Introduction
Hi, I am Silvio

Information designer and developer @ visuelles in Vienna

Open Source and Open Data enthusiast

Cat lover and dog walker
Hands up, who ...

... heard of Docker before.

... used Docker already.

... used Docker for a Wordpress installation.

... used the wordpress image from Docker Hub.
Service announcement

“On Thursday, April 25th, 2019, we discovered unauthorized access to a single Hub database storing a subset of non-financial user data. Upon discovery, we acted quickly to intervene and secure the site.

During a brief period of unauthorized access to a Docker Hub database, sensitive data from approximately 190,000 accounts may have been exposed (less than 5% of Hub users). Data includes usernames and hashed passwords for a small percentage of these users, as well as Github and Bitbucket tokens for Docker autobuilds.”

Kent Lamb Director of Docker Support info@docker.com
April 26th, 2019
Service announcement

- change your password on Docker Hub
- autobuilds: reconnect to your repositories and check security logs
Schedule for today

1. What is Docker?
2. Docker for Wordpress
3. Best practise for development
4. Best practise for testing
5. Best practise for production

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1 What is Docker?
Container vs. Virtual Machine

Containerized Applications

- App A
- App B
- App C
- App D
- App E
- App F

Docker

Host Operating System

Infrastructure

Virtual Machine

- App A
  - Guest Operating System

Virtual Machine

- App B
  - Guest Operating System

Virtual Machine

- App C
  - Guest Operating System

Hypervisor

Infrastructure

Source: docker.com

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Docker by the numbers

80B
Container downloads

200+
Meetups Around the Globe

100K+
Third-party projects using Docker

2M
Dockerized Applications in Hub

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All platforms supported

- **Docker Desktop for Windows**
  - By Docker
  - Updated 2 months ago
  - The fastest and easiest way to get started with Docker on Windows

- **Docker Desktop for Mac**
  - By Docker
  - Updated 2 months ago
  - The fastest and easiest way to get started with Docker on Mac

- **Docker Engine - Ubuntu (Community)**
  - By Docker
  - Updated 2 months ago
  - The best way to run Docker on Ubuntu

- **Docker Engine - Debian (Community)**
  - By Docker
  - Updated 2 months ago
  - The best way to run Docker on Debian

- **Docker Engine - Fedora (Community)**
  - By Docker
  - Updated 2 months ago
  - The best way to run Docker on Fedora

- **Docker Engine - CentOS (Community)**
  - By Docker
  - Updated 2 months ago
  - The best way to run Docker on CentOS

- **Docker Engine - Azure (Community)**
  - By Docker
  - Updated 2 months ago
  - A one-click template to quickly deploy Docker on Azure

- **Docker Engine - AWS (Community)**
  - By Docker
  - Updated 2 months ago
  - A one-click template to quickly deploy Docker on Amazon EC2
Why I am using Docker

Consistency

Reproducibility

Automatisation
First steps

docker version

docker run hello-world

docker ps
Docker Compose

docker-compose up

docker-compose up -d

docker-compose down

docker-compose pull
2 Docker for wordpress
The WordPress rich content management system can utilize plugins, widgets, and themes.
Image variants

wordpress:<version>  wordpress:<version>-<php version>  wordpress:cli

wordpress:latest  wordpress:5.1-php7
wordpress:5  wordpress:5.1-php7.1
wordpress:5.1  wordpress:5.1-php7.3
wordpress:5.1.1
3 Best practise for development
Choose your images

**wordpress**

The WordPress rich content management system can utilize plugins, widgets, and themes.

**mariadb**

MariaDB is a community-developed fork of MySQL intended to remain free under the GNU GPL.

**phpmyadmin/phpmyadmin**

A web interface for MySQL and MariaDB.
Choose your images

**wordpress**
Updated 16 minutes ago

The WordPress rich content management system can utilize plugins, widgets, and themes.

**mariadb**
Updated an hour ago

MariaDB is a community-developed fork of MySQL intended to remain free under the GNU GPL.
Best practise for production
Choose your images

wordpress

Updated 16 minutes ago

The WordPress rich content management system can utilize plugins, widgets, and themes.

mariadb

Updated an hour ago

MariaDB is a community-developed fork of MySQL intended to remain free under the GNU GPL.
all examples on

github.com/silvioheinze/wordcamp-vienna-2019
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