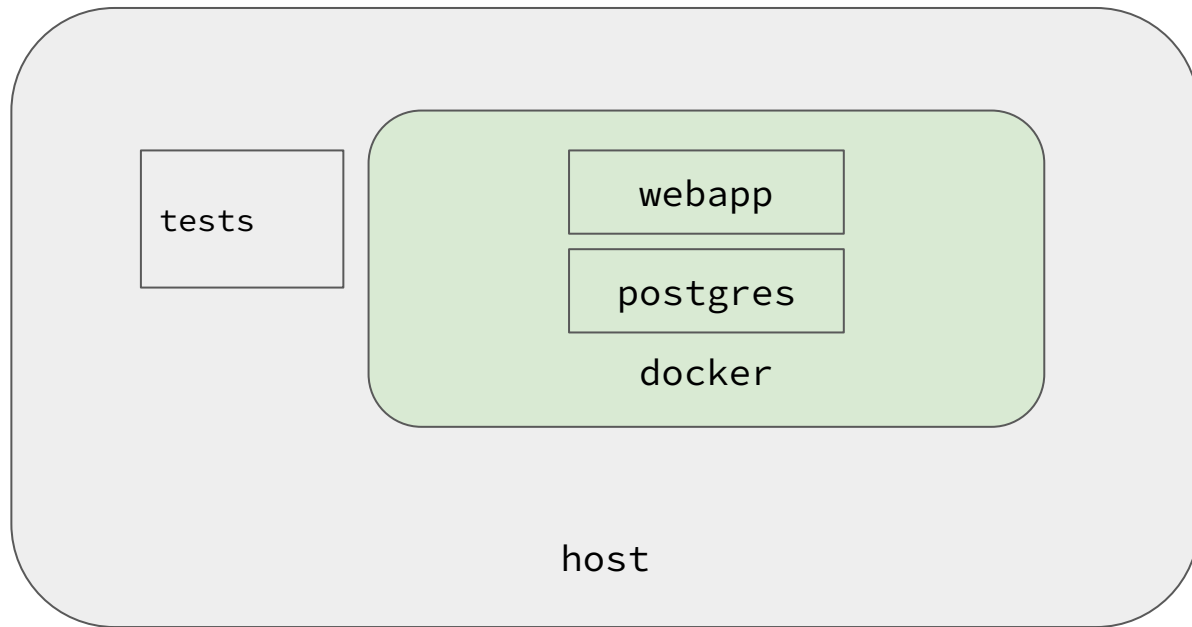
Docker-compose scenarios

<https://github.com/nicopaez/webapi-example>

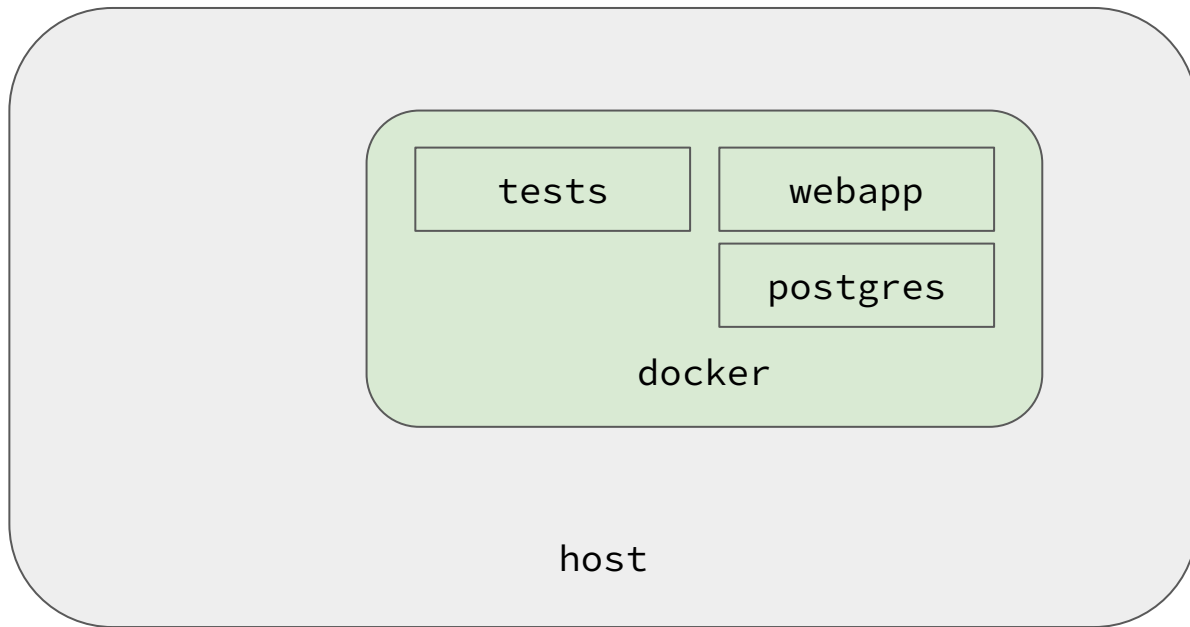
```
docker-compose up -d
```

```
docker-compose exec webapp /bin/bash
```

Testing end-2-edge



Testing end-2-edge



Demo: e2e testing sin ambiente

Demo: HomeBanking

Docker: Production challenges

Single Point of failure / Availability

Management cost

Restricted Scalability

End of Session 3