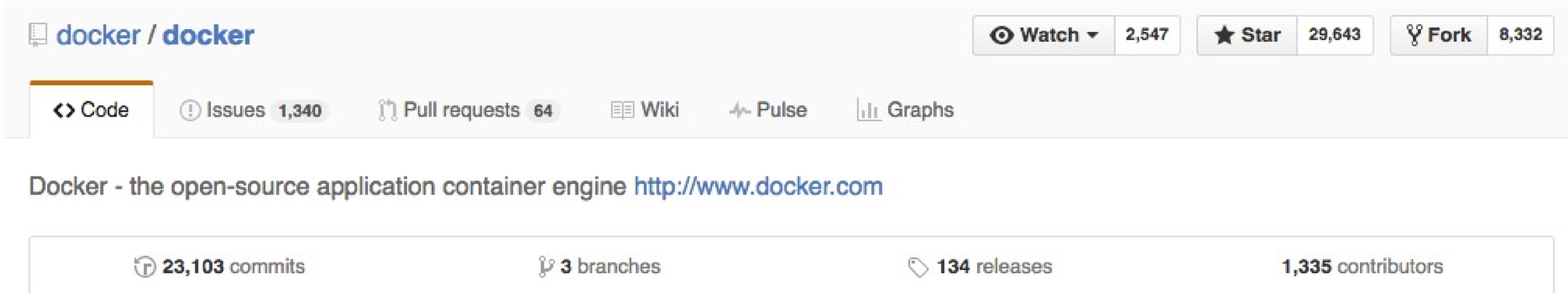
What is Docker?

- Open source project and company



- Used to create containers for software applications
- Package Once Deploy Anywhere (PODA)

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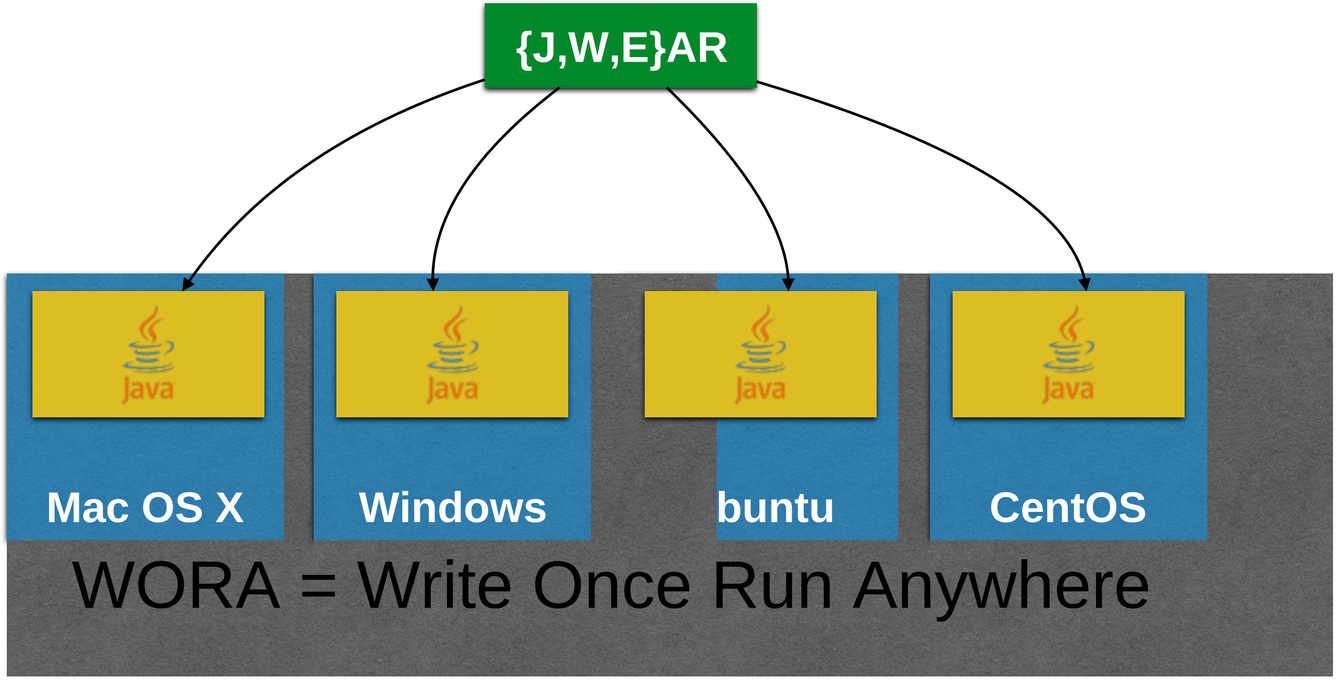

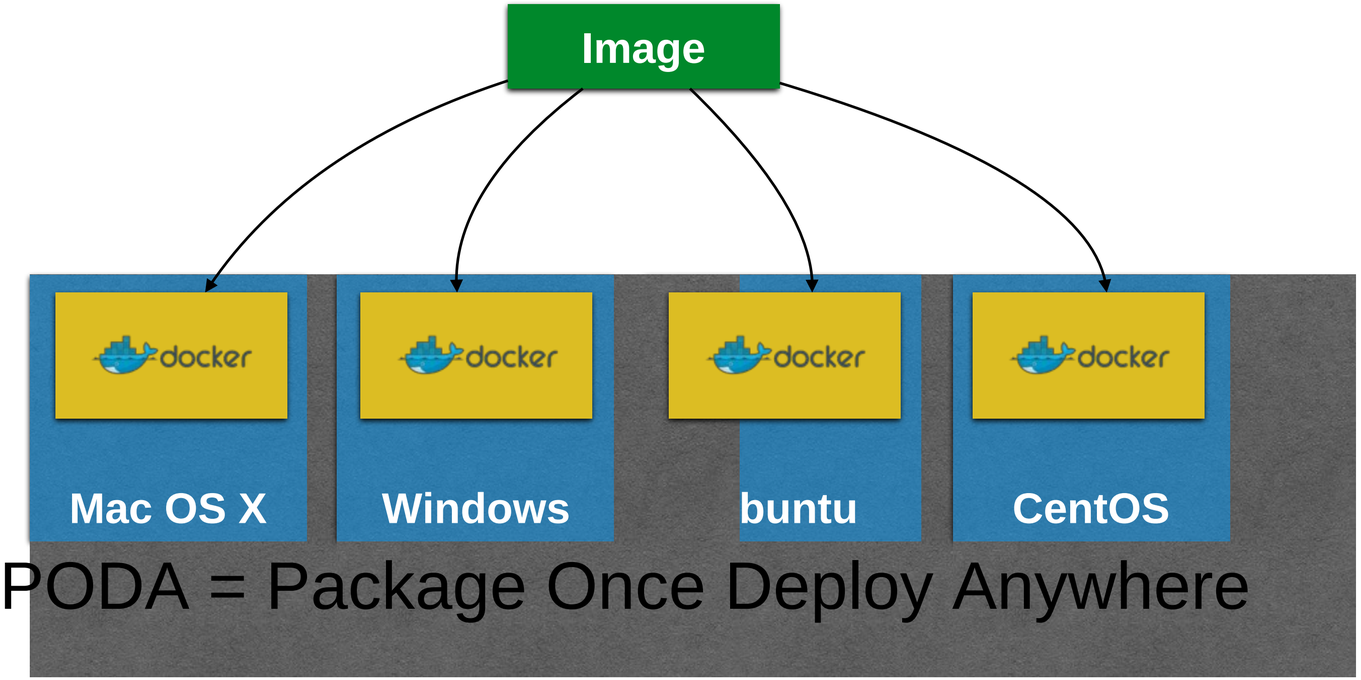

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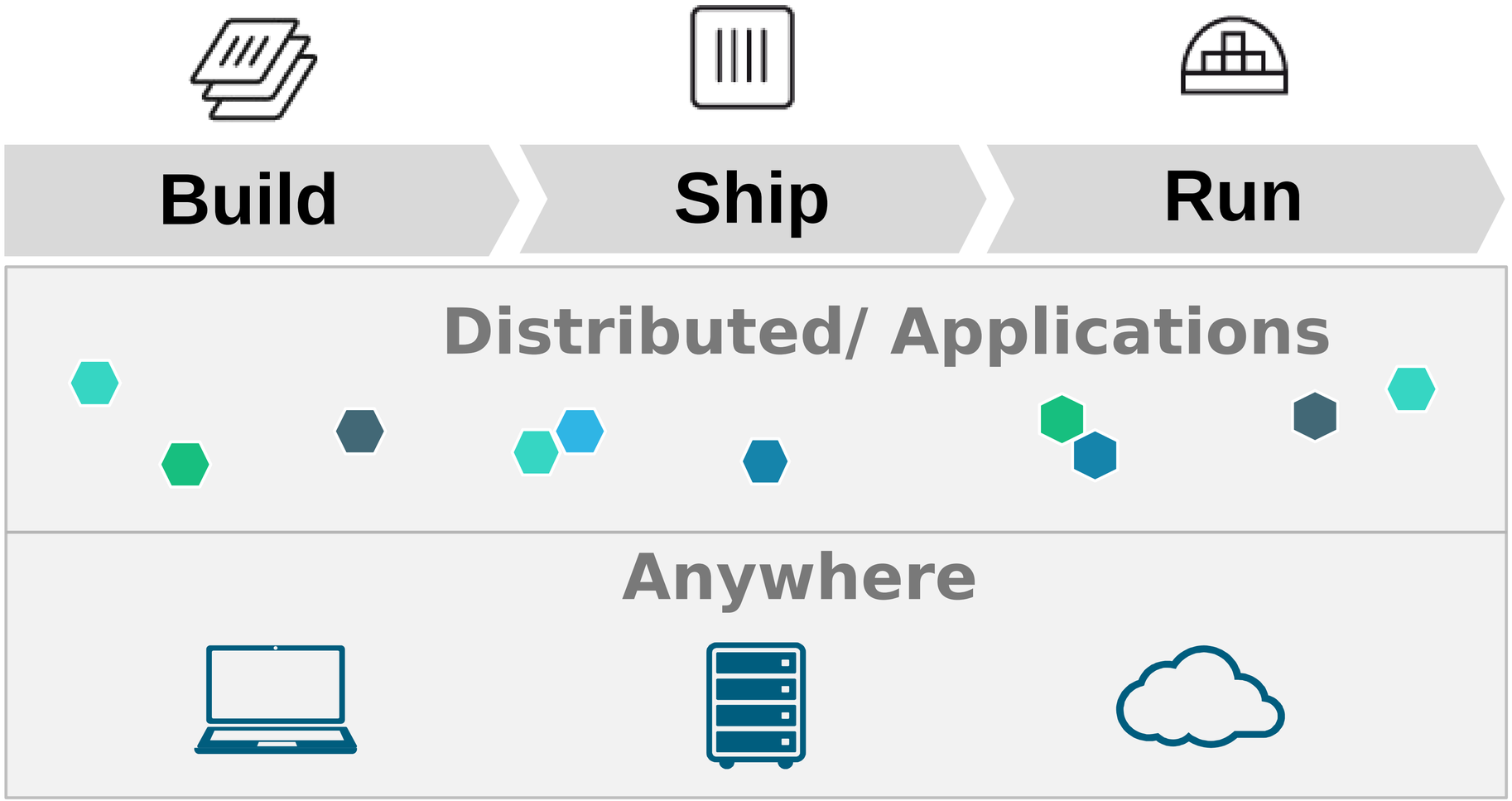
Docker Mission



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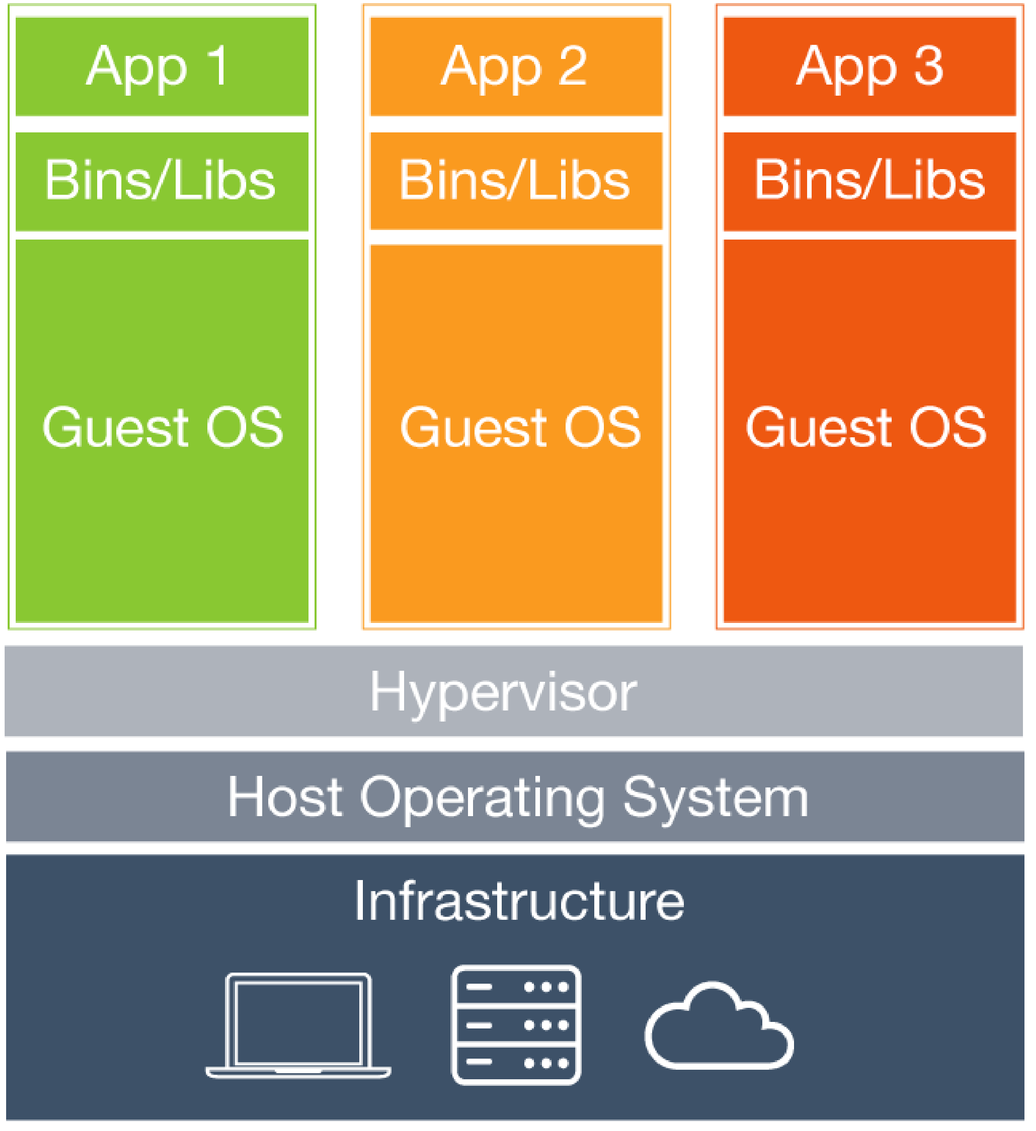

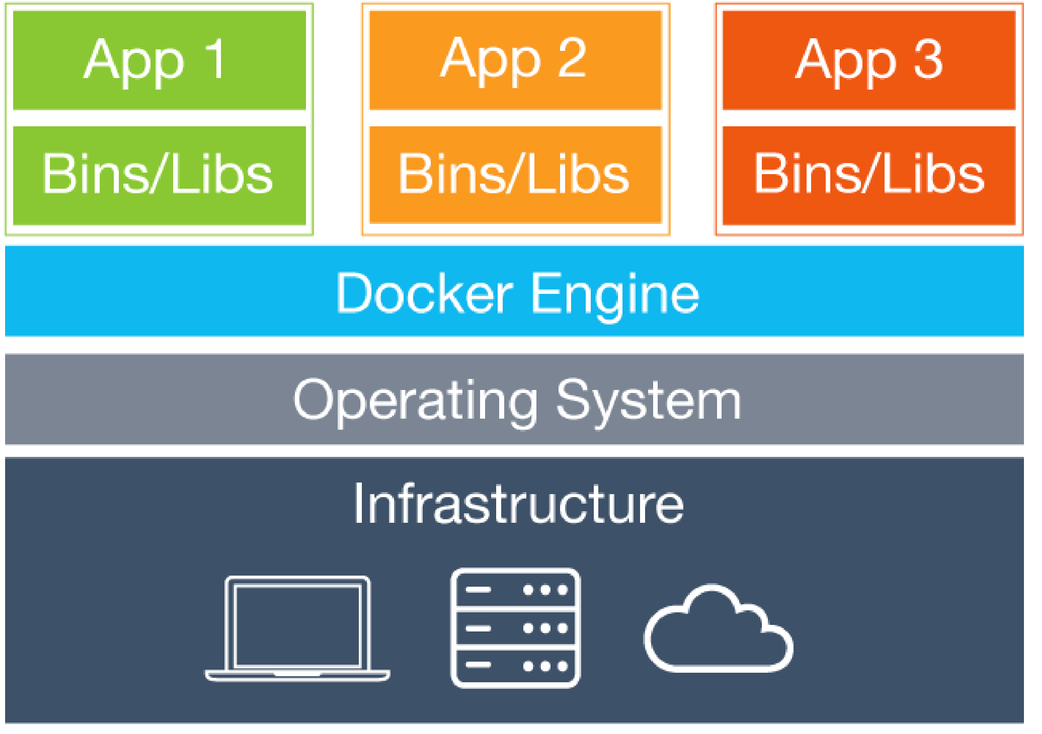

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Build

Develop an app using Docker containers with any language and any toolchain.

```
FROM ubuntu

CMD echo “Hello world”
```

```
FROM java

COPY target/hello.jar /usr/src/hello.jar

CMD java -cp /usr/src/hello.jar org.example.App
```

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- Dockerfile reference
  - Usage
  - Format
    - Environment replacement
    - .dockerignore file
  - FROM
  - MAINTAINER
  - RUN
    - Known issues (RUN)
  - CMD
  - LABEL
  - EXPOSE
  - ENV
  - ADD
  - COPY
  - ENTRYPOINT
    - Exec form ENTRYPOINT example
    - Shell form ENTRYPOINT example
  - VOLUME
  - USER
  - WORKDIR
  - ARG
  - ONBUILD
  - STOPSIGNAL
  - Dockerfile examples

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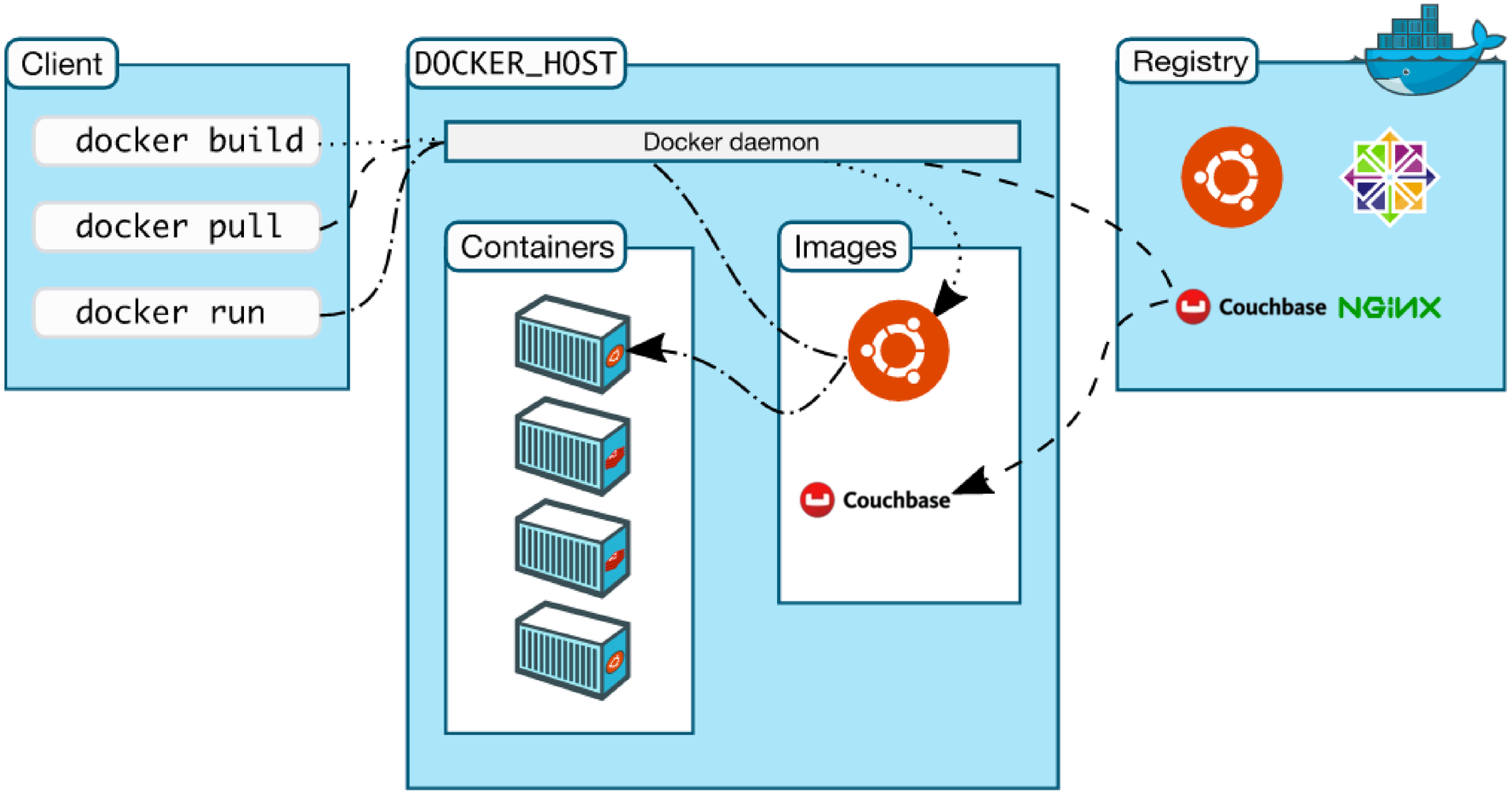
http://docs.docker.com/engine/reference/builder/

Docker Workflow



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Lab 1: Building the First Docker Image