

Did it help? Yes / No

Install auth0.js

You need the auth 0. js library to integrate Auth 0 into your application.

Install auth0.js using npm or yarn.

installation with npm
npm install --save auth0-js

installation with yarn

yarn add auth0-js

Did it help? Yes / No

Dashboard

Once you install auth0.js, add it to your build system or bring it in to your project with a script tag.

Applications

APIs

<script type="text/javascript" src="node_modules/auth0-js/build/auth0.js"></script>

SSO Integrations

Did it help? Yes / No

Connections

Users

If you do not want to use a package manager, you can retrieve auth0.js from Auth0's CDN.

<script src="https://cdn.auth0.com/js/auth0/9.5.1/auth0.min.js"></script>

Rules

Hooks

Multifactor Auth

Did it help? Yes / No

Hosted Pages

Emails

Logs

Analytics

Anomaly Detection

Extensions

Get support

Add Authentication with Auth0

Universal login is the easiest way to set up authentication in your application. We recommend using it for the best experience, best security and the fullest array of features. This guide will use it to provide a way for your users to log in to your React application.



You can also embed the login dialog directly in your application using the <u>Lock widget</u>. If you use this method, some features, such as single sign-on, will not be accessible. To learn how to embed the Lock widget in your application, follow the Embedded Login sample.

When a user logs in, Auth0 returns three items:

- access_token : to learn more, see the Access Token documentation
- id_token : to learn more, see the ID Token documentation
- expires_in : the number of seconds before the Access Token expires

You can use these items in your application to set up and manage authentication.

Create an Authentication Service

Create a service to manage and coordinate user authentication. You can give the service any name. In the examples below, the service is Auth and the filename is Auth. is .

In the service add an instance of the auth@.WebAuth object. When creating that instance, you can specify the following:

- · Configuration for your application and domain
- Response type, to show that you need a user's Access Token and an ID Token after authentication
- · Audience and scope, which specify that authentication must be OIDC-conformant
- The URL where you want to redirect your users after authentication.

In this tutorial, the route is /callback, which is implemented in the Add a Callback Component step.

Add a login method that calls the authorize method from authO.js.

```
// src/Auth/Auth.js
                          import auth0 from 'auth0-js';
Dashboard
                          export default class Auth {
Applications
                             auth0 = new auth0.WebAuth({
APIs
                              domain: 'artfullylondon.eu.auth0.com',
                               clientID: 'e2f3RlV1TllUyUHKC1YeXAz80LvdIpIb',
SSO Integrations
                               redirectUri: 'http://localhost:3000/callback',
Connections
                               audience: 'https://artfullylondon.eu.auth0.com/userinfo',
                               responseType: 'token id_token',
Users
                               scope: 'openid'
Rules
Hooks
                             login() {
Multifactor Auth
                              this.auth0.authorize();
Hosted Pages
Emails
Logs
```

Did it help? Yes / No

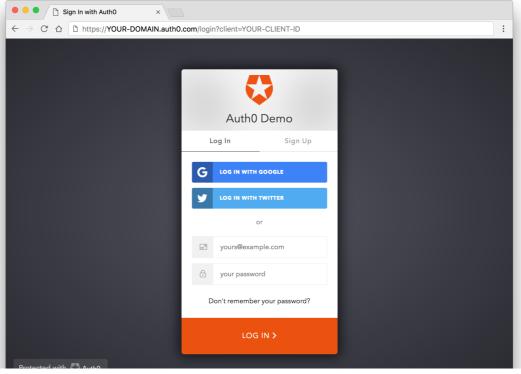
Anomaly Detection

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Get support

Checkpoint Try to import the Auth service from somewhere in your application. Call the login method from the service to see the login page. For example: // App.js import Auth from './Auth/Auth.js'; const auth = new Auth(); auth.login(); Did it help? Yes / No



Dashboard

Applications

Finish the Service

The example below shows the following methods:

parseHash method from authO.js

APIs

Add more methods to the Auth service to handle authentication in the app.

SSO Integrations

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Connections

Users

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Get support

• handleAuthentication: looks for the result of authentication in the URL hash. Then, the result is processed with the

- setSession : sets the user's Access Token, ID Token, and the Access Token's expiry time
- logout: removes the user's tokens and expiry time from browser storage
- isAuthenticated : checks whether the expiry time for the user's Access Token has passed

```
// src/Auth/Auth.js
import history from '../history';
export default class Auth {
  // ...
  constructor() {
    this.login = this.login.bind(this);
   this.logout = this.logout.bind(this);
    this.handleAuthentication = this.handleAuthentication.bind(this);
    this.isAuthenticated = this.isAuthenticated.bind(this);
  handleAuthentication() {
   this.authO.parseHash((err, authResult) => {
      if (authResult && authResult.accessToken && authResult.idToken) {
        this.setSession(authResult);
       history.replace('/home');
      } else if (err) {
       history.replace('/home');
        console.log(err);
  setSession(authResult) {
    // Set the time that the Access Token will expire at
    let expiresAt = JSON.stringify((authResult.expiresIn * 1000) + new Date().getTime());
    localStorage.setItem('access_token', authResult.accessToken);
    localStorage.setItem('id_token', authResult.idToken);
    localStorage.setItem('expires_at', expiresAt);
    // navigate to the home route
   history.replace('/home');
  logout() {
    // Clear Access Token and ID Token from local storage
    localStorage.removeItem('access token');
    localStorage.removeItem('id_token');
    localStorage.removeItem('expires_at');
```

```
// navigate to the home route
                               history.replace('/home');
                             isAuthenticated() {
Dashboard
                               // Check whether the current time is past the
Applications
                               // Access Token's expiry time
                               let expiresAt = JSON.parse(localStorage.getItem('expires_at'));
APIs
                               return new Date().getTime() < expiresAt;</pre>
SSO Integrations
Connections
Users
Rules
Hooks
                           // src/history.js
Multifactor Auth
                           import createHistory from 'history/createBrowserHistory'
Hosted Pages
Emails
                           export default createHistory()
Logs
Anomaly Detection
```

Did it help? Yes / No

Did it help? Yes / No

Analytics Extensions

Provide a Login Control

Get support

Provide a component with controls for the user to log in and log out.

```
// src/App.js
import React, { Component } from 'react';
import { Navbar, Button } from 'react-bootstrap';
import './App.css';
class App extends Component {
  goTo(route) {
    this.props.history.replace(`/${route}`)
  login() {
   this.props.auth.login();
  logout() {
   this.props.auth.logout();
  render() {
   const { isAuthenticated } = this.props.auth;
   return (
       <Navbar fluid>
          <Navbar.Header>
           <Navbar.Brand>
             <a href="#">Auth0 - React</a>
            </Navbar.Brand>
            <Button
              bsStyle="primary"
```

```
onClick={this.goTo.bind(this, 'home')}
                                         Home
                                       </Button>
Dashboard
Applications
                                         !isAuthenticated() && (
                                             <Button
APIs
                                               bsStyle="primary"
SSO Integrations
                                               className="btn-margin"
                                               onClick={this.login.bind(this)}
Connections
Users
                                               Log In
Rules
                                             </Button>
Hooks
Multifactor Auth
Hosted Pages
                                         isAuthenticated() && (
Emails
                                               bsStyle="primary"
Logs
                                               className="btn-margin"
                                               onClick={this.logout.bind(this)}
Anomaly Detection
Analytics
                                               Log Out
Extensions
                                             </Button>
Get support
                                       }
                                     </Navbar.Header>
                                   </Navbar>
                           export default App;
```

classname= ptn-margin

Did it help? Yes / No

This example uses Bootstrap styles. You can use any style library you want, or not use one at all.

Depending on whether the user is authenticated or not, they see the Log In or Log Out button. The <code>click</code> events on the buttons make calls to the <code>Auth</code> service to let the user log out or log in. When the user clicks the Log In button, they are redirected to the login page.

The login page uses the Lock widget. To learn more about universal login and the login page, see the universal login documentation. To customize the look and feel of the Lock widget, see the Lock customization options documentation.

Add a Callback Component

When you use the login page, your users are taken away from your application. After they authenticate, the users automatically return to your application and a client-side session is set for them.

This example assumes you are using path-based routing with <BrowserRouter>. If you are using hash-based routing, you will not be able to specify a dedicated callback route. The URL hash will be used to hold the user's

authentication information.

Dashboard

You can select any URL in your application for your users to return to. We recommend creating a dedicated callback route. If you create a single callback route:

- **Applications**
- APIs

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- · You don't have to whitelist many, sometimes unknown, callback URLs.
- You can display a loading indicator while the application sets up a client-side session.

Create a component named CallbackComponent and add a loading indicator.

To display a loading indicator, you need a loading spinner or another indicator in the assets directory. See the downloadable sample for demonstration.

Did it help? Yes / No

After authentication, your users are taken to the <code>/callback</code> route. They see the loading indicator while the application sets up a client-side session for them. After the session is set up, the users are redirected to the <code>/home</code> route.

Process the Authentication Result

When a user authenticates at the login page, they are redirected to your application. Their URL contains a hash fragment with their authentication information. The handleAuthentication method in the Auth service processes the hash.

Call the handleAuthentication method after you render the Callback route. The method processes the authentication hash fragment when the Callback component initializes.

```
// src/routes.js

import React from 'react';
import { Route, Router } from 'react-router-dom';
import App from './App';
import Home from './Home/Home';
import Callback from './Callback/Callback';
import Auth from './Auth/Auth';
```

```
import history from './history';
                        const auth = new Auth();
Dashboard
                        const handleAuthentication = (nextState, replace) => {
                         if (/access_token|id_token|error/.test(nextState.location.hash)) {
Applications
                            auth.handleAuthentication();
APIs
SSO Integrations
Connections
                        export const makeMainRoutes = () => {
Users
                         return (
                           <Router history={history} component={App}>
Rules
Hooks
                               <Route path="/" render={(props) => <App auth={auth} {...props} />} />
Multifactor Auth
                               <Route path="/callback" render={(props) => {
Hosted Pages
                                handleAuthentication(props);
Emails
                                 return <Callback {...props} />
Logs
Anomaly Detection
                           </Router>
Analytics
Extensions
```

Get support Did it help? Yes / No

