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## Container Deployment

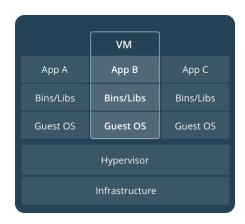
Walkthrough

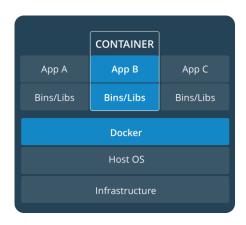
#### What is Docker?

Docker is a software platform that allows you to build, test, and deploy applications quickly, packaging software into standardized units called **containers**.

#### What is a container?

- Container ≠ VM
- Isolated
- Share OS
- and sometimes bins/libs





Source: docs.docker.com

## OpenShift

OpenShift is a layer on top of Docker and Kubernetes that makes it accessible and easy for the developer to create applications



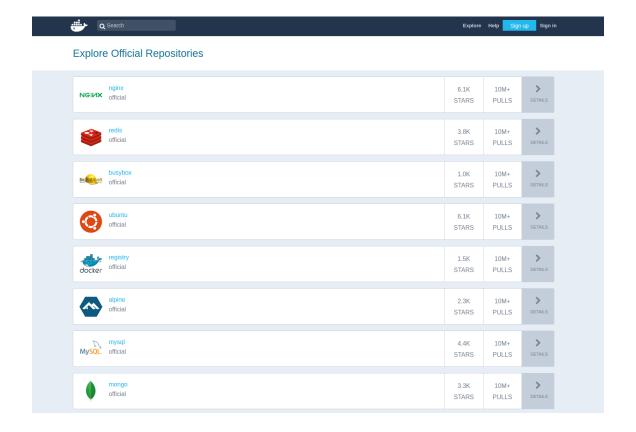
- Web-based Console
- Command-Line Tool
- Logs and metrics
- Templates
- •

Goal → ready-for-production **Indico template** 

## Docker images

- Docker Hub
- Dockerfile

### Docker Hub



#### Dockerfile

It is possible to build your own images reading instructions from a Dockerfile

```
FROM centos:7

RUN yum install -y python-devel python-virtualenv

RUN virtualenv /opt/indico/venv

RUN pip install indico

COPY entrypoint.sh /opt/indico/entrypoint.sh

EXPOSE 8000

ENTRYPOINT /opt/indico/entrypoint.sh
```

## docker-compose

Allows to run multi-container Docker applications reading instructions from a docker-compose.yml file

```
version: "2"
services:
 my-application:
    build: ./
    ports:
      - "8000:8000"
    environment:
      - CONFIG FILE
   image: postgres
 redis:
    image: redis
    command: redis-server --save "" --appendonly no
    ports:
      - "6379"
```

#### Indico on Docker

#### Requirements

Docker docker-compose





#### Demo

```
indico-docker
```

```
$ git clone https://github.com/mvidalgarcia/indico-docker.git
$ cd indico-docker
$ docker-compose up
```

Go to localhost:8080

## Questions?

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