User Authentication and Application Security part 2

Node.js Accelerator – Jan'23

Agenda

- 1. AuthO Recap
- 2. Auth0 with Passportjs
- 3. Auth0 Roles
- 4. Auth0 Roles Rule
- 5. Permission Middleware



Node.js Accelerator

Jan 2023

From previous lesson we worked with Auth0 with:

- Creating an application and API in AuthO Dashboard
- Showed email customisation and built in features such as reset password
- Demonstrated one of the ways to attach an AuthO id into your own database
- Suggested an optional way to use your own database (link <u>here</u>)
- Added middleware to check user authentication



Another approach to control AuthO in your application is to use Passport.js (tutorial here)

• You'll need to configure all the routes such as login, logout, callback, redirect and middleware

Let's see a quick look in our code

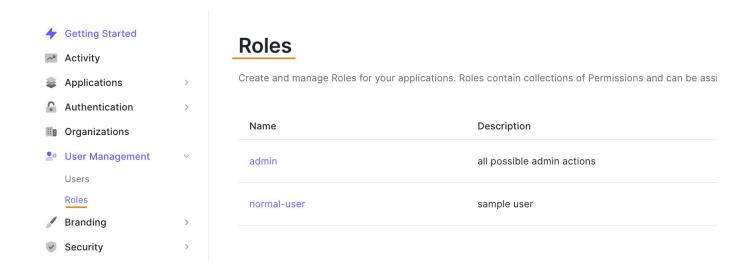
```
this.app.route( prefix: '/v2/login').get(
  passport.authenticate( strategy: 'auth0', options: {
    scope: 'openid email profile',
  }),
```

You can check the supplemental Udemy course about Passportjs <u>here</u>



Having the access token already is great but we need to be able to control permissions.

In Auth0 we can setup Roles and manage them:





Once having roles set, you can attach them to the accessToken and/or the idToken

```
function (user, context, callback) {
  var namespace = 'https://myrest.api/';
  if(context.accessToken && context.authorization.roles){
    context.accessToken[namespace + 'claims/' + "roles"] = context.authorization.roles;
}
  if (context.idToken && user.user_metadata) {
    context.idToken[namespace + 'user_metadata'] = user.user_metadata;
    context.accessToken[namespace + 'user_metadata'] = user.user_metadata;
}
  if (context.idToken && user.app_metadata) {
    context.idToken[namespace + 'app_metadata'] = user.app_metadata;
    context.accessToken[namespace + 'app_metadata'] = user.app_metadata;
}
```



Let's move to the code and check one of the ways to control the permission from a request





ACTION ITEMS

Week 4

We strongly recommend you to explore below module through Udemy this week and learn about Node.js essentials

Module	Topic	Description	Udemy Link	
Self-paced learning on Udemy	Optional: Dynamic Routing & modeling	Practice what you learned, give it a try to code navigation, routing while you implement an online shopping project	<u>Click Here</u>	2 Hrs 15 Min
Self-paced learning on Udemy	Integrating with MongoDB	Learn about MongoDB, installing Mongo, connect to a mongodb database using mongoose library, modeling, CRUD operations, data validation, mongodb aggregation pipeline etc.	Click here	6 Hrs 20 min



