What’s New in Gerrit 2.12 and 2.13
What’s coming in 2.14

Gerrit User Summit 2016

David Pursehouse, CollabNet
## Statistics

<table>
<thead>
<tr>
<th></th>
<th>2.14</th>
<th>2.13</th>
<th>2.12</th>
<th>2.11</th>
<th>2.10</th>
<th>2.9</th>
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<tbody>
<tr>
<td>Date</td>
<td>--</td>
<td>Sep ‘16</td>
<td>Nov ‘15</td>
<td>Apr ‘15</td>
<td>Jan ‘15</td>
<td>Jul ‘14</td>
<td>Dec ‘13</td>
<td>Sep ‘13</td>
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<tr>
<td>Commits *</td>
<td>769 ***</td>
<td>2632</td>
<td>1357</td>
<td>1330</td>
<td>632</td>
<td>1281</td>
<td>1373</td>
<td>272</td>
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<tr>
<td>Issues **</td>
<td>--</td>
<td>85</td>
<td>132</td>
<td>69</td>
<td>30</td>
<td>43</td>
<td>72</td>
<td>9</td>
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<tr>
<td>Contributors</td>
<td>39 ***</td>
<td>83</td>
<td>43</td>
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<td>49</td>
<td>48</td>
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</tr>
</tbody>
</table>

↑ 2.13 is by far the biggest release

* Not including merge commits  ** Including fixes on dot releases  ** As of 2016/10/27
New in 2.12

- Submit whole topic
- Submit change with ancestors
- Signed push
Submit Whole Topic

Submit changes with same topic across projects in one operation
Block submit of changes until all are ready

Submitted Together (2)

- another-project: master: Change on another project
- test-project: master: Change on one project

Submit whole topic

This change depends on other changes which are not ready

Note: This feature is disabled by default
Submit Changes with Ancestors

Submitting a change causes ancestors to also be submitted.

Instead of submitting each one top down

No more merge queue - submit either succeeds or fails.

No more “Submitted, Merge Pending” state.
Signed Push

Users can add GPG key(s) to account

Admin can enable / require signed push per project

Email notification when a key is changed (also for SSH keys)

Change screen shows signed push status for changes

Note: signed push is broken until 2.12.4
New in 2.13

- Support for Git LFS
- Metrics
- Hooks plugin
- Allow to see diff of merge commits
- Allow to reject implicit merges
Support for Large File Storage (LFS) plugin

LFS support can be provided by a plugin

Reference implementation in the ‘lfs’ plugin

- Support for File System and/or Amazon S3
- Uses LFS server implementation provided by JGit

Custom plugin could also implement LFS itself
Metrics

Metrics can be sent to external monitoring systems

- Process info
- Cache statistics
- HTTP response statistics
- and more: https://gerrit-review.googlesource.com/Documentation/metrics.html

Reference implementations:

- Elastic Search
- Graphite
- JMX / jconsole
Hooks plugin

Server-side hooks functionality moved to a plugin
Drop-in replacement:
• Same functionality
• Same configuration
Reject implicit merges

New option to reject changes pushed to wrong branch
Diff of merge commits
Coming in 2.14...

- Assignee field for changes
- Improved reviewer suggestion
- Email: HTML, new templates, inbound email
- Support for Robot comments
- Polymer UI
- Elastic Search?
Change Assignees

Changes can be assigned to specific user
New search operator: `assignee`
Assigned changes are highlighted in dashboards

Search for status:open

<table>
<thead>
<tr>
<th>Subject</th>
<th>Status</th>
<th>Owner</th>
<th>Assignee</th>
<th>Project</th>
<th>Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release notes for Gerrit 2.13.3</td>
<td></td>
<td>David Pursehouse</td>
<td>David Pursehouse</td>
<td>homepage</td>
<td>md-pages</td>
</tr>
<tr>
<td>bazel: wct tests.</td>
<td></td>
<td>Han-Wen Nienhuys</td>
<td></td>
<td>gerrit</td>
<td>master</td>
</tr>
<tr>
<td>Bazel: Allow to consume jgit from</td>
<td></td>
<td>David Ostrovsky</td>
<td></td>
<td>gerrit</td>
<td>master</td>
</tr>
<tr>
<td>development tree</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rename ewah dependency to javaewah</td>
<td></td>
<td>David Ostrovsky</td>
<td></td>
<td>gerrit</td>
<td>master</td>
</tr>
</tbody>
</table>
Reviewer Suggestion (1)

Default suggestion: reviewers who have recently reviewed user’s changes
Reviewer Suggestion (2)

Filtered suggestion:
- Reviewers who have recently reviewed user’s changes, filtered by typed characters
- Accounts from the index
- Suggestions from plugins
Email

New template framework allows HTML emails
Velocity templates are deprecated
Inbound email - more info in Patrick’s talk
Support for robot comments

Differentiate between human and automated reviews
More info in Edwin’s talk
Polymer UI

Switch between Polymer and GWT
Many improvements in Polymer UI
More details in Andrew’s talk