DEVNATION

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April 13-17, 2014 San Francisco, California

No.



OpenShift Origin to Online: A DevOps practice

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OpenShift Technical Operations Team

From Origin to Online

- In this session we're going to discuss:
 - How OpenShift Online consumes Origin.
 - How OpenShift Online contributes to Origin.
 - How code goes from development environments to production.
 - Why the DevOps cycle is important to OpenShift and Enterprises.





 " a software development method that stresses communication, collaboration and integration between Dev and Ops" (paraphrased from Wikipedia)

• Devs Op and Ops Dev ... see what they did there?





The Flow of Code





OpenShift Architecture - Contents of a DevEnv





How Jenkins Orchestrates DevEnv Creation





How DenEnvs are Built



How Development Happens





How Deployment Works in OpenShift Online



Daily deployment from RPM package sets.

github OpenShift Origin

Code

Release Candidate code deployed here for final round of QA and sign off.

stage

Production Code deployed here, **OpenShift.com**

Master branch (where continued development happens)



What The Environments Look like









For OpenShift, devops is about technology, trust, and process.









Everything that can be measured should be

measured.



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Monitoring is just one of our measurement tools.

Number of items (monitored/disabled/not supported)	123991	114800 / 6527 / 2664
Number of triggers (enabled/disabled)[problem/unknown/ok]	63636	61914 / 1722 [77 / 853 / 60984]
Number of users (online)	23	11
Required server performance, new values per second	579.26	



Release timings have provided invaluable information about where we spend our time.



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What have we learned?



We tend to focus too much on technology and

not enough on process.





The wall between our engineers and ourselves slows everything down.





New Relic is pretty awesome.



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Small is easier, faster, and better than big.









• Wall - http://openclipart.org/detail/174369/wall-2-by-jarda-174369

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• Lean Bullets - https://www.ibm.com/developerworks/community/blogs/LeanArchitecture/?lang=en



Come Meet the OpenShift Team!

- Partner Pavilion
 - Section(Pillar):
 - Platform-As-A-Service + App Dev & Deploy
 - OpenShift Online: Pod 14
 - OpenShift Enterprise: Pod 15





Thank You!

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