

DevOps vs SRE, CI/CD Pipelines Bridging the Gap



Presented by:
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Evangelist / Harness

Had lots of outages

Destroyer of error budgets











What are we talking about today?

- DevOps and/or/vs SRE?
- Actions favors the bold or prepared
- Eventually you must pull the trigger

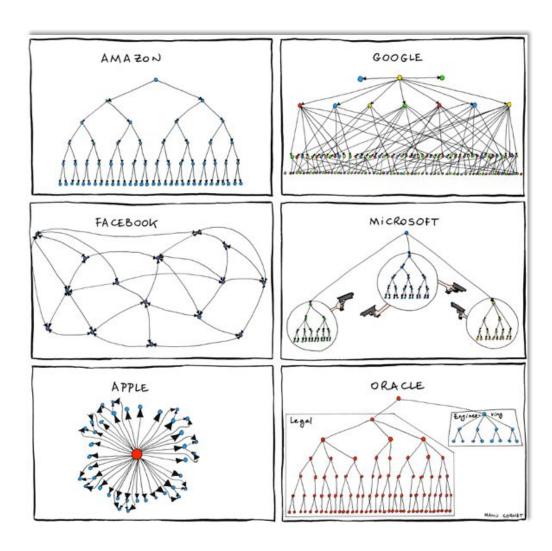
DevOps | SRE



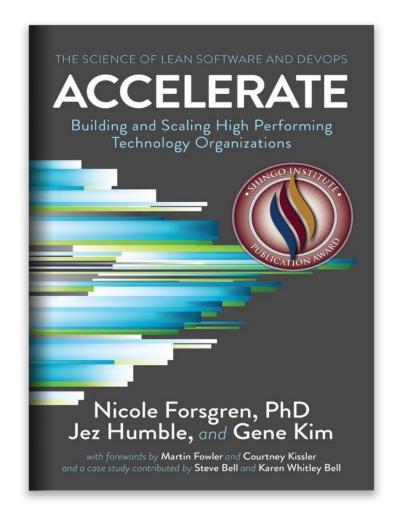
Enabling Efficiency and Resiliency

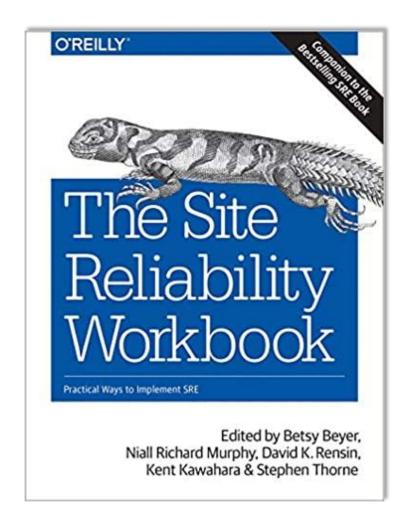


Conway's Law

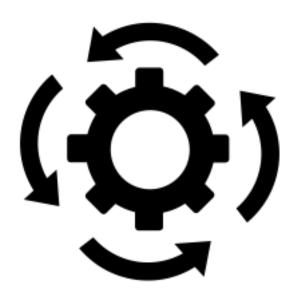


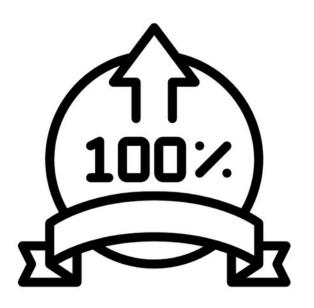
Two Different Goals





Two Different Problem Sets

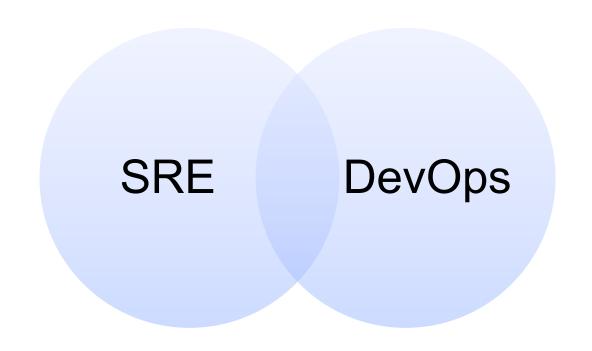




Comparisons



Comparisons, in a 6 Round Battle



Round I, tl;dr

SRE

Resilience, Scaling, Uptime, Robustness DevOps

Development Pipelines

Round II, Does the App Cluster?

SRE

RAFT based leader with Zookeeper and Mesos

DevOps

Yes, we need to fulfill three nodes

Round III, Can We Have Monitoring?

SRE

BlackBox vs WhiteBox DevOps

Yes, Prometheus, ELK, FluentD

Round IV, Our Deployment Failed

SRE

Did it cause an incident?

DevOps

Re-run the pipeline and we can up the logging.

Round V, Typical Metrics

SRE

Four Golden Signals, SLOs, SLIs DevOps

Deployment frequency, deployment failure rate

Round VI, War Chant

SRE

No Root Cause!

DevOps

People, Process, Technology!

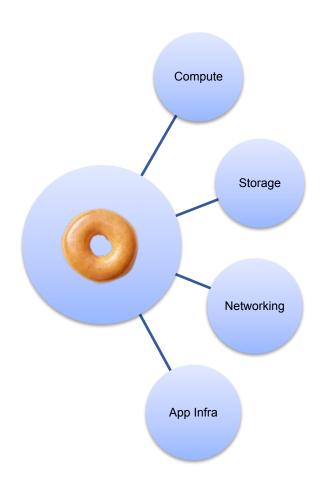
Action Required



Eventually You Have to do Something



Dimensions of an App



How do you Deploy?

```
#BackUp
cp ~/doughnut ~/doughnut_old
#Make Dir
mkdir ~/doughnut_build && cd ~/doughnut_build
#SCP Files
scp -rp java.zip centos@34.229.24.254:/home/doughnut_build/
#Unzip
unzip java.zip
#Maven Build
mvn install
#Make Dir
mkdir ~/doughnut_artifact && cd ~/doughnut_artifact
#Move
cp ~/doughnut_build/build/latest.jar ~/doughnut_artifact
```

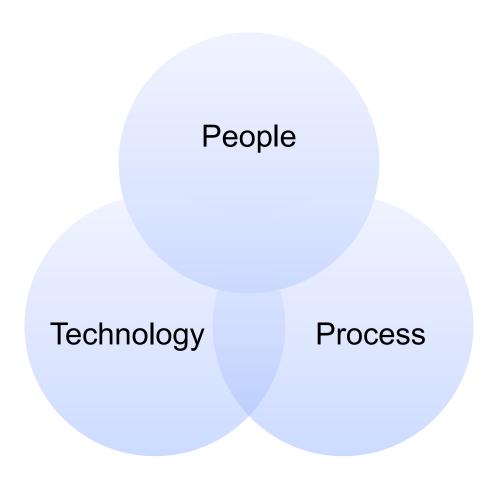
Pipelines, in Good and in Incident



Deploying During an Incident

Deploying New Feature

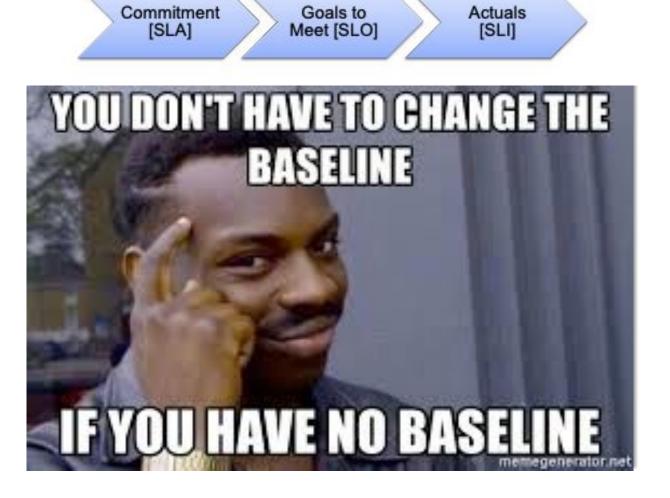
Confidence is Always Needed



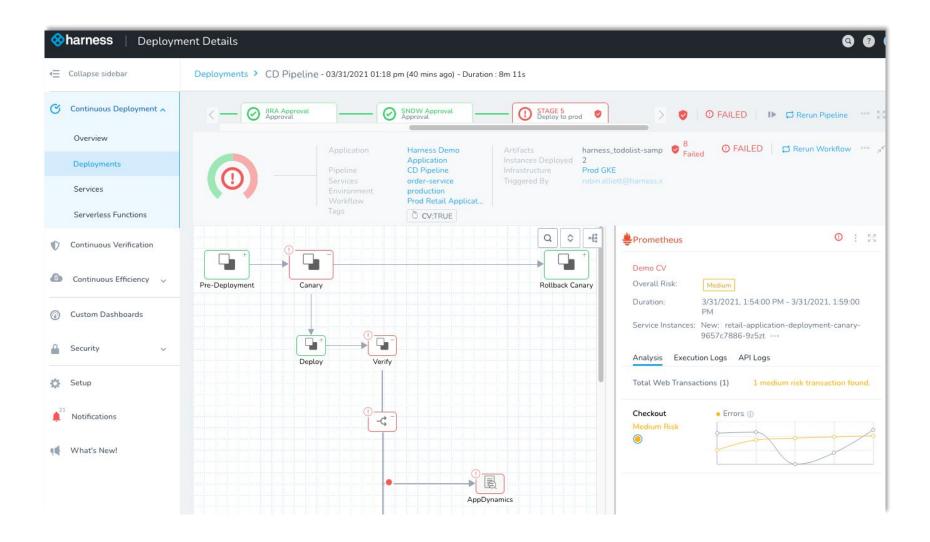
Being Prepared to Take Action



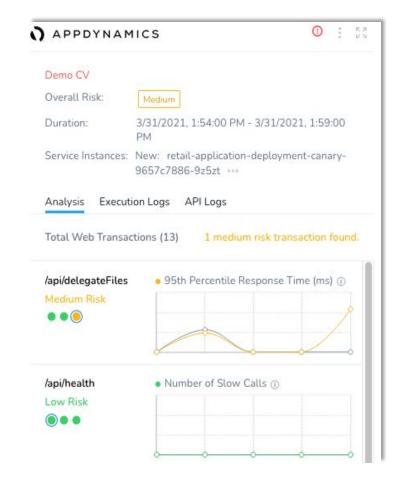
What is Normal?

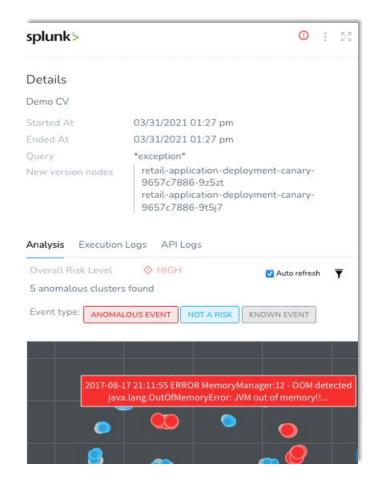


CI/CD Pipeline

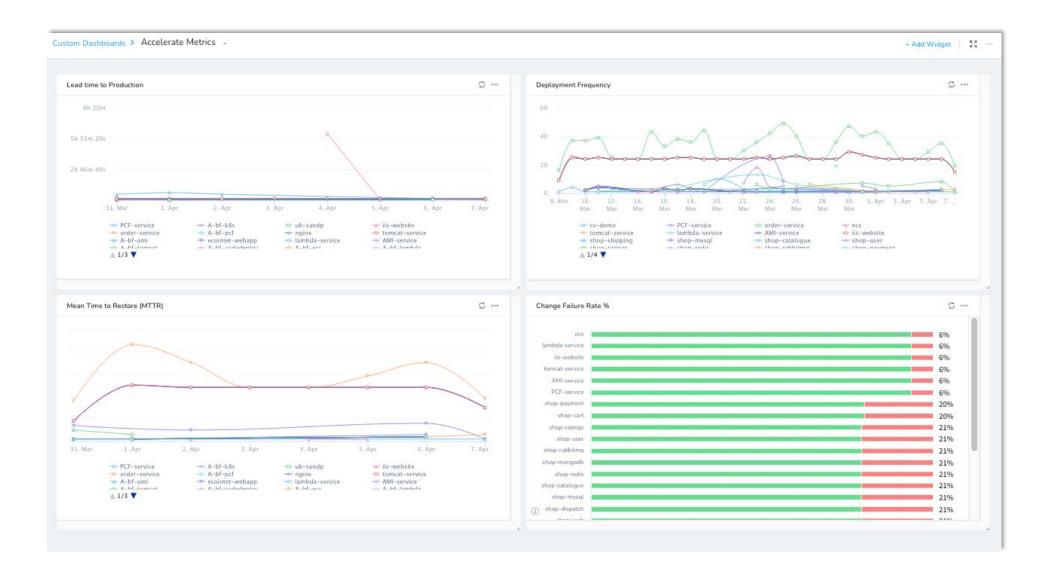


Auto Baselines





Measure Goals



Hello CDF!



Continuous Delivery Foundation



Neutral Home for CD Tools and Projects



Learn More!



http://bit.ly/learn-more-from-harness



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