

# GitHub Integration

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**GitHub** is the largest code host on the planet with over 17.5 million repositories. These repositories are open to the community for public projects and secure for private ones.

## 1. What can we do currently?

Right now you can connect to a GitHub repository with a Taiga project and generate a one-way communication (from GitHub to Taiga) to:

- **Change the status of an epic, user story, issue, or task in Taiga with the commit message:** you may want to read more about this feature in the article ["Changing elements status via commit message"](#).
- **Attach commits in an epic, user story, issue, or task of Taiga with the commit message:** you may want to read more about this feature in the article ["Attach commits to elements via commit message"](#).
- **Create issues on Taiga when they are created on GitHub.**
- **Add comments to the connected issues on Taiga when they are created on GitHub.**

In Taiga an issue is connected with a GitHub issue if it was created by the GitHub integration. In the detail page of an issue on Taiga you can see a link under the subject to the original issue in GitHub.

## 2. And what can't we do?

- **Dual synchronization:** currently the integration functionality only allows receiving messages from GitHub. Taiga can't communicate with GitHub (the one-way communication is from Github to Taiga), so changes made in Taiga won't be reflected in GitHub.
- **Show commit links in Taiga issues:** If you name a story, task or issue in a commit message (by its reference number) a link to commit won't appear in Taiga.
- **Sync current GitHub issues and comment when the integration module in Taiga is enabled:** the integration only works with the future issues and comments added in GitHub.

#### WARNING

Integration will always take time so please be patient. If you need a specific integration and you feel ready to get a machete and get into the Taiga, please review our [API Docs](#) and our section in [Taiga](#) resources about "[How you can contribute?](#)". If you need help with a specific feature, you can always get in touch with our community through our [mailing list](#).

## 3. Configure the integration module in Taiga

1. Go to **Admin > Integrations > GitHub**
2. Fill **secret key** or use the auto generated one
3. Copy the **payload URL** input

[Admin > Integrations > GitHub Panel] | *imgs/github\_in\_taiga.png*

## 4. Configure Webhooks in your GitHub repository

#### WARNING

Be careful if you use **organization webhooks** instead of **repository webhooks** because the first emit calls for events in all of the repositories and the second only in one of them.

1. Click on **Settings > Webhooks & Services > Add webhook**
2. On that screen set the **payload url** with the **payload url** from Taiga
3. The **secret key** must be filled with the same content as the **secret key** from Taiga
4. Content type must be **application/json**.
5. Taiga currently listens for three different kind of **events**. Just check "**send me everything**" or the events you want Taiga to listen for.
  - a. **Push events**: changing element status via commit message
  - b. **Issues**: issues created in GitHub appear automatically in Taiga
  - c. **Issue comment**: issue comments created in GitHub appear automatically in Taiga
6. Press **Add webhook** button to create the new webhook

[GitHub Webhooks] | *imgs/github\_webhook.png*