What’s New in Gerrit 2.14

Gerrit User Summit
London 2017

David Pursehouse
CollabNet
Summary of New Features

• Assignee field for changes
• Deletable changes
• Improved reviewer suggestion
• Email: new templates, HTML, inbound email
• Tagged comments
• Polymer UI
• Merge List
• Elastic Search
• LFS
• High Availability
Important Notes

• 2.14 requires Java 8 runtime

• Support for HTTP digest authentication is removed
  • Due to moving accounts to note DB
  • Existing passwords will be migrated during upgrade

• New secondary index for groups
  • Requires offline reindex

• See the release notes for more details
Release Notes Update

- From 2.13 onwards
- Moved from google cloud storage to the homepage at gerritcodereview.com
- Moved from core gerrit repo to homepage repo
- Changes go live on the site after submit
Assignable Changes

- 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>
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<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></td>
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<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 development tree</td>
<td></td>
<td>David Ostrovsky</td>
<td></td>
<td>gerrit</td>
<td>master</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>
Deletable Changes

• Open and Abandoned changes can be deleted

• By administrator
• By change owner with capability “Delete Own Change” (not given by default)

• Deletes the ref from refs/changes, and the review metadata
  Same as deleting a draft change or patch set

• No support for deleting merged changes
Improved Reviewer Suggestion

Default suggestion

Reviewers who have recently reviewed user’s changes
Improved Reviewer Suggestion

Filtered suggestion

• As before, but filtered by typed characters
• Accounts from the index
• Suggestions from plugins
New Email Templates

New template framework

- Uses Closure Templates, also known as “soy”
- Support for HTML emails
- Velocity templates are deprecated; will be removed
Inbound Email

• Users can reply to Gerrit’s automated emails

• Replies are parsed and comments added to the change

• More details in Patrick’s talk from the 2016 summit
Tagged Comments

- Comments generated by systems (CI, etc) can be “tagged”
- Tagged comments can be filtered from the UI
- Note that this is different to “robot comments” which is partially included in 2.14 and depends on note db.
Polymer UI: “PolyGerrit”

- Many improvements in PolyGerrit UI
- In 2.14 it’s usable for most common operations
- Still a lot missing (admin pages, etc)
- Possible to switch between PolyGerrit and GWT
  - Use “Switch to new/old UI” links in page footer
  - Add \(\texttt{?polygerrit=0}\) or \(\texttt{?polygerrit=1}\) in URL

More details in Andrew’s talk from 2016 summit
Merge List

- Automatic list of commits included in a merge commit
- Appears as a file that can be reviewed
- Useful when author didn’t use the --log option
Elastic Search

- Support for Elastic Search is included, but is not stable
- Works (more or less) for ES version 2.4.x
- Later versions of ES are not supported
- Will not be completed for 2.15

[Insert sad face clipart here]
LFS Plugin Updates

- Support for LFS (Large File Storage) was added in 2.13

- Support for file locking added in 2.14.1

- File-system and Amazon S3 support rolled into the single “lfs” plugin

- “lfs-storage-fs” and “lfs-storage-s3” plugins are deprecated
High Availability Plugin

• Stepping stone until Gerrit supports multi-master
  • Developed for 2.13 and 2.14
  • Active-passive setup with 2 peers
  • Shared DB, git repositories, web sessions
  • Sync of events, indexes, and cache evictions over HTTP

• Future plans
  • Support more than 2 peers
  • Active-Active
  • Sync via Jgroups
  • Fix Elastic Search…
Questions (about 2.14)?

For questions about Gerrit 2.15 and general questions regarding releases etc:

• What’s new in 2.15 (today 16:00)
• Q&A with the maintainers (today 16:45)
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<th>2.14</th>
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<th>2.12</th>
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<td>Sep ‘16</td>
<td>Nov ‘15</td>
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<td>Jul ‘14</td>
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<td><strong>Contributors</strong></td>
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<td>54</td>
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↑

2.13 is still the biggest release

* Not including merge commits  ** Including fixes on dot releases