



## Getting Started with Fluxx APIs

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# Overview

The Fluxx API provides you with the tools to access, transform, and create data within Fluxx to help better manage your Grants Management System as well as enabling you to integrate with other business critical software environments. In this guide, we will cover how to create an application key-pair to procure an access token.

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## Creating Application Keys

As an Admin or Super User, you have the ability to create a new application key-pair on your site. To do this, you will need to:

1. Login to your Fluxx site.
2. Append /oauth/applications to the URL.
  1. Production example, <https://example.fluxx.io/oauth/applications>
  2. Pre-production example, <https://example.preprod.fluxxlabs.com/oauth/applications>
3. Create a new application key-pair by clicking on the **'New Application'** link below 'Your Applications'.
4. Provide a name for the key-pair and a Redirect URI for queries to be routed to.
  1. Name example, Website Integration
  2. Redirect URI example, <https://example.fluxx.io>
5. Click 'Submit' to generate your keys.
6. Once submitted you will find the name of your application listed on the Your Applications page.

Please be mindful of whom you are sharing the application id and secret with, as these could allow them to access your site.

Only Admins and Super Users can create Application Keys.

For the Redirect URI, you can enter your Fluxx URL, the local test sample, or the integration URL.

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# Creating an Access Token

Once you've created an application key-pair you can generate an access token. The access token allows a user to make API calls and only lasts for 2 hours. To get an access token, you will need to:

1. Login to your Fluxx site.
  2. Append /oauth/applications to the URL.
    1. Production example, <https://example.fluxx.io/oauth/applications>
    2. Pre-production example, <https://example.preprod.fluxxlabs.com/oauth/applications>
  3. Select the Application Key you want to use.
  4. Copy the application id and secret.
    1. application id and secret are also known as client id and client secret.
  5. Paste the application id and secret into the following command:
    1. 

```
curl --globoff -X POST "https://<--your site-->/oauth/token" -F 'grant_type=client_credentials' -F'client_id=<--application id-->' -F 'client_secret'=<--secret-->
```
    2. This command can also be found in the API Documentation page.
  6. Run the command in the terminal.
  7. An access token should be returned.
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## Authorization Application

If you are working with a 3rd party tool or application, you can authorize that tool to receive data via a Redirect URI (aka Callback URL).

1. Login to your Fluxx site.
2. Append /oauth/applications to the URL.
  1. Production example, <https://example.fluxx.io/oauth/applications>
  2. Pre-production example, <https://example.preprod.fluxxlabs.com/oauth/applications>
3. Select the Application Key you want to use.
4. Click on the Authorize hyperlink under Link to authorization code.
5. Click on the Authorize button.

If you are not working with a 3rd party tool or application, you can enter your Fluxx URL.

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