

DevOps vs SRE, CI/CD Pipelines Bridging the Gap



Presented by: Ravi Lachhman Evangelist / Harness

Had lots of outages

Destroyer of error budgets



APPDYNAMICS





		28 C
	and the second second	Concernant of the

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





Edited by Betsy Beyer, Niall Richard Murphy, David K. Rensin, Kent Kawahara & Stephen Thorne

Two Different Problem Sets





Comparisons



Comparisons, in a 6 Round Battle



Round I, tl;dr



Resilience, Scaling, Uptime, Robustness

DevOps

Development Pipelines

Round II, Does the App Cluster?



SRE



Yes, we need to fulfill three nodes

Round III, Can We Have Monitoring?



Round IV, Our Deployment Failed



P/14

Round V, Typical Metrics

SRE

Four Golden Signals, SLOs, SLIs

DevOps

Deployment frequency, deployment failure rate

Round VI, War Chant



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

	11CS ()		K M
Demo CV			
Overall Risk:	Medium		
Duration:	3/31/2021, 1:54:00 PM - 3/31/2021, 1:59 PM	:00	
Service Instances:	New: retail-application-deployment-cana 9657c7886-9z5zt ***	ary-	
Analysis Execut	tion Logs API Logs		
Total Web Transa	ctions (13) 1 medium risk transaction	four	nd.
Total Web Transa /api/delegateFiles			nd.
			d.
/api/delegateFiles			d.
/api/delegateFiles			o o
/api/delegateFiles Medium Risk • • •	• 95th Percentile Response Time (ms		o o
/api/delegateFiles Medium Risk ● ● ● /api/health	• 95th Percentile Response Time (ms		o o

splunk>	
Details	
Demo CV	
Started At	03/31/2021 01:27 pm
Ended At	03/31/2021 01:27 pm
Query	*exception*
	9657c7886-9z5zt retail-application-deployment-canary- 9657c7886-9t5j7
Analysis Execution	Logs API Logs
Analysis Execution Overall Risk Level 5 anomalous cluster	♦ HIGH
Overall Risk Level 5 anomalous cluster	♦ HIGH
Overall Risk Level 5 anomalous cluster	♦ HIGH ✓ Auto refresh ▼ s found
Overall Risk Level 5 anomalous cluster Event type: ANOMA 2017-08-	♦ HIGH ✓ Auto refresh ▼ s found
Overall Risk Level 5 anomalous cluster Event type: ANOMA 2017-08-	HIGH Auto refresh Found LOUS EVENT NOT A RISK KNOWN EVENT 17 21:11:55 ERROR MemoryManager:12 - 00M detected

Measure Goals



Hello CDF!



Continuous Delivery Foundation



Neutral Home for CD Tools and Projects



Learn More!



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



@ravilach

Follow us on:



harnessinc

Contact us on:

www.harness.io