

Automation, Innovation and Continuous Dev

@MarioCruzCofounder & CTOChooseDigitalA Viggle Company

October 23, 2014

#jenkinsconf

My Career

Jobs:

- Network Engineer (lots of certs)
- Developer (lots of code)
- IT Operations (lots of lost sleep)
- IT Security (lots of smoke & mirrors)

Experience:

Hacking, Networking, Developer, Ops &



NOW Pointy Haired Boss





© Scott Adams

CHOOSE DIGITAL



Music

-Over 7 million music download tracks (MP3's) from all the major record labels and leading independents. Tracks sync seamlessly with iTunes and Windows Media personal music libraries.



Movies

-Movies from the major studios and independents are available for rental or purchase. The site features new release titles. Purchases are streamed from a personal digital locker incorporated into the platform and can be viewed on most browser enabled devices without the need to download a player.



TV Shows

-Season passes and individual episodes for the major TV networks.



eBooks

-Over 400,000 eBooks that can be read on most browser based devices. Audiobooks in MP3 format.

Some brands that that use CHOOSE DIGITAL





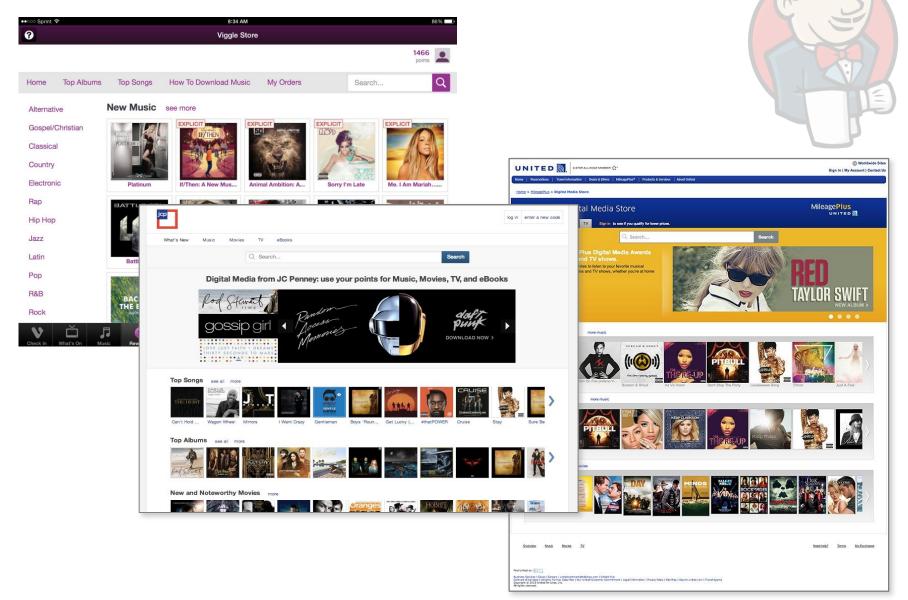








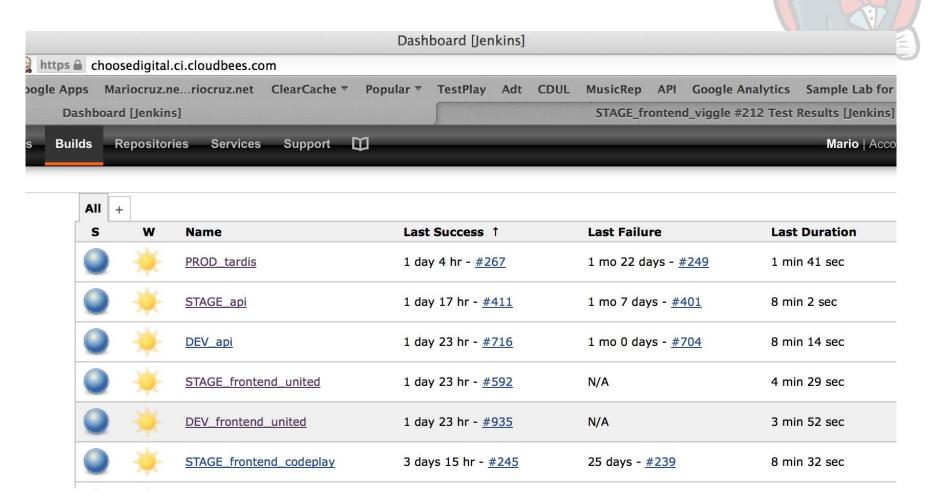
Technology Solutions



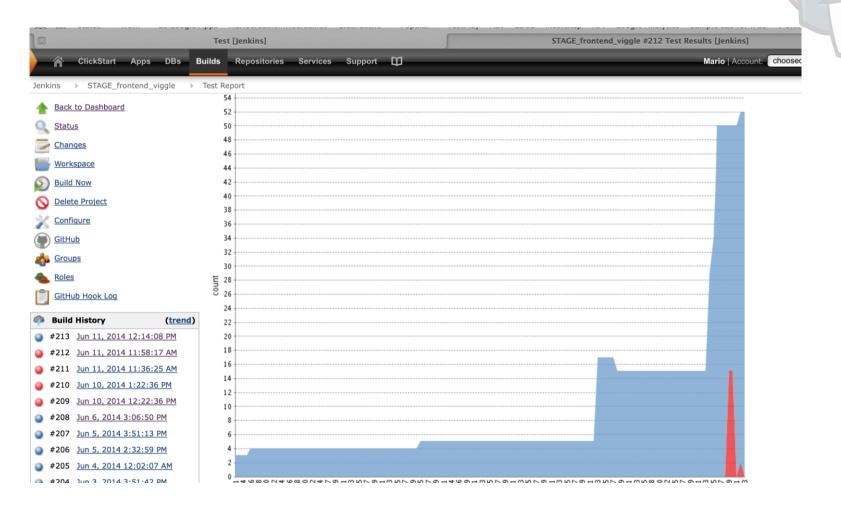




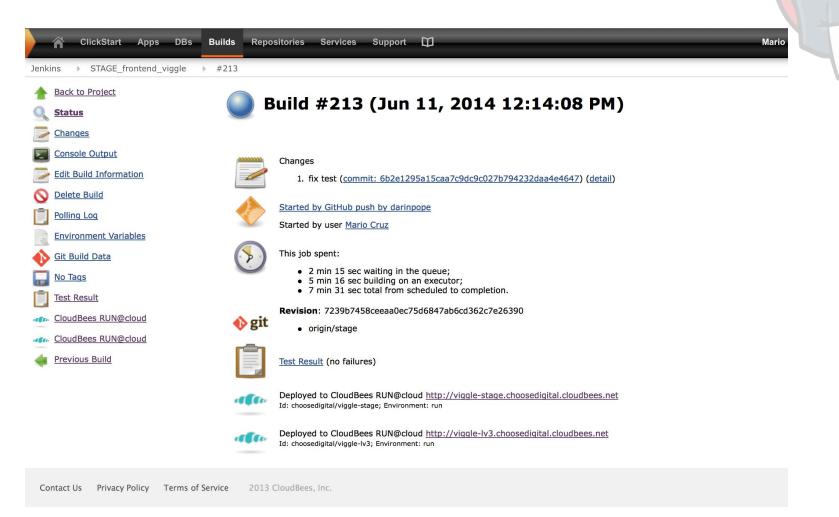
When we push to Stage or Prod branch, a build is done



Run set of tests before each deploy



When all tests pass, it is auto deployed



Developer Tries the Live Site



Q Home Top Albums **Top Songs** How To Download Music My Orders Search... Alternative

Gospel/Christian

Classical

Country

Electronic

Rap

Hip Hop

Jazz

Latin

Pop

R&B

Rock

Soundtracks



FREE MUSIC DOWNLOADS Download the Viggle app to get rewarded

for all the music you're already listening to!

LEARN MORE >









Passenger

























Trust





Slack

Thursday



jenkins 9:54 AM

STAGE_frontend_viggle - #316 Started by changes from yigal, Cristina Solana

jenkins 10:03 AM

STAGE_frontend_viggle - #316 Success after 9 min 10 sec (</job/STAGE_front

jenkins 10:22 AM

STAGE_frontend_viggle - #317 Started by changes from Cristina Solana (1 file

jenkins 10:29 AM

STAGE frontend viggle - #317 Success after 6 min 15 sec (</job/STAGE front

jenkins 12:51 PM 🛊

STAGE_frontend_viggle - #318 Started by changes from yigal, Cristina Solana

jenkins 12:57 PM jenkins 2:35 PM

STAGE frontend viggle - #318 Success after 6 min 16 sec (</job/STAGE front

STAGE_frontend_viggle - #319 Started by changes from Cristina Solana (6 file

jenkins 2:41 PM

STAGE frontend viggle - #319 Success after 5 min 48 sec (</iob/STAGE front

jenkins 5:18 PM PROD_frontend_viggle - #45 Started by changes from yigal, Cristina Solana (7

QHipChat

Jenkins STAGE_frontend_viggle_mgo -Oct-

#117 Success after 5 min 11 sec (Oper

Jenkins STAGE_frontend_viggle_mgo -Oct-#118 Started by changes from yigal (2) changed) (Open)

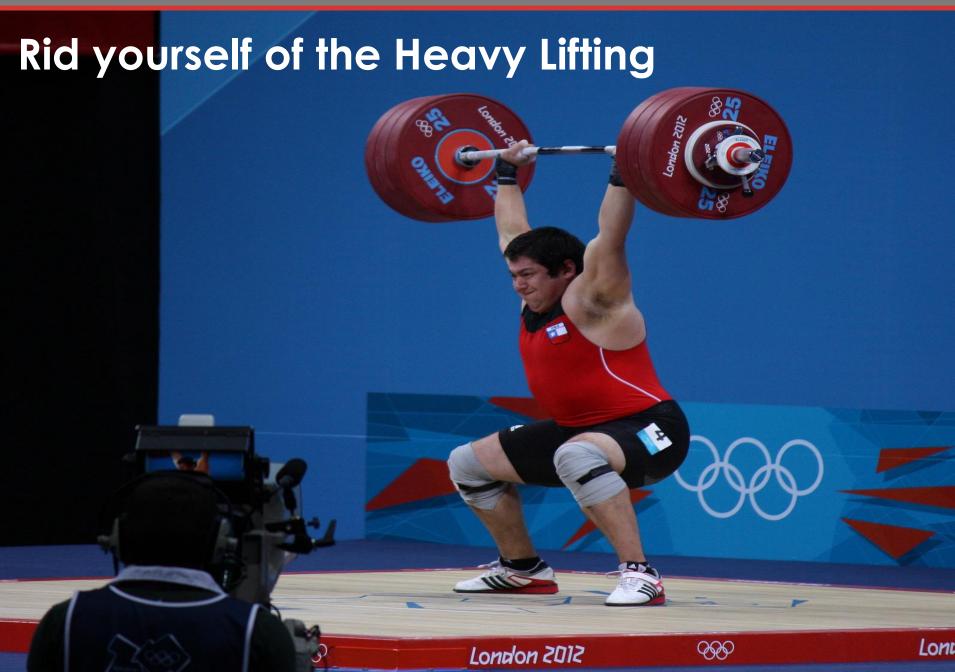
Jenkins STAGE_frontend_viggle_mgo -

#118 Success after 5 min 17 sec (Oper

Communication



#161	darth	4m 8s	DEV_api
#158	DEV_delivery	3m 43s	PROD_api
#4	PROD_consumers Possible Culprits: Russ Reynolds , Darin Pope	4m 1s	PROD_delivery s #66 4m !
#74	PROD_frontend_codeplay	8m 32s	PROD_frontend_united s #178 4m
#68	PROD_frontend_viggle	4m 42s	PROD_tardis 2s #289 2m 1
#477	STAGE_api	15m 7s	STAGE_delivery
			Brought to you by Jan



CloudBees (Jenkins Differentiator)

- Heavy Lifting Not Done by Choose Digital
 - DEV@cloud
 - Jenkins
 - Plugins
 - Upgrades
 - Support



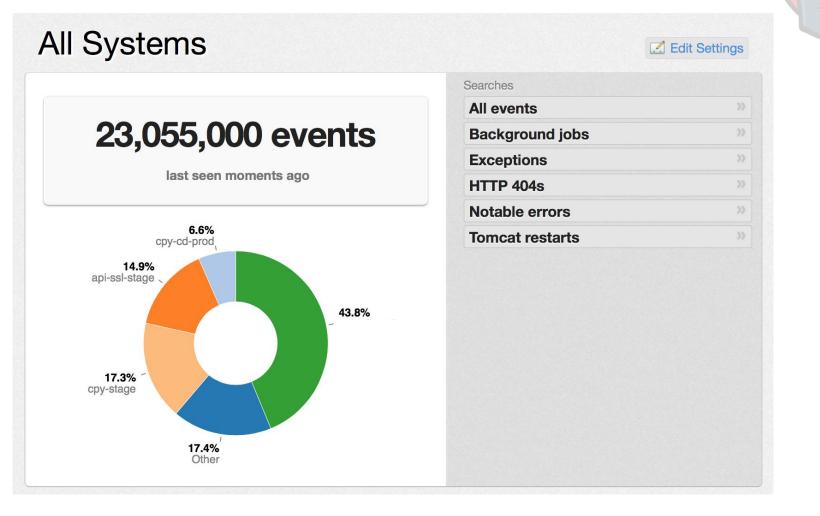
Other Technology Partners

- AWS
 - Route53
 - **–** \$3
 - CloudFront
 - Elastic Beanstalk
 - RDS
 - CloudSearch
 - DynamoDB
 - SQS
 - SNS
 - ElastiCache
 - Kinesis
 - Redshift

- Asana
- HipChat
- Trello
- Zendesk
- SendGrid
- New Relic
- Papertrail



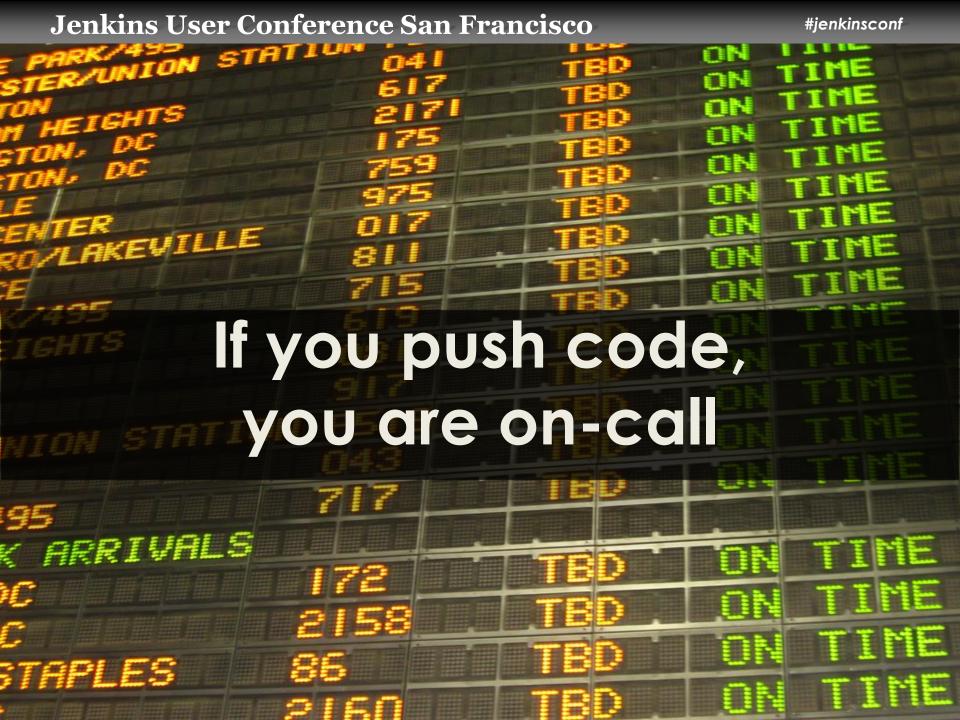
Log Everything (but let me turn it off)



Monitor Apps (Mange up and down)

- Real User Monitoring
 - End user perspective metrics
 - Browser performance and response times
 - Bottlenecks at FE, app or connected systems
- Performance Analytics
 - _ Throughput
 - _ Response Times
 - __ Errors
 - Slow Transactions
 - SQL Performance
 - __ Thread Profiler

- Server Monitoring
 - _ CPU
 - _ Memory
 - Network activity
 - _ Processes
- Reporting
 - __ SLA
 - _ Availability
 - Deployments
 - Scalability



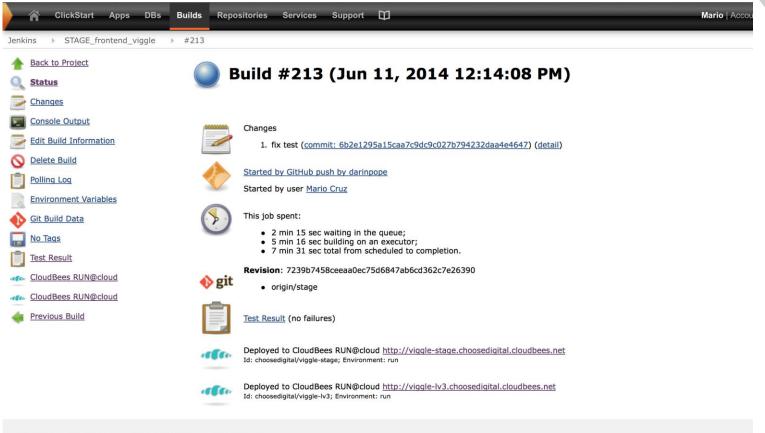


Feature Flags (Archaius from Netflix OSS)

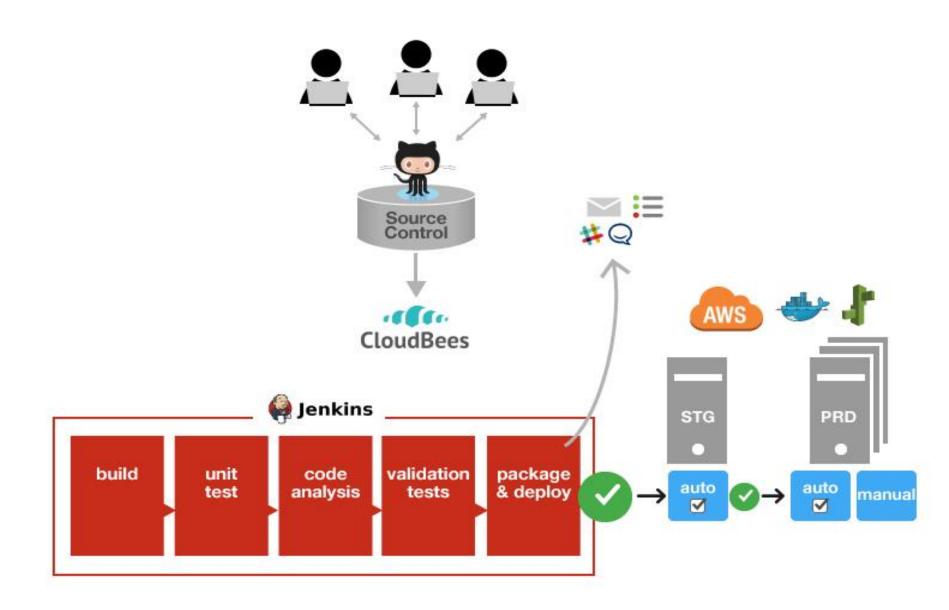
d		property_key	property_	value		
	1	active.cache	true			
	2	active.maintenance	false			
	3	consume.validation.token	true			
	4	consume.get.user.info	true			
	5	consume.redeem.points	true			
	6	send.viggle.calls.to.log	true			
	7	send.consumers.to.log	true			
	8	log.cache	true			
	13	send.viggle.login.calls.to.log	true			
	14	active.music.purchase.per.day.limitation	false			
	15	max.allowed.music.purchases.per.day	20			
	16	log.all.cd.service.response.to.console	false			
	18	viggle.header.required.for.access	false			
	19	max.allowed.music.amount.per.day	5000			
	20	order.confirmation.from.address			v@choosedigital.com>	
	21	log.request.headers.to.console	false			
	22	user.info.check.active	true			
	23	send.bank.calls.to.log	true			
	24	display.bank.purchase.button	true			
	25	registration.active	true			
	26	credit.card.active	true			
	27	bank.active	true			
	28	sony.music.cash.purchase.enabled	false			
	29	active.movie.purchase	true			
	30	active.movie.rental	true			
	31	active.television	true			
	32	go.analytics.logging.active	true			
	33	go.help.address	help@r	.com		



one push > one build > Deploy to N



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