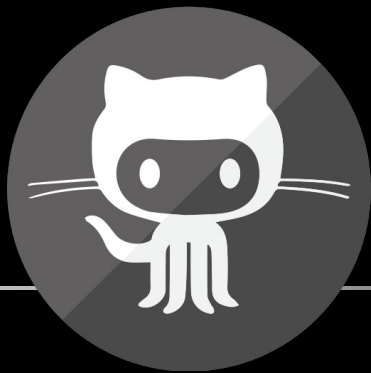


# DevOps community

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# GitHub



*Gabriel Joseph*

# Introduction to GitHub

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Is a popular platform for version control and collaboration, built on top of Git, a distributed version control system. It allows developers to:

# Uses of GitHub

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- Host repositories: Store and manage code in both public and private repositories.
- Collaborate efficiently: Work with others through features like pull requests, code reviews, and issues.
- Track changes: Monitor code changes, maintain versions, and revert to previous states when needed.
- Integrate seamlessly: Connect with tools like CI/CD pipelines, project management platforms, and cloud services.
- Build communities: Share open-source projects and gain feedback from contributors worldwide.

# How to create a GitHub account

Please visit <https://github.com/signup>

# How to login into GitHub account?

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Please visit:

*<https://github.com/login>*

# How to connect **GitHub** with VsCode

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- Add your **GitHub** account
- Authenticate with your account

# How to clone GitHub repository.

## What is Cloning repository?

Cloning a repository means creating a local copy of a GitHub repository on your computer. This allows you to:

- Access the codebase locally
- Edit, test, and debug
- Stay synchronized

Command: `git clone <repository URL>`



# How to pull a GitHub repository?

Pulling a repository means fetching and integrating the latest changes from the remote repository (on GitHub) into your local copy.

- Navigate to the repository
- Use the git pull command:

`git pull`

- Optional if origin specification needed

`git pull origin <branch name>`

# How to push into GitHub Repository

- Stage your changes:
  - Command: `git add <file name>`  
Or for all changes
  - Command: `git add .`
- Commit your changes:
  - Command: `git commit -m "commit message" <file name>`  
Or for all commits
  - Command: `git commit -am "commit message"`
- Push to the remote repository:
  - Command: `git push`  
Or
  - Command: `git push origin <branch name>`

# How collaboration works

Please visit:

- <https://github.com/<username>/<repository name>>