



A TECHWELL EVENT

T10

DevOps/Continuous Delivery

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Automate Your Application Test Deployments with Docker

Presented by:

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Artem Golubev

Artem Golubev is a software veteran, with more than 20 years in Software Development building various B2B Enterprise and E-Commerce software at companies like Microsoft, Salesforce. He is a Certified Enterprise Architect, holds CC, CL, ACB certifications from Toastmasters. During his career, he's learned a lot about infrastructure, code management, and deployment and was Senior Engineering Manager of Infrastructure at Salesforce. More recently he's dedicated time to automated software testing and is working as CEO at TestRigor. He is excited about technology helping people to solve their tedious tasks. Especially zero-downtime no-ops autonomous software which manages itself. He also enjoys snowboarding, full-bodied red wines and just plain fun.

Automate your app deployments with Docker

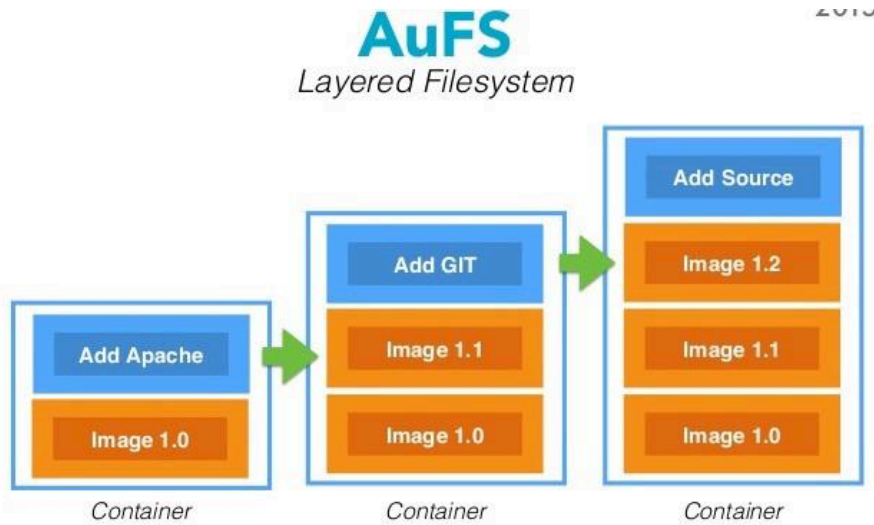
Docker

What is VM?

What is docker?

What is the difference?

Docker file system



Example

```
FROM ubuntu
```

```
RUN apt-get update
```

```
RUN apt-get install -y nginx
```

```
ENTRYPOINT ["/usr/sbin/nginx", "-g", "daemon  
off;"]
```

```
EXPOSE 80
```

Docker Terminology

Dockerfile

Docker image

Docker container

Docker Compose

```
version: '3'
services:
  web:
    build: .
    ports:
      - "5000:5000"
  redis:
    image: "redis:alpine"
```

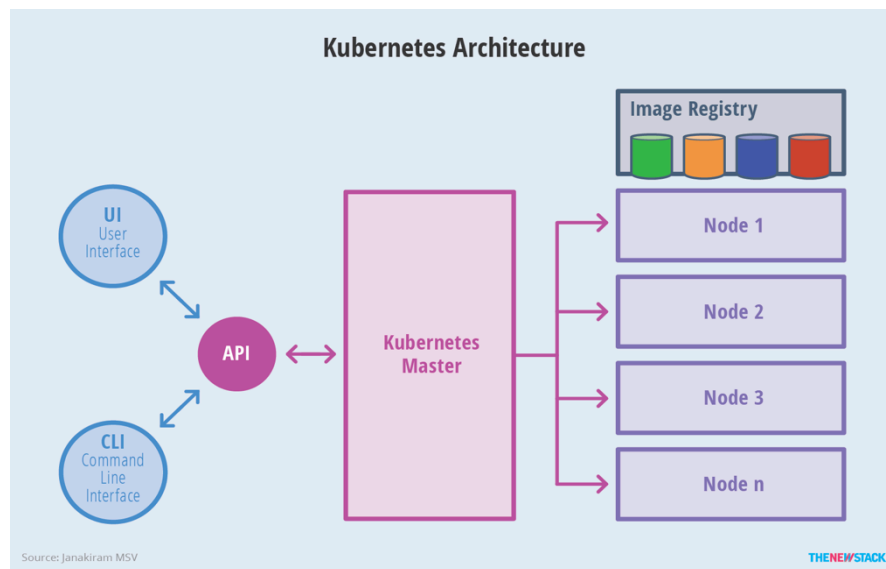
Why Docker Compose is Awesome for QA?

Databases!

Kubernetes

Managing containers at scale

Kubernetes Architecture



Kubernetes Pod Yaml file

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx
spec:
  containers:
  - name: nginx
    image: nginx:1.7.9
    ports:
    - containerPort: 80
```

Demo time!

**Thank you for
listening!**