Docker & Portus:
A Winning Duo for Your Infrastructure

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Docker
Docker Today

- 400M+ Docker Container Downloads
- 75000+ Dockerized apps in Docker Hub
- 21000+ GitHub Stars
- 50000 Third party projects using Docker
- 900+ Community Contributors
- 150+ Meet up in 50+ countries
What is Docker?

“Docker allows you to package an application with all of its dependencies into a standardized unit for software development.”
What can I use it for?
Better software development?

• Consistent Environments
• More time for real development
• Empower Developers
A more efficient workflow?

- Quickly scale
- Density
- Easily remediate issues
Practically speaking...

- Continuous Integration
- Continuous Delivery
- Platform-as-a-Service
- Distributed applications
- Easier deployments
What does it look like?
What is Docker's architecture?

Client
- docker build
- docker pull
- docker run

DOCKER_HOST
- Docker daemon

Containers

Images

Registry

WARNING
This is slides contains Canonical's trademark. This slide is being redrawn by our designers right now because it's going to be used also during the keynote. We are going to replace it with the final one once it's ready.
Inside Docker

Docker images

• Read only template
• The “base” of containers
• Prebuild
• “docker build”
• Dockerfile
FROM suse/sles12:latest
MAINTAINER Flavio Castelli <fcastelli@suse.com>

# Create a new demo_user.
RUN /usr/sbin/useradd m
demo_user

# Add our demo application inside of the /demo/ directory, the app is going
# to be renamed from webapp_demo to webapp.
ADD webapp_demo /demo/webapp
ADD web /demo/web
WORKDIR /demo

# Run everything as the "demo_user" user.
USER demo_user

# The demo web application listens on port 8080 by default
# This directive tells Docker that the container will listen on the specified
# port at runtime. This is information is used when connecting multiple running
# containers.
EXPOSE 8080
Inside Docker

Docker containers

• operating system
• user-added files
• Meta-data.
• RW layer
• “docker run”
Inside Docker

Docker registries

“A registry is a storage and content delivery system, holding named Docker images, available in different tagged versions.”

- Public
- Private
SUSE ♥ Docker
SUSE & Docker

• You have the choice
• We bridge the gap
Distribution?

- No auth
- No audit
- No collaboration
Get in touch!

containers@lists.suse.com

http://port.us.org

https://github.com/SUSE/Portus
Questions & Answers
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