Cloud Native Transformation
The Journey Begins Here!

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May 24th, 2016

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Topics

- Cloud Native Transformation
- Lessons Learned
- Mesos Framework Cloud Foundry
What is Cloud Native?
SILOS NO LONGER EXIST

AGILE HAS TAKEN CARE OF THEM
Process

WORKED FINE IN DEV

OPS PROBLEM NOW
Technology

- Transformation of the Enterprise Data Center
- Hybrid DevOps
- Open source technologies
- Platform approach for agility and flexibility
- Commoditization of the infrastructure as code
- SDN and flattening of the network
Lessons Learned
IT ORCHESTRATES
ON MY MACHINE
Welcome to Shipped!

Shipped is an integrated software development lifecycle tool. You can collaborate over builds, orchestrate your deployment, and oversee your running application all from within Shipped.

Build

Assemble your application by setting up microservices using tools you already know and love like Githuob, Vagrant, and Docker.

Deploy

Orchestrate your deployments right from within Shipped. You can deploy to any cloud, manage your environment variables, scale your applications, and manage security.

Run

Once your application is deployed, we'll collect all the logs and metrics so you always know what's happening with each of the services in your application.
“Everything should be made as simple as possible. But not simpler.”

Albert Einstein
Composition
Mesos Framework For Cloud Foundry
CF/JOBS/ +

- api/
- clock/
- consul/
- diego/
- etcd/
- ha_proxy/
- loggregator/
- loggregator_trafficcontroller/
- nats/
- postgres/
- router/
- uaa/
CF/+

- admin_password
- admin_user
- domain
- jobs/
- ssl_pem
- support_address
- syslog_drain/
Interested in Learning More?
Architecture

SUPPORT APPS
- Marathon
- Vault
- Docker
- mesos-consul
- marathon-consul

INFRASTRUCTURE SERVICES
- Consul
- collectd
- ELK stack
- Monitoring

CLUSTER MANAGEMENT & SCHEDULING
- Mesos & Kubernetes

PROVISIONING OF VMs
- Terraform
Summary

Cloud Native Transformation

Lessons Learned

Mesos Framework
Cloud Foundry