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

Gerrit User Summit 2016

David Pursehouse, CollabNet

Statistics

	2.14	2.13	2.12	2.11	2.10	2.9	2.8	2.7
Date		Sep '16	Nov '15	Apr '15	Jan '15	Jul '14	Dec '13	Sep '13
Commits *	769 ***	2632	1357	1330	632	1281	1373	272
Issues **		85	132	69	30	43	72	9
Contributors	39 ***	83	43	51	49	48	54	31



1 2.13 is by far the biggest release

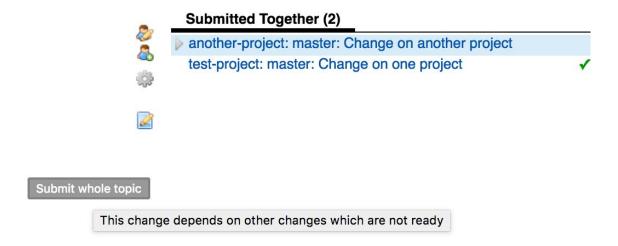
^{*} Not including merge commits

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



Note: This feature is disabled by default

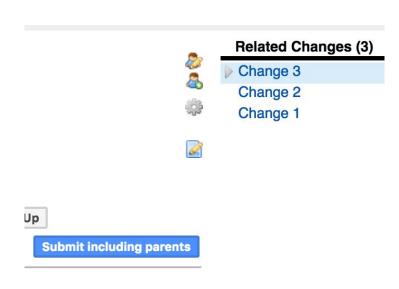
Submit Changes with Ancestors

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

David Pursehouse 🖋

Push certificate is valid and key is trusted

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

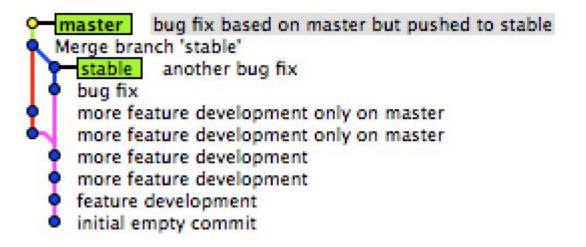
Hooks plugin

Server-side hooks functionality moved to a plugin Drop-in replacement:

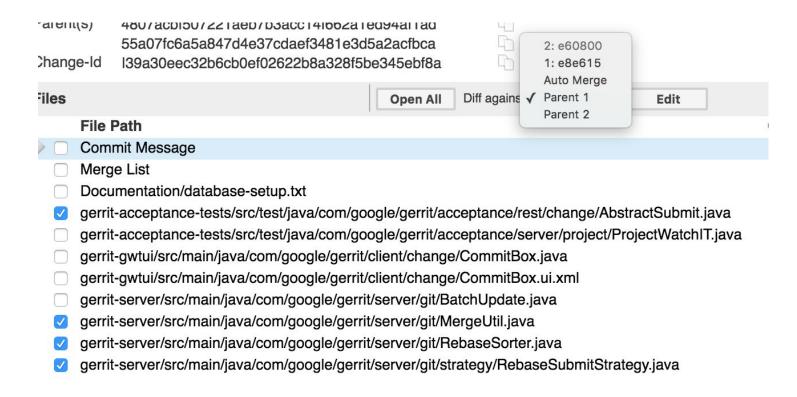
- Same functionality
- Same configuration

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`

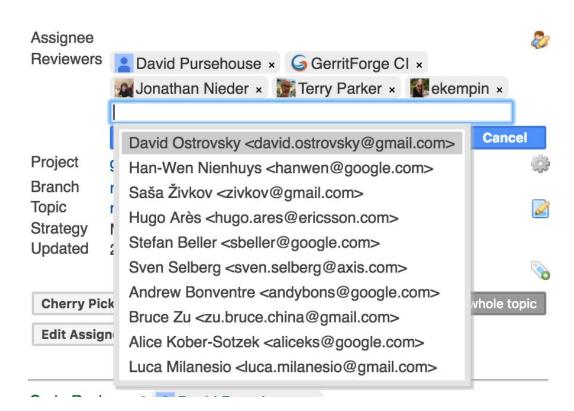
Assigned changes are highlighted in dashboards

Search for status:open

Subject	Status	Owner	Assignee	Project	Branch
Release notes for Gerrit 2.13.3		David Pursehouse	David Pursehouse	homepage	md- pages
abazel: 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

Reviewer Suggestion (1)

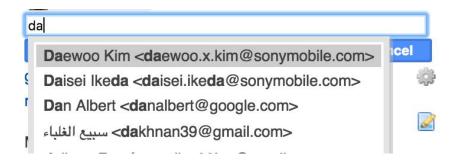
Default suggestion: reviewers who have recently reviewed user's changes



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