tinybird

Version control introduction

Tinybird's Git integration transforms data pipeline management, aligning it with established software development practices. This ensures each Tinybird Release corresponds to a specific Git commit, offering a robust, version-controlled environment for your real-time data deployments.

> Version control on Tinybird currently in private beta and is not yet generally available. These docs are only for users who have version control enabled on their Workspaces.

Why use version control?

Version control, a standard in software development, is now integral to building real-time data products with Tinybird. If your Workspace uses Tinybird's integration with Git, it means you can build real-time data products like you build any software - not just benefiting from version control, but also isolated environments, CI/CD, and testing too.

This approach allows you to treat and manage your real-time data in the **same way you manage your code**. You can take your existing software engineering knowledge and apply the same principles to real-time data products.

When managing your Tinybird projects with version control, you can also:

- Sync Tinybird Releases with your Git commits.
- Deploy semantically-versioned Data Sources, Pipes, and API Endpoints as code.
- Deploy Releases in preview to test how they'll impact your production Release.
- Have a semantically-versioned Release history, so you can roll back if needed.
- Use Branches to attach production data to non-production Branches, and test your data pipelines safely with real data.

If you're familiar with version control already, it should make testing, merging, and deploying your Tinybird data projects a familiar process.

Data teams can use Tinybird in the same way that software engineering teams work: To enforce standardized agreements to use version control, code reviews, quality assurance, testing strategies, and continuous deployment.

Next steps

- Get familiar with the core concepts: Branches and Releases.
- Follow the version control tutorial to connect your Tinybird Workspace to version control: Working with version control.
- Explore our repository of common use cases for iterating using version control to explore and try out how to iterate Tinybird projects with version control.

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