## LESSON 2

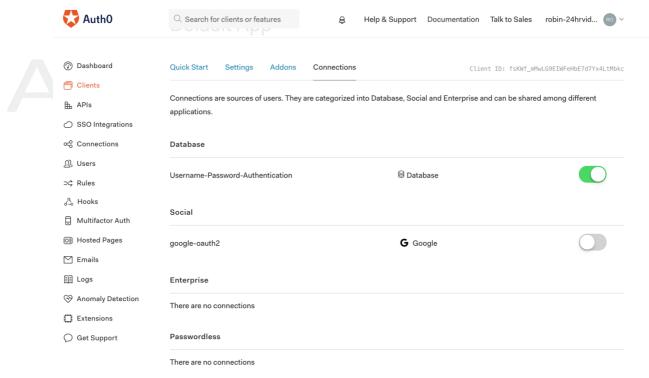
In this lesson, we'll create a website for our video hosting platform. We'll integrate the website with Auth0, as the means of authenticating users.

In true serverless style, this will be a static website, meaning that it can be hosted on S3, or any CDN. It is comprised entirely of static HTML, JS, and CSS and does not need to be served by a traditional web server.

### 1. CREATE AUTHO ACCOUNT

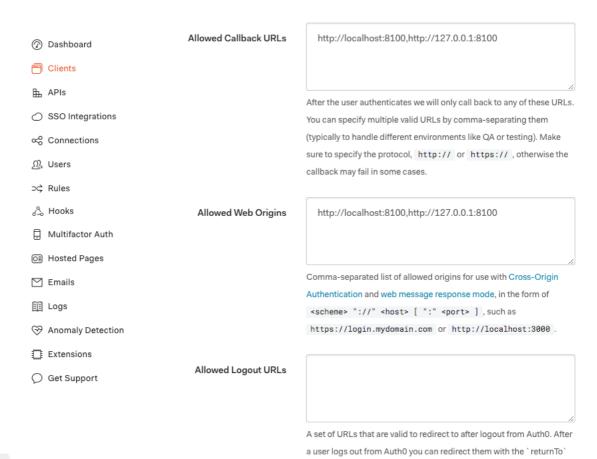
You'll need to create a free auth0 account. Visit https://auth0.com and follow the sign up steps.

- You'll be asked to enter a tenant domain. Enter a name that is unique to you,
   e.g. janesmith-24hrvideo.auth0.com
- Enter "US" as your region.
- Click **Next** and fill out the information on the next page.
- Click Create Account.
- Go to Clients in the left navigation menu, and click on the Default App.
- Go to Connections in the Default App menu, and make sure that only Username-Password-Authentication is enabled.



- Go to Settings in the Default App menu.
- Scroll down until you find the textbox called **Allowed Callback URLs**.

  Enter the following value in the textbox: http://localhost:8100,http://127.0.0.1:8100
- Enter the same value into the following fields: Allowed Web Origins, Allowed Origins (CORS)



Allowed Origins (CORS)

http://localhost:8100,http://127.0.0.1:8100

at https://auth0.com/docs/logout

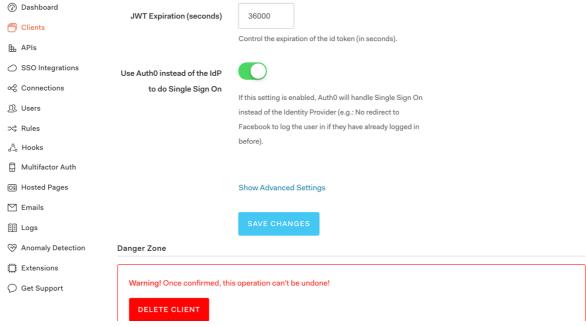
query parameter. The URL that you use in `returnTo` must be listed here. You can specify multiple valid URLs by comma-separating them.

('\*.google.com'). Notice that querystrings and hash information are not taking into account when validating these URLs. Read more about this

You can use the star symbol as a wildcard for subdomains

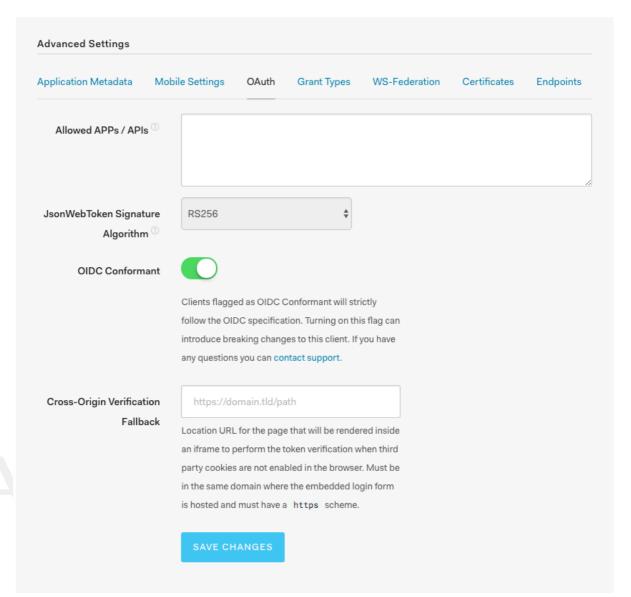
Allowed Origins are URLs that will be allowed to make requests from JavaScript to Auth0 API (typically used with CORS). By default, all your callback URLs will be allowed. This field allows you to enter other origins if you need to. You can specify multiple valid URLs by commaseparating them or one by line, and also use wildcards at the subdomain level (e.g.: https://\*.contoso.com). Notice that querystrings and hash information are not taking into account when validating these URLs.

• Scroll down to the bottom, and click the **Show Advanced Settings** link.

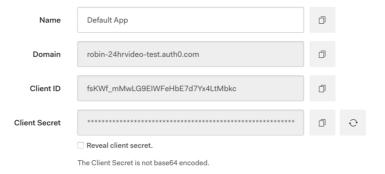


- Under Advanced Settings, choose the OAuth menu, and ensure JsonWebToken Signature Algorithm is set to RS256.
- In the same section, make sure the **OIDC Conformant** option is green.

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- Scroll down and click the Save Changes button.
- We now need to retrieve some values from Auth0 that will be needed throughout this workshop.
   Scroll up to the top of the same Settings page, and find the Domain, Client ID and Client Secret. Copy these into your favourite text editor so you have them at the ready.



#### 2. SETUP WEBSITE LOCALLY

This web site would normally be deployed via a CDN, but for the purposes of this workshop we're going to host it locally on your computer.

• Edit the following file in your favourite text editor:

```
lab-2/website/js/config.js
```

Enter your **auth0 domain** and **client ID**, in quotes (you made a note of these in the last step), and save the file.

```
config.js

var configConstants = {
   auth0: {
        domain: 'YOUR-DOMAIN-FROM-AUTH0-SETTINGS-HERE',
        clientId: 'YOUR-CLIENT-ID-FROM-AUTH0-SETTINGS-HERE'
   }
};
```

• Open a terminal / command-prompt and navigate to the following folder:

lab-2/website

• Run the following command, to bring down dependencies from npm (this may take a few minutes):

npm install

• Run the following command, to start a local web server at port 8100:

npm start

#### 3. GIVE IT A SPIN!

• Open a web browser and navigate to:

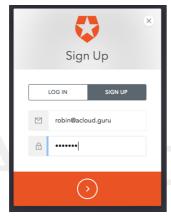
http://localhost:8100

You should see the 24 hour video web site. There's not much here yet... that's OK! We're going to iteratively build the site during the workshop.

- Notice the Sign In button in the top-right? Click on it to launch the authentication popup:
   This popup is rendered entirely by Auth0 a huge timesaver if you need authentication in your platform!
- You'll need to create an account, so click on the **Sign Up** tab:

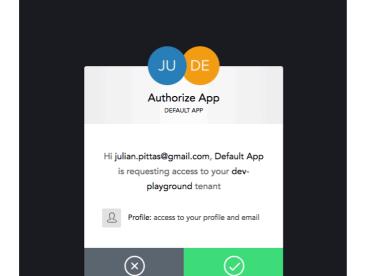


• Enter an email address and password for your new account. This will be saved to your custom AuthO database of users. **Remember this password**, because you'll need to sign in/out multiple times throughout this workshop



the sign up.

Click the big orange button at the bottom to create your account. A popup will launch to complete



•

- Click on the green tick
   Did you receive an error? Make sure you Always Allow Popups for this site.
- You'll be automatically signed in after your account is created. Look in the top right-hand corner of the web-site. You should see your name & a profile image / avatar (auth0 will use gravatar.com to find an image for your email address), plus a **Sign Out** button.
- When you're done with this lab, exit the "npm start" command in your terminal by pressing **<Control>-c**.

Congratulations - you now have a serverless web site with full user sign-up and authentication capabilities!

## **Get Your Hands Dirty**

- Now use Auth0 to hookup a 3<sup>rd</sup> party social provider, such as Facebook or Twitter. Note: You will need to create an app with each provider that you hookup. Auth0's website has instructions.
- Auth0 supports running node.js rules on each user login. Add a rule to:
  - o Force email verification (there is a pre-built Auth0 rule for this)
  - Only allow users from a specific white-list
- Auth0 supports the creation of delegation tokens to grant user's direct access inside your AWS
  account via IAM. It's worth understanding that this is possible and how it works. Read through the
  Auth0 documentation on this approach, and if you are game setup your web site to get an AWS
  delegation token.

https://auth0.com/docs/integrations/aws