But It Works on My Machine!

How Container Technologies Like Docker Can Revolutionize **Continuous Integration**

by Glenn Brown

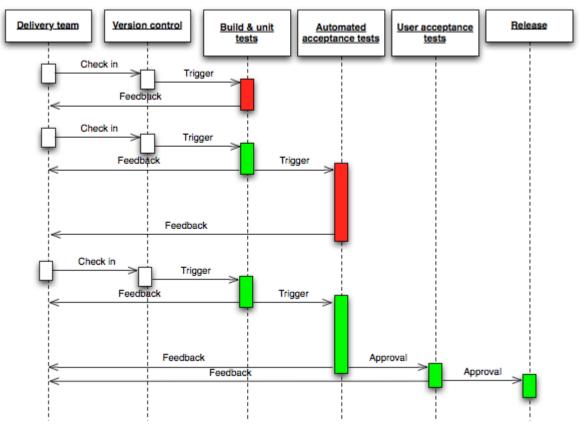
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Who Am I?







Goals of a Build Pipeline

Visibility



Goals of a Build Pipeline

- Visibility
- Consistency



Goals of a Build Pipeline

- Visibility
- Consistency
- Quality Assurance



Goals of a Build Pipeline

- Visibility
- Consistency
- Quality Assurance
- Fast Feedback



Problems We Face -

Environment Disparity









Problems We Face -

Non-Standard Configuration



Problems We Face -

Tribal Knowledge



The Result - Mass Hysteria!!!



A consistent, portable server environment

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 - Allow images to derive from other images
 - Shareable via centralized repositories

Servers Built Through Code

FROM ubuntu

ENV DEBIAN_FRONTEND noninteractive

RUN apt-get install -y dialog

RUN apt-get update

RUN apt-get upgrade

RUN apt-get -y install tomcat7 tomcat7-admin

RUN apt-get -y install tomcat7-admin

RUN apt-get -y install tomcat7-user

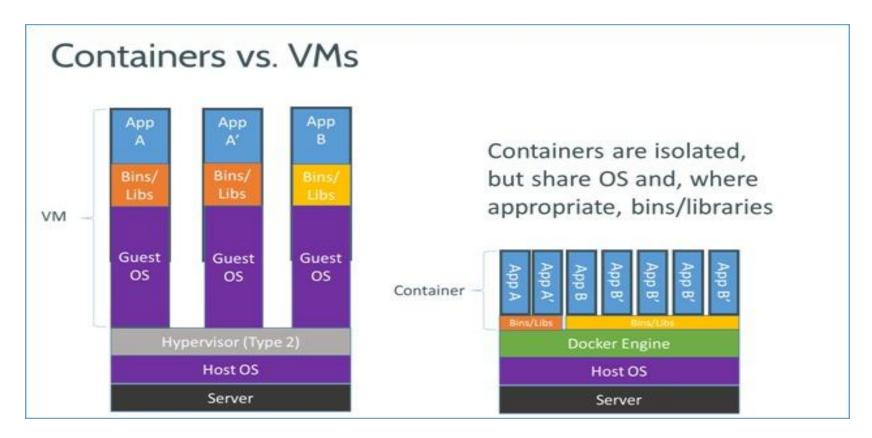
ADD ./tomcat-users.xml /etc/tomcat7/tomcat-users.xml

EXPOSE 8080

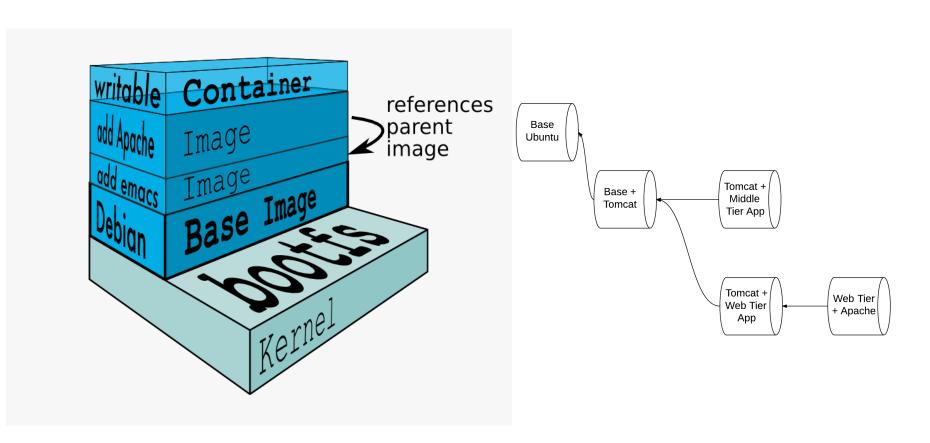
CMD service tomcat7 start && tail -f

/var/lib/tomcat7/logs/catalina.out

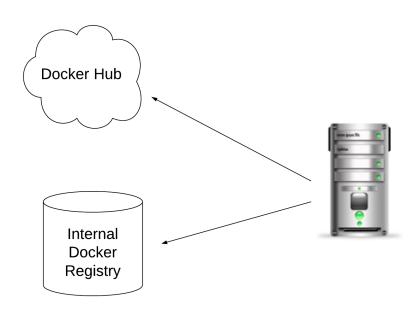
Lightweight - Can Run Anywhere



Can Derive from Other Images



Sharable via Centralized Repos



Any Questions?

