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Powerful performance and smooth user experiences

See what's inside the Bitbucket 8.9
Long Term Support release

Each year, Atlassian releases a Long Term Support (LTS) release. These updates provide you with continued access to critical security, stability, data integrity, and performance fixes for the two-year support window before this version reaches its end of life.

LTS releases are highly stable and offer teams confidence in their software, being preferred by teams who can only upgrade once per year. Bitbucket 8.9, the most recent LTS release, offers significant new value and features since the previous LTS release, 7.21 in March 2022.

We packed this release with features across several areas, focusing on your instance's performance and enhancing the user experience. Some highlights of this LTS release include Bitbucket Mesh to help you take control of your software's performance, secret scanning to strengthen your organization's security, and several new and updated user experience features designed to boost developer efficiency and effectiveness.

This document is designed to allow you to easily consume the breadth of new capabilities that are now available to you in Bitbucket Data Center 8.9 across performance improvements, user experience updates, security and compliance enhancements, updated infrastructure, and new data and insights.

Powerful performance and stable scalability

Since the last LTS release, Bitbucket has added several new features for powerful, reliable software you can count on. Bitbucket Mesh, now equipped to support the enterprise, unlocks a new level of resiliency and scalability to help even the largest teams to build quality software without any git constraints. We recommend all customers who have more than 1,000 users and busy repositories leverage this feature to boost git performance.

- ☑ **Bitbucket Mesh 2**
  Boost performance and add high availability to your Git repositories with the latest version of Bitbucket Mesh. Mesh now supports large, highly active repositories, can be easily scaled, has built-in disaster recovery, and supports Kubernetes. (**8.9**)

- ☑ **Authorization and permissions performance improvements**
  Perform user permission checks and authorizations faster than ever, improving performance for instances with large numbers of permissions, users, and groups. (**8.8**)

- ☑ **Faster Audit log**
  Load the audit log faster than ever before, even if your database contains more than a few million events. (**8.6**)

- ☑ **Bitbucket Mesh**
  Vastly improve Git's performance and add high availability to your repositories with Mesh—a horizontally scalable distributed Git storage. (**8.0**)
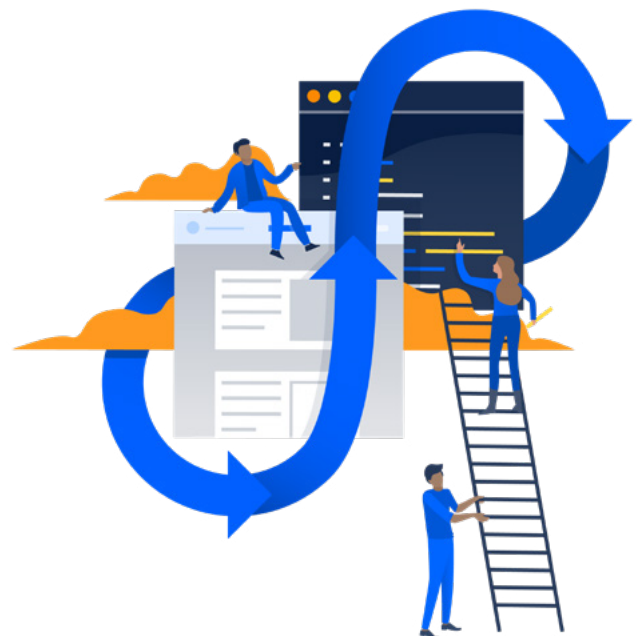
Improved user experience

Admins and developers alike will find Bitbucket 8.9 easier to use, with new features and capabilities designed to help you get work done without extra effort.

☑ **Resolvable comments in pull requests**
Collaborate efficiently on pull requests by marking comments as resolved when no further discussion is needed. (**8.9**)

☑ **Webhooks for projects**
Enjoy updated webhooks features that allow admins to configure webhooks for projects instead of individual repositories, easily view what webhooks are set on a project to avoid duplicates, and more. (**8.8**)

☑ **View effective user permissions in repositories and projects**
Ensure there is no accidental spread of user permissions as you can see everyone who not only has explicit permissions to repositories and projects, but also those who gained permissions implicitly via user group membership, from a project, or global permissions. (**8.5**)

☑ **Default tasks for pull requests**
Create more efficient code reviews and consistent processes with a standardized set of tasks created together with pull requests. (**8.4**)

☑ **Create repository permission**
Grant your developers more autonomy and decrease the load on your project admins with the new "create repository" permission. This allows users to create new repositories in the project without being a project admin. (**8.2**)

☑ **New build states**
Know what happens with your CI pipeline with the new states for builds UNKNOWN and CANCELLED that your CI/CD tools can send to Bitbucket as build results. (**8.0**)

☑ **Repository archiving**
Keep your list of repositories and code search results clean and organized by archiving unused repositories, making it read-only to all users while remaining available on your Bitbucket instance. (**8.0**)

Enhanced security and increased compliance

When it comes to security, there's no such thing as too safe. That's why Bitbucket 8.9 is our most secure offering yet, including more granular controls, secret scanning, and new project settings – all purpose built to help enterprises maintain safe and compliant environments.

☑ **Enforced project settings**
Improve your organization's security posture by enforcing a specific configuration of project settings, preventing repository admins from making unwanted adjustments to repository settings. (**8.8**)

☑ **Stricter controls on SSH keys with global settings**
Meet compliance demands when you restrict users from adding weak SSH keys. We also added a global SSH keys expiry policy, so that admins can force users to rotate SSH keys. (**8.7**)

☑ **Secret scanning**
Scan incoming commits automatically to detect accidentally exposed secrets such as tokens, private keys, passwords, or environment variables. (**8.3**)

☑ **Updated VPAT documents**
Deliver practical solutions for all employees with software built to meet accessibility needs. (**8.0**)

Flexible infrastructure

Whether you're preparing to migrate to Cloud or Data Center, expanding your current infrastructure, or working across deployments, Bitbucket 8.9 is ready to help self-managed teams deploy flexibly on infrastructure as unique as you are.

☑ **Enhanced integration with Jira Software Cloud**
Send deployment and build information from your integrated CI/CD tools to Jira Software Cloud. (**8.1**)

☑ **Secure application tunnels to Atlassian Cloud**
Communicate safely across your organization, regardless of deployment. The secure pathway between your organization's Atlassian Cloud and the products in your network tunnel application links and integrates your products. (**8.0**)

Clear data and insights

Help your admins monitor and diagnose Bitbucket performance and discover insights quickly. Bitbucket 8.9 unlocks actionable data insights to better inform your decision-making capabilities.

☑ **REST APIs to troubleshoot mirrors**
Solve mirror synching issues with new REST APIs to help diagnose problems. (**8.6**)

☑ **Improved JMX monitoring**
Pinpoint performance problems and spot issues before they happen with granular, app-specific metrics when you enable JMX monitoring. (**8.4**)

☑ **Java Flight Recorder**
Diagnose and troubleshoot Bitbucket issues on the fly as you identify and resolve problems as they occur when you bundle Bitbucket with the Java Flight Recorder. (**8.3**)

Ready to upgrade?

Bitbucket Data Center and
Server 8.9 release notes

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