



A Journey Introducing Jenkins to Enterprise IT

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#jenkinsconf



Context:
need to create lots of APIs



**APIs change all the time
(minor.patch of course)**



**Many apps + rapidly evolving
= must do CI**



Problem: no CI at Target



This thing called Jenkins



**It's one thing to stand it up
It's another to change habits**



Stick to key message
Set expectations
Lead by example
Highlight results
Demo, demo, demo



Started with unit + functional tests



**+stop clicking around in the UI
(Jenkins Job DSL)**



**+code coverage
(cobertura)**



**+static code analysis
(codenarc)**

+various perf tests (Jmeter + cloud)



PEAK PERFORMANCE

08 Aug 2014 in Testing ⌚ 8 minutes read

When our stores open on Thanksgiving day, we see an API traffic spike that is 10x our normal load. To ensure our systems are up to the task of handling the burst, we need to go beyond the typical load tests run as part of our continuous integration



**+publish docs
(API Blueprints + Aglio)**



**+infra-as-code
(Chef)**



**+fresh environment for each CI run
(OpenStack)**



**+deployments
(Chef + Artifactory)**



**+pager/support setup
(PagerDuty API)**



**+monitoring config
(Splunk, Runscope API)**



**+future: pull requests
(GitHub Enterprise + PR Builder plugin)**



**+future: vuln testing
(Zed Attack Proxy - ZAP)**



**+future: get closer to CD
(promoted builds plugin)**



**+future: ChatOps
(HipChat API)**



-didn't work: build per branch



+happening: Jenkins Operations Center



bigger story: Jenkins spread like fire



In the beginning...
small .com team + API team



Glue for conversations:
CI + CD
Automation
Agile
DevOps



Enterprise change:

Sell it

Political

Become the path of least resistance

Convert the change resistors

Demo, demo, demo



**Make it “Enterprise Grade”
(Jenkins Enterprise)**



Features like:
Job folders
RBAC
HA
Plugin Usage



Support from experts



Scale for everyone else



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