

# RelEng + QA Quarterly Review

2014 April

# Last quarter - What we said

## Deployment Tooling

- Process through all (useful) pain points from the Dev/Deploy review session
- Scap incremental improvements
  - step 1: Refactor existing scap scripts to enhance maintainability and reveal hidden complexity of current solution
  - step 2: create matrix of tool requirements per software stack (MW, Parsoid, ElasticSearch)
    - Use above matrix to add/fix functionality in scap (or related) tooling for ONE software stack, prioritized by cross stack use

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## Beta Cluster

- Make database in beta emulate production (set up db slaves)
- Use beta labs as a testing ground for the above Deployment Tooling work
- Migrate Beta cluster from pmtpa to eqiad

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- Make database in beta emulate production (set up db slaves)
- Use beta labs as a testing ground for the above Deployment Tooling work
- Migrate Beta cluster from pmtpa to eqiad
  - Much of the beta cluster configuration was puppetized during the migration.
  - Beta now includes a local puppet master which allows cherry-picking work-in-progress puppet changes and applying them across the cluster. This unblocks Antione and others from getting +2 approval in operations/puppet.git for each desired change. It also provides a testing platform for changes prior to usage in production.
  - Beta now includes a salt master which allows the use of Trebuchet and general experimentation with salt by non-roots.

# Last quarter - What we said

## Browser Testing

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- create the ability to test headless
- run versions of tests compatible with target test environments

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## Browser Testing

- use the API to create test data for given tests at run time
  - first pass: create articles with particular title and content. Create users with particular names and passwords.
- create the ability to test headless
- run versions of tests compatible with target test environments

# Last quarter - What we said

## Hiring

- Complete hiring and train new Release Engineer
- Complete hiring and train new Automation Engineer (Ruby)



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**Next quarter (diff)**

-	Apr - Jun 2014	+	Apr - Jun 2014   [[Wikimedia_Release_and_QA_Team/Quarterly_review,_April_2014 review]]
-	* Make the tool that deploys in production the tool that deploys in Beta Cluster (May-Jun)	+	[[Deployment tooling]]:
-	** Improvements to scap	+	* Integrate HHVM support into our deployment system
-	* Complete and holistic view of running tests:	+	* start the scap(py) & trebuchet integration conversation
-	** feature coverage	+	[[Beta cluster]]:
-	*** Cucumber Scenarios test descriptions created and maintained according to demands of feature teams (not invented by QA staff)	+	* Complete transition to scap as code deploy system
-	** build time and overhead	+	* Support HHVM deployment tooling and puppet configuration testing
-	*** use headless Firefox builds in WMF Jenkins for fast functional testing	+	MediaWiki Release:
-	*** tests use API to manage test data in arbitrary target wikis	+	* Successfully support the release of MediaWiki 1.23
-	*** use branch tags to run tests appropriate to the builds being tested	+	QA:
-	* system diagnostics	+	* Retire Cloudbees Jenkins instance
-	** Add more reporting and analysis tools such as fatals monitoring, icinga, logstash, detailed error reporting from Jenkins	+	* Integrate WMF Jenkins with new WMF SauceLabs account
-	* Browser testing underway with all engineering teams	+	* Execute tests in parallel
		+	* Use tags to run builds appropriate to released versions (e.g. don't run master build on test2wiki)
		+	* Use API to create test data at runtime more widely (not just for MobileFrontend but also VisualEditor, Flow, local dev env etc.)
		+	* Add browsertests to new repos e.g. GettingStarted
		+	Hiring:
		+	* Complete hiring and train new [ <a href="http://hire.jobvite.com/CompanyJobs/Careers.aspx?c=qSa9VfwQ&amp;cs=9UL9Vfw&amp;page=Job%20Description&amp;j=oFtlYfwb">http://hire.jobvite.com/CompanyJobs/Careers.aspx?c=qSa9VfwQ&amp;cs=9UL9Vfw&amp;page=Job%20Description&amp;j=oFtlYfwb</a> Release Engineer] and [ <a href="http://hire.jobvite.com/CompanyJobs/Careers.aspx?c=qSa9VfwQ&amp;cs=9UL9Vfw&amp;page=Job%20Description&amp;j=oe09Yf5">http://hire.jobvite.com/CompanyJobs/Careers.aspx?c=qSa9VfwQ&amp;cs=9UL9Vfw&amp;page=Job%20Description&amp;j=oe09Yf5</a> Automation Engineer (Ruby)]

**Next quarter (What we now plan)**

# Next quarter

## Deployment tooling

- (continued from last quarter) Process through all (useful) pain points from the Dev/Deploy review session
- Integrate HHVM support into our deployment system
- start the scap(py) & trebuchet integration conversation

# Next quarter

## Beta cluster

- Complete transition to scap as code deploy system
- Support HHVM deployment tooling and puppet configuration testing
- Swift cluster in beta (stretch goal)

# Next quarter

## MediaWiki Release

- Successfully support the release of MediaWiki 1.23
- Kick off/complete second RFP

# Next quarter

## QA

- (From last quarter) Use tags to run builds appropriate to released versions (e.g. don't run master build on test2wiki)
- (continued) Retire Cloudbees Jenkins instance
- Integrate WMF Jenkins with new WMF SauceLabs account
  - Execute tests in parallel
- Use API to create test data at runtime more widely (not just for MobileFrontend but also VisualEditor, Flow, local dev env etc.)
- Add browsertests to new repos e.g. GettingStarted



# Next quarter

## Hiring

- Complete hiring and train new Release Engineer and Automation Engineer (Ruby)

# Next quarter - Dependencies

Ops:

- Swift
- Icinga (continued)

# Next quarter - Dependencies

MW Core:

- hhvm

# Questions

(if you haven't already asked them)