

# Getting Started with the Strava API

Welcome to the Strava API! This is a brief overview of how to use our API. Anyone who breaks a sweat is an athlete, so we refer to our users as athletes.

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## A. Basic info about the API

The Strava REST API includes data on athletes, segments, routes, clubs, and gear. It is free to use. The Strava API does not allow you to get data for all Strava public athletes, as you can see on our website.

To get data on athletes, you will have to make an application and request that athletes sign in with Strava, and grant your application certain permissions using OAuth 2.0. You can get data on yourself without authentication for testing purposes.

Strava API usage is limited on a per-application basis using both a 15-minute and daily request limit. The default rate limit allows 200 requests every 15 minutes, with up to 2,000 requests per day.

If you're looking to connect our athlete community to your app, and aren't just developing for yourself, with your own data, [please submit your app for review!](#)

### - Quick Links

[Rate limits and pagination](#)  
[Uploading files](#)  
[Terms of Service](#)  
[Brand Guidelines](#)

### - Examples of What to Build with the Strava API

[Create a print of your route](#)  
[Add weather for your activities](#)  
[Listen for new Strava activities using Strava webhooks](#)  
[Measure how you are performing in your athletic activities](#)

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## B. How to Create an account

**To start developing with the Strava API, you will need to make an application**

1. If you have not already, go to <https://www.strava.com/register> and sign up for a Strava account.
2. After you are logged in, go to <https://www.strava.com/settings/api> and create an app.

3. You should see the "My API Application" page now. Here is what everything means:

- Category: The category you chose for your application
- Club: Will show if you have a club associated with your application
- Client ID: Your application ID
- Client Secret: Your client secret (please keep this confidential)
- Authorization token: Your authorization token which will change every six hours (please keep this confidential)
- Your Refresh token: The token you will use to get a new authorization token (please keep this confidential)
- Rate limits: Your current rate limit
- Authorization Callback Domain: When building your app, change "Authorization Callback Domain" to localhost or any domain. When taking your app live, change "Authorization Callback Domain" to a real domain.

My Profile

My Account

My Performance

Display Preferences

Privacy Controls

Data Permissions

Email Notifications

My Gear

My Apps

Partner Integrations

My Badges

My API Application

## My API Application

Category Charity

Club

Client ID 36431

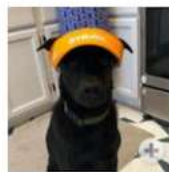
Client Secret \*\*\*\*\* [show](#)

Your Access Token (?) \*\*\*\*\* [show](#)  
 scope: read  
 expires at 2019-07-03T02:09:12Z

Your Refresh Token (?) \*\*\*\*\* [show](#)  
 scope: read

Rate Limits (?) 600 requests every 15 minutes, 30000 daily

## Update Application

[Remove](#)

**App Icon**  
 Min Size  
 124 x 124 px

The information below is displayed on your [OAuth Authorization page](#).

Application Name

BodhiTheDog

Category

Charity ▾

Club

Website

https://www.strava.testapp.com

Application Description

Authorization Callback Domain

localhost

[Update](#)

### C. How to Make a cURL request

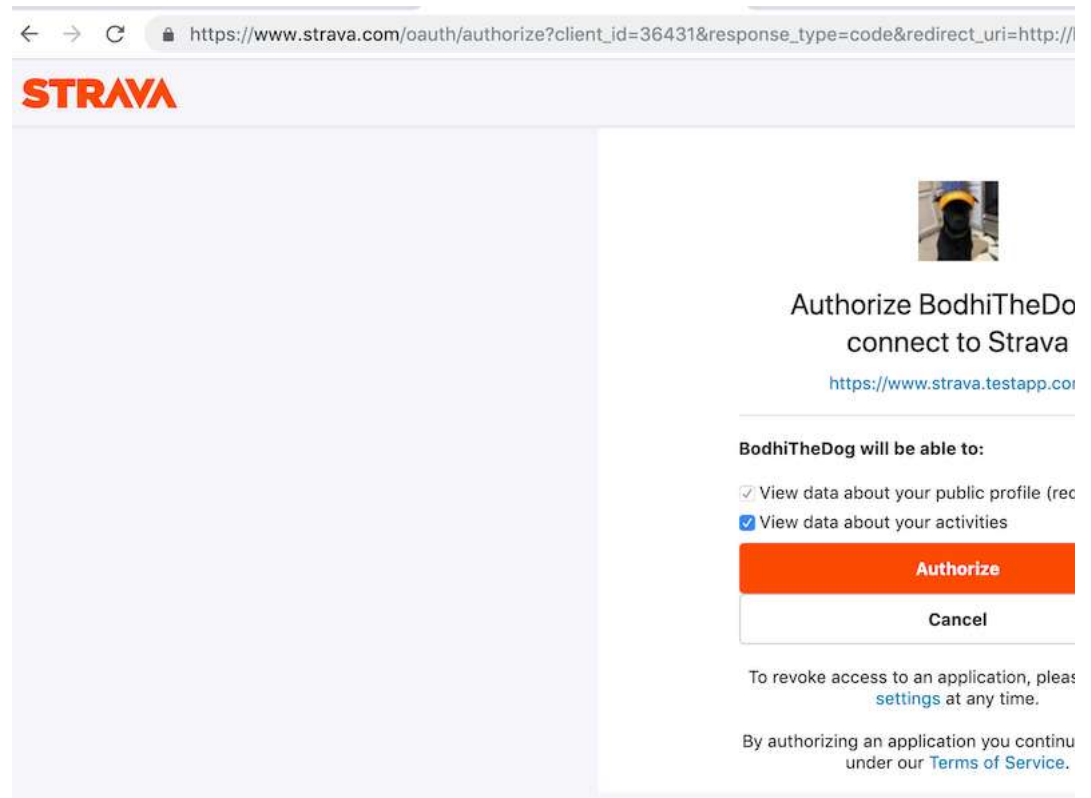
1. Let's make a cURL request against the Strava API. cURL is a command line tool and is [available on all platforms](#). For our first request, we are going to get our profile information which is this call:  
<https://developers.strava.com/docs/reference/#api-Athletes-getLoggedInAthlete>
2. Access tokens are required for all requests, and can be included by adding "Authorization: Bearer #{access\_token}" as a header.

4. Make a cURL request:

5. If you are using **Postman**, it will look like this:

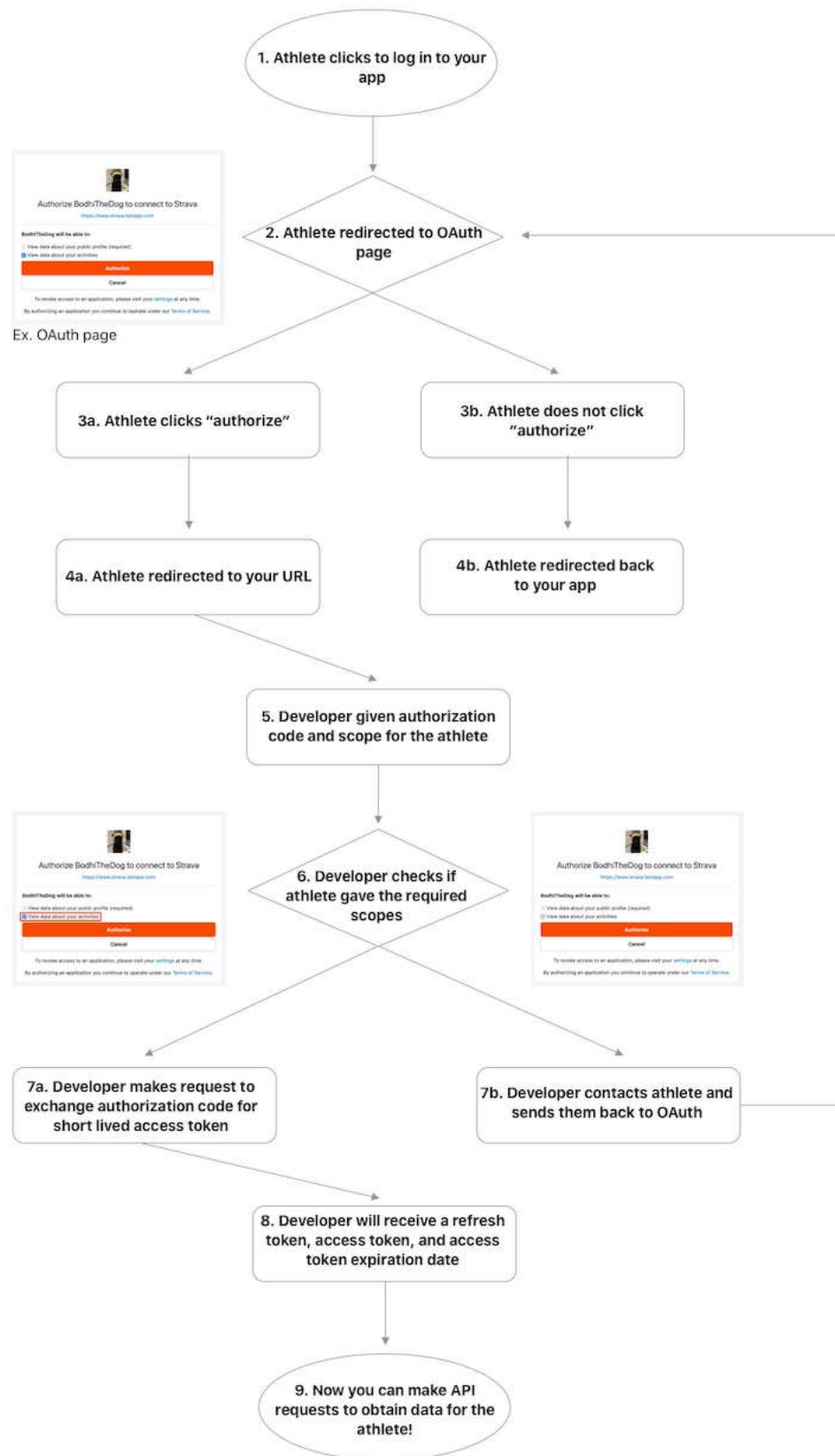


When OAuth is initiated, the athlete is prompted by the application to log in to the Strava website and give consent to the requesting application. This is what your athlete will see:



After the athlete accepts or rejects the authorization request, Strava redirects the athlete to a URL specified by the application. If the athlete authorized the application, the URL query string will include an authorization code and the scope accepted by the athlete. Please check to see that the athlete has accepted all of your scopes. The application must complete the authentication process by exchanging the authorization code for a refresh token and short-lived access token.

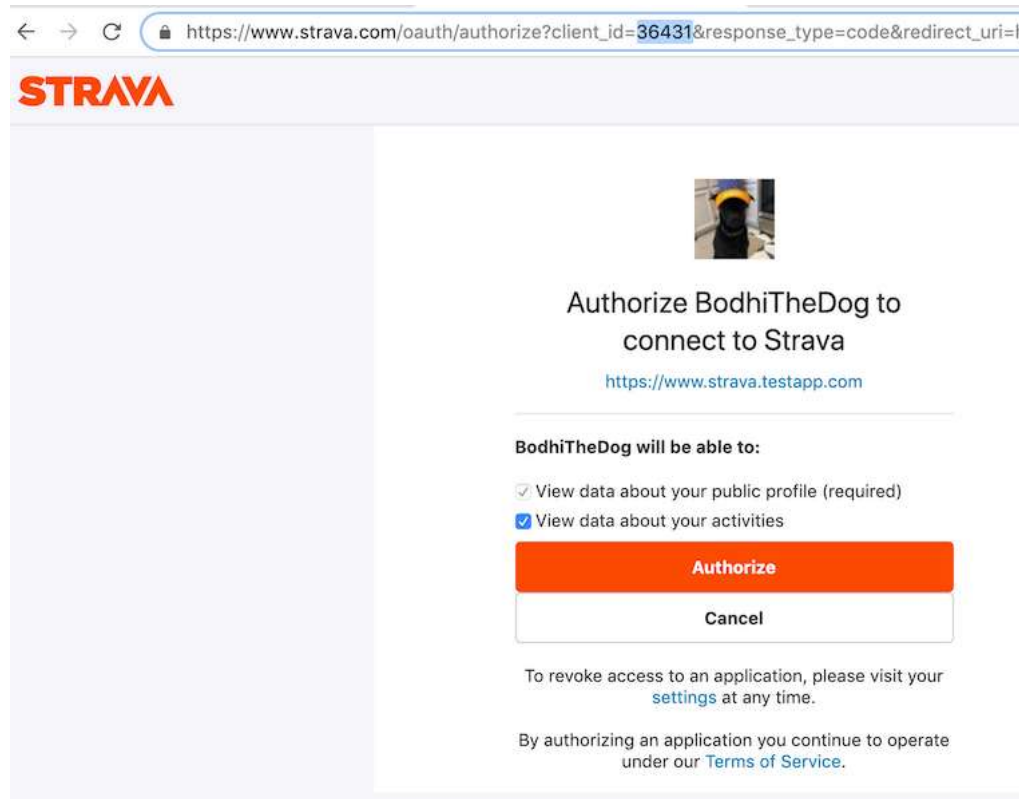
Confused? Here is a Graph:



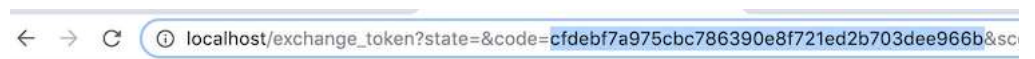
For demonstration purposes only, here is how to reproduce the graph above with cURL:

1. Go to <https://www.strava.com/settings/api> and copy your Client ID
2. Paste your Client ID into this URL:  
`http://www.strava.com/oauth/authorize?client_id=[REPLACE_WITH_YOUR_CLIENT_ID]&response_type=code&redirect_uri=http://localhost/exchange_token`
3. Go to a browser

4. Paste the URL you edited into the browser window (step 1 and 2 from the graph)
5. Hit enter
6. When you see the authorization page, click "Authorize" (step 3a from the graph)



7. After you click "Authorize," you should see something like, "this site can't be reached"
8. Stay on that page and look at the URL
9. The URL will show the authorization code and scope accepted by the athlete (step 5 from the graph)



## This site can't be reached

localhost refused to connect.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

ERR\_CONNECTION\_REFUSED

Details

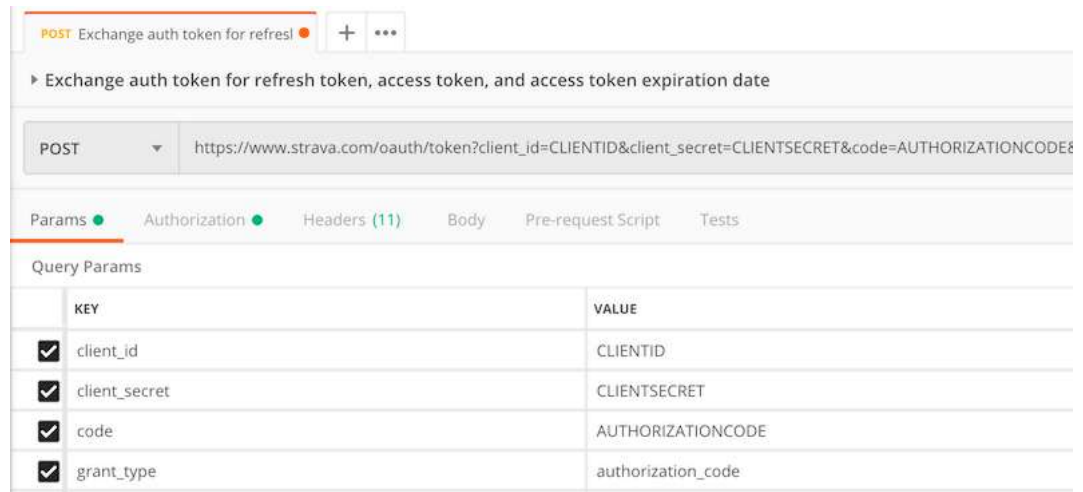
10. Copy the authorization code

11. Make a cURL request to exchange the authorization code and scope for a refresh token, access token, and access token expiration date (step 7a from the graph). Replace the client\_secret and code. The response should include the refresh token, access token, and access token expiration date (step 8 from the graph).

Sample cURL request:

```
curl -X POST https://www.strava.com/oauth/token \
-F client_id=YOURCLIENTID \
-F client_secret=YOURCLIENTSECRET \
-F code=AUTHORIZATIONCODE \
-F grant_type=authorization_code
```

If you are using [Postman](#), here is a sample request:



Sample response:

```
{
  "token_type": "Bearer",
  "expires_at": 1562908002,
  "expires_in": 21600,
  "refresh_token": "REFRESHTOKEN",
  "access_token": "ACCESSTOKEN",
  "athlete": {
    "id": 123456,
    "username": "MeowTheCat",
    "resource_state": 2,
    "firstname": "Meow",
    "lastname": "TheCat",
    "city": "",
    "state": "",
    "country": null,
    ...
  }
}
```

For more information on authentication, click [here](#).

## E. How to Use the Swagger Playground

1. The Swagger Playground is the easiest way to familiarize yourself with the Strava API by submitting HTTP requests and observing the responses before you write any client code. It will show what a response will look like with different endpoints depending on the authorization scope you receive from your athletes. To use the Playground, you will have to change your "Authorization Callback Domain" to



developers.strava.com.

## Update Application

[Remove](#)

**App Icon**  
Min Size  
124 x 124 px

The information below is displayed on your [OAuth Authorization page](#).

**Application Name****Category****Club****Website****Application Description****Authorization Callback Domain**

2. Go to the Playground, <https://developers.strava.com/playground>, and click the green "Authorize" button on the right.
3. You will use your Client ID and Client Secret from <https://www.strava.com/settings/api>.

### Available authorizations

Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes. API requires the following scopes. Select which ones you want to grant to Swagger UI.

#### OAuth2.0

Authorization URL: <https://www.strava.com/api/v3/oauth/authorize>  
Token URL: <https://www.strava.com/api/v3/oauth/token>  
Flow: `accessCode`

**client\_id:**

**client\_secret:**

**Scopes:**

☒ `read`  
*Read public segments, public routes, public profile data, public posts, public events, club feeds, and leaderboards*

☐ `read_all`  
*Read private routes, private segments, and private events for the user*

☐ `profile:read_all`

- Per our API terms, you need to implement webhooks to know when an athlete has deauthorized your API application
  - To avoid hitting rate limits
    - Instead of polling to see if athletes have new activities, you can subscribe to activity updates
  - To know if activities have changed from public to private
  - To subscribe to webhooks, please follow the instructions [here](#)
- 

## G. How to Get Support

### **Before emailing, please check our documentation first:**

- Authentication: <https://developers.strava.com/docs/authentication>
- Webhooks: <https://developers.strava.com/docs/webhooks>
- API docs: <https://developers.strava.com/docs/reference>
- Basic info: <https://developers.strava.com/docs>

If you have questions, please check our [developer community hub](#).

Remember, **never** share access tokens, refresh tokens, authorization codes, or your client secret in a public forum.