

A vibrant, stylized map of Barcelona, Spain, rendered in a flat, illustrative style. The map is set against a light orange background with white lines representing the city's street grid. Various landmarks and buildings are depicted in bright colors, including the Sagrada Família, the Guggenheim Museum, the Picasso Museum, the Palau Nacional, the Casa Batlló, the Casa Milà, the Torre Agbar, the Port of Barcelona, and the Barceloneta beach. People are shown walking, cycling, and playing sports throughout the city, adding a sense of life and activity to the map. The overall aesthetic is modern and artistic, capturing the essence of Barcelona's urban landscape and cultural heritage.



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Wifi, Slides and Channel

- Wifi
 - SSID:
 - Pass:
- Workshop repository
 - <https://github.com/silvin-lubecki/dap-workshop-dceu18>
- Slack chat details
 - <https://dockr.ly/dceuslack>
 - #dceu-docker-app



Agenda

- Exercise 1: Set up your environment
- Exercise 2: Write and Deploy a Compose file
- Exercise 3: Discover Docker Application Package
- **5 minutes Break**
- Exercise 4: Configure your application with parameters
- Exercise 5: Install with docker-app
- Exercise 6: Share your application
- Q&A



Audience

- Who has heard about compose files?
 - Day to day use?
 - Can you write one on your own?
 - Do you use it in production?
 - Who uses docker-compose ?
 - Who uses docker stack deploy ?
- Who uses swarm ?
- Who uses kubernetes?



Exercise 1: Set up your environment

- Go to [Exercise 1](#)
- Approximately 10 minutes



Swarm and Kubernetes



For this workshop, we will focus on **Swarm** orchestrator as it works with Play with Docker and all Docker engines.

Feel free to run the examples on **Kubernetes** if you are comfortable with it, everything should work the same way.



Exercise 2: Write and Deploy a Compose file

- Go to [Exercise 2](#)
- Approximately 20 minutes

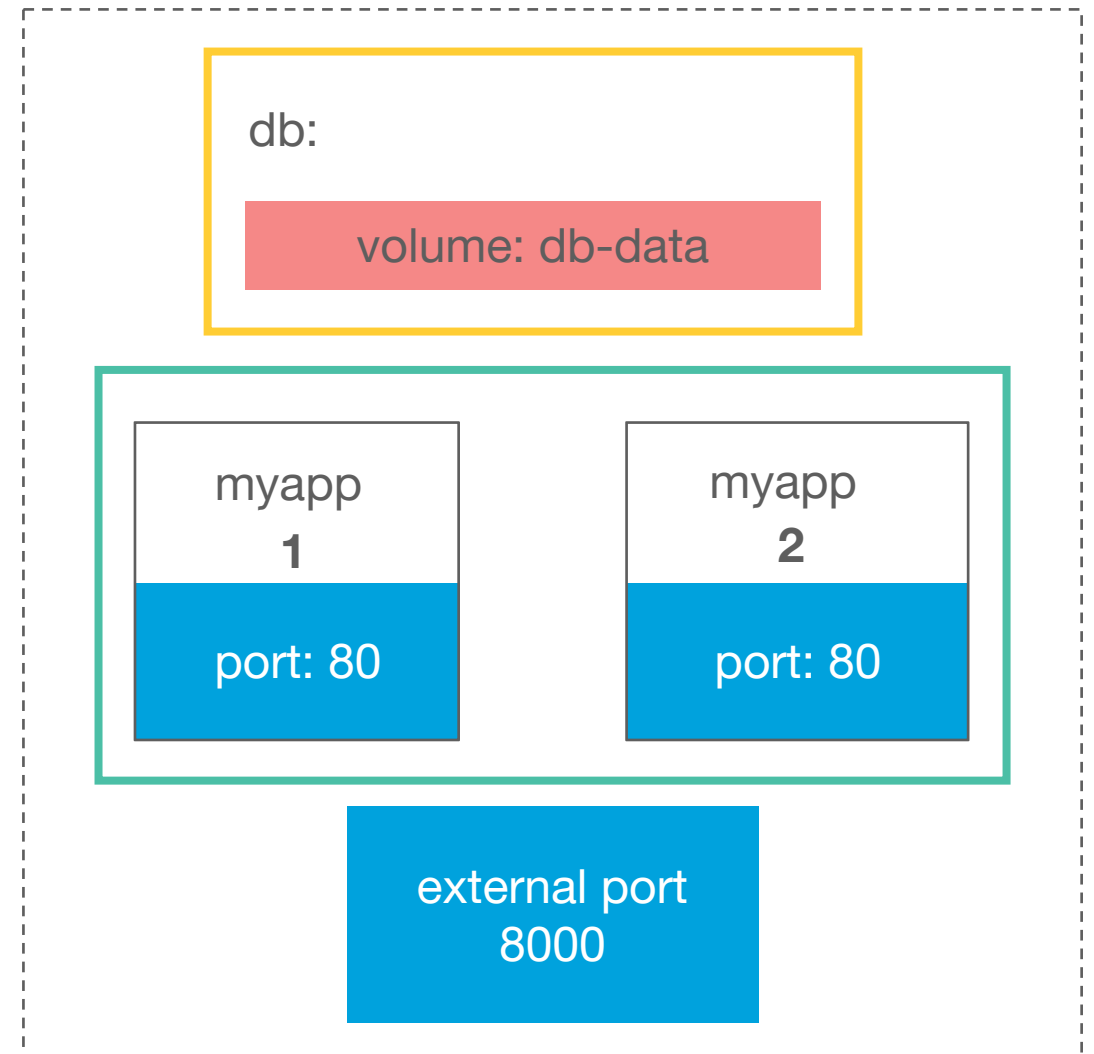


Compose

```
myapp:  
  image: myapp:latest deploy  
  deploy:  
    replicas:2  
  ports:  
    - "8000:80"
```

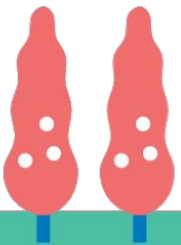
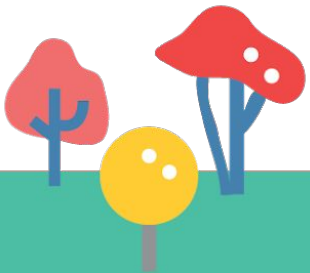
```
db:  
  image: mysql: 5.7  
  volumes:  
    -db-data:/vol/lib/mysql
```

STACK



Compose is Simple

```
1 | version: '3.3'
2 |
3 | services:
4 |   db:
5 |     image: mysql:5.7
6 |     volumes:
7 |       - db-data:/var/lib/mysql
8 |     environment:
9 |       MYSQL_ROOT_PASSWORD: somewordpress
10 |      MYSQL_DATABASE: wordpress
11 |      MYSQL_USER: wordpress
12 |      MYSQL_PASSWORD: wordpress
13 |
14 |   wordpress:
15 |     image: wordpress:latest
16 |     volumes:
17 |       - wordpress-data:/var/www/html
18 |     ports:
19 |       - "8000:80"
20 |     environment:
21 |       WORDPRESS_DB_HOST: db:3306
22 |       WORDPRESS_DB_USER: wordpress
23 |       WORDPRESS_DB_PASSWORD: wordpress
24 |
25 | volumes:
26 |   db-data:
27 |   wordpress-data:
```



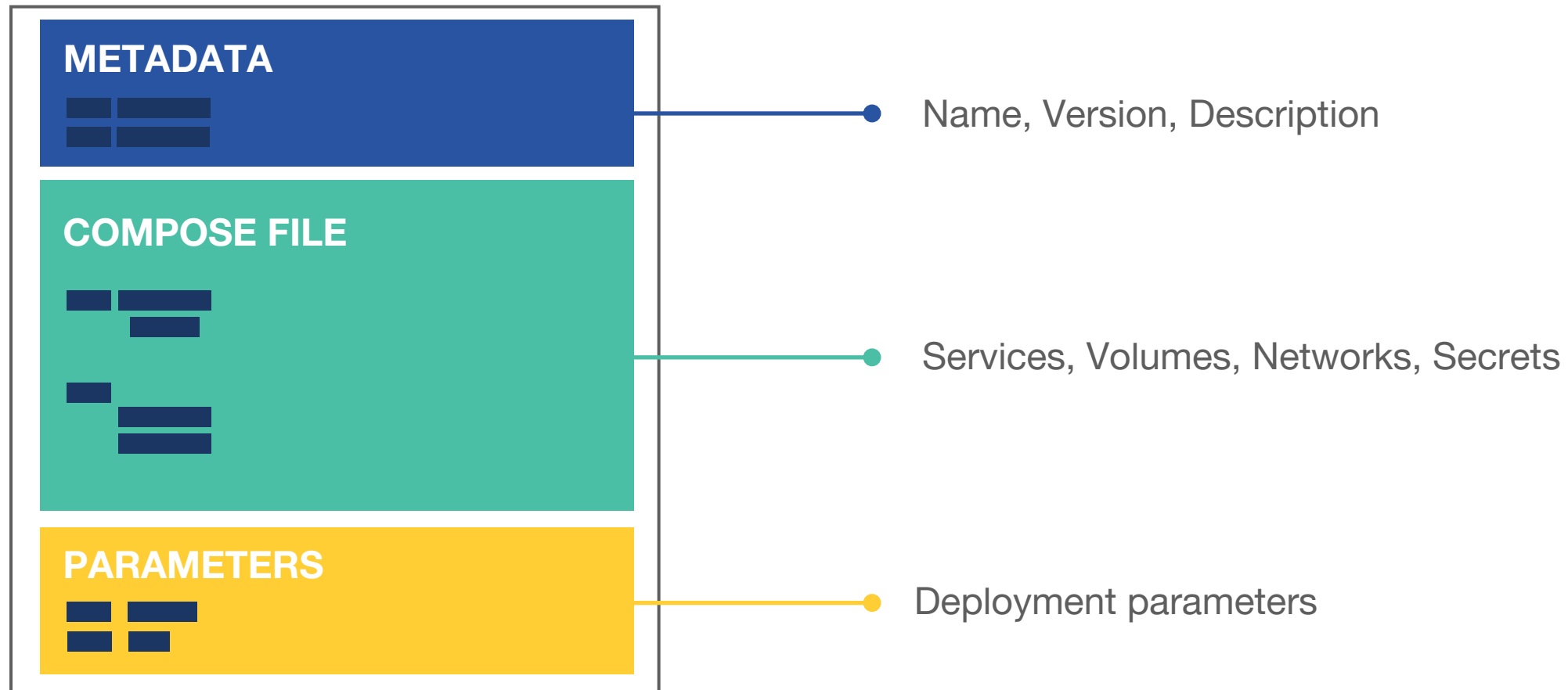
Exercise 3: Discover Docker Application Package

- Go to [Exercise 3](#)
- Approximately 20 minutes



What is an Application?

APPLICATION





BREAK - 5mn

Exercise 4: Configure your application with parameters

- Go to [Exercise 4](#)
- Approximately 20 minutes



Exercise 5: Install with docker-app

- Go to [Exercise 5](#)
- Approximately 10 minutes



Exercise 6: Share your application

- Go to [Exercise 6](#)
- Approximately 10 minutes



Future of Docker Application Package

- Integrated in docker CLI as “docker app”
- Fully integrated in Docker EE
- Features asked by the community
 - Disable a service at runtime
 - Attachments can be rendered too (config files)



Other related sessions at DockerCon

- Cloud-Native Developer Workflows with Docker Containers
 - Gareth Rushgrove, Product Manager, Docker
 - Tuesday, Dec 4, 12:00 PM - 12:40 PM, Room 112
- App-in-a-Box with Docker Application Packages
 - Michael Irwin, Docker Captain
 - Tuesday, Dec 4, 4:30 PM - 05:10 PM, Room 115
- Why We Moved From a CRD to API Aggregation in Compose for Kubernetes
 - Chris Crone, Engineering Manager, Docker
 - Wednesday, Dec 5, 2:55 PM - 03:35 PM, Room 114



Documentation and repositories

- Compose Files references
 - <https://docs.docker.com/compose/compose-file/>
- Docker Application Package
 - <https://github.com/docker/app>
 - **Open Source - Contributions welcome!**
- Docker Compose
 - <https://github.com/docker/compose>
 - **Open Source - Contributions welcome!**



Get the Code



Compose and docker-app
are open source

Contributions welcome!

github.com/docker/app

github.com/docker/compose



We're Hiring!



Engineering Offices in Cambridge & Paris

docker.com/careers



Questions?





GET THE CODE

github.com/docker/app

github.com/docker/compose



WE'RE HIRING!

docker.com/careers