



## Getting Started

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## Apps

As a partner developing an integration using Segment's Config API, everything starts from an **App**. An App behaves like a standard OAuth client, but adds granular permissions. When a user installs your App through the familiar OAuth flow, Segment requires the user to grant access to a specific workspace and source. The user must also be a Workspace Owner of the authorized workspace.

As a destination partner, you may only manage your own destination on the workspace and source authorized by the user.

## App installs

Segment Workspace Owners authorize your App on their workspace using a web-based authorization flow, exactly like OAuth. When authorized, Segment creates an **App Install** on the workspace.

Therefore, the token returned by Segment isn't tied to a user – it's tied to an App Install.

## Set up guide

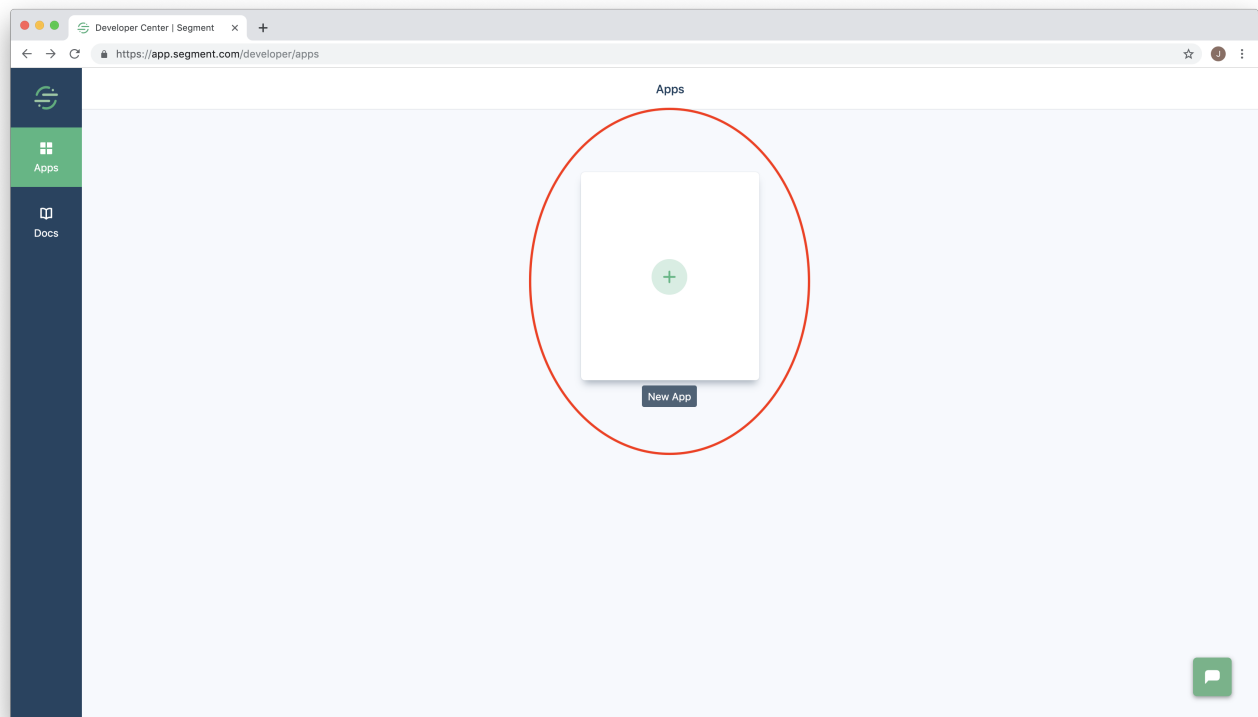
There are three steps to implement an “Enable with Segment” OAuth flow:

1. Create an App through Segment’s Developer Center.
2. Set up an OAuth consumer that will participate in your Segment App’s OAuth handshake.
3. Run your OAuth consumer, and verify that you can access resources – for example, enable, configure, disable, and monitor your destination – on a user’s behalf.

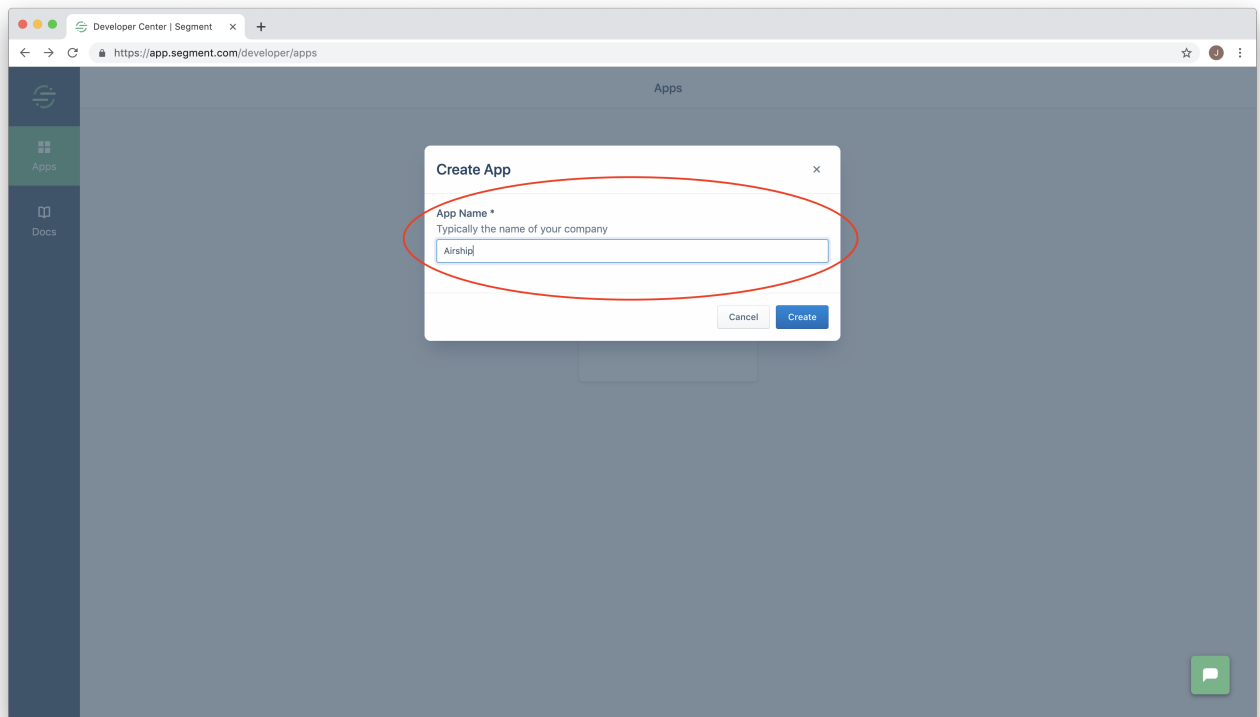
## 1. Create an App through Segment’s Developer Center

Go to the [Segment Developer Center](https://app.segment.com/developer/apps).

Click **New App** to navigate to the App creation page:

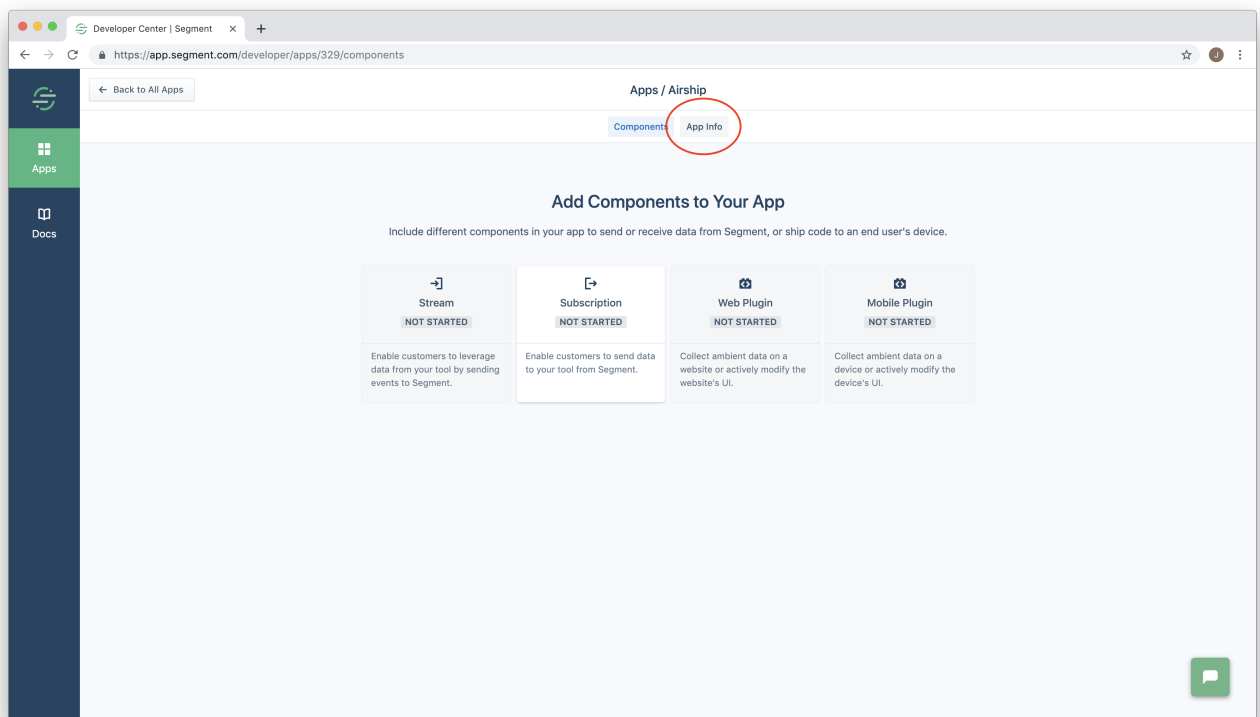


Name your App, and click **Create**.

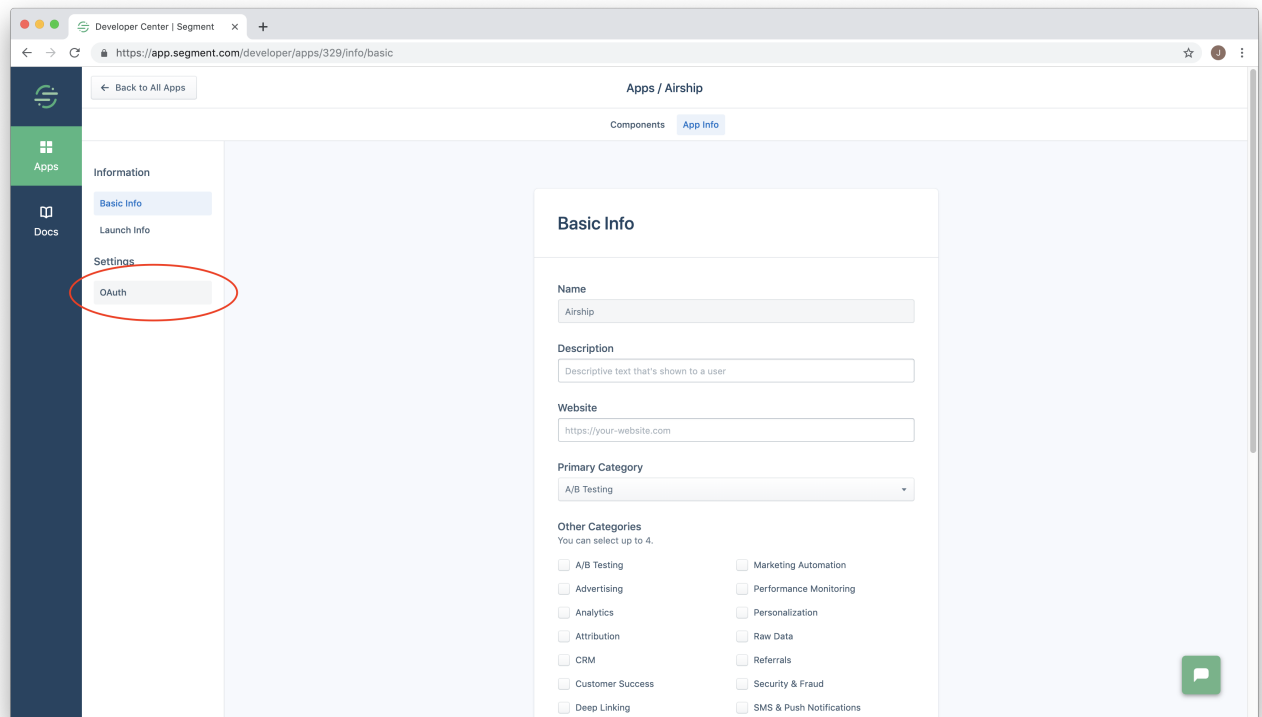


You'll be redirected to your App's main page. If you are implementing Enable with OAuth for an integration not built using the Developer Center and encounter an issue where your integration's name is already taken, you may choose another name (for example, TOOLNAME-enable). You will have the option to connect the two by selecting a scope in Step #2.

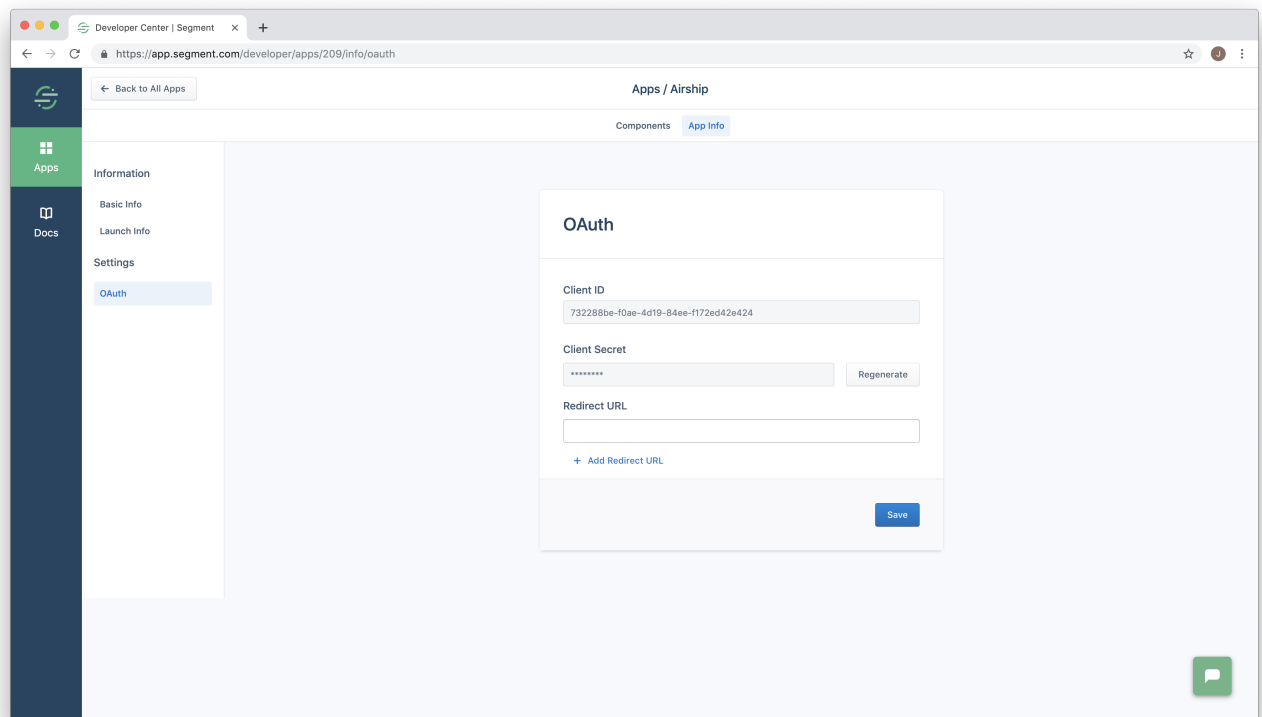
4. Click the App Info tab.



5. From the App Info tab, click OAuth in the left side navigation.



Keep your Developer Center browser window open – Segment needs the OAuth credentials on this page to set up an OAuth consumer.



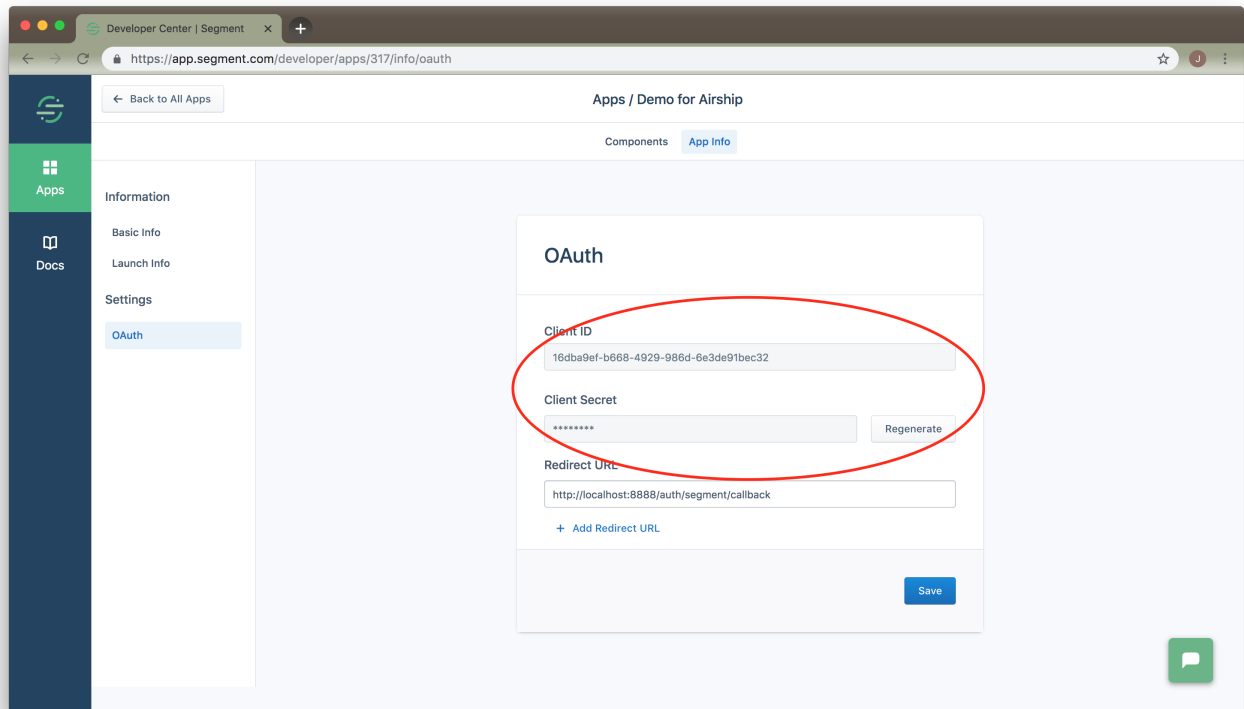
## 2. Set up an OAuth consumer

For this step, reference Segment's example OAuth consumer at <https://github.com/segmentio/partnerapp>. You should adapt Segment's example to your own infrastructure.

Clone Segment's partnerapp repo:

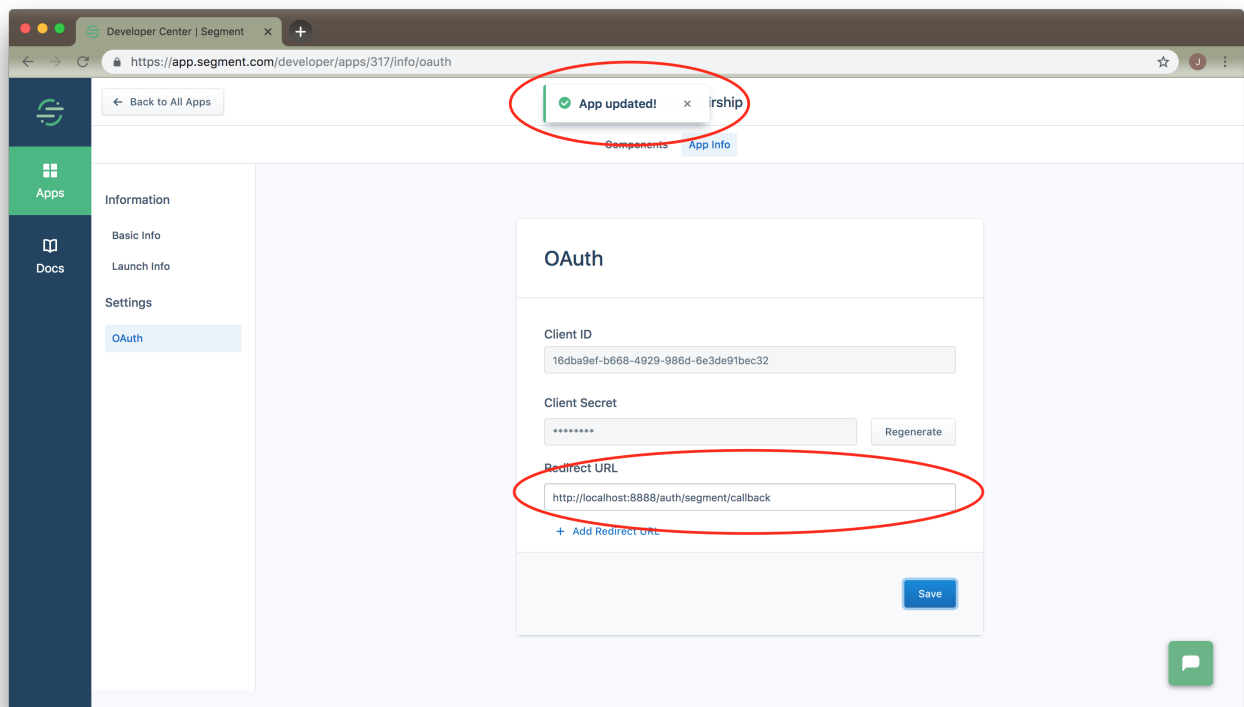
```
git clone https://github.com/segmentio/partnerapp
```

2 Back in your Developer Center browser window, copy the Client ID and Client Secret fields, and paste them into an `.env` file in the root of your `partnerapp` directory:



```
echo CLIENT_ID=d1ce4e85-XXXX-XXXX-XXXX-XXXXXXXXXXXX > .env  
echo CLIENT_SECRET=YvpqeXXXXXXX >> .env
```

3 Add `http://localhost:8888/auth/segment/callback` to the list of redirect URLs, and click **Save**.

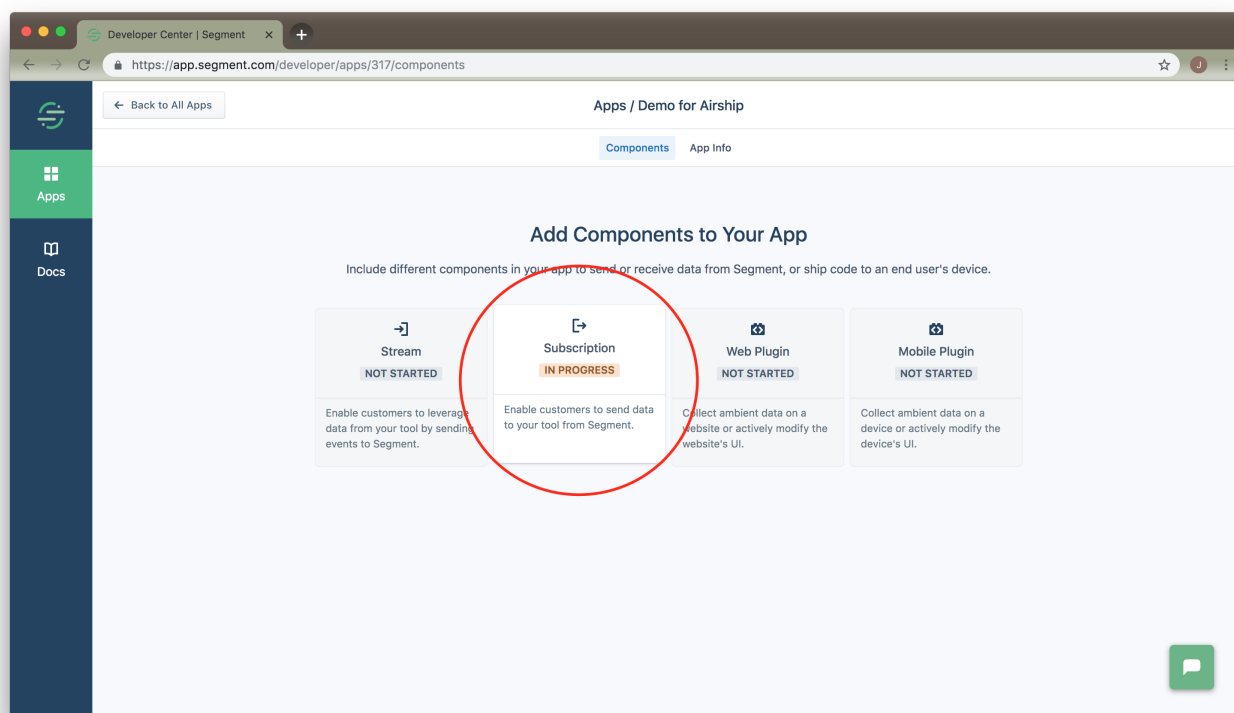


You **must** specify `http://localhost:8888/auth/segment/callback` in the Developer Center list of redirect URLs. The redirect URLs serve as a whitelist. Without the whitelisted URL, the OAuth flow in the `partnerapp` won't work.

4. Optionally set a new scope. The options, from most to least restrictive are:

- `destination/<SLUG>` (e.g. `destination/airship`) – create or update a single destination type on a single source a user consents to. This allows you to manage a secret like `apiKey` on your company's destination automatically but nothing else. Note that you may need to update the scope to the right destination slug if your app name differs.
- `workspace:read` – read-only access to all the settings and metadata on a single workspace a user consents to. This allows you to build integrations like a dashboard that gets and displays a workspace event delivery metrics
- `workspace` – full access to all the settings on a single workspace a user consents to. This allows you to build deep integrations that create sources, destinations, and more.

5. Finally, create a component of your choice in Developer Center.



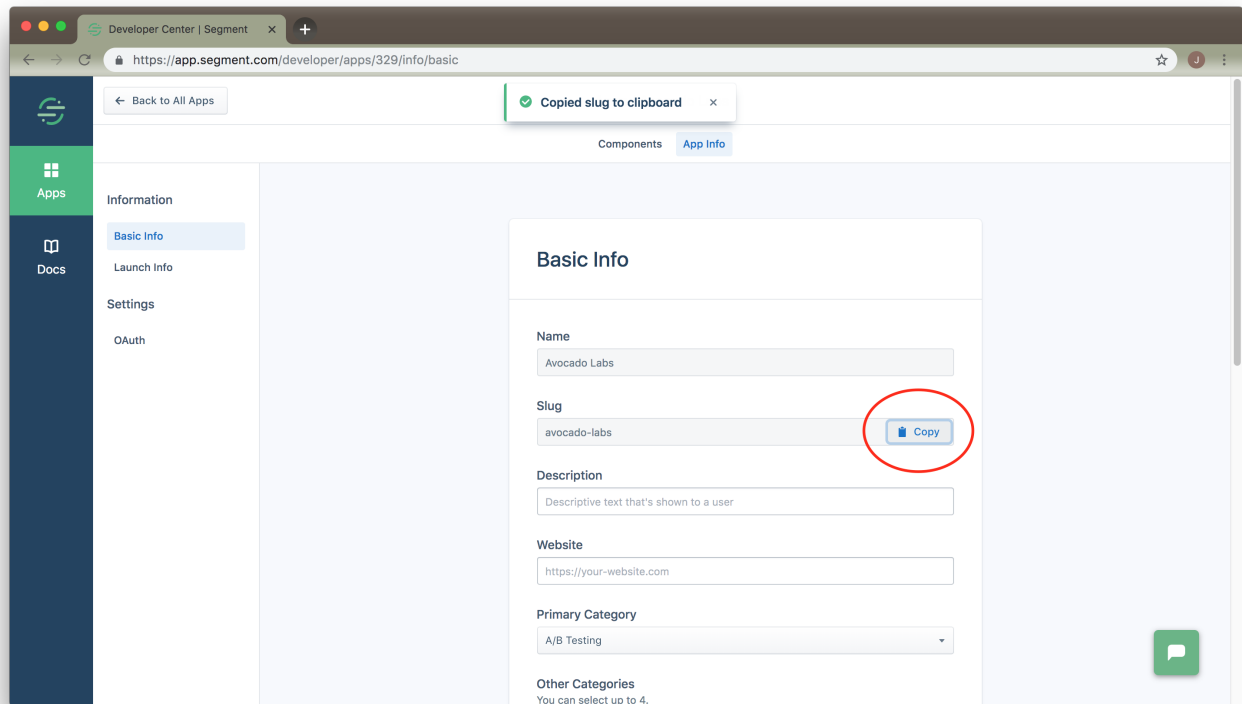
You generally will create a component and build a flow to create an Install of your app. However you can also build a flow to create an install of an existing destination by changing the OAuth scope.

### 3. Run through an example OAuth flow

For this step, reference Segment's example OAuth consumer at <https://github.com/segmentio/partnerapp>. You should adapt Segment's example to your own infrastructure.

1. Back in the root directory of your `partnerapp` clone, update the following two pieces of configuration in `index.js`:

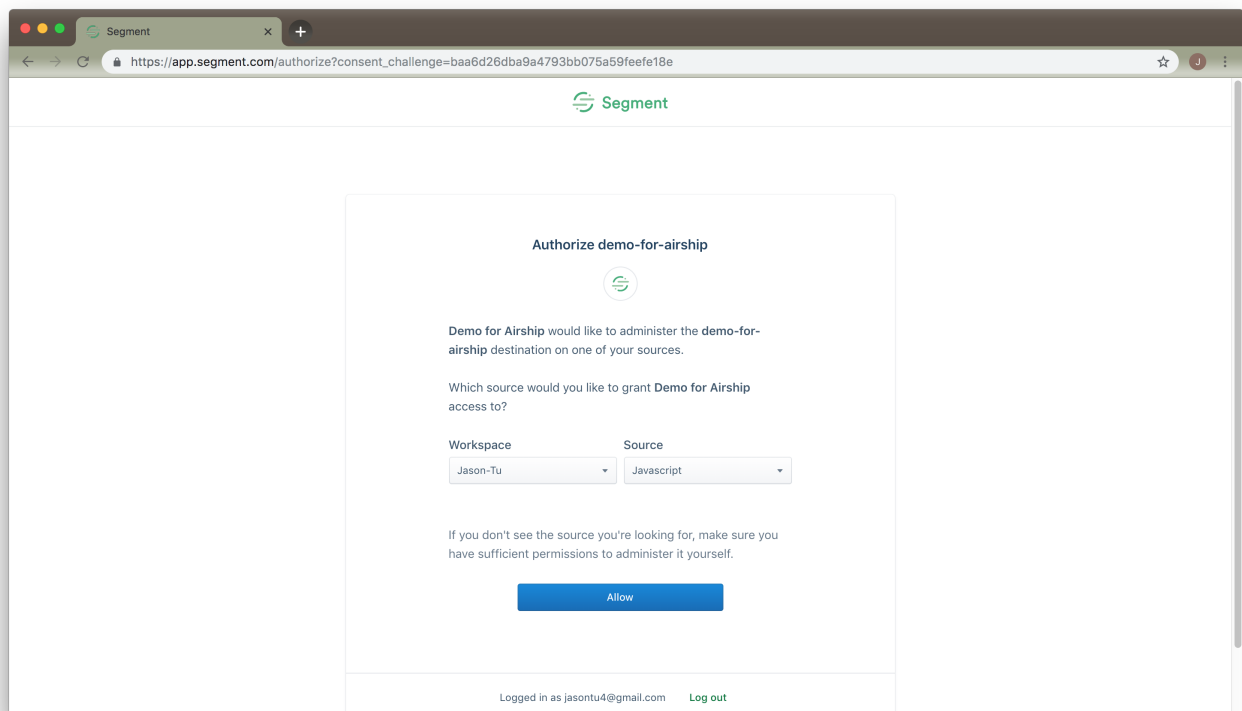
```
// Change this to the slug of the destination you are trying to manage for the user.  
// You can find the slug of your destination by going to your App's "App Info" page,  
// located at https://app.segment.com/developer/apps/123/info/basic.  
const dest = 'test-destination'  
  
// Change this to the API key provisioned for the user in your system.  
const destAPIKey = 'abcd1234'
```



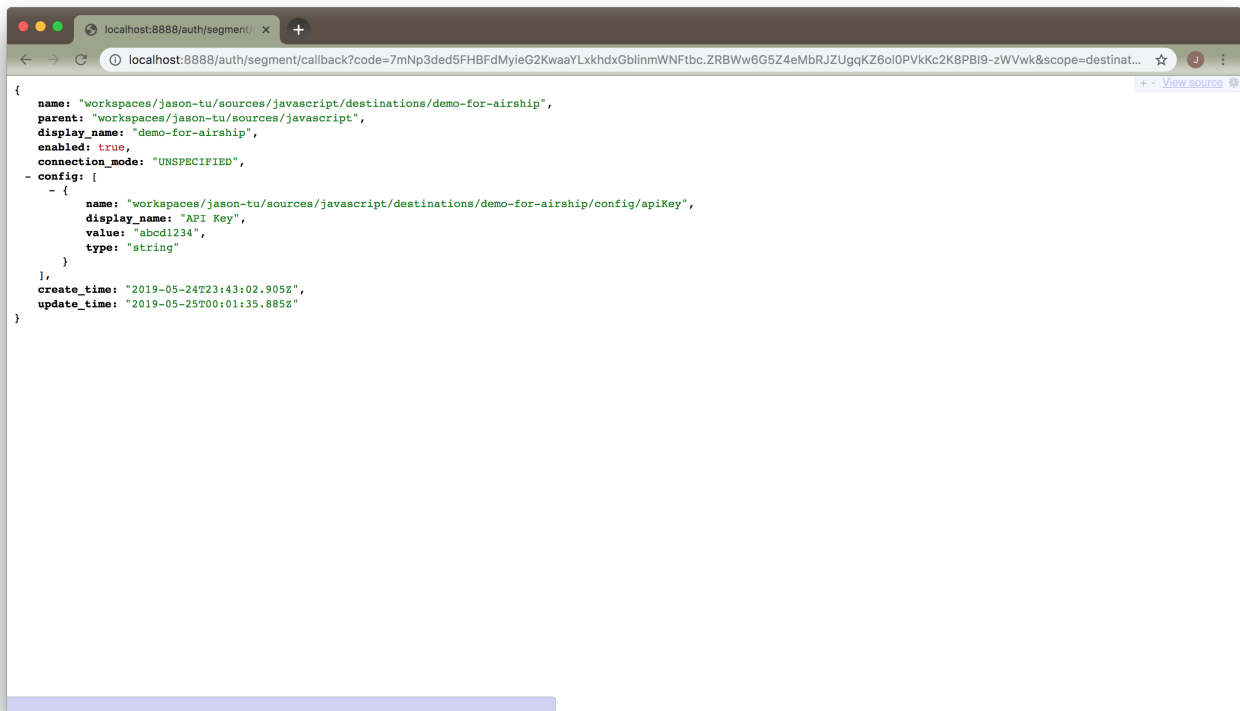
Run `node index.js`, and navigate to `http://localhost:8888/auth/segment` in a *new* browser window:

```
node index.js
```

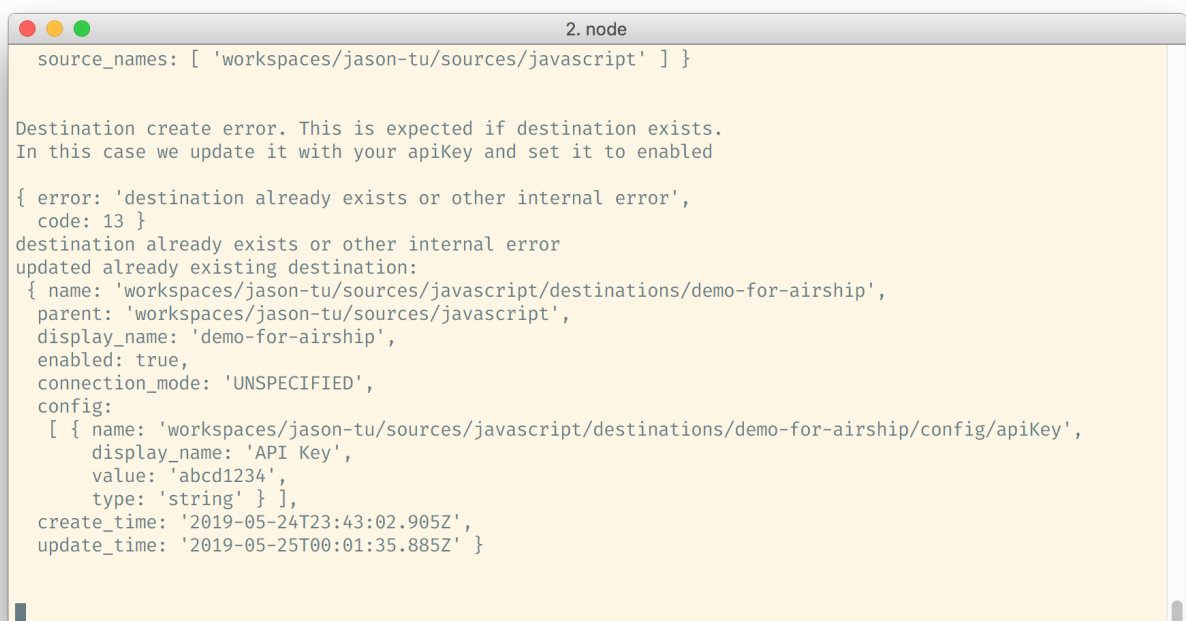
Navigate through Segment's login and authorize OAuth flows:



Look for a JSON response in your browser window, and output in the terminal running `partnerapp`:



```
{
  name: "workspaces/jason-tu/sources/javascript/destinations/demo-for-airship",
  parent: "workspaces/jason-tu/sources/javascript",
  display_name: "demo-for-airship",
  enabled: true,
  connection_mode: "UNSPECIFIED",
  config: [
    {
      name: "workspaces/jason-tu/sources/javascript/destinations/demo-for-airship/config/apiKey",
      display_name: "API Key",
      value: "abcd1234",
      type: "string"
    }
  ],
  create_time: "2019-05-24T23:43:02.905Z",
  update_time: "2019-05-25T00:01:35.885Z"
}
```



```
2. node
source_names: [ 'workspaces/jason-tu/sources/javascript' ] }

Destination create error. This is expected if destination exists.
In this case we update it with your apiKey and set it to enabled

{ error: 'destination already exists or other internal error',
  code: 13 }
destination already exists or other internal error
updated already existing destination:
{ name: 'workspaces/jason-tu/sources/javascript/destinations/demo-for-airship',
  parent: 'workspaces/jason-tu/sources/javascript',
  display_name: 'demo-for-airship',
  enabled: true,
  connection_mode: 'UNSPECIFIED',
  config:
    [ { name: 'workspaces/jason-tu/sources/javascript/destinations/demo-for-airship/config/apiKey',
        display_name: 'API Key',
        value: 'abcd1234',
        type: 'string' } ],
  create_time: '2019-05-24T23:43:02.905Z',
  update_time: '2019-05-25T00:01:35.885Z' }
```

## OAuth implementation

If you use a standard OAuth library in your programming language, all of this is done for you as shown in the [setup guide](#). These steps are just for illustration.

When the user wants to authenticate, you redirect them to

`https://id.segmentapis.com/oauth2/auth?response_type=code&scope=workspace:read&client_id=...`

**Note:** Segment only accepts `response_type=code` here. That means Segment returns an `auth_code` that your library exchanges for an install token in Step 5 below.



1. the user is logged out, Segment redirects to <https://app.segment.com/login>
2. the user is logged in, Segment redirects to <https://app.segment.com/authorize>
3. user consents, Segment redirects with a code to your `redirect_uri` <http://localhost:8888/auth/segment/callback>. This app listens for this request and runs step #5 below.
4. You exchange the code for an install token from <https://id.segmentapis.com/oauth2/token>. The body of this POST request should include the code you received and your `redirect_uri`. Include your client secret and client id in a basic authorization header.
5. You save the access token, install name, workspace name and source name for the user.

At the end of a successful flow you get an "Install Token". If you passed in the scope as `destination/clearbrain` the user is prompted to select a source on which to install your Enable With Segment App, and that source is returned to you as well.

```
{
  access_token: 'YL8a0w-Boz1EgZgmD2ELZvsxakjqSMw08xe7tV-ToSk.nKaLX2QHocqalHR304BdoYdcopk3hjW4izYHMG14cxQ',
  token_type: 'bearer',
  expires_in: 3599,
  scope: 'workspace',
  app_name: 'apps/2',
  install_name: 'installs/7',
  workspace_names: [ 'workspaces/userworkspace' ]
  source_names: [ 'workspaces/userworkspace/sources/javascript' ]
}
```

You can then perform API operations as the installed app on behalf a user.

With the `destination/clearbrain` scope you can only change the destination specified (`clearbrain` in this case) on the user selected source. This is the recommended scope for apps trying to control just one destination for a user (Enable With Segment functionality). These apps can only access the Destinations API. You can find a detailed reference here: <https://reference.segmentapis.com/>Destinations>

You can GET a destination if it exists (and you have access to the user workspace and source) as shown below. You can also Create, Update, or Delete it too.

```
$ INSTALL_TOKEN=YL8a0w-Boz1EgZgmD2ELZvsxakjqSMw08xe7tV-ToSk.nKaLX2QHocqalHR304BdoYdcopk3hjW4izYHMG14cxQ
$ curl \
  -H "Authorization: Bearer $INSTALL_TOKEN" \
  https://platform.segmentapis.com/v1beta/workspaces/business/sources/js/destinations/clearbrain \
```

```
{
  "name": "workspaces/business/sources/js/destinations/clearbrain",
  "parent": "workspaces/business/sources/js",
  "display_name": "ClearBrain",
  "enabled": true,
  "connection_mode": "UNSPECIFIED",
  "config": [
    {
      "name": "workspaces/business/sources/js/destinations/clearbrain/config/apiKey",
      "display_name": "API Key",
      "value": "abcd1234",
      "type": "string"
    }
  ],
  ...
}
```

You can refresh the token with the installation token API. The token expires in an hour, so do this periodically.

```
$ INSTALL_NAME=installs/7
$ curl \
  -u "$CLIENT_ID:$CLIENT_SECRET" \
  https://platform.segmentapis.com/v1beta/$INSTALL_NAME/token
```

```
{
  "access_token": "4d9ee1b5-b752-4f7f-86d9-5680df6f8ce8",
  "token_type": "bearer",
  "expires_in": 3600,
  "scope": "workspace",
  "app_name": "apps/myapp",
  "install_name": "install/10",
  "workspace_names": ["workspaces/userworkspace"]
}
```

## Advanced use cases

Developer Center Destinations must use their specific destination scope for their enable flows. More permissive apps are subject to revocation unless specifically approved. If you've been approved, however, this section may apply.

If you created an App with a more permissive scope, you have access to more APIs:

- With the `workspace` scope you can change all resources
- With the `workspace:read` you can read all resources, but not change them

A full list of APIs are here: <https://segment.com/docs/api/config-api/>

The example below shows how you would get a users workspace if you had any of the above scopes:

```
$ INSTALL_TOKEN=YL8a0w-Boz1EgZgmD2ELZvsxakjq$Mw08xe7tV-ToSk.nKaLX2QHocqa1HR304BdoYdcopk3hJw4izYHMG14cxQ
$ curl \
-H "Authorization: Bearer $INSTALL_TOKEN" \
https://platform.segmentapis.com/v1beta/workspaces
```

```
{
  "name": "workspaces/userworkspace",
  "display_name": "Business",
  "id": "bb296fce9c",
  "create_time": "2012-08-12T15:40:04.406Z"
}
```

If you created the app with any of these scopes, and then updated the scope in `index.js` at the top to match it, you can uncomment the lines around `sourceList` in `index.js` to see an example of how you could list all sources on the users workspace.

## FAQs

### What should the exact destination slug word be?

There are references above for `destination/<slug>`, but what should the `<slug>` be? The "slug" is the destination that you want to manage for the user. To see the exact slug we are expecting for your destination:

- If you just submitted a destination in the Developer Center for approval, you can see the slug on the submission form, or in the URL once submitted.
- If your destination is already public, look at the Segment Catalog and find your destination. That exact slug should appear in the URL. So it would be `clearbrain` for this destination  
`/docs/connections/destinations/catalog/clearbrain/`

### What should the exact `create` body be to enable my destination?

The `create` body has three fields:

- full path to the `apiKey` (which includes the users workspace and source, see below)
- the actual `apiKey` provisioned for the user in your system. It's in the "value" field
- `enabled: true`.

The body is in this format:

```
curl -X POST \
-H "Authorization: Bearer $TOKEN" \
-d '{
  "destination": {
    "name": "workspaces/userWorkspaceSlug/sources/userSourceSlug/destinations/clearbrain",
    "connection_mode": "CLOUD",
    "config": [
      {
        "name": "workspaces/userWorkspaceSlug/sources/userSourceSlug/destinations/clearbrain/config/apiKey",
        "display_name": "API Key",
        "value": "abcd123"
      }
    ],
    "enabled": true
  }
}'
https://platform.segmentapis.com/v1beta/workspaces/userworkspace/sources/js/destinations \
```

### Why can't I list all of the destinations on the source?

If you created the app with the `destination/<slug>` scope, you can only access that one destination on the source. You cannot list all destinations using this scope.

### How do I create or update a destination that requires more configuration than just a API Key?

GET the destination settings using Segment's catalog API first. This shows all of the fields the destination supports. You can then substitute the field values for the ones you need to specify.

Using this body, craft a CREATE request and substitute the appropriate field values. Check out [https://reference.segmentapis.com/ > Destination > CREATE](https://reference.segmentapis.com/>Destination>CREATE) request for an example

### What type of OAuth grant do you support?

We support the "authorization code" grant type. That means you exchange the `auth_code` returned during the install flow to get the actual access token. <https://www.oauth.com/oauth2-servers/access-tokens/authorization-code-request/>

The library you use in your programming language should do this automatically for you.

### What scopes do you support?

We support `destination/<slug>`, `workspace` and `workspace:read`. You set these scopes during app creation and when you start the install flow. You must use the same scope in both places, otherwise you get an invalid scope error when you start the error.

### What is the fastest way to get started? Do I have to learn OAuth to make an app?

Run the partner app (you're looking at it!) so you can see all the steps involved in setting up your app, installing it and then accessing resources.

You don't need to learn OAuth! If you use the standard OAuth implementation in your programming language, like we do in the partner app, all this complexity should be hidden from you.

### During OAuth code exchange I get a "missing a required parameter" error

Your `redirect_uri` probably doesn't match what you set in the App Create Request.

### How many redirect\_uris can I have? Can I add more after the app is created?

You can have five `redirect_uris` on app creation. Editing the app info directly is not supported at this time. [contact Segment](#) if you want any of your `redirect_uris` or other info changed.

In the future we will allow you to update this information on your own.

### **I am getting “malformed token” when I try to access the API. What is wrong?**

Tokens expire every hour, so your token might have expired. To get a new access\_token, hit the refresh endpoint. Make sure you pass in the correct install\_name, client\_id, and client\_secret in that request.

You might not have permissions for the action you’re trying to take. You can only write to a resource when you have workspace:read permission. If you need write access, then create a new app with workspace permission and then re-install it.

### **Do you send CSRF state back when you redirect?**

Yes. If you set the state=123 parameter in your initial request, Segment sends it back to you.

### **Do we still have to send the redirect\_uri in the oauth2/token request?**

Yes. This conforms to the OAuth spec, and is done for security purposes.

### **I am getting install already exists error**

You already installed the app on this workspace, so you can’t install it again. You can use your current access\_token to simply access resources on this workspace.

When the app was installed, you should have received a Segment workspace and install\_name so you can store it in your own db along with the user’s info. If the user tries to install this app again, you can check your db and see that they already installed your app, and can skip the install flow.

### **OK I managed to create an App. How do I use your APIs?**

See [the API docs](#).

This page was last modified: 20 May 2024

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