

AN OVERVIEW

COLLABORATION: GIT AND GITHUB

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VERSION CONTROL

Version control (VC) software tracks and attributes every change to a project.

VC systems prevent conflicting changes and keep a detailed timeline of every version of a project.

Collaborators can pull up any version of their project on the project timeline.



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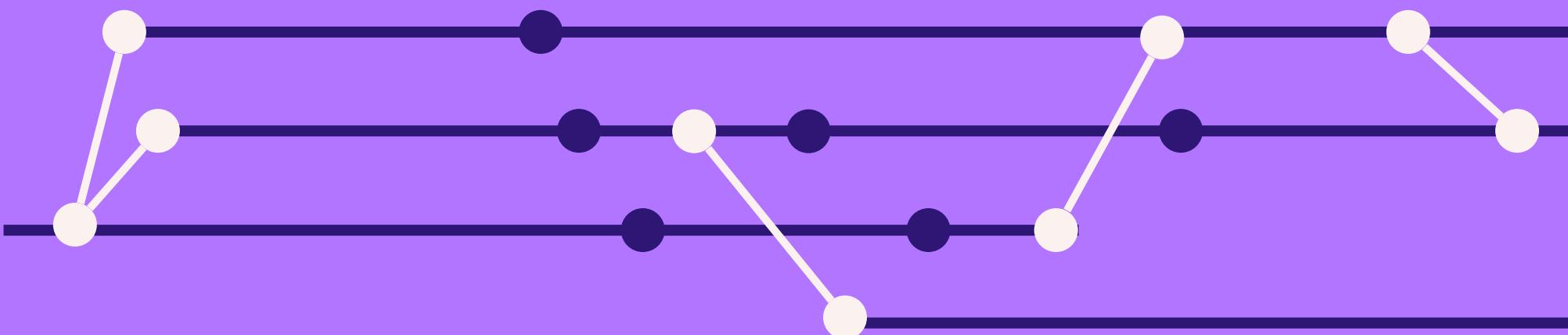


Git is a widely-used, distributed VC system. All collaborators have their own, complete copy of a project.

Any copy can be merged with another copy, creating a new version that has all changes in each original copy. Conflicts must be resolved manually during the merge.

A "Git project" is any directory that contains a Git repository, frequently called a "repo". ("Git project" and "repo" are often used synonymously.)

Even when Git is installed on a machine, its features are only available in directories with a repository.



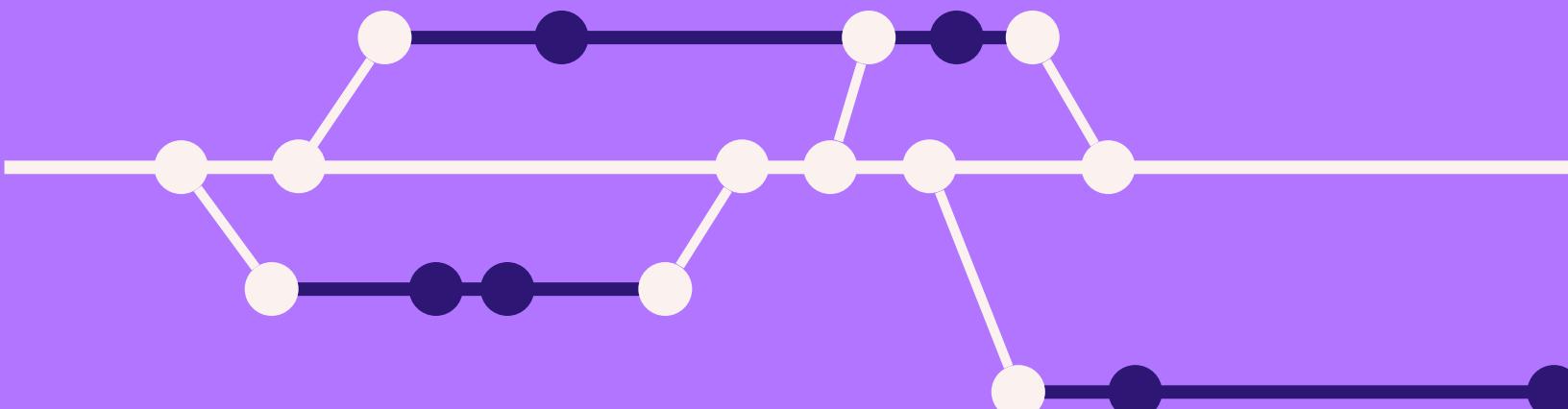
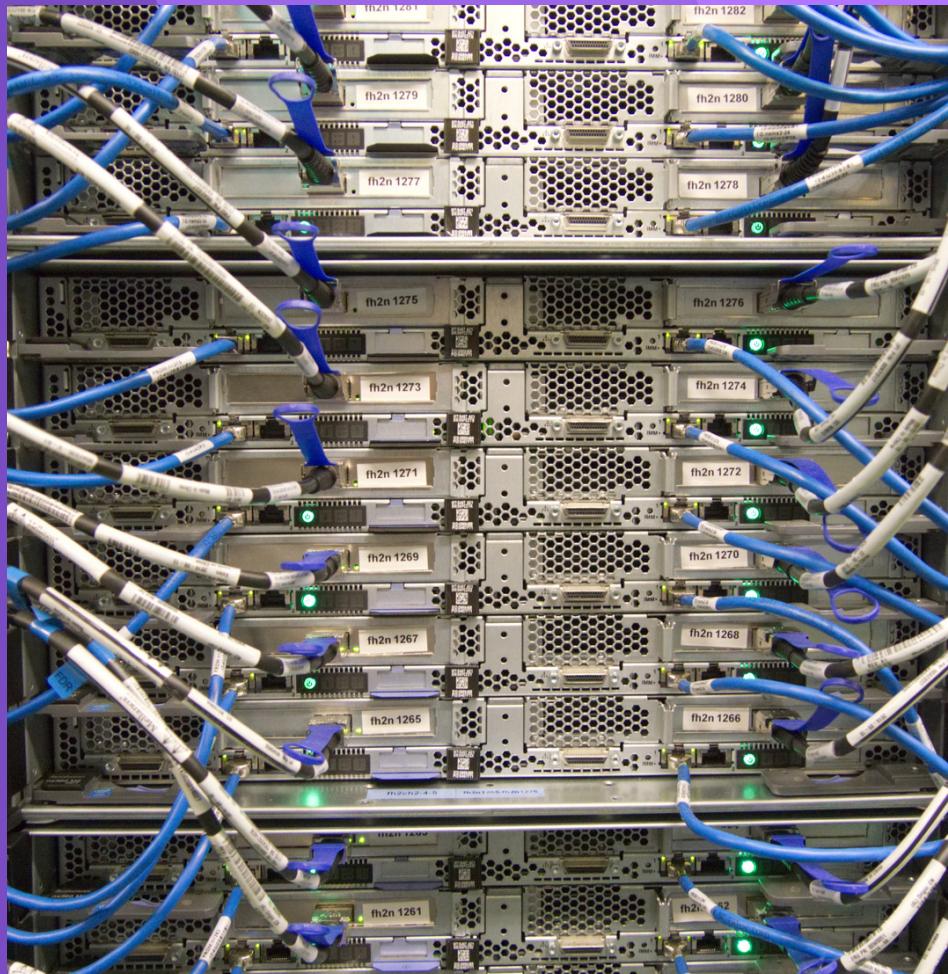
GITHUB

GitHub is a cloud-based service that hosts projects and uses Git to manage them.

It serves as a remote repository that collaborators can pull from and contribute to.

Its repositories can be public or private and it offers a web GUI to interact with them.

It further enhances collaboration with a suite of organization- and security-focused features.





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