

GitLab vs Bitbucket

Comparison Guide



Capability Comparison conducted by Accelerated Strategies Group, an independent third party organization.

Overall Rating

Compares the highest featured versions of both vendors.



Version Control & Collaboration



4.0



3.75

Source Code Repository



4.75



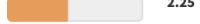
4.5

A distributed repository that allows for the version control, and tracking of changes of source code and other file based artifacts. The source code repository has capabilities to allow for collaboration across distributed teams using the repository, as team members concurrently perform their tasks, working with shared artifacts. The repository has capabilities to allow for the versioning, and branching and merging of multiple versions of the artifacts, leveraging non-linear distributed workflows.

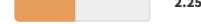
GitLab utilizes a Git based repository, hence supports all industry standard Git capabilities. GitLab's UI/UX is very well structured with other stages in the DevOps process such as CI & CD.

Bitbucket also utilizes a Git based repository, hence their capabilities are at par with each other. The key differences is that Bitbucket is a stand-alone tool, rather than a complete platform hence its UI/UX is much simpler than that of GitLab.

IDE



2.25



2.25

An Integrated Development (IDE) is a software suite that provides multiple tools and features for developers to write, edit, and validate their code.

IDEs are not a core capability of GitLab, GitLab integrates with all popular IDEs, as does Bitbucket. Furthermore, GitLab has a web-based IDE as a part of its platform. Bitbucket does not have an equivalent offering.

Likewise for Bitbucket too IDEs are not a core capability, but it integrates with all popular IDEs. Bitbucket does not have a web-based IDE as a part of its platform. It integrates with popular web-base IDEs.

Collaborative Development



4.0



4.0

Collaborative Development is the capability that enables a development team to leverage a set of tools and environments where all the stakeholders of a project – even if distributed by time or distance – may negotiate, brainstorm, discuss, share knowledge, and generally labor together to carry out some task, most often to create an executable deliverable and its supporting artifacts.

GitLab is an 'all-inclusive' platform that provides all Collaborative Development Capabilities as a part of the core platform without need for additional products or integrations.

Bitbucket, provides Collaborative Development capabilities in conjunction with other tools in the Atlassian suite, namely Jira and Confluence.

Traceability



3.75



3.25

Traceability is the ability to trace the lifecycle of any artifact in the development lifecycle and the associated artifacts it is related to or dependent upon, bi-directionally, both upstream to the requirements and change requests that originated a series of steps that resulted in a change to the artifact, and downstream as the artifact gets transformed or impacts the transformation of other artifacts, resulting in the deployment of code that delivers business value to the end user.

Both GitLab and Bitbucket have strong capabilities in the area of Traceability. The traceability in GitLab extends across all assets beings managed within the GitLab platform. GitLab also integrates with 3rd party tools, allowing traceability to extend beyond the core platform.

Bitbucket has strong capabilities in the area of Traceability. For Bitbucket, the traceability extends to tools beyond Bitbucket. Bitbucket has a rich set of integrations with other Atlassian, and 3rd party tools, to which the traceability capability extends.

Code Reviews



5.0



4.5

Ability to review and analyze code, either by other peer team members, or using automated tools. Includes the ability to provide comments on the code analyzed and have collaborative discussions around the code.

Both tools have strong capabilities to carry out collaborative code reviews.

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Secure Engineering/Coding



4.25



4.25

Secure Engineering capabilities provides a set of best practice and tools that allows development teams to give proper attention to security during the development lifecycle. These practices and tools are intended to help enhance product security, protect intellectual property and support the terms of warranty of the products being delivered.

GitLab is an 'all-inclusive' platform that provides all Secure Engineering and Coding capabilities with their core platform.

Bitbucket provides the same Secure Engineering and Coding capabilities via integrations with 3rd party security tools.

Enterprise Readiness



4.0



3.75

Capabilities to support large, distributed teams, with internal and external contributors to code, internal and 3rd party shared code modules, with the ability to collaborate across geographies and timezones

Both GitLab and Bitbucket are strong in their ability to support large, distributed enterprises.

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