CI/CD of Microservices with Containers

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Run everything in containers!

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Organize everything efficiently!
Utilization

**Typical Datacenter**
siloed, over-provisioned servers, low utilization (12-15% bare metal, 30% for VMs)

**Containerization Platform**
automated schedulers, workload multiplexing onto the same machines
Services & Containers

- GitLab
- Jenkins
- Marathon
- Cassandra
- Flink
- Spark
- Artifactory
- Kafka
- MongoDB
- Spinnaker

DC/OS

- Container Orchestration
- Security & Governance
- Monitoring & Operations
- User Interface & Command Line

ANY INFRASTRUCTURE

- Physical Servers
- Virtual Servers
- Private Cloud
- Public Cloud Providers (Google, AWS, Azure)
CI/CD Demo

Using Jenkins, the Jenkins+Mesos plugin, and GitLab to test and deploy an nginx-based website.
Questions?

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