Setup

1. Install Node
2. create a directory to hold your application, and make that your working directory
   1. Open terminal in that folder
   2. Then type **code .** vscode will open
3. Open terminal ctrl shift `
4. **npm init**
   1. Follow through the prompt
   2. Accept everything as a beginner
5. **npm install express**

HelloWorld

1. Create new file in root. app.js
2. Copy paste these

| const express = require('express')  const app = express()  const port = 3001  app.get('/', (req, res) => {  res.send('Hello World!')  })  app.listen(port, () => {  console.log(`Example app listening on port ${port}`)  }) |
| --- |

1. Run **node app.js**
2. Faced some issue. Was not starting. Then changed the port number and was working after that.

Sources link - <https://expressjs.com/en/starter/installing.html> , <https://expressjs.com/en/starter/hello-world.html>

CHAT GPT SAID THAT IT IS A WORKING API. SO NO EXTRA STEPS

Test using - <http://localhost:3001/>  
Also use post man

Integrate AUTH0

1. Create new api in auth0 dashboard
2. Ignore permission for now
3. **npm install --save express-oauth2-jwt-bearer**
4. Add these below part

| const { auth, requiredScopes } = require('express-oauth2-jwt-bearer');  // Authorization middleware. When used, the Access Token must  // exist and be verified against the Auth0 JSON Web Key Set.  const checkJwt = auth({  audience: 'http://localhost:3001/',  issuerBaseURL: `https://dev-clkrligodugy76hh.us.auth0.com/`,  }); |
| --- |

1. Add these as well - two endpoints. Ignored scoped part

| **// This route doesn't need authentication**  **app.get('/api/public', function(req, res) {**  **res.json({**  **message: 'Hello from a public endpoint! You don\'t need to be authenticated to see this.'**  **});**  **});**  **// This route needs authentication**  **app.get('/api/private', checkJwt, function(req, res) {**  **res.json({**  **message: 'Hello from a private endpoint! You need to be authenticated to see this.'**  **});**  **});** |
| --- |

1. Now go to postman.
   1. Used postman because it seemed easier.
   2. And the steps was suggested by chatgpt. Modified as per my requirement.
2. Click on the **"New"** button or use the **"+"** tab to create a new request.
3. In the request tab, select **"POST"**
4. Enter url - <https://dev-clkrligodugy76hh.us.auth0.com/oauth/token>
5. Click on headers tab.
   1. In Key column enter key **Content-Type**
   2. And value = **application/json**
6. Click on the **"Body"** tab
   1. Select **"raw"** and ensure the dropdown next to it is set to **"JSON"**.
   2. Paste below

| {  "client\_id": "uoGdLK6DtiUe7TJObjy2H7qvW3WgSAvU",  "client\_secret": "DxxcOcE8eoj5JZ-DX2DgnBdmbFVrvdfwwm1KDLJWxX9ER8cL5qYhrgFiVh7rJbxP",  "audience": "http://localhost:3001/",  "grant\_type": "client\_credentials"  } |
| --- |

* 1. The values can be found in **Test** tab on auth0 selected api
  2. Moreover upon experiment i saw these values are embedded in Application(LEFT TAB) > **your newly created API(Test Application)** which is a machine to machine app. I think it was automatically created. Just click this application and you will find the values.

1. Click on the **"Send"** button to execute the request.
2. Found a response

| {"access\_token":"eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Ikw5R1RYa3o1MFZtM2VUbGxKamh4dCJ9.eyJpc3MiOiJodHRwczovL2Rldi1jbGtybGlnb2R1Z3k3NmhoLnVzLmF1dGgwLmNvbS8iLCJzdWIiOiJ1b0dkTEs2RHRpVWU3VEpPYmp5Mkg3cXZXM1dnU0F2VUBjbGllbnRzIiwiYXVkIjoiaHR0cDovL2xvY2FsaG9zdDozMDAxLyIsImlhdCI6MTczMDQ1MzEyNSwiZXhwIjoxNzMwNTM5NTI1LCJndHkiOiJjbGllbnQtY3JlZGVudGlhbHMiLCJhenAiOiJ1b0dkTEs2RHRpVWU3VEpPYmp5Mkg3cXZXM1dnU0F2VSJ9.Q-c9pBRvru\_0SH9v7OOHKFjvDHRxhjqdNGb6DP88SN0UW3Rj4B\_xEJaKQVLh7Cx-DGC9OH2DTBqkmhI4DzK8qjrt0cAqd4\_C3wB6RTrTUofn\_4OMhGxhBAFpGGhv\_cwhUFBbYz\_qqjbORuXP9U\_4krR3RupT54tDpQzv42rYdhQE9SlfwZxsuBGoKBYrXsyBATYBDvOwYrxY858iWuzB\_HW-3Axo0grZbOZursjjPKwYFz6IEvYfMaDE2v1BF-ZDnVsjO1TUoLC0zDV2n-2zQz3Hdhg3DLj73GZssGwJB2ryFyUIS3wwInWkpPoU2aGUbbVBUuxpBP0lb7kS5tVLsA","expires\_in":86400,"token\_type":"Bearer"} |
| --- |

1. Now go to postman
2. Plus +
3. Add url - private api link
4. Go to the **"Headers"** tab.
5. Add a new key-value pair:
   1. **Key**: Authorization
   2. **Value**: Bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Ikw5R1RYa3o1MFZtM2VUbGxK……………..dot dot
6. Done . you should get acces of private api now.
7. Took help from this link - <https://auth0.com/docs/quickstart/backend/nodejs/interactive> and chat gpt….