

### Docker as a hosting target

Roberto Messora



### About me

#### **Roberto Messora**

#### Specialist @ Value Lab Spa

- GIS / Geospatial expert
- Sofwtare engineer
- Cloud architect



### Follow me live

#### **Github**

https://github.com/robymes/ugidotnet15

#### Slideshare

http://www.slideshare.net/RobertoMessora/docker-as-a-hosting-target



### Agenda

- "It works on my machine"
- Consolidare il deploy: Virtual vs Container
- Docker Container e dintorni
- Scalare Docker: Docker Swarm (et al.)
- Docker Swarm "in da" cloud: Azure & AWS
- Q&A



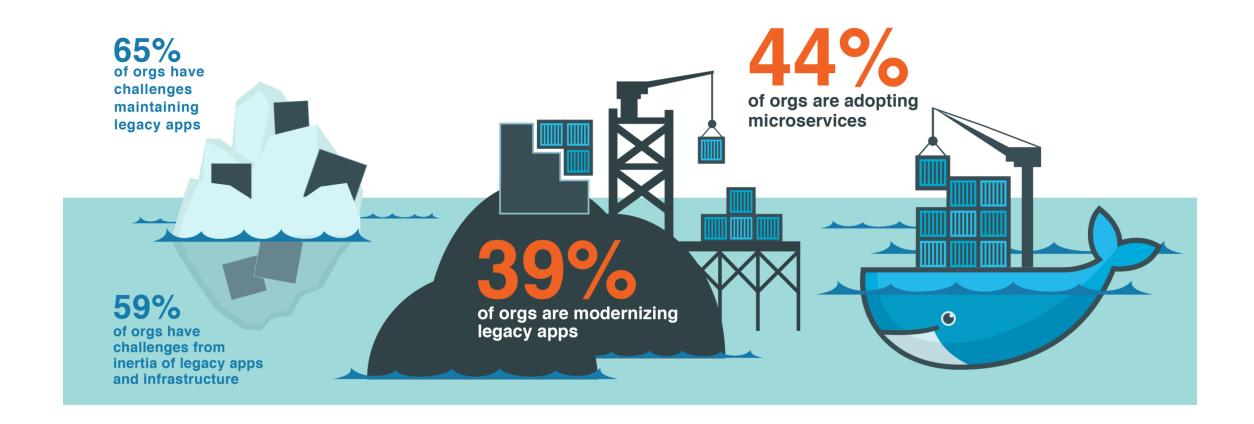






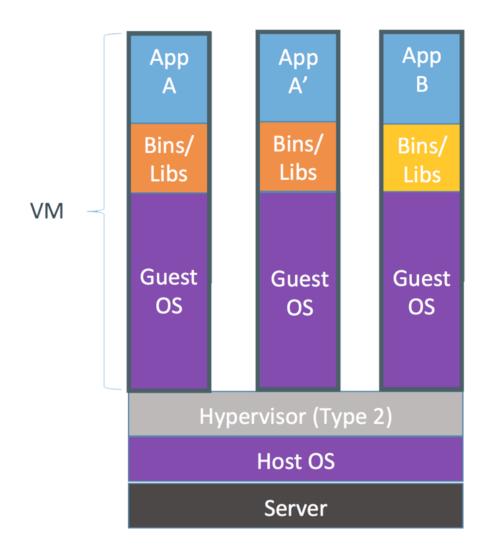


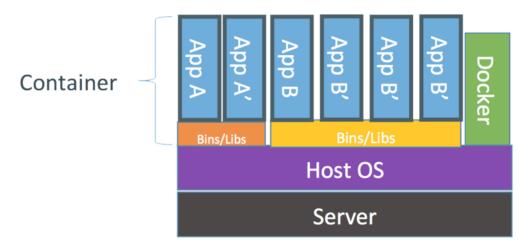
## Docker Survey 2016





# Consolidare il deploy: Virtual vs Container

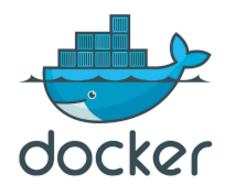






### Cos'è un Container

"Docker containers wrap a piece of software in a complete filesystem that contains everything needed to run: code, runtime, system tools, system libraries – anything that can be installed on a server. This guarantees that the software will always run the same, regardless of its environment."



https://www.docker.com/what-docker



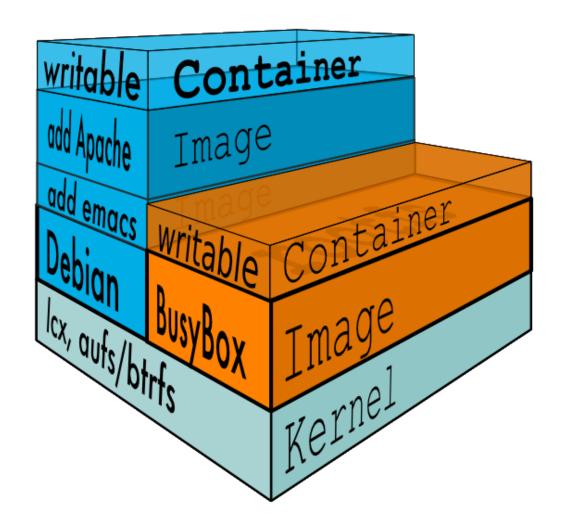


# 1 - demo

Docker Container: un semplice servizio REST basato su Node.JS

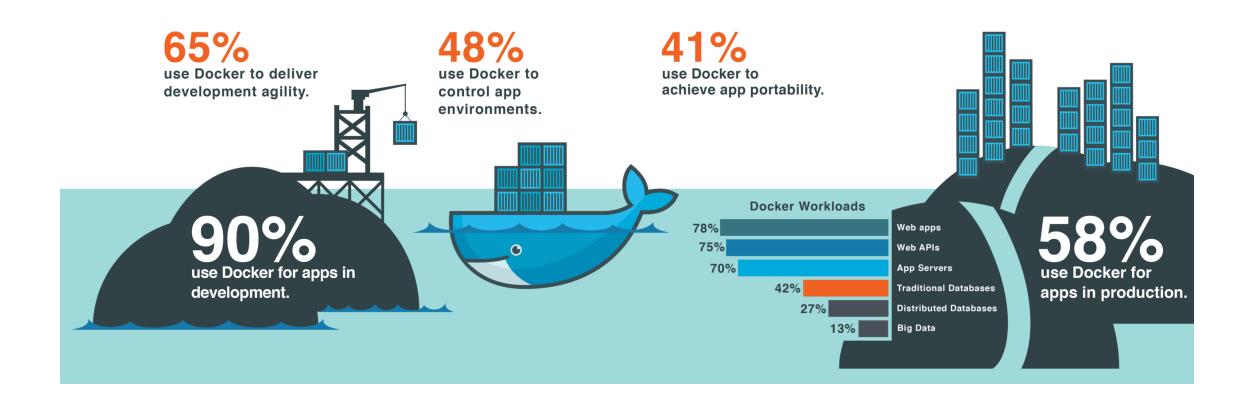


# Docker Container: uno stack di immagini



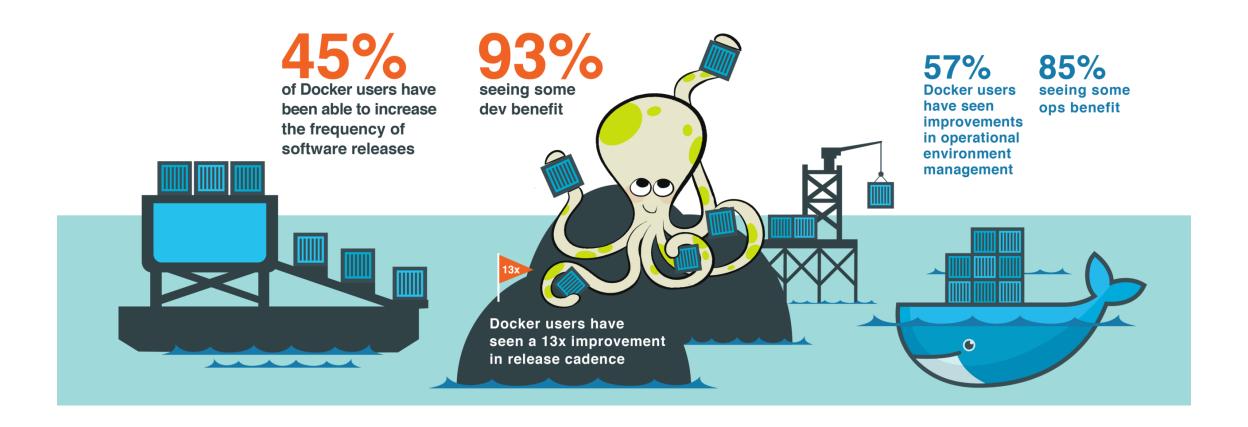


## Docker Survey 2016





## Docker Survey 2016

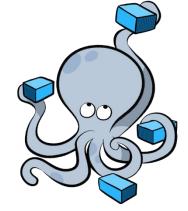




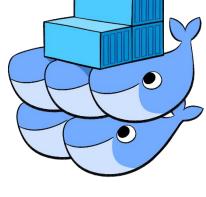
### Docker Container e dintorni

- L'ecosistema Docker è composto da una serie di elementi
  - Docker Container
  - Docker Compose
  - Docker Machine
  - Docker Swarm
  - Docker Hub

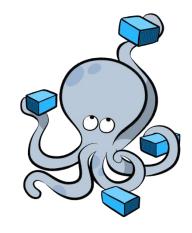










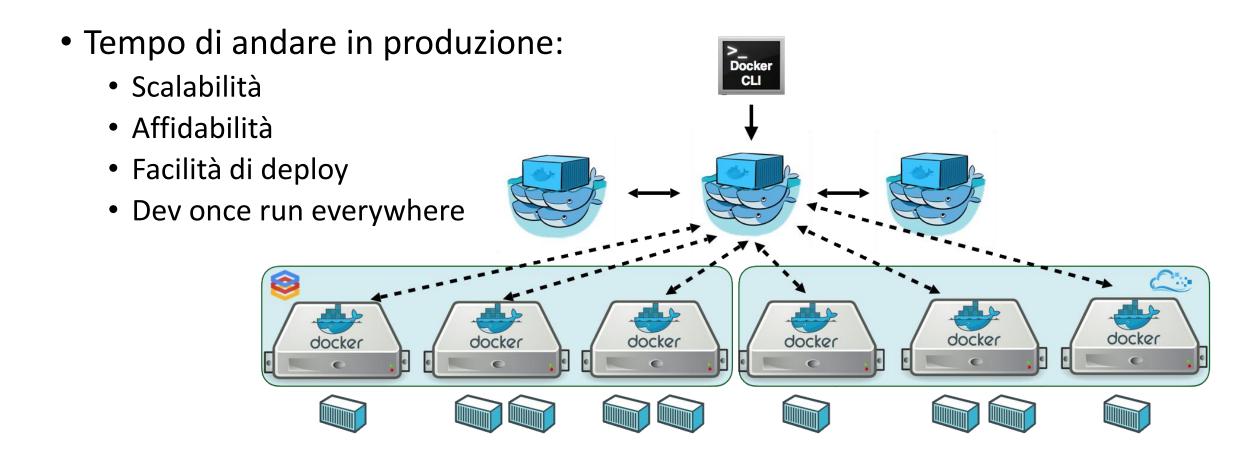


# 2 - demo

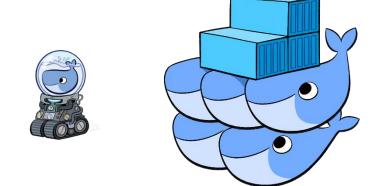
Docker Compose: proxy/load balancer + servizio REST Node.JS + MongoDB



### Scalare Docker: Docker Swarm







# 3 - demo

Docker Swarm: Azure & AWS



### Scalare container: non solo Docker Swarm

- Apache Mesos
- Marathon
- Mesosphere DC/OS
- Kubernetes













### Reference

https://github.com/jwilder/nginx-proxy

• <a href="https://github.com/rafabene/devops-demo">https://github.com/rafabene/devops-demo</a>

https://youtu.be/JgUyl-MIKZ0



# Thank you! Questions?

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