

MesosCon
NORTH AMERICA

Deployment API

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Problem Statement

- Goal: Self Service Deployment
- Problem: DC/OS API has a learning curve
 - docker run settings:
 - Enable Docker Log Driver
 - Consistent labels for Docker monitoring
 - Marathon LB settings
 - Miss the \r\n and HAProxy no longer gets updated

Solution: Proxy the DC/OS API

- Adds an extra layer of control
 - DC/OS deployment parameters set by Ops
 - Change management becomes easier
- Utilize DC/OS security
- Runtime Parameters stored in Git
 - Code Reviews on parameter values
 - All the benefits of an SCM

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Git File Structure

- Supports .properties or .yaml files
- Hierarchical inheritance structure
 - application-global.yaml
 - helloworld-deploy.yaml
 - helloworld-deploy-dev.yaml

Deployment API

- REST Service Endpoints
 - deploy: get deployment configuration(s) from git and send to DC/OS
 - status: returns the status of the deployment
 - config: returns the Marathon JSON (debug)

Open Source

- Deployment API is open source:
 - <https://github.com/heremaps/deployment-api>
- Contact:
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Demo

- Jenkins CI/CD with Deployment API Demo