Gitlab vs Bitbucket Jira/Jenkins Integration

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| Author: | Paul Sehgal |
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# Overview

This document details the main differences between Gitlab and Bitbucket with regards to integrating with Jira.

1. Differences

Bitbucket is an Atlassian product and as expected the integration with Jira is more seamless. However this section will outline the main integration features for both products.

* 1. GitLab vs Bitbucket Jira/Jenkins Integration

The table below outlines the main differences between GitLab and Bitbucket regarding Jira integration.

|  |  |  |
| --- | --- | --- |
| Integration Feature | GitLab | Bitbucket |
| Create a branch from Jira per issue. | 🗶 | ✓ |
| Commit / merge linked to issue in Jira. | ✓ | ✓ |
| Issue from Jira linked to the git commit or merge. | ✓ | ✓ |
| Commit hash numbers, dates and number and name of files affected by the commit / merge visible in Jira. | 🗶 | ✓ |
| Link one commit to several Jira Issues. | ✓ | ✓ |
| Trigger a build in a branch in Jenkins | ✓ | ✓ |
| Trigger a build in Jenkins after a merge into master | We were unable to find a solution. | ✓ |

Bitbucket works hand in hand with Jira. Gitlab’s lack of features are not essential, however having the ability to look at filenames, commits, dates and number of files associated with an issue in Jira is very useful. Furthermore having the ability to create branches on a per issue basis from Jira might be something Lhasa may consider as part of its workflow. If this is the case then having that functionality would be extremely useful.

Finally the team spent half a day trying to setup a build to be triggered in Jenkins when a merge into master took place on GitLab. We were unable to find a solution. Furthermore the GitLab plugin is an opensource project located on Github <https://github.com/jenkinsci/gitlab-plugin>. The readme file displayed the following paragraph:

*We are seeking new maintainers for the plugin! The existing codebase is clean and well-tested thanks to a lot of hard work done by former lead maintainer*[*coder-hugo,*](https://github.com/coder-hugo)*but he is no longer using GitLab and does not have spare time to keep working on the plugin. We're looking for an active GitLab user and experienced Java programmer to take over as lead maintainer. The main work necessary at this point is resolving minor bugs and maintaining support for new versions of GitLab. If you're interested, reach out to*[*Owen*](https://github.com/omehegan)*- email address in the project's commit log.*

The GitLab plugin is not fully supported and on that basis I would recommend using Bitbucket.