Orchestrating applications with TOSCA and Docker

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Software deployment

The execution of all the activities that make a software system available to use.
Nowadays strictly related to the cloud infrastructure.
Need of a way to express all the **requirements** that the application needs to run.

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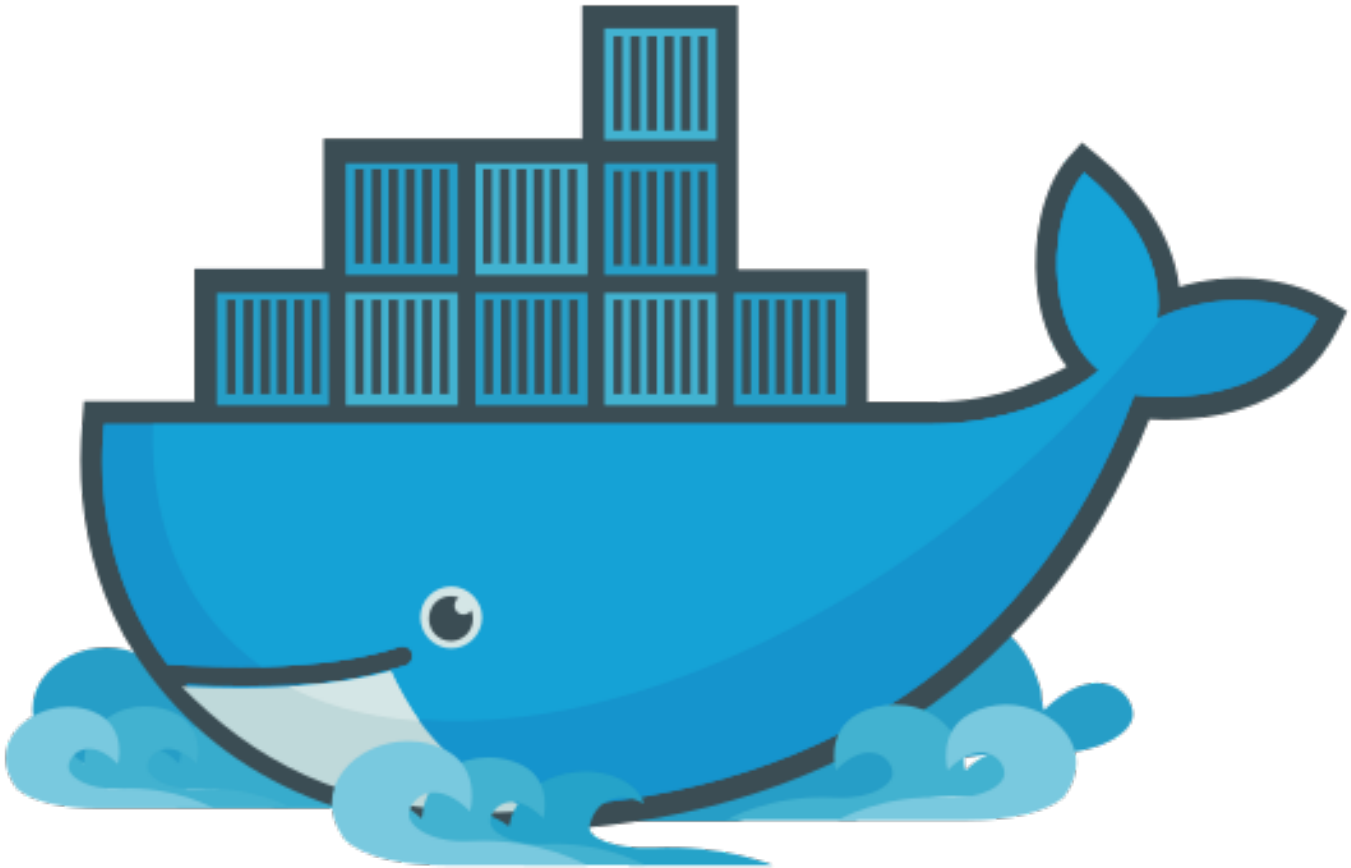
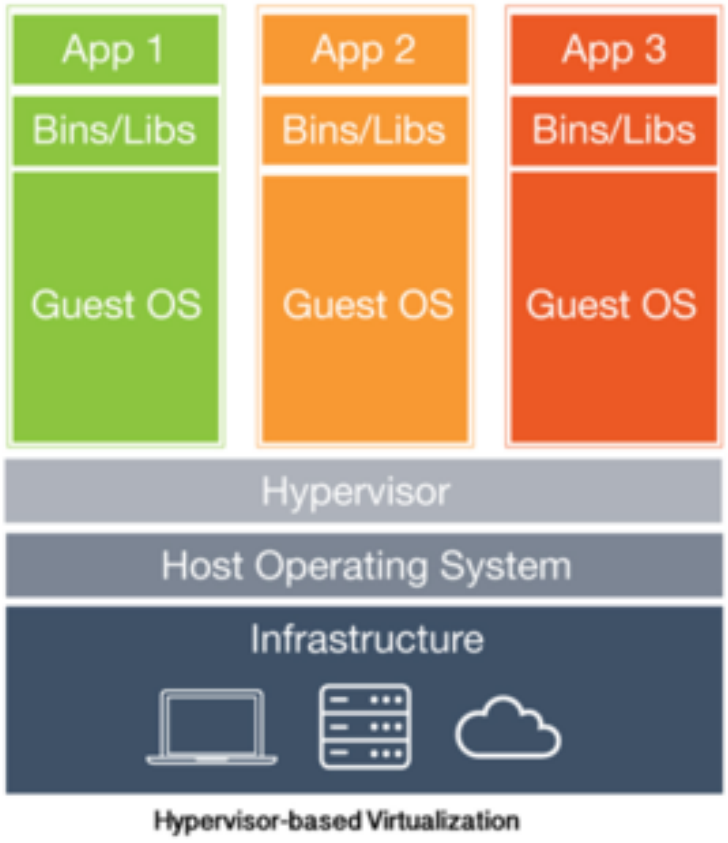
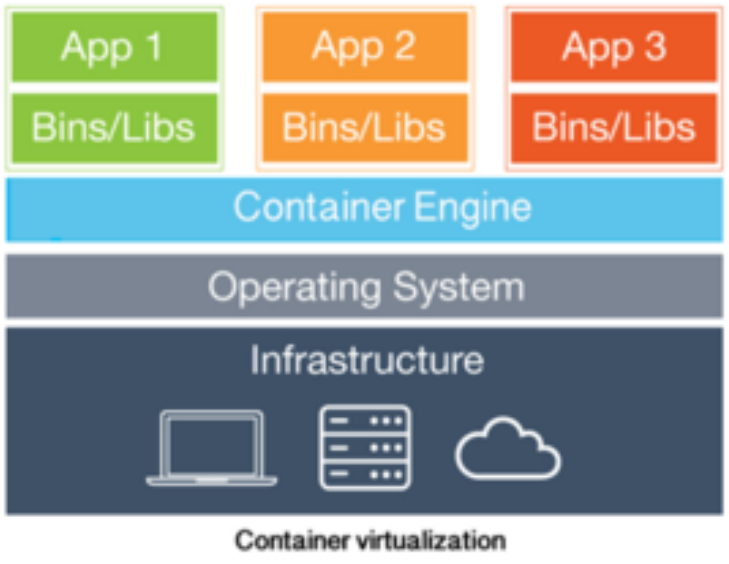
Docker



Docker: What?

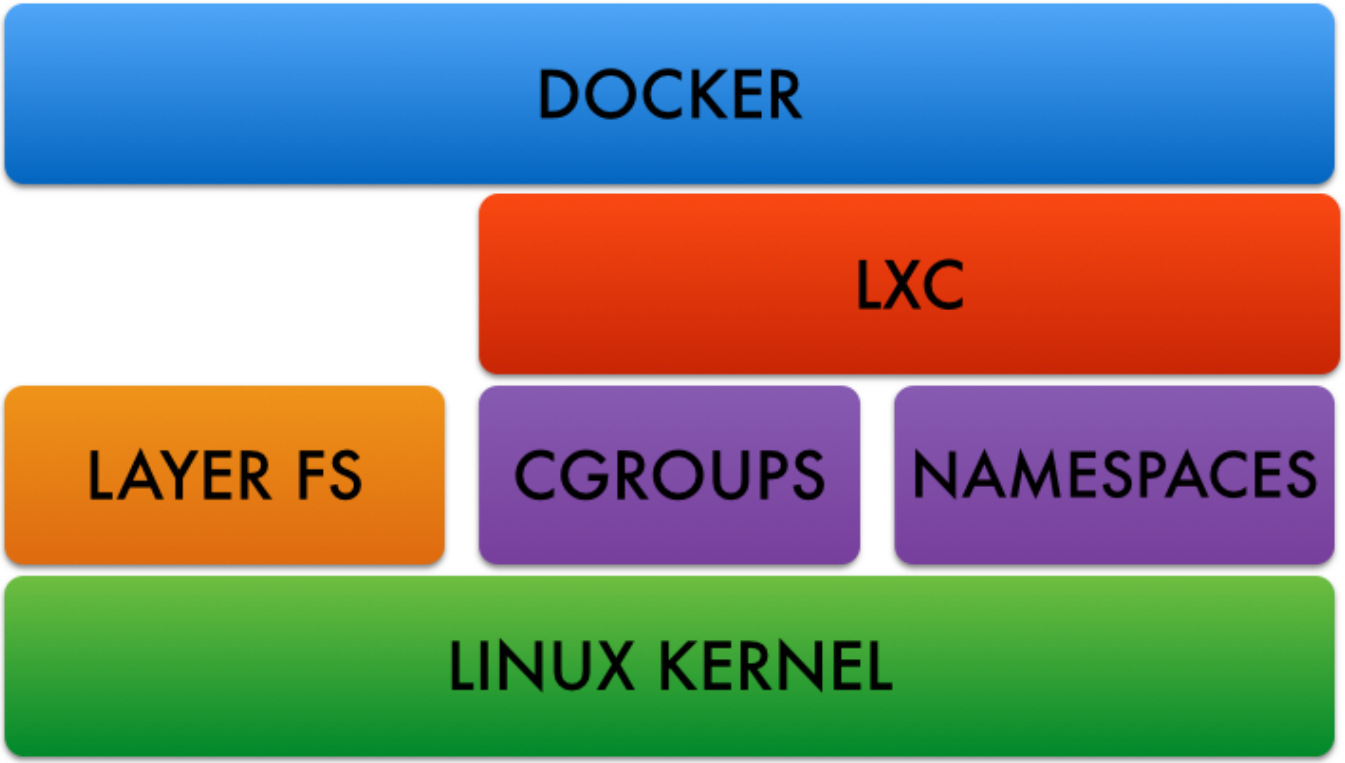


Hypervisor-based Virtualization



Container virtualization

Docker: Architecture



- LXC
- LAYER FS
- CGROUPS
- NAME SPACE
- LINUX KERNEL

Docker: main comcepts

Main concept of the Docker platform

- `Dockerfile`, a scripts to generate an Image
- `Docker Image`, a LAYER FS archive whit all the data
- `Docker Container`, Running instance of a Docker Image
- `Docker Volume`, a persistent data storage
- `Docker Hub`, a Database of Docker Image open to comunity

Docker: pro and cons

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TOSCA: What?

TOSCA: How?

TOSCA: main concept

TOSCA: problems

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TosKer: what?

TosKer: how?

TosKer: DEMO

TosKer: main advantage

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Future works

Conclusions

Thank You

Q&A