

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

[gerrit](#) / homepage

Source for Gerrit Code Review homepage at <https://www.gerritcodereview.com/>

Clone this repo:

```
git clone https://gerrit.googleusercontent.com/homepage
```

Branches

[md-pages](#)

[2e64232](#) [Add section on documentation updates to release notes](#), by David Shevitz · 13 ho

[21531fb](#) [Release notes for 2.15](#) by Dave Borowitz · 7 weeks ago

[6bef7b1](#) [Walk back our claim about removing VTL in 2.15](#) by Dave Borowitz · 15 hours ago





[bf9c9ef](#) [Update 2.14 release summary](#) by David Pursehouse · 10 days ago

[c271126](#) [Expand on auth.type / auth.gitBasicAuthPolicy limitation in 2.14.4](#) by David Pursel

Assignable Changes

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

Search for status:open

	<i>Subject</i>	<i>Status</i>	<i>Owner</i>	<i>Assignee</i>	<i>Project</i>	<i>Branch</i>
☆	Release notes for Gerrit 2.13.3		 David Pursehouse	 David Pursehouse	homepage	md-pages
☆	bazel: wct tests.		 Han-Wen Nienhuys		gerrit	master
☆	Bazel: Allow to consume jgit from development tree		 David Ostrovsky		gerrit	master
☆	Rename ewah dependency to javaewah		 David Ostrovsky		gerrit	master

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

The screenshot shows a Gerrit review interface. At the top, the 'Assignee' is 'GerritForge CI'. Below it, the 'Reviewers' list includes 'David Pursehouse', 'Jonathan Nieder', 'Terry Parker', and 'ekempin'. A search input field is active, and a dropdown menu displays a list of suggested reviewers. The suggestions are: 'David Ostrovsky <david.ostrovsky@gmail.com>', 'Han-Wen Nienhuys <hanwen@google.com>', 'Saša Živkov <zivkov@gmail.com>', 'Hugo Arès <hugo.ares@ericsson.com>', 'Stefan Beller <sbeller@google.com>', 'Sven Selberg <sven.selberg@axis.com>', 'Andrew Bonventre <andybons@google.com>', 'Bruce Zu <zu.bruce.china@gmail.com>', 'Alice Kober-Sotzek <aliceks@google.com>', and 'Luca Milanese <luca.milanesio@gmail.com>'. The dropdown menu has a 'Cancel' button at the top right. On the right side of the interface, there are icons for settings, edit, and a 'whole topic' button. At the bottom left, there are buttons for 'Cherry Pick' and 'Edit Assign'.

Assignee
Reviewers

Project
Branch
Topic
Strategy
Updated

Cherry Pick
Edit Assign

Cancel

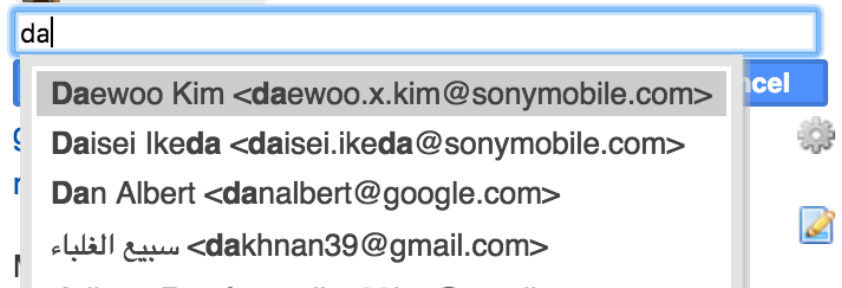
whole topic

David Ostrovsky <david.ostrovsky@gmail.com>
Han-Wen Nienhuys <hanwen@google.com>
Saša Živkov <zivkov@gmail.com>
Hugo Arès <hugo.ares@ericsson.com>
Stefan Beller <sbeller@google.com>
Sven Selberg <sven.selberg@axis.com>
Andrew Bonventre <andybons@google.com>
Bruce Zu <zu.bruce.china@gmail.com>
Alice Kober-Sotzek <aliceks@google.com>
Luca Milanese <luca.milanesio@gmail.com>

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.

History		Expand All	Hide tagged comments
	David Pursehouse	Uploaded patch set 1.	
	David Pursehouse	Patch Set 1: I'm not sure if we should be injecting ReviewDb everywhere. F	
	GerritForge CI	Patch Set 1: Code-Style+1  All files are correctly formatted (https://gerrit-c	
	GerritForge CI	Patch Set 1: Verified+1  bazel/notedb : SUCCESS (https://gerrit-ci.gerritf	
	Alice Kober-Sotzek	Patch Set 1: (1 comment)	
	David Pursehouse	Patch Set 1: (1 comment)	
	David Pursehouse	Uploaded patch set 2: Patch Set 1 was rebased.	
	GerritForge CI	Patch Set 2: Code-Style+1  All files are correctly formatted (https://gerrit-c	
	GerritForge CI	Patch Set 2: Verified+1  bazel/reviewdb : SUCCESS (https://gerrit-ci.gerrif	
	Alice Kober-Sotzek	Patch Set 2: Code-Review+1 (1 comment)	
	David Pursehouse	Patch Set 1: (1 comment)	
	David Pursehouse	Uploaded patch set 3.	
	David Pursehouse	Patch Set 1: (1 comment)	

History		Expand All	Show tagged comments
	David Pursehouse	Patch Set 1: I'm not sure if we should be injecting ReviewDb everywhere.	
	Alice Kober-Sotzek	Patch Set 1: (1 comment)	
	David Pursehouse	Patch Set 1: (1 comment)	
	Alice Kober-Sotzek	Patch Set 2: Code-Review+1 (1 comment)	
	David Pursehouse	Patch Set 1: (1 comment)	
	David Pursehouse	Patch Set 1: (1 comment)	

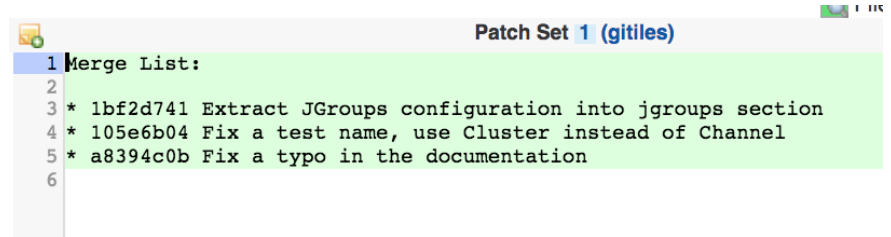
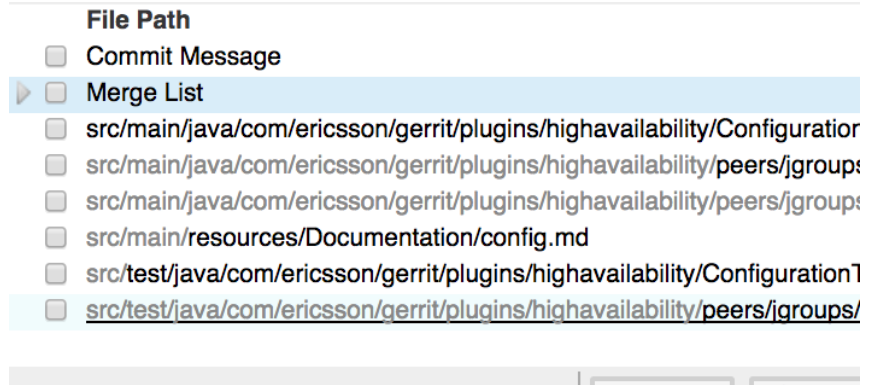
Polymer UI: “PolyGerrit”

- 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 `?polygerrit=0` or `?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)

Statistics

	2.14	2.13	2.12	2.11	2.10	2.9	2.8	2.7
Date	Apr '17	Sep '16	Nov '15	Apr '15	Jan '15	Jul '14	Dec '13	Sep '13
Commits *	2505	2632	1357	1330	632	1281	1373	272
Issues **	91	85	132	<u>69</u>	<u>30</u>	<u>43</u>	<u>72</u>	<u>9</u>
Contributors	72	83	43	51	49	48	54	31



2.13 is still the biggest release

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