But It Works on My Machine!

How Container Technologies Like Docker Can Revolutionize Continuous Integration

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Who Am I?
Build Pipeline

Goals of a Build Pipeline

- Visibility
Build Pipeline

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- Visibility
- Consistency
Build Pipeline

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- Visibility
- Consistency
- Quality Assurance
Build Pipeline

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!!!
What Do We Need?

- A consistent, portable server environment
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  - Servers built via code not human effort
  - Light weight so it can run anywhere
  - Allow images to derive from other images
  - Shareable via centralized repositories
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

**Containers vs. VMs**

containers are isolated, but share OS and, where appropriate, bins/libraries.
Can Derive from Other Images
Sharable via Centralized Repos
Any Questions?

"It is not the answer that enlightens, but the question."

"The most important thing is not to stop questioning."

Any Questions?