



GitHub Cloud setup

Tags: **Flow**

Create a GitHub Cloud integration with Flow using OAuth or Personal access tokens.

Important: Use a service account to create this integration. Learn more about [creating a service account](#).

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Who can use this?

Core



Plus



Git host permission requirements

In order to use all integration services which include repo, pull request, ticket and webhooks, the service account owner needs to be an **owner** on the GitHub organization.

OAuth permissions

Flow only requires read access to your repositories. This permission is needed to process the metadata used to generate our reports. GitHub does not offer the ability to narrow permissions down to just read-only access to private profile information and repositories. GitHub's standard OAuth permissions include write plus full admin permissions, which are never used by our system. These access levels are required in order to use GitHub APIs.

Note: When connecting GitHub Cloud to Flow via OAuth, the OAuth application must be [authorized](#) (external site, opens in new tab) and [approved](#) (external site, opens in new tab) in GitHub. Learn more about [troubleshooting](#) OAuth connections.

Access token permissions

In addition to the minimum access token scopes, the service account holder needs to be an owner on the GitHub organization in order to utilize all integration services and webhooks.

If the service account holder is only a **member** of the organization, all services except webhooks will be available in Flow.

Webhook permissions

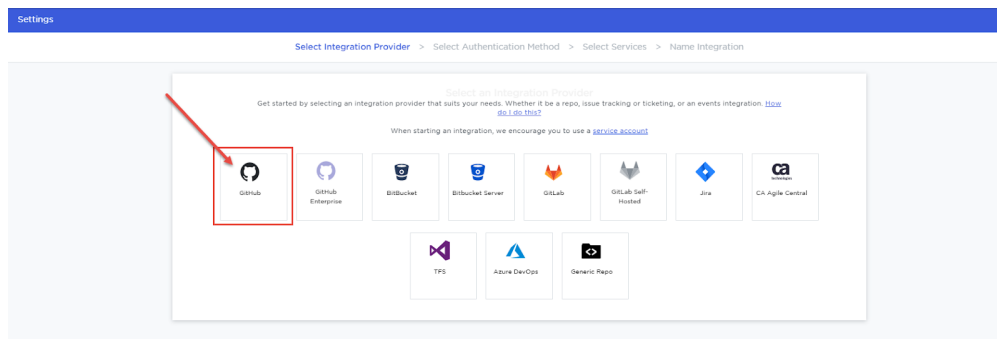
In order to enable webhooks, the service account needs to be a GitHub organization owner and at least one repo needs to be imported from the organization.

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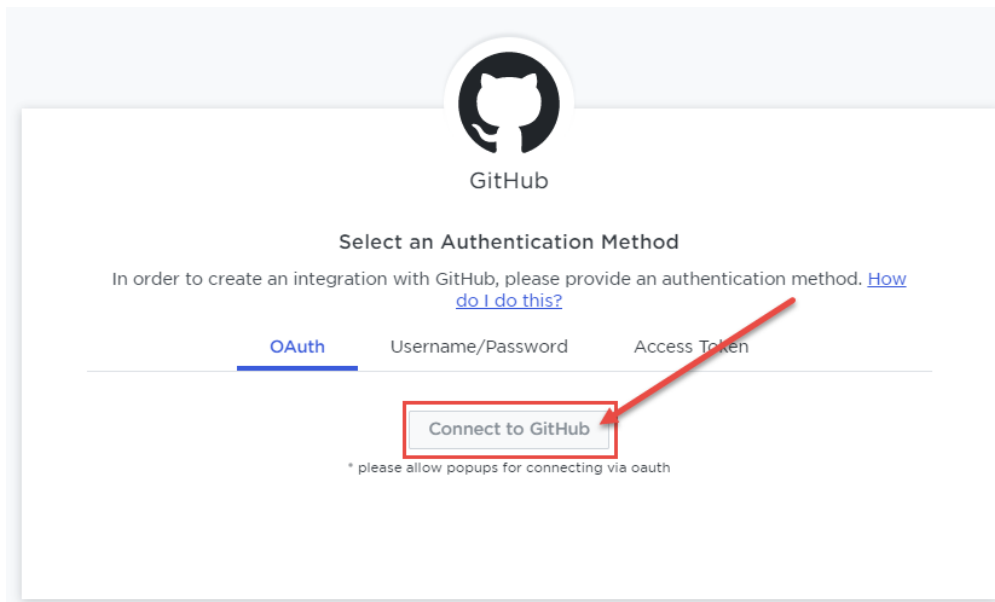
Connect via OAuth

Connecting via OAuth is the fastest and easiest way to connect your repos and import your data, including pull requests and tickets.

1. Click **Settings** on Flow's top navigation.
2. On the left navigation under **Integrations**, click **Integrations**.
3. Click **Add Integration** in the top right hand corner of the Integrations page.
4. Click **GitHub** on the Integration Provider list.



5. Under the OAuth tab, click **Connect to GitHub**.



6. If you're already logged into your GitHub account, a pop-up will appear prompting you to confirm access.

Note: If you're not already logged in, you'll be prompted to log in and then authorize the connection.

Once you've successfully connected, proceed to the [Finishing up section](#) of this article to complete the integration process.

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Connect via username and password

New integrations from Flow to GitHub can no longer be made using username and password. Please use OAuth, or connect via Access Token.

Existing integrations can continue to use username and password authentication.

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Connect via access token

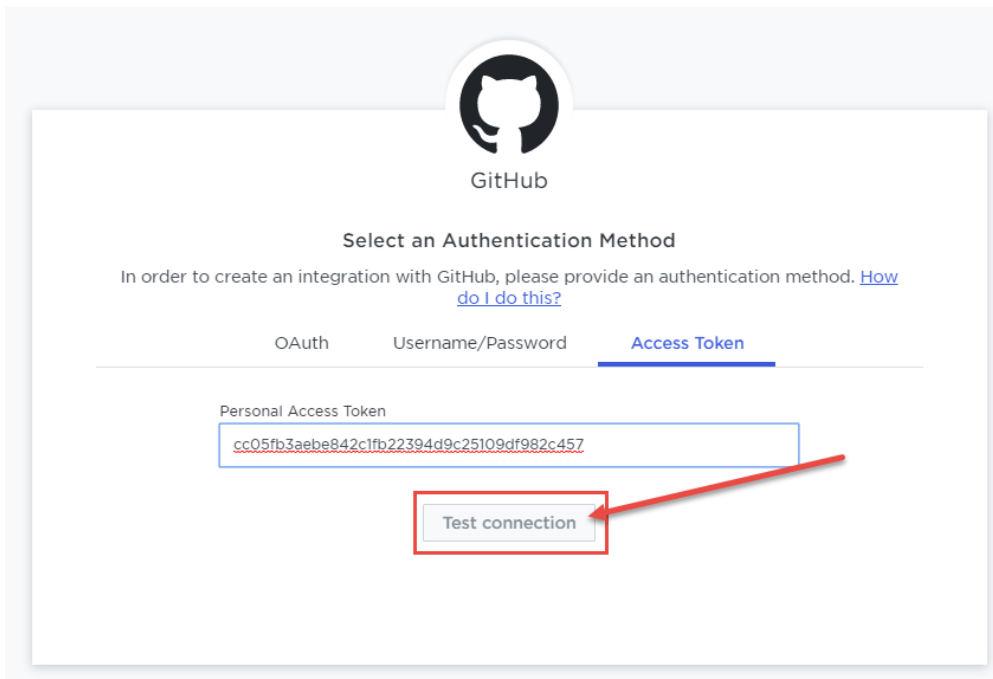
To connect via an access token, please use the Access token authentication method outlined in this [GitHub Help Center article \(external site, opens in new tab\)](#).

Important: Flow cannot connect to GitHub Cloud using fine-grained personal access tokens. If you want to connect using a personal access token, you must use a personal access token (classic).

Now that you've generated a new token, these are the scopes Flow needs in order to import and process your repos and projects and to enable webhooks:

- repo (all)
- admin:org
 - read:org
- admin:repo_hook (all)
- admin:org_hook
- user
 - read:user

Once you've created your token, copy and paste it into the Personal Access Token box on the Access Token tab of the GitHub integration screen in Flow and click **Test connection**.



If the connection was successful you'll see the following message: Successfully connected via **username**.

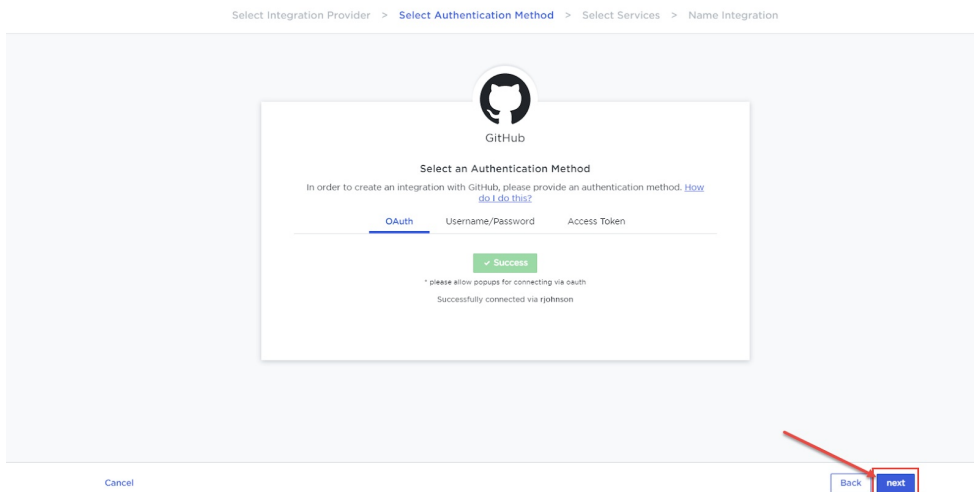
Note: If SSO is configured for your GitHub organization, you must [authorize the token in GitHub to proceed \(external site, opens in new tab\)](#). If you refresh your token and update it in Flow, you must reauthorize SSO for the token for Flow to correctly ingest your data.

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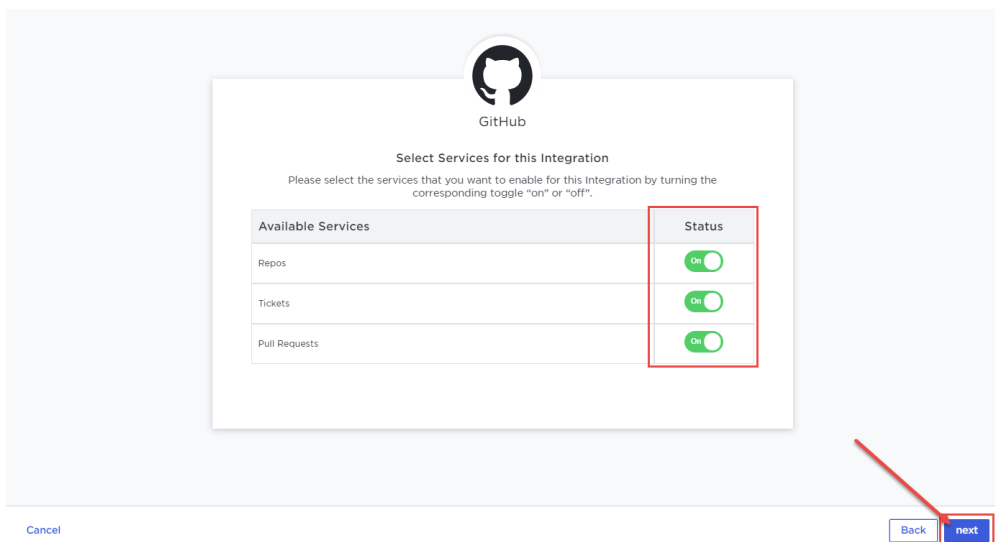
Finishing up

Once you have a successful connection, finalize your integration and begin importing repos.

1. Click **Next**.

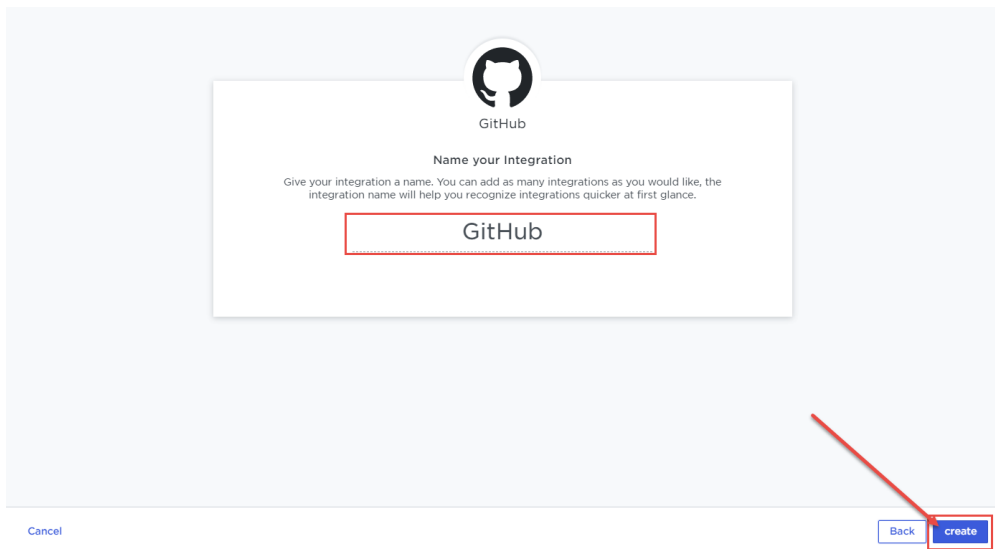


2. Select the services you want turned on for this integration. If you would like Flow to ingest ticket data and pull request data in addition to repo data, then leave all three services **on**. You can turn services **on** and **off** at any time.



3. Click **Next**.

4. Name your integration so you can identify the account you connected with.



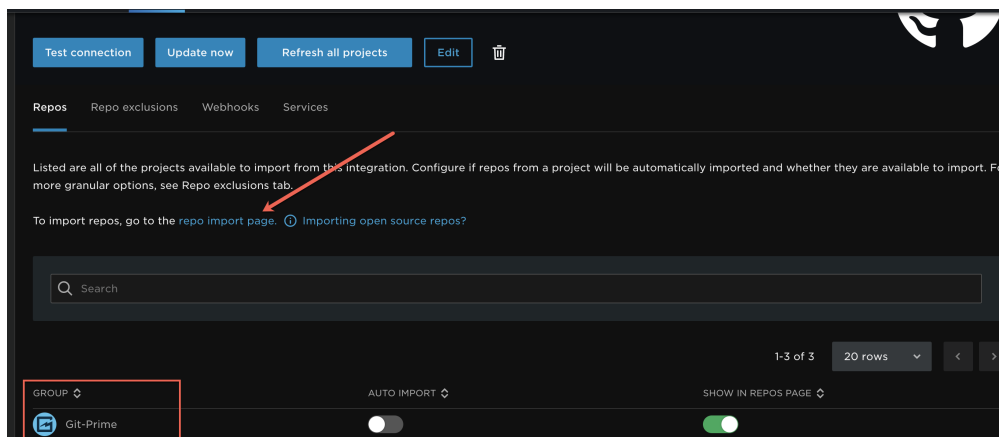
5. Click **Create**.

Next, make sure your data is processing correctly. If you're not already on the Integration details page for your new GitHub integration:

1. Click **Settings** in the top navigation.
2. In the left navigation, click **Integrations**.
3. Click the integration you just created.
4. Click the **Repos** tab.

Make sure all the expected groups and projects appear in the Repos tab.

Begin importing repos by clicking the **repo import page**.



To learn more about managing your new integration settings, see [Managing integrations](#).

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Troubleshooting

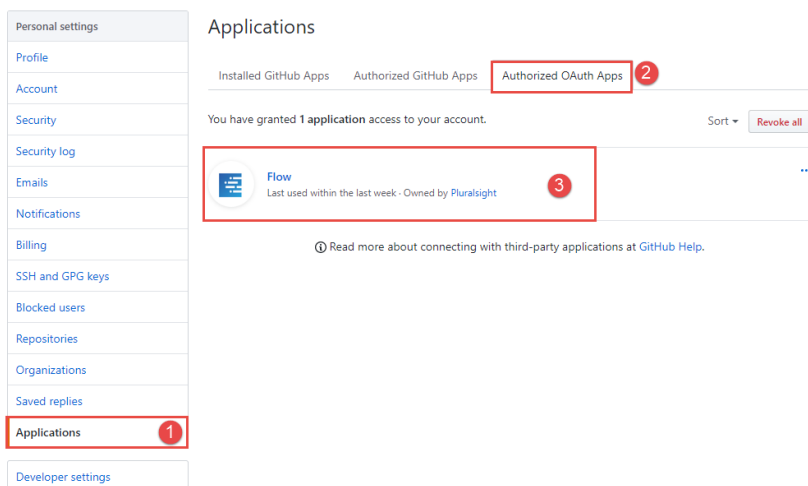
If you're unable to see your GitHub group in the Repo tab after you've successfully connected by account, there

are two likely reasons:

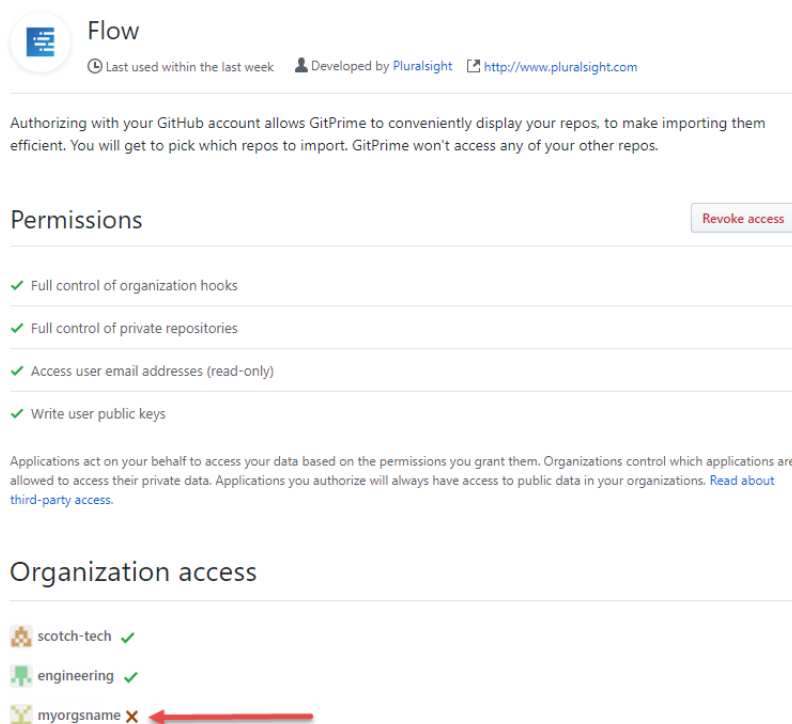
- **Permissions:** If you're a **member** of the organization, send a request to the owner of the organization to grant permissions to Flow.
- **Organization access:** Organization access may not have been granted during the setup of your GitHub integration.

To provide permissions:

1. In GitHub, under **Settings**, click **Applications**. Click **Authorized OAuth Apps**. Next, click on the **Flow** application.



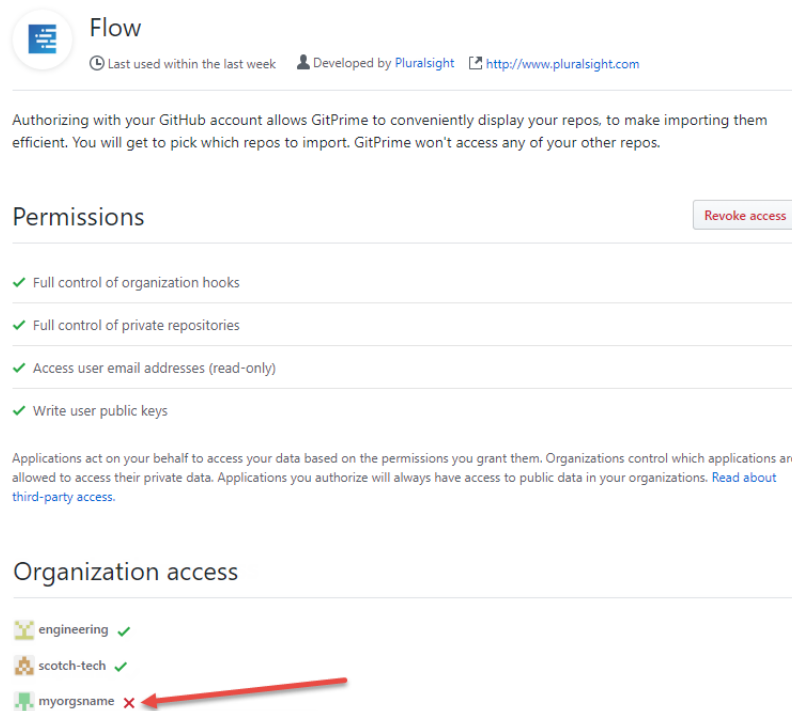
2. Here, you can see which organizations Flow has access to. As seen below, Flow does not have access to the **myorgsname** organization.



Note: If you're a member of the organization and not the owner, click the **Request** button next to your organization name. An owner of the organization will receive your request and will be able to grant or deny it. If you don't see a **Grant** or **Request** button, see the section below.

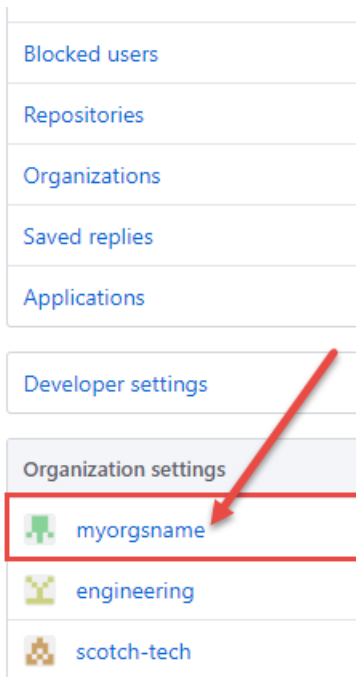
To give Flow organization access:

1. Click the **Grant** button next to the organization's name. If you don't see a red **x** next to the organization, you need to grant permissions at the organization level in GitHub, as shown below.

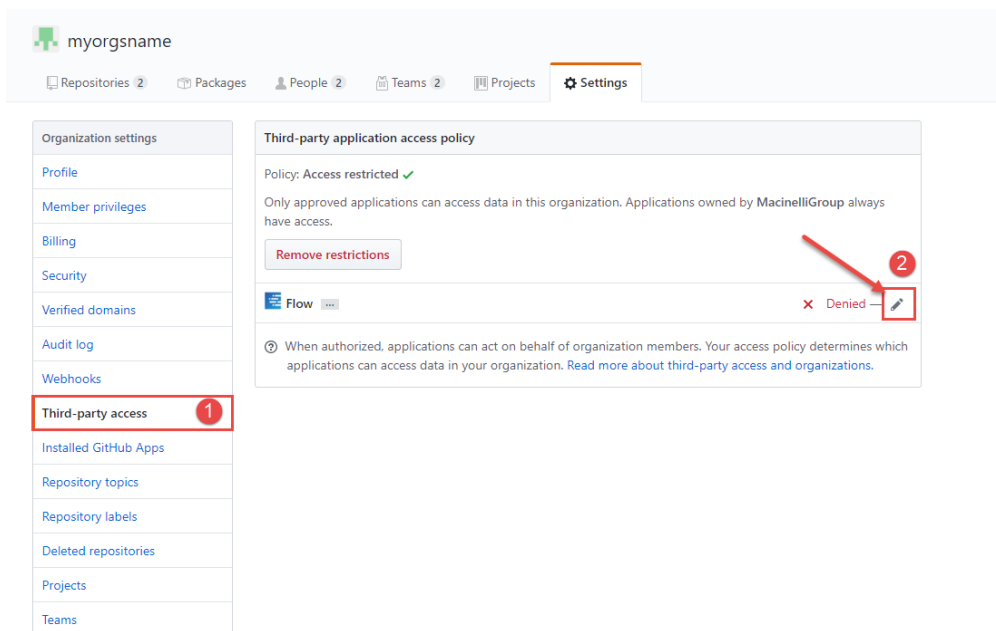


The screenshot shows the GitHub interface for an application named 'Flow'. At the top, there is a header with the application name 'Flow', a clock icon indicating it was last used within the last week, a person icon indicating it was developed by Pluralsight, and a link to the website http://www.pluralsight.com. Below this is a paragraph explaining that authorizing with a GitHub account allows GitPrime to display repositories for import. A 'Permissions' section follows, with a 'Revoke access' button on the right. The permissions listed are: Full control of organization hooks, Full control of private repositories, Access user email addresses (read-only), and Write user public keys. A note below states that applications act on behalf to access data based on permissions. The 'Organization access' section lists three organizations: 'engineering' with a green checkmark, 'scotch-tech' with a green checkmark, and 'myorgsname' with a red 'x' and a red arrow pointing to it, indicating that access has not been granted to this organization.

2. Under your GitHub Settings, click the organization you want to give Flow access to.



3. Under the organization's settings, click **Third-party access** and click the **edit** button next to the Flow application.



4. Click **Grant access**. This gives Flow access to your GitHub organization.



Flow

Developed by [Pluralsight](#) <http://www.pluralsight.com> approval requested by [rjohnson](#)

Authorizing with your GitHub account allows GitPrime to conveniently display your repos, to make importing them efficient. You will get to pick which repos to import. GitPrime won't access any of your other repos.


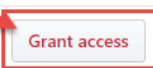
Access

Currently: ✗ No private access

Review third-party application access request

Granting access will give this application the ability to request access to private data in the myorgsname organization.

Grant access

 
 ⓘ Applications act on your behalf to access your data based on the permissions you grant them. Organizations control which applications are allowed to access their private data. Applications authorized by members will always have access to public data in your organization. [Read about third-party access.](#)

Now that you've granted Flow access, return to Flow. Under your GitHub integration, select the **Repos** tab. If you don't see all your GitHub organizations you may need to refresh the page.

If you need help, please contact [Pluralsight Support](#).