

Deployment Guide – React/NodeJS Apps etc

YOU HAVE TO USE NODE.JS

14.7.5

Tip: Deploying to Heroku

Tip: Revisiting Google Cloud again for my assetmgtservice (**Signed up on 10/16/2022**)

Tip: Getting the solution run in a docker container

Tip: Pushing the image to Docker Public Registry – Original (The one below is better)

Tip: Pulling the image to Docker Public Registry (Working with doc exec – python- nano) **** Best one

Tip: Installing a React App with Apache on a MacBook

Tip: FINALLY TO THE CREATE REACT APP TO WORK WHEN DEPLOYING TO IIS (WITHOUT WEBPACK)

Tip: Deploying a reactjs app to Azure

Tip: Deploying a nodejs app to Azure

Tip: Deploying a nodejs app to Azure (Using CI/CD/GitHub) – Not using VSCode to push

Tip: Adding a default route to your node.js application to show that it is running

Tip: Deploying to Heroku

These steps are followed from my other two deployments

We modify our first three files as shown below:

```

default.json
config {
  mongoURI : "mongodb+srv://lione15116:Mag17615%40@cluster0.jwcnt.mongodb.net/Checkmate?retryWrites=true&w=majority"
  jwtSecretToken : "mysecrettoken"
}

package.json
{
  "description": "Check Mate Service (2022)",
  "main": "server.js",
  "scripts": {
    "start": "node server",
    "server": "nodemon server",
    "client": "npm start --prefix client",
    "dev": "concurrently \"npm run server\" \"npm run client\"",
    "heroku-postbuild": "NPM_CONFIG_PRODUCTION=false npm install --prefix client && npm run build --prefix client"
  },
  "author": "Lionel Jones",
  "license": "MIT",
  "dependencies": {
    "bcryptjs": "^2.4.3",
    "config": "^3.3.7",
    "cors": "^2.8.5",
    "express": "^4.18.1",
  }
}

```

[1] You can limit the size of your bundles by using import() or require.ensure to lazy load some parts of your application.
[1] For more info visit <https://webpack.js.org/guides/code-splitting/>

Update (You have to use the –force) in the package.json, or Heroku will error out

```

{
  "name": "checkmateservice",
  "version": "1.0.0",
  "description": "Check Mate Service (2022)",
  "main": "server.js",
  "scripts": {
    "start": "node server",
    "server": "nodemon server",
    "client": "npm start --prefix client",
    "dev": "concurrently \"npm run server\" \"npm run client\"",
    "heroku-postbuild": "NPM_CONFIG_PRODUCTION=false npm install --force --prefix client && npm run build --prefix client"
  },
  "author": "Lionel Jones",
  "license": "MIT",
  "dependencies": [
    "bcryptjs": "^2.4.3",
    "config": "^3.3.7",
    "cors": "^2.8.5",
    "express": "^4.18.1",
    "express-validator": "^6.14.2",
    "gravatar": "1.8.2",
    "jsonwebtoken": "^8.5.1",
    "mongoose": "^6.4.6",
    "mongoose-unique-validator": "^3.1.0",
    "request": "^2.88.2"
  ],
  "devDependencies": {
    "concurrently": "^7.5.0",
    "nodemon": "^2.0.20"
  }
}

```

default.json

.gitignore

package.json

See your AssetManagement2022 for the correct content

The Heroku tag we entered tells Heroku once we push it to Heroku to run `npm install` to install dependencies for each project and then run `npm run build` to build the project, and when it builds the project, it will put everything in the client folder of our project.

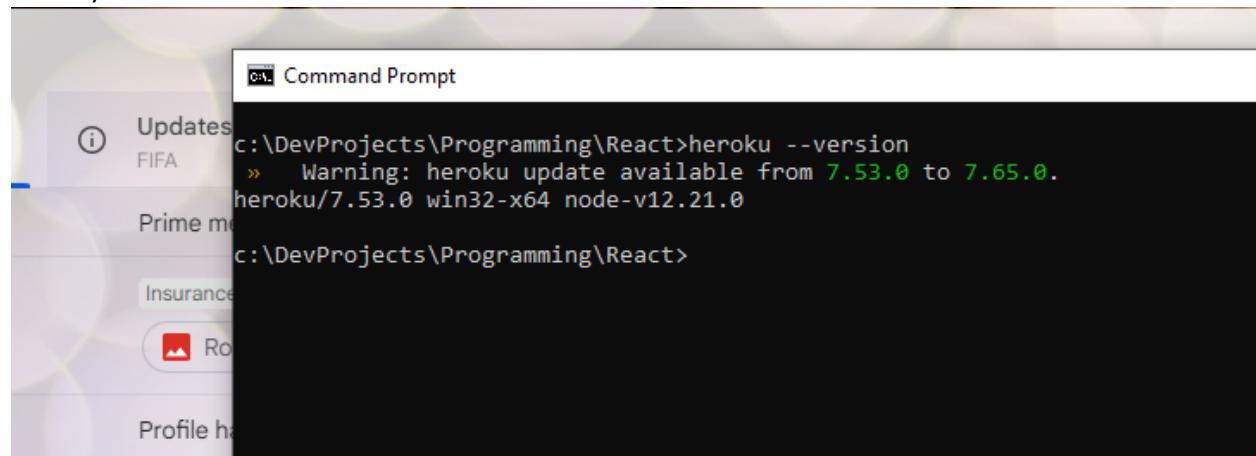
Then in your server.js file:

```
42 app.use('/api/rep', require('./routes/api/rep'));
43 //http://localhost:5500/api/receipt
44 app.use('/api/receipt', require('./routes/api/receipt'));
45
46
47 //Server static assets in production
48 if(process.env.NODE_ENV === 'production')
49 {
50     //Set static folder (our public folder)
51     app.use(express.static('client/dist'));
52     app.get('*',(req,res) => {
53         res.sendFile(path.resolve(__dirname,'client','dist','index.html'));
54     })
55 }
56
57
58 //HEROKU LOOKS AT THE process.env.PORT
59 const PORT = process.env.PORT || 5500;
60
```

Next at the terminal, do a Heroku login

Heroku login

Check your version



Next create an app

Heroku create

If you go to the dashboard, you will see the app

fierce-plains-03819

Next, go to your dashboard, click on your app
Go to the deploy tab

Go to the deploy tab

Heroku Git
Use Heroku CLI

GitHub
Connect to GitHub

Container Registry
Use Heroku CLI

Install the Heroku CLI

Download and install the [Heroku CLI](#)

If you haven't already, log in to your Heroku account and follow the prompts to create a new SSH public key.

\$ heroku login

Create a new Git repository

Initialize a git repository in a new or existing directory

\$ cd my-project/
\$ git init
\$ heroku git:remote -a fierce-plains-03819

Deploy your application

Commit your code to the repository and deploy it to Heroku using Git.

\$ git add .
\$ git commit -am "make it better"
\$ git push heroku master

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions [here](#).

copy the remote command
heroku git:remote -a fierce-plains-03819

heroku git:remote -a fierce-plains-03819

heroku login

Command Prompt

Make sure you in your directory

A screenshot of the VS Code interface. The terminal tab is active, showing the following command-line session:

```
56 }
57
58
59 //HEROKU LOOKS AT THE process.env.PORT
60 const PORT = process.env.PORT || 5500;
61
62 app.listen(PORT, () => console.log(`Server started on port ${PORT}`));
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
[1] You can limit the size of your bundles by using import() or require.ensure to lazy load some parts of your application.
[1] For more info visit https://webpack.js.org/guides/code-splitting/
[1]
[1] webpack 5.39.1 compiled with 4 warnings in 39324 ms
[1] i ｢wdm｣: Compiled with warnings.
Terminate batch job (Y/N)? [1] Terminate batch job (Y/N)? Terminate batch job (Y/N)? npm run client exited with code 1
[0] npm run server exited with code 1
y
PS C:\DevProjects\Programming\React\CheckMate>
* History restored
```

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\DevProjects\Programming\React\CheckMate>

Cloud Code AssetMgmtServiceProject

Then type in the line from here:

A screenshot of a web-based deployment interface. A red circle highlights the command:

```
$ cd my-project/
$ git init
$ heroku git:remote -a fierce-plains-03819
```

Deploy your application

Commit your code to the repository and deploy it to Heroku using Git.

```
$ git add .
$ git commit -am "make it better"
$ git push heroku master
```

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions [here](#).

A screenshot of a terminal window. A red circle highlights the command:

```
e remote command
it:remote -a fierce-plains-03819
```

t:remote -a fierce-plains-03819

heroku login

and Prompt

```
objects\Programming\React\MernStackProject2022>heroku git:remote -a fierce-plains-03819
ning: heroku update available from 7.53.0 to 7.60.2.
remote heroku to https://git.heroku.com/fierce-plains-03819.git
objects\Programming\React\MernStackProject2022>
```

This adds a remote repo for Heroku

Then do all of your regular commits locally

```
git add -A  
git add .  
git commit -m "first commit"  
git push origin master
```

Now push to Heroku

```
git push Heroku master
```

After that, watch the build, it should succeed.

You can go to your Heroku dashboard and view your app and browse it.

Tip: Revisiting Google Cloud again for my assetmgtservice (**Signed up on 10/16/2022**)

This like talks about creating Node.js service to run google cloud

<https://cloud.google.com/run/docs/quickstarts/build-and-deploy/deploy-nodejs-service>

First create a google cloud account with a credit card

This link below is for creating a google cloud account

https://console.cloud.google.com/freetrial?_ga=2.193936365.1372868959.1665875748-414377682.1665875748&_gac=1.215098085.1665883042.CjwKCAjwtKmaBhBMEiwAylNuwIdtGLj_yNP1d3kKhODtrcRzJm_tVv7Hw-HGx95ebry4AJSLSEnkhoChKcQAvD_BwE

Signed up on 10/16/2022

I signed up using my Capital One Virtual Account (so I would not have to use my real account number)

I renamed the first project to:

AssetMgmtServiceProject

To rename the project information:

Click on Dashboard

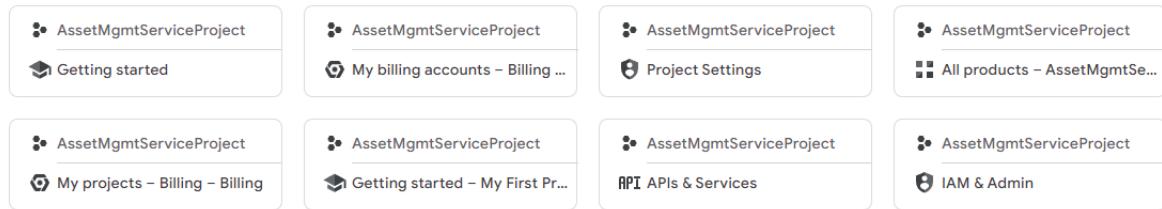
Project number:

[Dashboard](#) 

Project Settings

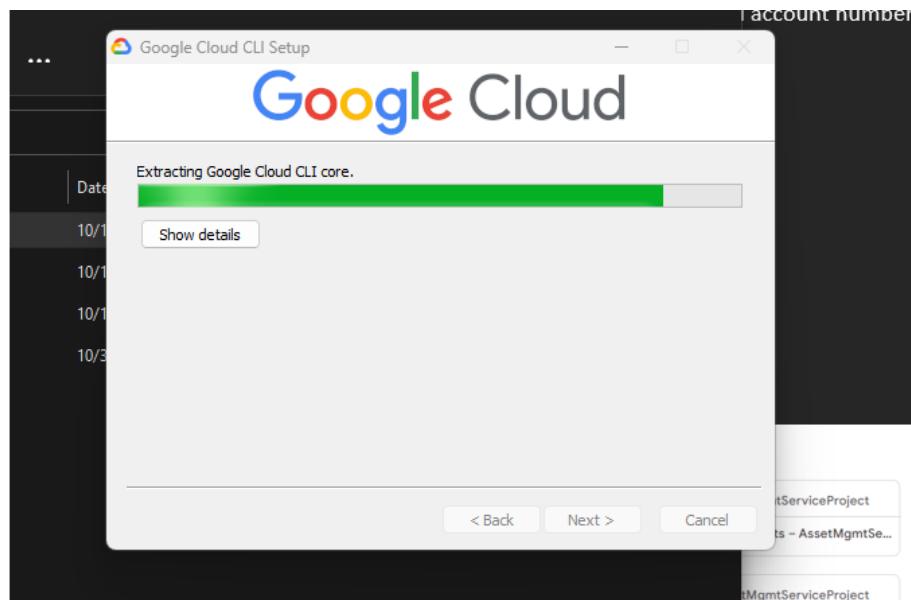
Or access it through Quick Access->Project Settings

Quick access



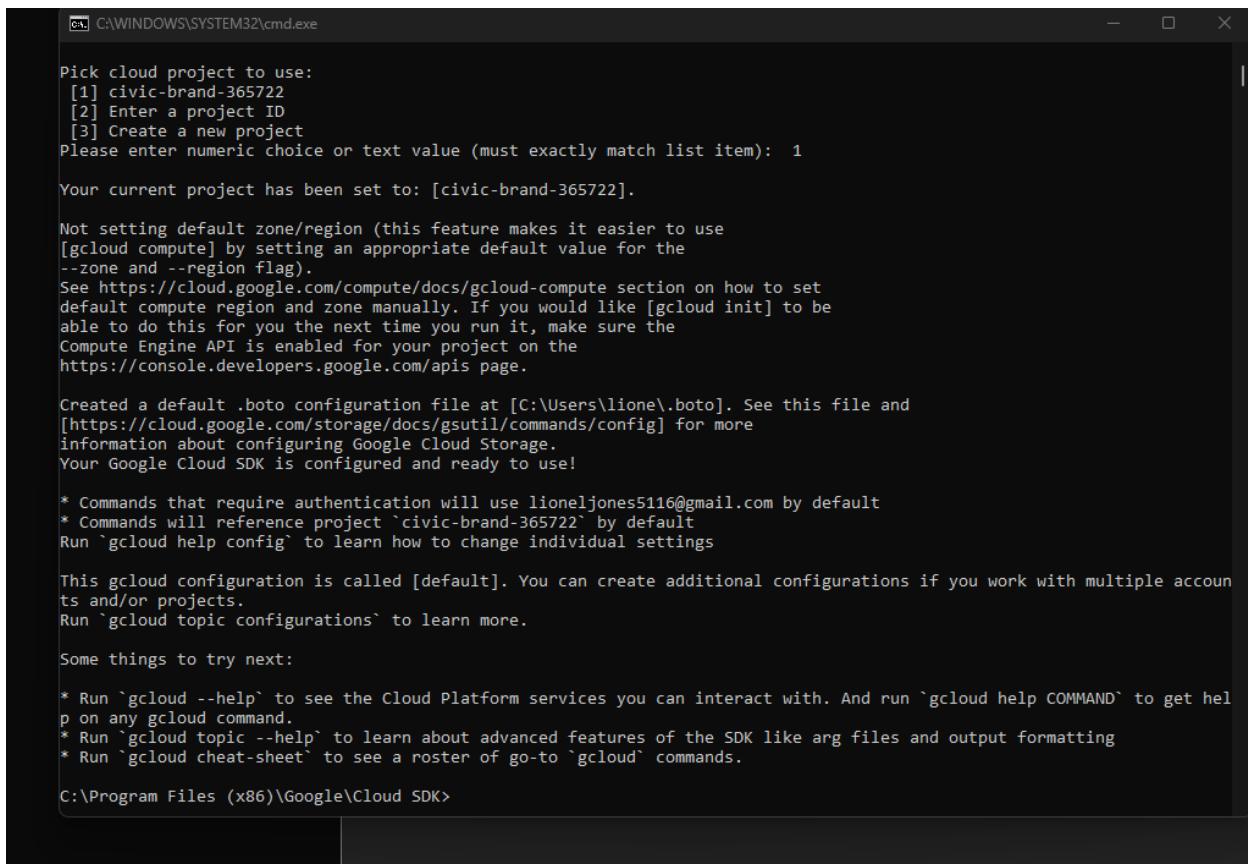
Next you have to install the google CLI

<https://cloud.google.com/sdk/docs/install>



•
Next make sure you initialize your gcloud
<https://cloud.google.com/sdk/docs/initializing>

This is done automatically on windows after installation, it will run the wizard



```
C:\WINDOWS\SYSTEM32\cmd.exe

Pick cloud project to use:
[1] civic-brand-365722
[2] Enter a project ID
[3] Create a new project
Please enter numeric choice or text value (must exactly match list item): 1

Your current project has been set to: [civic-brand-365722].

Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag).
See https://cloud.google.com/compute/docs/gcloud-compute section on how to set
default compute region and zone manually. If you would like [gcloud init] to be
able to do this for you the next time you run it, make sure the
Compute Engine API is enabled for your project on the
https://console.developers.google.com/apis page.

Created a default .boto configuration file at [C:\Users\lione\.boto]. See this file and
[https://cloud.google.com/storage/docs/gsutil/commands/config] for more
information about configuring Google Cloud Storage.
Your Google Cloud SDK is configured and ready to use!

* Commands that require authentication will use lioneljones5116@gmail.com by default
* Commands will reference project `civic-brand-365722` by default
Run `gcloud help config` to learn how to change individual settings

This gcloud configuration is called [default]. You can create additional configurations if you work with multiple accounts and/or projects.
Run `gcloud topic configurations` to learn more.

Some things to try next:

* Run `gcloud --help` to see the Cloud Platform services you can interact with. And run `gcloud help COMMAND` to get help on any gcloud command.
* Run `gcloud topic --help` to learn about advanced features of the SDK like arg files and output formatting
* Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.

C:\Program Files (x86)\Google\Cloud SDK>
```

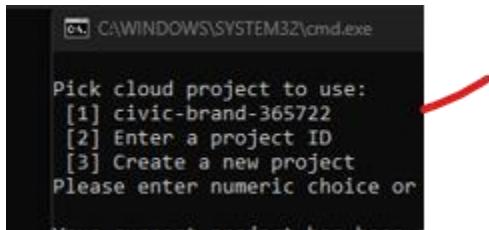
But on Mac M1

You install gcloud via .sh file from a zipped extract. After you have installed on m1

You have to run the following command:

gcloud init

And you will get the same window as above, you initialize your gcloud with a valid project. This is the project I created earlier.



You can also set the default project with following command:
gcloud config set project *PROJECT_ID*

I am not going to follow the rest of the guide because I want to download my project from GitHub

But If wanted to deploy a simple service, I could have just copied and pasted sample code and ran the code below:

Deploy from source automatically builds a container image from source code and deploys it.

To deploy from source:

1. In your source code directory, deploy from source using the following command:

```
gcloud run deploy
```

If prompted to enable the API, Reply **y** to enable.

The next link below is the one I am going to use:

<https://levelup.gitconnected.com/how-to-deploy-your-node-js-app-with-google-2cd3771d5b21>

Next we will create and application to place our code in:

Hit the burger menu and select app engine

≡ Google Cloud AssetMgmtServiceProject ▾

- Cloud overview >
- Recent >
- View all products**

PINNED

Pin your top products here

MORE PRODUCTS ▾

- COMPUTE
 - Compute Engine >
 - Kubernetes Engine >
 - VMware Engine
 - Workload Manager **NEW**
 - Batch
 - Distributed Cloud >
- SERVERLESS
 - Cloud Run
 - Cloud Functions
 - App Engine >
- STORAGE
 - Filestore >
 - Cloud Storage >

90°F Sunny

The screenshot shows the Google Cloud Platform dashboard. At the top, there's a blue header bar with the Google Cloud logo and the project name "AssetMgmtServiceProject". Below the header is a sidebar with a list of services. The "View all products" option is highlighted with a blue border. Under the "MORE PRODUCTS" section, the "COMPUTE" section is expanded, showing "Compute Engine", "Kubernetes Engine", "VMware Engine", "Workload Manager" (marked as "NEW"), "Batch", and "Distributed Cloud". The "APP ENGINE" item under SERVERLESS has a red underline. The "STORAGE" section includes "Filestore" and "Cloud Storage". On the right side of the dashboard, there are several cards: "You're working on [redacted]" (with a "Create a new project" button), "Quick access" (with links to "AssetMgmtServiceProject" and "My bill"), and "All products" (with a "View all products" button). At the bottom left, there's a weather widget showing "90°F Sunny".

You will be prompted to create an app

Select a region

The next window opens up, select Node.js

Get started

Resources

Language: Node.js

Environment: Standard

Read App Engine Node.js Standard Environment [Documentation](#)

Visit [Github](#) for Node.js Standard Environment code samples.

Deploy with Google Cloud SDK

[DOWNLOAD THE CLOUD SDK](#)

Initialize your SDK

```
$ gcloud init
```

Deploy to App Engine

```
$ gcloud app deploy
```

I'LL DO THIS LATER

You can select I'll do this later

Once you come back by selecting App Engine:

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

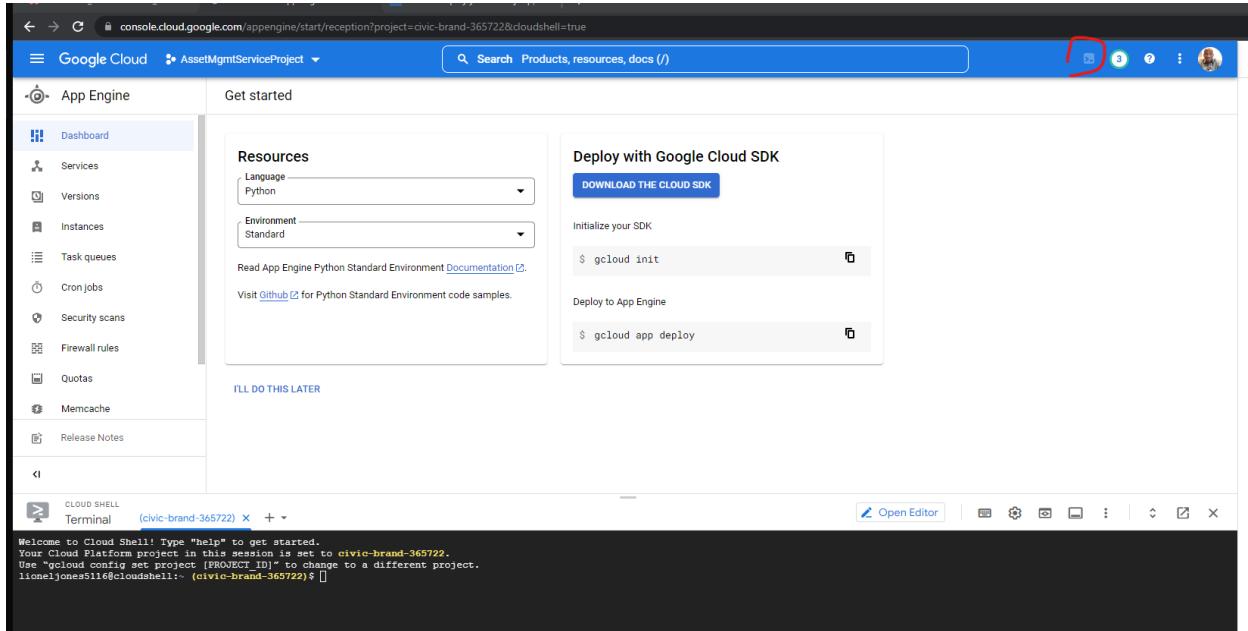
✓ Your App Engine application has been created

Let us [help you deploy to your application](#) by pointing you at the relevant resources based on your programming language.

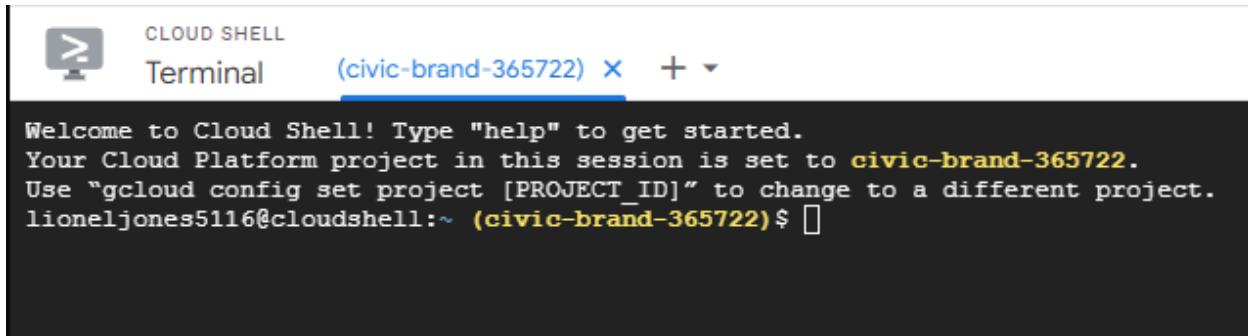
[GET STARTED](#)

When you hit get started, it will take you back to the screen above where you select Node.js etc..

When you get to the next window again, hit the console icon on gcloud (you can do this at the command prompt or using the gcloud shell on the web)

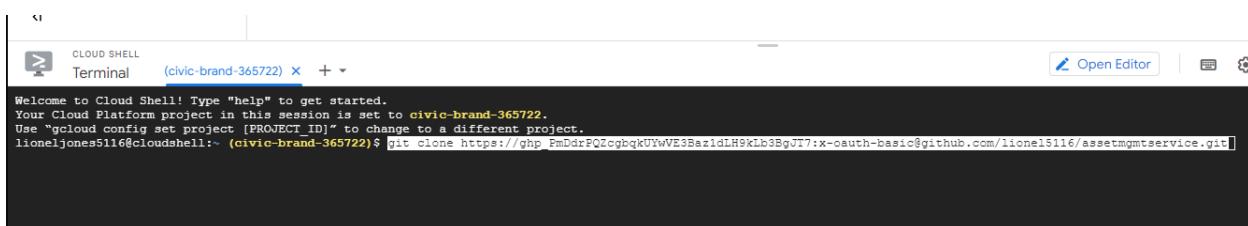


Make sure that you are in the correct project:



Then clone your repo:

```
git clone https://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:x-oauth-basic@github.com/lionel5116/assetmgmtservice.git
```



```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to civic-brand-365722.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
lioneljones5116@cloudshell:~ (civic-brand-365722)$ git clone https://ghp_FmDdrPQZcgbqkUYwVE3Baz1dLH9kLb3BgJT7:x-oauth-basic@git
Cloning into 'assetmgmtservice'...
remote: Enumerating objects: 66, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 66 (delta 6), reused 12 (delta 6), pack-reused 54
Receiving objects: 100% (66/66), 37.04 MiB | 40.23 MiB/s, done.
Resolving deltas: 100% (27/27), done.
lioneljones5116@cloudshell:~ (civic-brand-365722)$ ls -al
total 56
drwxr-xr-x 9 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 .
drwxr-xr-x 4 root      root      4096 Sep  1 16:35 ..
drwxr-xr-x 7 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 assetmgmtservice
-rw----- 1 lioneljones5116 lioneljones5116 358 Oct 16 23:24 .bash_history
-rw-r--r-- 1 lioneljones5116 lioneljones5116 220 Jan  1 1970 .bash_logout
-rw-r--r-- 1 lioneljones5116 lioneljones5116 3564 Aug 24 07:14 .bashrc
drwxr-xr-x 3 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .cache
drwxr-xr-x 3 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 cloudshell_open
drwxr-xr-x 3 lioneljones5116 lioneljones5116 4096 Aug 24 07:04 .config
drwxr-xr-x 2 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .docker
-rw-r--r-- 1 lioneljones5116 lioneljones5116 807 Jan  1 1970 .profile
-rw-r--r-- 1 lioneljones5116 lioneljones5116 913 Oct 16 23:22 README-cloudshell.txt
drwxr-xr-x 2 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .redhat
drwxr-xr-x 6 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .theia
lioneljones5116@cloudshell:~ (civic-brand-365722)$ 
```

Navigate to your project folde and do an npm install

Make sure that your language says NodeJs

The screenshot shows the Google Cloud Platform dashboard. On the left, there's a sidebar with 'App Engine' and 'Dashboard' selected. Under 'Dashboard', there are tabs for 'Services', 'Versions', and 'Release Notes'. In the main area, there's a 'Resources' section with dropdown menus for 'Language' (set to 'Node.js') and 'Environment' (set to 'Standard'). To the right, there's a 'Deploy with Google Cloud SDK' section with a 'DOWNLOAD THE CLOUD SDK' button and a command line interface for 'Initialize your SDK'.

CLOUD SHELL

Terminal (civic-brand-365722) +

```
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ ls -al
total 22136
drwxr-xr-x  8 lioneljones5116 lioneljones5116 4096 Oct 16 23:26 .
drwxr-xr-x 10 lioneljones5116 lioneljones5116 4096 Oct 16 23:25 ..
-rw-r--r--  1 lioneljones5116 lioneljones5116 16076893 Oct 16 23:24 AssetMgmtService_V2.docx
-rw-r--r--  1 lioneljones5116 lioneljones5116 6352285 Oct 16 23:24 AssetMgmtService_V2.pdf
drwxr-xr-x  2 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 config
-rw-r--r--  1 lioneljones5116 lioneljones5116 630 Oct 16 23:24 Dockerfile
-rw-r--r--  1 lioneljones5116 lioneljones5116 10749 Oct 16 23:24 EndPointExplanationsNodeJS.txt
drwxr-xr-x  8 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 .git
-rw-r--r--  1 lioneljones5116 lioneljones5116 50 Oct 16 23:24 .gitignore
drwxr-xr-x  2 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 middleware
drwxr-xr-x  2 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 models
drwxr-xr-x 215 lioneljones5116 lioneljones5116 12288 Oct 16 23:26 node_modules
-rw-r--r--  1 lioneljones5116 lioneljones5116 617 Oct 16 23:24 package.json
-rw-r--r--  1 lioneljones5116 lioneljones5116 163194 Oct 16 23:26 package-lock.json
drwxr-xr-x  3 lioneljones5116 lioneljones5116 4096 Oct 16 23:24 routes
-rw-r--r--  1 lioneljones5116 lioneljones5116 1688 Oct 16 23:24 server.js
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ 
```

You can open the editor (It's VS CODE),by clicking on OPEN EDITOR

The screenshot shows the Google Cloud Shell interface with the project "AssetMgmtServiceProject" selected. The left sidebar displays the file structure of the "assetmgmtservice" directory, which includes configuration files, middleware, models, routes, and several PDF and JSON files. The bottom right terminal window shows the output of the "ls -al" command:

```
lioneljones5116@cloudshell:~ (civic-brand-365722)$ ls -al
total 60
drwxr-xr-x 10 lioneljones5116 lioneljones5116 4096 Oct 16 23:25 .
drwxr-xr-x  4 root      root      4096 Sep  1 16:35 ..
-rw-----  1 lioneljones5116 lioneljones5116 438 Oct 16 23:26 .bash_history
-rw-r--r--  1 lioneljones5116 lioneljones5116 220 Jan  1 1970 .bash_logout
-rw-r--r--  1 lioneljones5116 lioneljones5116 3564 Aug 24 07:14 .bashrc
drwxr-xr-x  3 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .cache
drwxr-xr-x  3 lioneljones5116 lioneljones5116 4096 Aug 24 07:04 .config
drwxr-xr-x  2 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .docker
drwxr-xr-x  4 lioneljones5116 lioneljones5116 4096 Oct 16 23:26 .npm
-rw-r--r--  1 lioneljones5116 lioneljones5116 807 Jan  1 1970 .profile
drwxr-xr-x  2 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .redhat
drwxr-xr-x  6 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 .theia
-rw-r--r--  1 lioneljones5116 lioneljones5116 913 Oct 16 23:30 README-cloudshell.txt
drwxr-xr-x  8 lioneljones5116 lioneljones5116 4096 Oct 16 23:26 assetmgmtservice
drwxr-xr-x  3 lioneljones5116 lioneljones5116 4096 Sep  1 16:35 cloudshell_open
lioneljones5116@cloudshell:~ (civic-brand-365722)$
```

From here you can do everything just like with the terminal, just select “Terminal” new terminal as above (IT’s VS CODE remember)

You don’t need to run an npm run build (this is node.js service). There is no build

Run npm start

CLOUD SHELL

Editor

File Edit Selection View Go Run Terminal Help

EXPLORER

> OPEN EDITORS

< LIONELJONES5116

< assetmgmtservice

> config

> middleware

> models

> node_modules

> routes

< AssetMgmtService_V2.docx

< AssetMgmtService_V2.pdf

< Dockerfile

< EndPointExplanationsNodeJS.txt

< package-lock.json

< package.json

< server.js

> cloudshell_open

< README-cloudshell.txt

package.json

```
1  {
2      "name": "assetmgmtservice",
3      "version": "1.0.0",
4      "description": "Asset Management (Service 2022)",
5      "main": "server.js",
6          "Debug"
7      "scripts": {
8          "start": "node server"
9      },
10     "author": "Lionel Jones",
11     "license": "MIT",
12     "dependencies": {
13         "bcryptjs": "^2.4.3",
14         "config": "^3.3.7",
15         "cors": "^2.8.5",
16         "express": "4.18.1",
17         "express-validation": "^6.14.2",
18         "gravatar": "^1.8.2",
19         "jsonwebtoken": "^8.5.1",
20         "mongoose": "^6.4.6",
21         "mongoose-unique-validator": "^3.1.0",
22     }
23 }
```

Problems

civic-brand-365722

lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)\$ npm start

And it's running:

The screenshot shows the Google Cloud Shell interface. The title bar says "Google Cloud AssetMgmtServiceProject". The left sidebar has "CLOUD SHELL" and "Editor" tabs. The "EXPLORER" tab is selected, showing a file tree for "LIONELJONES5116" and "assetmgmtservice". The "assetmgmtservice" folder contains "config", "middleware", "models", "node_modules", "routes", "AssetMgmtService_V2.docx", "AssetMgmtService_V2.pdf", "Dockerfile", "EndPointExplanationsNodeJS.txt", "package-lock.json", "package.json", and "server.js". The "package.json" file is open in the main editor area. It contains the following code:

```
1  {
2    "name": "assetmgmtservice",
3    "version": "1.0.0",
4    "description": "Asset Management (Service 2022)",
5    "main": "server.js",
6    "scripts": {
7      "start": "node server"
8    },
9    "author": "Lionel Jones",
10   "license": "MIT",
11   "dependencies": {
12     "bcryptjs": "^2.4.3",
13     "config": "^3.3.7",
14     "cors": "^2.8.5",
15     "express": "^4.18.1",
16     "express-validator": "^6.14.2",
17     "gravatar": "^1.8.2",
18     "jsonwebtoken": "^8.5.1",
19     "mongoose": "^6.4.6",
20     "mongoose-unique-validator": "^3.1.0",

```

The terminal window at the bottom shows the command "lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)\$ npm start" and its output: "assetmgmtservice@1.0.0 start" and "node server". It also shows "Server started on port 5500" and "MongoDB Connected...".

Now to deploy:

gcloud app deploy

If you get an error

```

19      "mongoose": "^6.4.6",
20      "mongoose-unique-validator": "^3.1.0",

```

Problems civic-brand-365722

```

lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ gcloud app deploy
ERROR: An app.yaml (or appengine-web.xml) file is required to deploy this directory as an App Engine application. Create an app.yaml file using the directions at https://cloud.google.com/appengine/docs/flexible/python/configuring-your-app-with-app-yaml (App Engine flexible environment) or https://cloud.google.com/appengine/docs/standard/python/config/appref (App Engine standard environment) under the tab for your language.
ERROR: (gcloud.app.deploy) [/home/lioneljones5116/assetmgmtservice] could not be identified as a valid source directory or file.
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$

```

This means you need to create an app.yaml file

use the command touch app.yaml to create a file

<https://cloud.google.com/appengine/docs/standard/reference/app-yaml?tab=node.js>

Place the minimal code in as shown below and comment out the rest

```

CLOUD SHELL Editor File Edit Selection View Go Run Terminal Help
EXPLORER ... app.yaml X
assetmgmtservice > app.yaml > ...
1 runtime: nodejs16 # or another supported version
2
3
4 env_variables:
5 #BUCKET_NAME: "example-gcs-bucket"
6
7 handlers:
8 #- url: /stylesheets
9 | # static_dir: stylesheets
10
11 #- url:.*/
12 | # secure: always
13 | # redirect_http_response_code: 301
14 | #script: auto

```

Problems civic-brand-365722

```

lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ gcloud app deploy

```

Problems civic-brand-365722

```

lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ node -v
v16.4.0
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ gcloud app deploy

```

Check your version, then re-run the gcloud app deploy

Here is the log:

<https://console.cloud.google.com/cloud-build/builds;region=us-central1/e214f552-fb08-4f7f-8351-d30a6d827879?project=497267468698>

<https://console.cloud.google.com/cloud-build/builds;region=us-central1/e214f552-fb08-4f7f-8351-d30a6d827879?project=497267468698>

So I ran it again, and it deployed:

```
U   o  ## url: /stylesheets
  9  | # static_dir: stylesheets
10
⚠ Problems  ⚡ civic-brand-365722 ×
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ gcloud app deploy
Services to deploy:
$ .txt
M descriptor:          [/home/lioneljones5116/assetmgmtservice/app.yaml]
source:                [/home/lioneljones5116/assetmgmtservice]
target project:        [civic-brand-365722]
target service:        [default]
target version:        [20221016t235448]
target url:            [https://civic-brand-365722.uc.r.appspot.com]
target service account: [App Engine default service account]

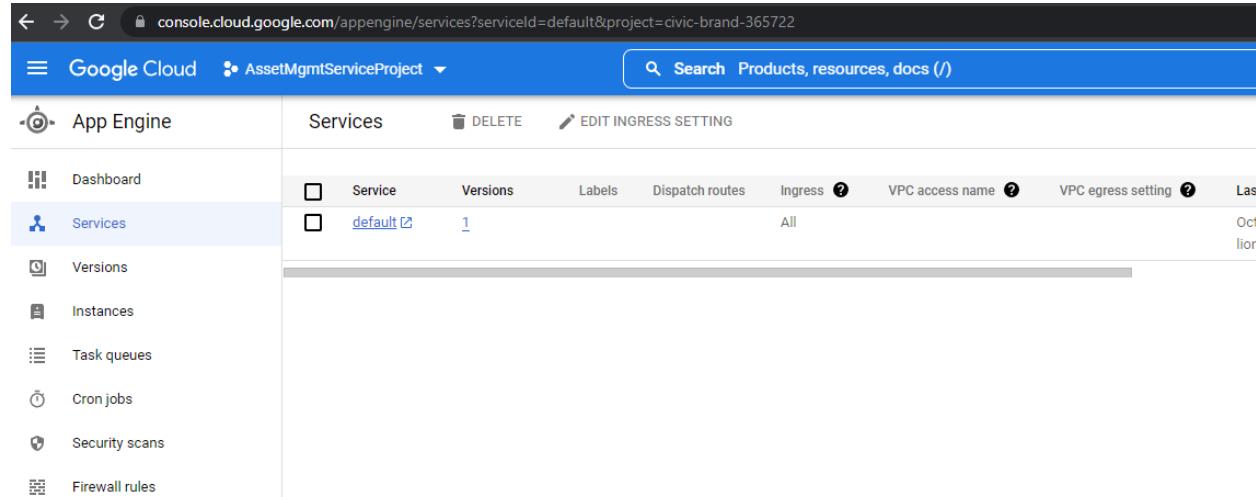
Do you want to continue (Y/n)?  y

Beginning deployment of service [default]...
Uploading 0 files to Google Cloud Storage
100%
File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://civic-brand-365722.uc.r.appspot.com]

You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$
```

I went back to app engine:



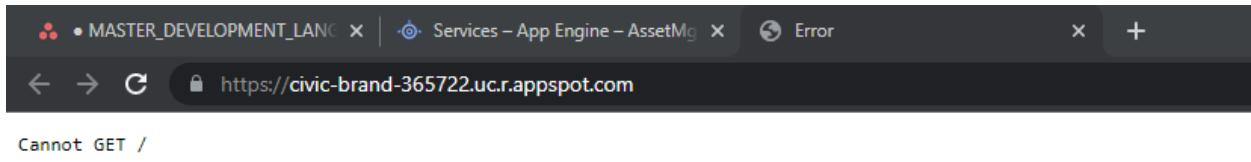
The screenshot shows the Google Cloud App Engine Services page. The sidebar on the left lists options: Dashboard, Services (which is selected and highlighted in blue), Versions, Instances, Task queues, Cron jobs, Security scans, and Firewall rules. The main content area shows a table for the 'Services' section. The table has columns: Service, Versions, Labels, Dispatch routes, Ingress, VPC access name, VPC egress setting, and Last modified. There is one row for the 'default' service, which has 1 version. The 'Ingress' column shows 'All'. The 'Last modified' column shows 'Oct 10'. At the top of the main content area, there are buttons for 'DELETE' and 'EDIT INGRESS SETTING'.

Service	Versions	Labels	Dispatch routes	Ingress	VPC access name	VPC egress setting	Last modified
default	1			All			Oct 10

Clicked on the link

<https://civic-brand-365722.uc.r.appspot.com/>

The error is not an error, this is a service without a page



Now I am going to postman

<https://civic-brand-365722.uc.r.appspot.com/api/travel/searchTravelRecord>

What's interesting, it handles the port 5500 internally

You can check the logs:

A screenshot of the Google Cloud Platform Services dashboard. On the left, there is a table with columns for Labels, Dispatch routes, Ingress, VPC access name, VPC egress setting, Last version deployed (with a dropdown arrow), and Diagnose. The "Last version deployed" row shows "Oct 16, 2022, 6:56:01 PM by lioneljones5116@gmail.com". To the right of the table, there is a sidebar titled "Select a service" with tabs for ACTIVITY and LABELS. Under ACTIVITY, there is a list of logs from today: "Completed: Update App Engine..." and "Update App Engine module". A tooltip "I'm new here" is visible at the bottom right of the sidebar.

Google Cloud AssetMgmtServiceProject

Logs Explorer

REFINE SCOPE Project

Query Recent (1) Saved (0) Suggested (0) Library

Last 1 hour Search all fields

1 resource.type="gae_app"
2 resource.labels.module_id="default"

Log fields Histogram

Log fields

Search fields and values

RESOURCE TYPE GAE Application Clear X

SEVERITY Default 15 Notice 6 Info 1

LOG NAME /var/log/google_init.log 12 cloudaudit.googleapis.com/activity 6 appengine.googleapis.com/request_log 2 stdout 2

PROJECT ID civic-brand-365722 22

MODULE ID default Clear X

VERSION ID 20221016t235448 18 Value not present 2 20221016t234401 2

Histogram

Oct 16, 6:03 PM 6:30 PM Oct 16, 7:04 PM

Query results 22 log entries

SEVERITY	TIMESTAMP	CDT	SUMMARY
> *	2022-10-16 18:56:13.618 CDT		appengine.googleapis.com ..._appengine.v1.Services.UpdateService ..._apps/civic-brand-365722/services/default ..._line
> *	2022-10-16 18:56:15.050 CDT		appengine.googleapis.com ..._appengine.v1.Services.UpdateService ..._apps/civic-brand-365722/services/default ..._line
> *	2022-10-16 18:58:17.864 CDT	GET 404	459 B 3.667 s ... Chrome 106.0. ... /
> *	2022-10-16 18:58:18.519 CDT	[start]	2022/10/16 23:58:18.518S15 No entrypoint specified, using default entrypoint: /serve
> *	2022-10-16 18:58:18.521 CDT	[start]	2022/10/16 23:58:18.519S1 Starting app
> *	2022-10-16 18:58:18.521 CDT	[start]	2022/10/16 23:58:18.519S3 Executing: /bin/sh -c exec /serve
> *	2022-10-16 18:58:18.522 CDT	[start]	2022/10/16 23:58:18.522S10 Waiting for network connection open. Subject:"app/invalid" Address:127.0.0.1:8080
> *	2022-10-16 18:58:18.522 CDT	[start]	2022/10/16 23:58:18.522S46 Waiting for connection open. Subject:"app/valid" Address:127.0.0.1:8081
> *	2022-10-16 18:58:18.556 CDT	[serve]	2022/10/16 23:58:18.543S68 Serve started.
> *	2022-10-16 18:58:18.551 CDT	[serve]	2022/10/16 23:58:18.550S25 Args: {runtimeLanguage:nodejs runtimeName:nodejs16 memoryMb:256 positional:[{}]}
> *	2022-10-16 18:58:18.558 CDT	[serve]	2022/10/16 23:58:18.556S48 Running /bin/sh -c exec node server
> *	2022-10-16 18:58:21.436 CDT		Server started on port 8081
> *	2022-10-16 18:58:21.439 CDT	[start]	2022/10/16 23:58:21.438S96 Wait successful. Subject:"app/valid" Address:127.0.0.1:8080 Attempts:583 Elapsed:21.398
> *	2022-10-16 18:58:21.439 CDT	[start]	2022/10/16 23:58:21.439S74 Starting nginx
> *	2022-10-16 18:58:21.444 CDT	[start]	2022/10/16 23:58:21.442S80 Waiting for network connection open. Subject:"nginx" Address:127.0.0.1:8080
> *	2022-10-16 18:58:21.464 CDT	[start]	2022/10/16 23:58:21.464S93 Wait successful. Subject:"nginx" Address:127.0.0.1:8080 Attempts:4 Elapsed:21.398
> *	2022-10-16 18:58:21.966 CDT		MongoDB Connected...
> *	2022-10-16 19:01:34.373 CDT	POST 200	6.02 Kib 111 ms ... PostmanRunti... /api/travel/searchTravelRecord

Chosen time from 10/16/22 6:03 PM to 10/16/22 7:04 PM

Explore

Search Postman

Port https://civic-brand-365722.uc.r.appspot.com/api/travel/searchTravelRecord

POST https://civic-brand-365722.uc.r.appspot.com/api/travel/searchTravelRecord

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Body Cookies Headers (12) Test Results

Pretty Raw Preview Visualize JSON

```
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[{"travel": [{"_id": "62e92e77d860bb8194e970f5", "Destination": "Costa Rica", "Year": "2019", "TravelDate": "7/19/2019", "Airline": "United", "Hotel": "Taormina", "BookingCode": "EZS9V6", "APCode": "SJO", "ItineraryFlight": "7451361251317", "ItineraryHotel": "7451361251317", "Status": "COMPLETE", "FlightCost": 250, "HotelCost": 866, "GirCost": 730, "TotalCost": 1836, "Rating": "EXCELLENT", "Notes": "Awsome trip. hit wayy too many.. but will definately repeat/ and this works", "__v": 0}, {"_id": "62e92ed3d860bb8194e970f9", "Destination": "Colombia", "Year": "2020", "TravelDate": "7/19/2020", "Airline": "South American", "Hotel": "Cartagena", "BookingCode": "EZS9V6", "APCode": "SJO", "ItineraryFlight": "7451361251317", "ItineraryHotel": "7451361251317", "Status": "PENDING", "FlightCost": 250, "HotelCost": 866, "GirCost": 730, "TotalCost": 1836, "Rating": "EXCELLENT", "Notes": "Awsome trip. hit wayy too many.. but will definately repeat/ and this works", "__v": 0}]}]
```

AND IT WORKS!!!!

Tip: Getting the solution run in a docker container

The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows a project named "CHECKMATEV2" containing several folders and files:
 - client (with node_modules, public, src, .env, .gitignore, package-lock.json, package.json, README.md)
 - config
 - middleware
 - models
 - node_modules
 - routes (with .gitignore, ~\$eckMateV2.docx, app.yaml, CheckMateV2.docx)
 - Dockerfile
 - package-lock.json
 - package.json
 - server.js
- Code Editor:** Displays the Dockerfile content. The code is as follows:

```
1 #A
2 FROM node:16
3
4 #copy over main server file
5 #B
6 COPY server.js /server.js
7
8 COPY package*.json ./
9
10
11 #E
12 EXPOSE 5500 3000
13
14 #C copy directories for client
15 COPY client/ /client
16
17 #copy directories for service
18 #C
19 COPY config/ /config
20 COPY middleware/ /middleware
21 COPY models/ /models
22 COPY routes/ /routes
23
24
25 #F npm install on server
26 RUN npm install
27
28 #F npm install on the client
29 RUN npm install --force --prefix client
30 RUN npm run build --prefix client
31
32 #D
33 #ENTRYPOINT ["npm", "start"]
34 #ENTRYPOINT ["node", "server.js"]
35 ENTRYPOINT ["npm", "run", "dev"]
36
37
38 #A The base image to build upon
```

Notice line 13, this is how you expose both ports

3000 is for the client app

5500 is for the NodeJS app

Line 16 is copying the client folder's contents

line 30 ad 31 runs the install and build of the react app

line 36 runs your custom command – (npm run dev)

To run the image

```
lioneljones@MacBookAirM1 ~ % docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
checkmateappv2  latest   7a5366aa0d04  33 seconds ago  1.4GB
assetmgmtsvc   latest   5ed50c8e47cb  12 days ago   902MB
lioneljones@MacBookAirM1 ~ % docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
d50b54f5f3428acc28cd53e4fc14534d7b97778a5dc5835cae3ea19cbb9f76d
lioneljones@MacBookAirM1 ~ % docker container ps
CONTAINER ID  IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
lioneljones@MacBookAirM1 ~ % docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
869ace6b2ca1a57fca5f030c99434a1dc5775f2b6cc255a65edd4a9fb07363e1
lioneljones@MacBookAirM1 ~ % docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
6ee37b18d2f490e5fa36ee801df687a9fd4d16e74f2cbc1e17c0ed135ee62276
lioneljones@MacBookAirM1 ~ %
```

To run the image

```
docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
```

The screenshot shows the Docker web interface with the following details:

- Containers** [Give Feedback](#)
- A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)
- Showing 1 items
- Search bar: Search
- Table headers: NAME, IMAGE, STATUS, PORT(S), STARTED, ACTIONS
- Table data:

NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
checkmateappv2-container 6ee37b18d2f4	checkmateappv2:latest	Running	3000,5...	2 minutes ago	

And it works

localhost:3000#/SearchPharma

Check Mate Home Medical Office Locations ▾ Physicians Records ▾ Managers Reps Receipts ▾ Reports ▾ Administration REDUX AUTH TEST

Search Pharmaceutical Companies

Enter Search Criteria

All			
Email	Name		
<input type="text" value="Enter Email"/>	<input type="text" value="Name"/>		
Search Records			

Search Results

_id	Name	Phone	Email	Edit	Delete
63549190fe74bf00a27dcfa5	Memorial Health	713-654-0987	mmhealth@gmail.com		
6354a04dd5e97ead84326278	Herman Hospital System	713-876-0987	corsonmemorial@gmail.com		

10 ▾ Showing rows 1 to 2 of 2
1

To run your image

```
docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d
checkmateappv2
```

```
docker inspect checkmateappv2-container
```

To grab the id only

```
docker inspect --format="{{.Id}} checkmateappv2-container
```

But I get an error (need to research this)

To remove your image

```
docker rm 6ee37b18d2f490e5fa36ee801df687a9fd4d16e74f2cbc1e17c0ed135ee62276
```

Below is the end user process

If you already have a container that you ran. Then you stopped and restarted your machine. The container maintains its id and configuration. You will see it below

Docker Desktop Images on disk

Last refresh: less than a minute ago

2 images 2.31 GB total size 1.4 GB / 2.31 GB in use

Images Give Feedback

LOCAL REMOTE REPOSITORIES

Search

In use only

NAME	TAG	IMAGE ID	CREATED	SIZE
assetmgmtsvc	latest	5ed50c8e47cb	12 days ago	902.43 MB
checkmateappv2	IN USE	62b427cecc78	about 2 hours ago	1.4 GB

Docker Desktop Upgrade plan

Containers Give Feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Showing 1 items

Search

NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
checkmateappv2-container 61911b4c8195	checkmateappv2:latest	Exited (255)	3000,5...		

Just hit the start button

Docker Desktop Upgrade plan

Containers Give Feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Showing 1 items

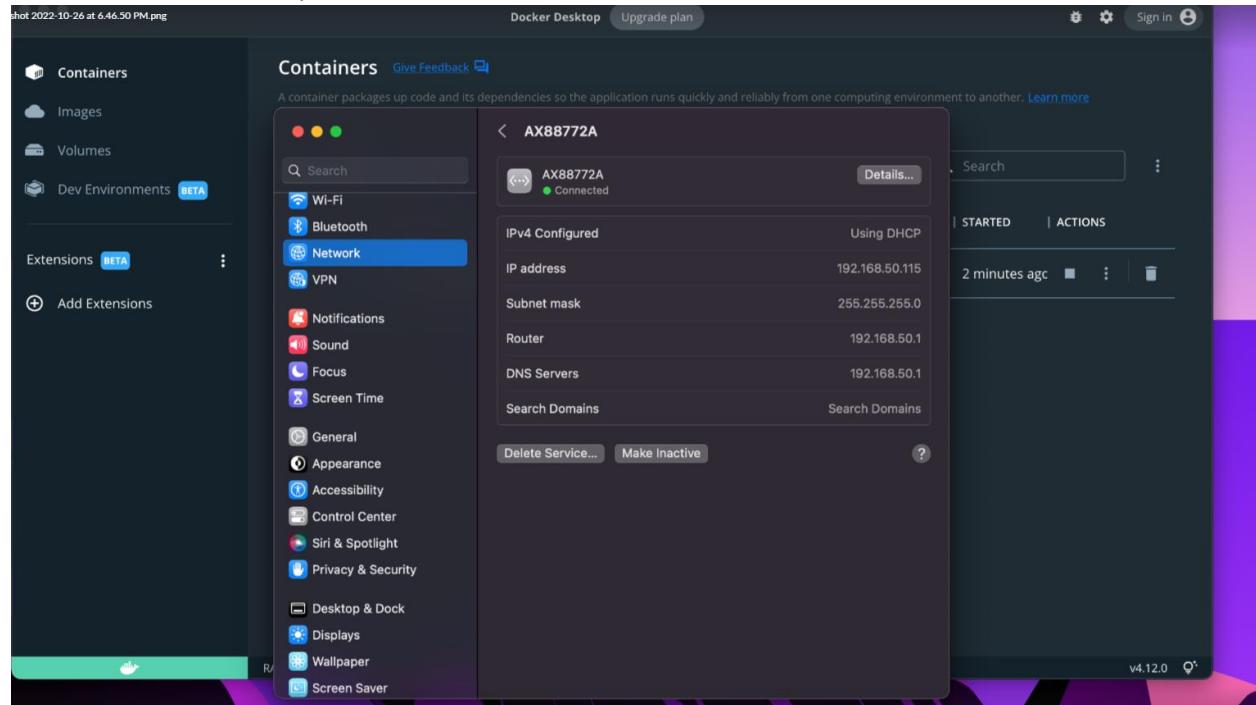
Search

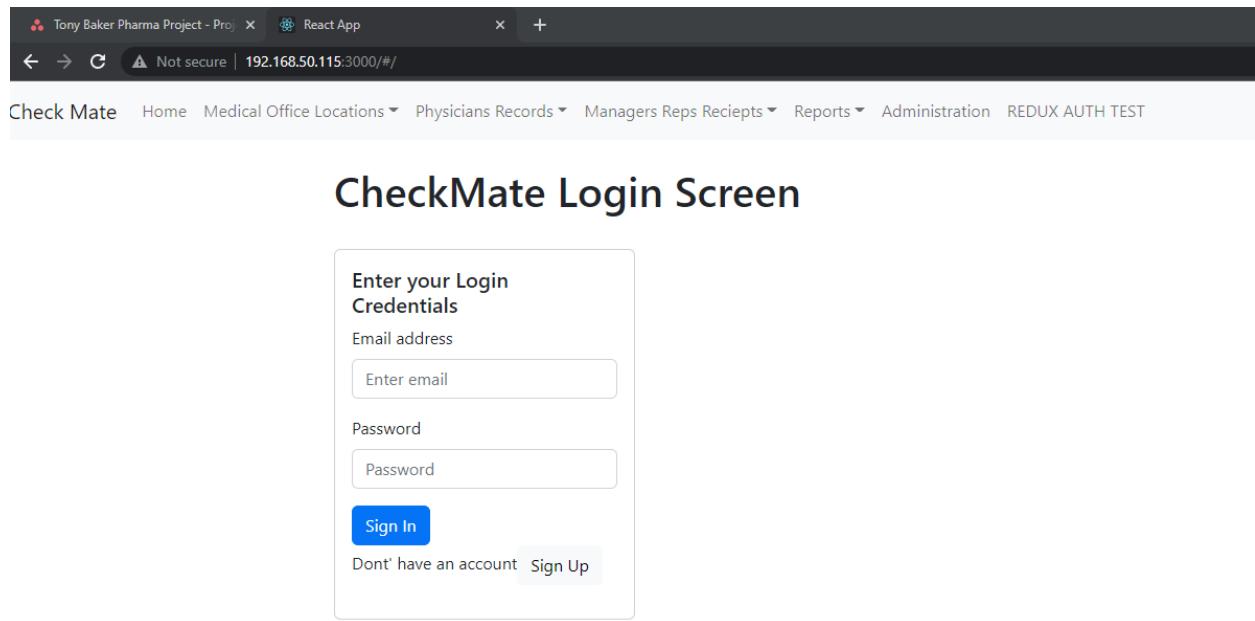
NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
checkmateappv2-container 61911b4c8195	checkmateappv2:latest	Running	3000,5...	13 seconds ago	

And as you can see below, it still has its settings

```
lioneljones@MacBookAirM1 ~ % docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
6191b4c8195 checkmateappv2 "npm run dev" 28 minutes ago Up 21 seconds 0.0.0.0:3000->3000/tcp, 0.0.0.0:5500->5500/tcp checkmateappv2-container
lioneljones@MacBookAirM1 ~ %
```

Then I did a test from my MAC at home:





But it's looking at localhost
Now if you wanted to use the service
This works:

POST http://192.168.50.115:5500/api/pharma/searchPharmaRecord

Body

```

1 {
2   "Name": "Memorial Health",
3   "Email": "mmhealth@gmail.com",
4   "SearchType": "Name"
5 }

```

Body Results

```

1 {
2   "pharma": [
3     {
4       "_id": "63549190fe74bf00a27dcfa5",
5       "Name": "Memorial Health",
6       "Phone": "713-654-0987",
7       "Email": "mmhealth@gmail.com",
8       "Password": "1234567",
9       "Notes": "Good Pharma Company and I will stay employed with them",
10      "__v": 0
11    }
12  ]
13 }

```

But the app itself points to localhost (meaning that it thinks it's looking itself)

Tip: Pushing the image to Docker Public Registry

First you have to tag your image

docker tag checkmateappv2 lionel5116/checkmateappv2:0.1

Then login to docker:

docker login -u lionel5116 docker.io

Then to push to the docker public registry

docker push lionel5116/checkmateappv2:0.1

When you tag the image, it creates another (pointer) to the same image (not a copy)

The screenshot shows the Docker Desktop interface with the 'Images' tab selected. The sidebar on the left includes 'Containers', 'Images' (which is the active tab), 'Volumes', 'Dev Environments (BETA)', 'Extensions (BETA)', and an 'Add Extensions' button. The main area displays a table of local images:

NAME	TAG	IMAGE ID	CREATED	SIZE
assetmgmtsvc	latest	5ed50c8e47cb	18 days ago	902.43 MB
checkmateappv2	IN USE	ed69509d5803	about 19 hours ago	1.4 GB
lionel5116/checkmateap...	IN USE	0.1	ed69509d5803	about 19 hours ago

At the bottom of the interface, there is a status bar showing 'RAM 0.15GB', 'CPU 0.25%', and 'Connected to Hub'. The Docker icon in the top right corner indicates the session is named 'lionel5116'.

```
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
checkmateappv2    latest   ed69509d5803  19 hours ago  1.4GB
lionel/checkmateappv2  0.1     ed69509d5803  19 hours ago  1.4GB
assetmgmtsvc     latest   5ed50c8e47cb  2 weeks ago   902MB
lioneljones@MacBookAirM1 ~ % docker login -u lionel5116 docker.io
Password:
Login Succeeded
lioneljones@MacBookAirM1 ~ % docker untag lionel/checkmateappv2:0.1
docker: 'untag' is not a docker command.
See 'docker --help'
lioneljones@MacBookAirM1 ~ % docker rmi lionel/checkmateappv2:0.1
Untagged: lionel/checkmateappv2:0.1
lioneljones@MacBookAirM1 ~ % docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
checkmateappv2    latest   ed69509d5803  19 hours ago  1.4GB
assetmgmtsvc     latest   5ed50c8e47cb  2 weeks ago   902MB
lioneljones@MacBookAirM1 ~ % docker tag checkmateappv2 lionel5116/checkmateappv2:0.1
lioneljones@MacBookAirM1 ~ % docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
checkmateappv2    latest   ed69509d5803  19 hours ago  1.4GB
lionel5116/checkmateappv2  0.1     ed69509d5803  19 hours ago  1.4GB
assetmgmtsvc     latest   5ed50c8e47cb  2 weeks ago   902MB
lioneljones@MacBookAirM1 ~ % docker push lionel5116/checkmateappv2:0.1
The push refers to repository [docker.io/lionel5116/checkmateappv2]
2c4a7fa73121: Pushed
64dcc1657636: Pushed
2091e71cccc8d: Pushed
e15b8feeff43: Pushed
9fbf4bdec6d0: Pushed
c9fbbbf6830: Pushed
913e305e0b10: Pushed
04ca51e26547: Pushing [=====>]  405.6MB
d6580afbc3a2: Pushed
a96c44365728: Pushed
c74e32b39753: Mounted from library/node
e9c8626e4617: Mounted from library/node
5cb5bc92f68a: Mounted from library/node
f5d56b5764aa: Mounted from library/node
f65d778d2cbb: Mounted from library/node
5e007f0496b2: Mounted from library/node
bb2dc5ff8a7e: Mounted from library/node
2635506b638a: Mounted from library/node
0604d9deb7ea: Mounted from library/node
```

The screenshot shows a Docker Hub repository page for the user 'lionel5116' and the repository 'checkmateappv2'. The page has a light blue header with the URL 'hub.docker.com/repository/docker/lionel5116/checkmateappv2'. Below the header, there are tabs for 'General', 'Tags', 'Builds', 'Collaborators', 'Webhooks', and 'Settings'. The 'General' tab is selected. A callout box in the top left corner says 'Add a short description for this repository' with the note 'The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.' and an 'Update' button. The main content area shows the repository name 'lionel5116 / checkmateappv2'. Under 'Description', it says 'This repository does not have a description' with an edit icon. Below that, it says 'Last pushed: 5 minutes ago'. To the right, under 'Docker commands', it says 'To push a new tag to this repository,' followed by a code block: 'docker push lionel5116/checkmateappv2:tagname'. There is also a 'Public View' button. On the left, under 'Tags and scans', it shows 1 tag: '0.1' (Image type, OS: Alpine). To the right, under 'VULNERABILITY SCANNING - DISABLED', there is an 'Enable' link. On the right, under 'Automated Builds', it says 'Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.' with 'Available with Pro, Team and Business subscriptions.', an 'Upgrade' button, and a 'Learn more' link.

To pull the image

```
docker pull lionel5116/checkmateapp2
```

Tip: Pulling the image to Docker Public Registry (Working with doc exec – python- nano)

To pull the image:

```
docker pull lionel5116/checkmateappv2:0.1
```

Screenshot of Docker Hub repository page for `lione15116/checkmateappv2`:

General Tab:

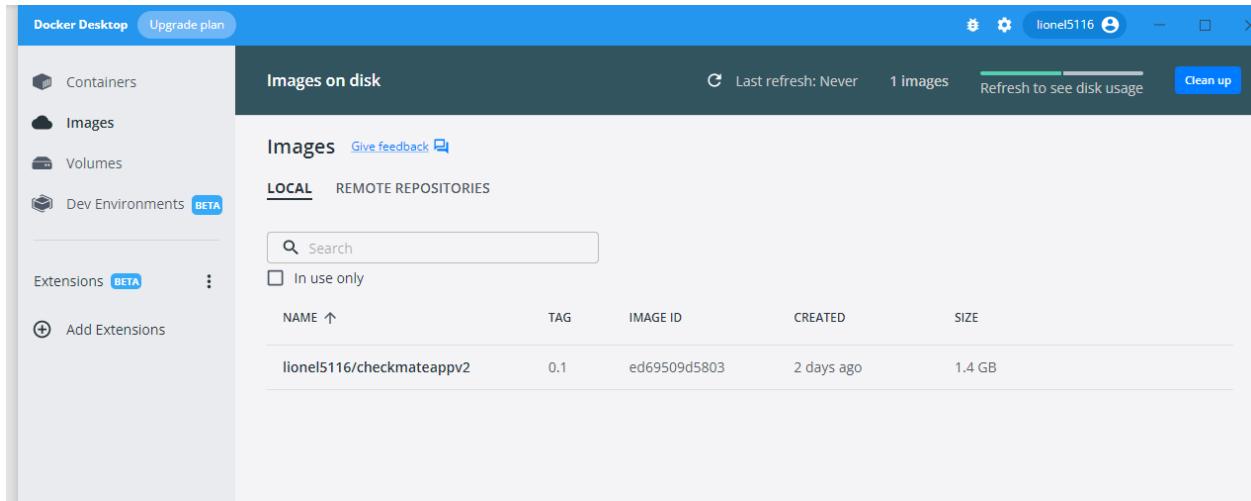
- Description: This is an image that has a good MERN Stack application that I built of a Pharmaceutical Company.
- Docker commands: `docker push lione15116/checkmateappv2:tagname`
- Last pushed: a day ago
- Tags and scans: 1 tag (0.1), OS: Image, Type: Image, Pulled: --, Pushed: a day ago.
- Vulnerability scanning: DISABLED
- Automated Builds: Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
- README: Repository description is empty. Click [here](#) to edit.

Windows PowerShell Window:

```

PS C:\Users\p00149021> docker images
docker: 'imaages' is not a docker command.
See 'docker --help'
PS C:\Users\p00149021> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
PS C:\Users\p00149021> docker containers ps
docker: 'containers' is not a docker command.
See 'docker --help'
PS C:\Users\p00149021> docker container ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
PS C:\Users\p00149021> docker pull lione15116/checkmateappv2:0.1
0.1: Pulling from lione15116/checkmateappv2
3ba81f4c3c21: Pull complete
3f5909aab8ca: Pull complete
a633475baeae: Pull complete
9f22a2b8ddcb: Pull complete
985dd0945ed8: Pull complete
9540207a60ab: Pull complete
47e4d371e7f1: Pull complete
85c724a200e1: Pull complete
9098c6ccf26a: Pull complete
0cf9960a632e: Pull complete
05cd72faafbf1: Pull complete
51a06923f26e: Pull complete
fae0d3e96a11: Pull complete
8dac535b887a: Pull complete
cb3055973173: Pull complete
a35edd3bc176: Pull complete
fc47b1013619: Pull complete
4aa5a056591a: Pull complete
4f0429a0cece: Pull complete
Digest: sha256:286d9d8cb10ab97d505e96a404b3ddc50fb12d7175e0f9c0fa79d0b32dd085d0
Status: Downloaded newer image for lione15116/checkmateappv2:0.1
docker.io/lione15116/checkmateappv2:0.1
PS C:\Users\p00149021> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
lione15116/checkmateappv2  0.1      ed69509d5803  42 hours ago  1.4GB
PS C:\Users\p00149021>

```



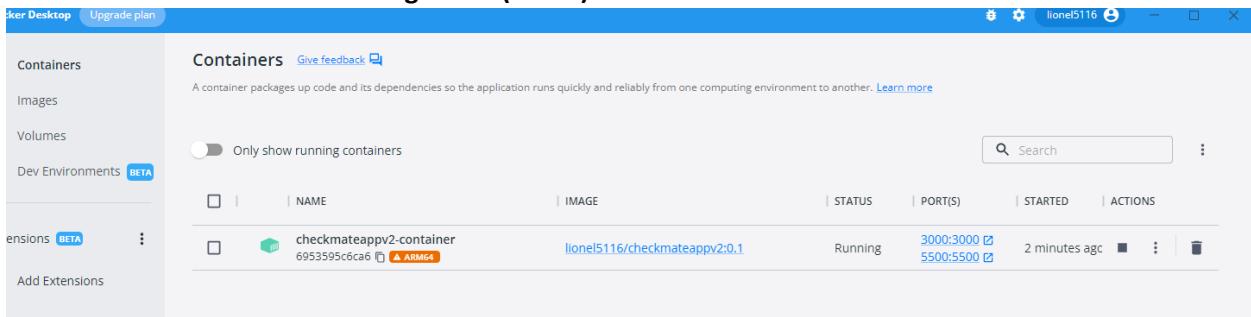
Now all we have to do is run the image

```
docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d
lionel5116/checkmateappv2:0.1
```

```
#D
#ENTRYPOINT ["npm", "start"]
#ENTRYPOINT ["node", "server.js"]
ENTRYPOINT ["npm", "run", "dev"]

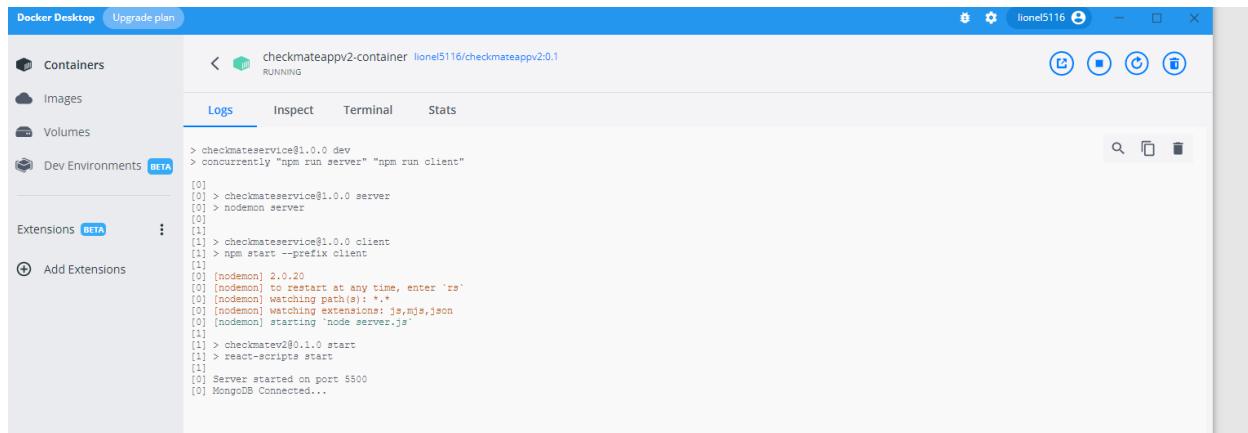
#A T
#B A PS C:\Users\p00149021> docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d lionel5116/checkmateappv2:0.1
#C C d
#D S 6953595c6ca6186cd65ccb845636f38402d7f2ce12261a1aebc0f51c1b96c647
#E - P S C:\Users\p00149021>
#F R
#dock
```

Notice how we had to add the tag name (in red)

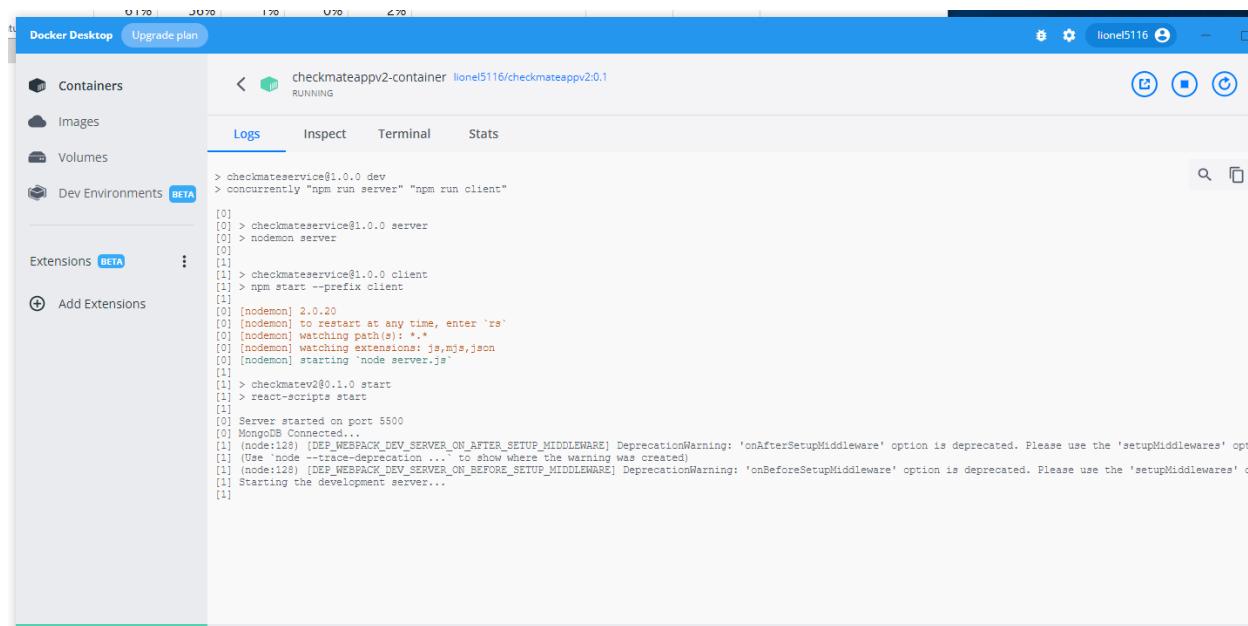


The arm64 indicates that we are running it under and arm64 (because we built it on my arm64 mac)
You can probably specify the processor under a different command.

Now we test:



But it never completed mounted (because of the arm64)



So in a nutshell, if you built it on windows and pushed it out the registry, it would perform normally.

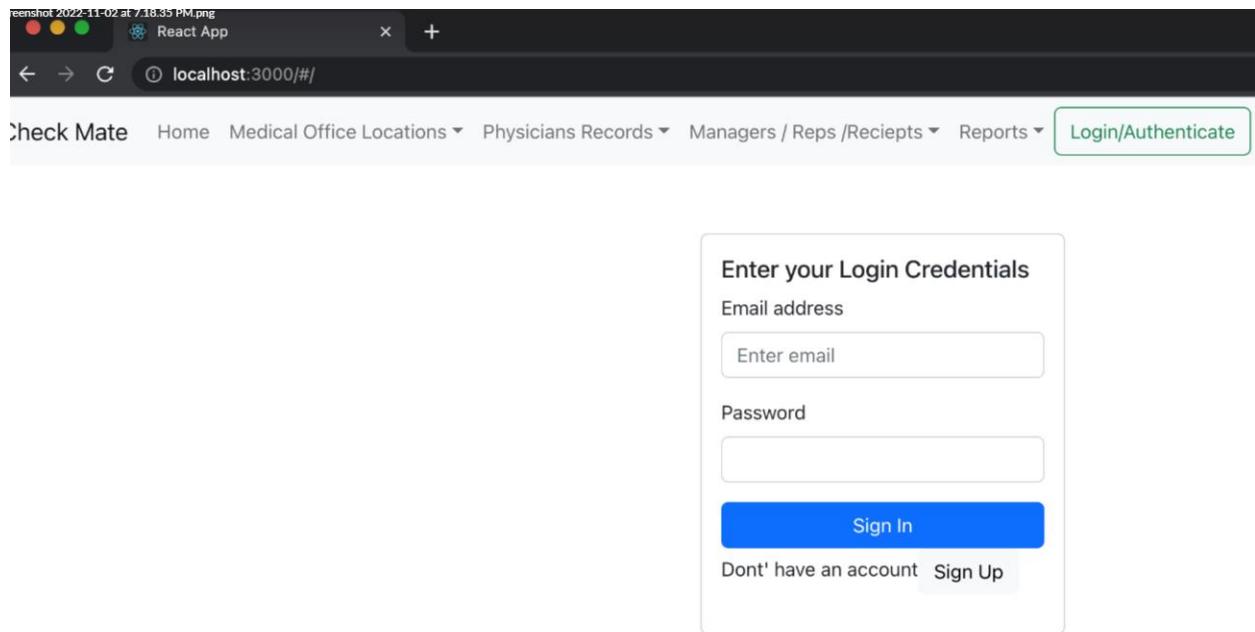
Pulling the image onto my mac

After pulling the image onto my from the registry:

Installed in less than 10 seconds (incredible)

Started the container->lightning fast (ran lightning fast)

```
root@25cd4ed71f9a:/teststuff# python test.py
set(['lionel'])
root@25cd4ed71f9a:/teststuff# exit
exit
lioneljones@MackBookAirM1 ~ % docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
25cd4ed71f9a lionel5116/checkmateappv2:0.1 "npm run dev" 33 minutes ago Up 3 minutes 0.0.0.0:3000->3000/tcp, 0.0.0.0:5500->5500/tcp
lioneljones@MackBookAirM1 ~ % _
```



Unix:

Did a

A screenshot of a terminal window with a dark background. The terminal prompt is "[root@25cd4ed71f9a:/teststuff#". The user runs "python test.py", which outputs "set(['lionel'])". Then they run "exit". The terminal then shows a new prompt: "lioneljones@MackBookAirM1 ~ % docker exec -it 25cd4ed71f9a bash_".

Did a:

apt-get update

```
root@25cd4ed71f9a:/# cd teststuff/
root@25cd4ed71f9a:/teststuff# ls -al
total 12
drwxr-xr-x 2 root root 4096 Nov  3 00:00 .
drwxr-xr-x 1 root root 4096 Nov  2 23:56 ..
-rw-r--r-- 1 root root 122 Nov  2 23:59 test.py
root@25cd4ed71f9a:/teststuff# sudo apt-get update
bash: sudo: command not found
root@25cd4ed71f9a:/teststuff# apt-get update
Hit 1 http://deb.debian.org/debian buster InRelease
Hit 2 http://deb.debian.org/debian-security buster/updates InRelease
Hit 3 http://deb.debian.org/debian buster-updates InRelease
Reading package lists... Done
root@25cd4ed71f9a:/teststuff# _
```

then

apt-get install nano

Then did a nano test.py and placed the contents:



```
GNU nano 3.2

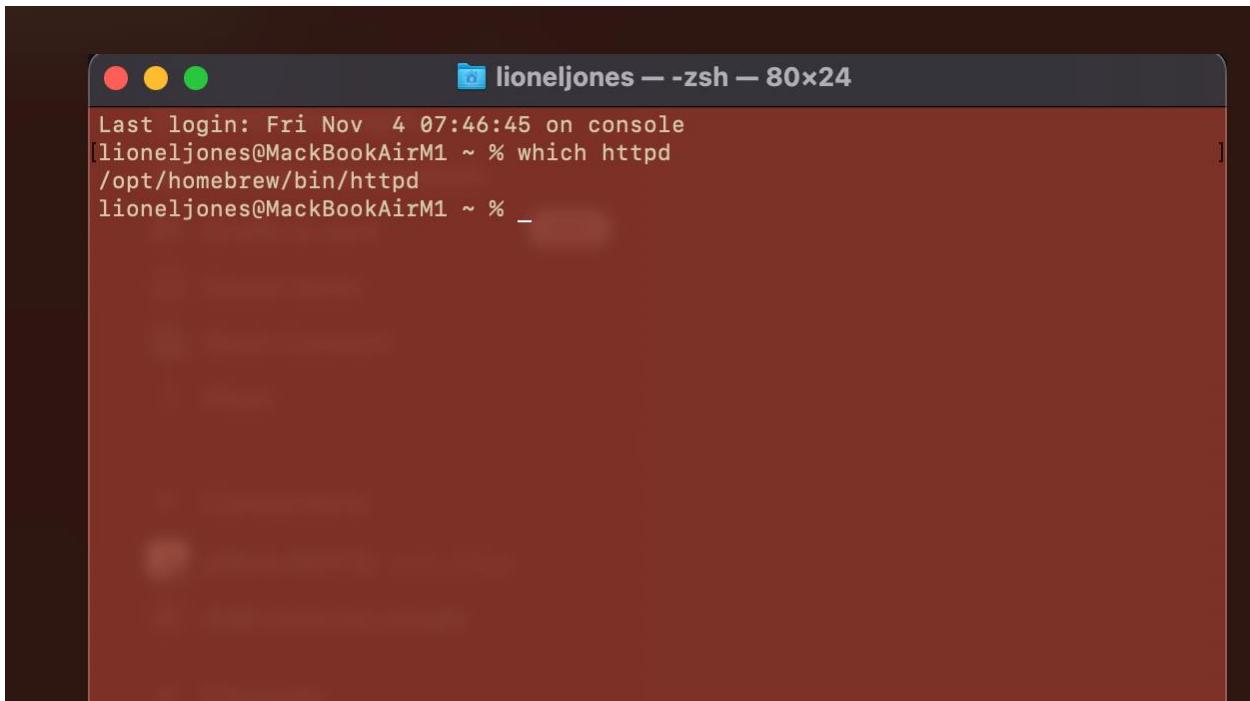
myList = {"lionel", "david", "Katherin"}
myList2 = {"Carol", "vaughn", "lionel"}
xy = myList.intersection(myList2)
print(xy)
```

Then ran the python script.. cool

Tip: Installing a React App with Apache on a MacBook
<https://github.com/lionel5116/CheckMateApp.git>

<https://gist.github.com/ywwwtseng/63c36ccb58a25a09f7096bbb602ac1de>

Find out which version of Apache you are running (this determines where to copy over your files)



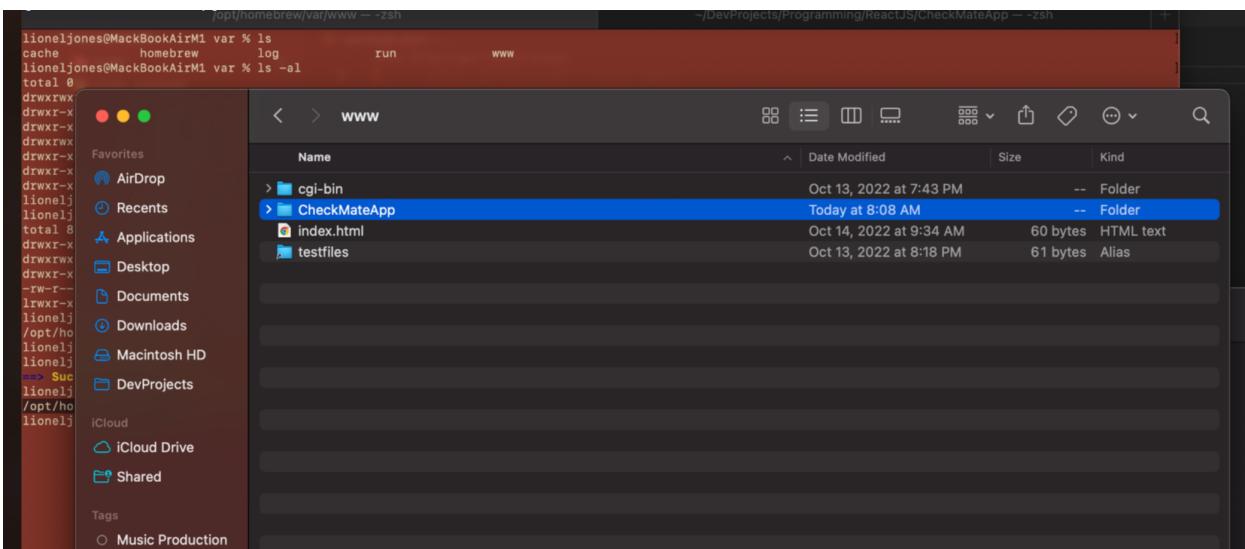
```
Last login: Fri Nov  4 07:46:45 on console
lioneljones@MacBookAirM1 ~ % which httpd
/opt/homebrew/bin/httpd
lioneljones@MacBookAirM1 ~ % _
```

From there you can tell that your www folder is located under:
/opt/homebrew/var/www

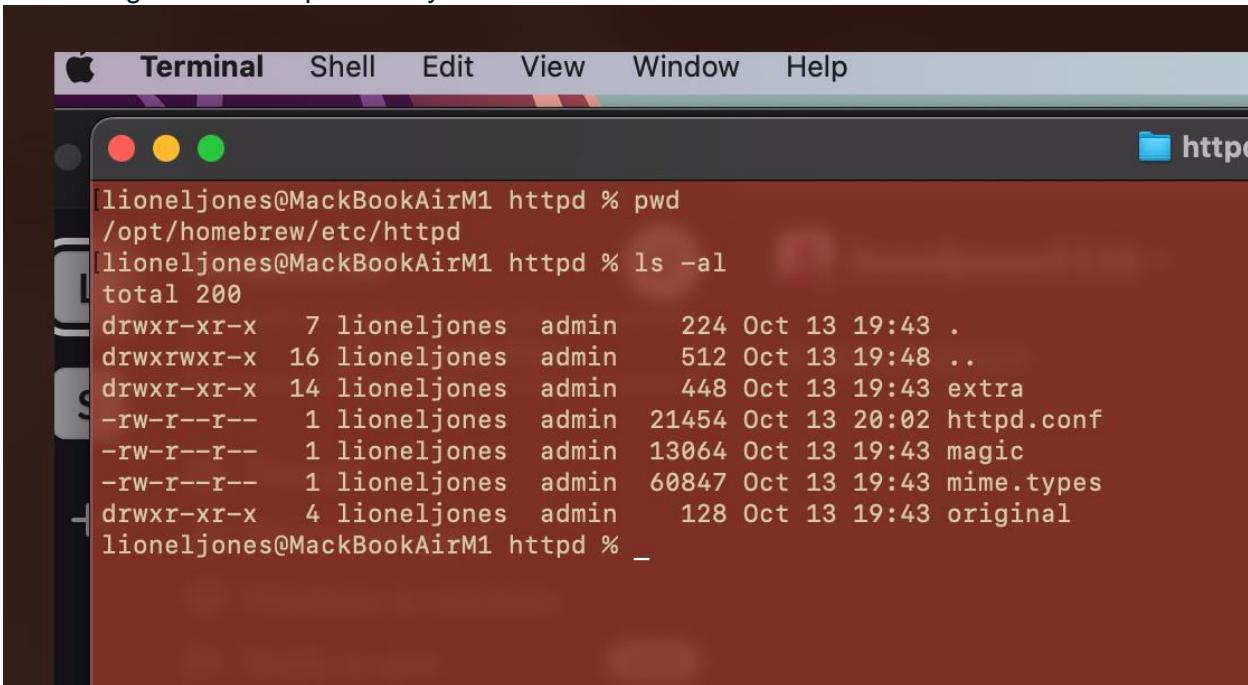
Then
Build your app with npm run build

Copy over your build files to a folder in your wwwroot

```
www -- zsh -- 157x42
lioneljones@MacBookAirM1 var % ls
cache      homebrew    log      run      www
lioneljones@MacBookAirM1 var % ls -al
total 0
drwxrwxr-x  7 lioneljones  admin  224 Oct 13 19:43 .
drwxr-xr-x  32 lioneljones  admin 1024 Nov  1 14:52 ..
drwxr-xr-x  4 lioneljones  admin 128 Oct 13 19:48 cache
drwxrwxr-x  4 lioneljones  admin 128 Oct 13 18:48 homebrew
drwxr-xr-x  4 lioneljones  admin 128 Oct 13 19:48 log
drwxr-xr-x  3 lioneljones  admin  96 Oct 13 19:43 run
drwxr-xr-x  5 lioneljones  admin 160 Oct 13 20:22 www
lioneljones@MacBookAirM1 www % cd www
lioneljones@MacBookAirM1 www % ls -al
total 8
drwxr-xr-x  5 lioneljones  admin 160 Oct 13 20:22 .
drwxrwxr-x  7 lioneljones  admin 224 Oct 13 19:43 ..
drwxr-xr-x  6 lioneljones  admin 192 Oct 13 19:43 cgi-bin
drwxr--r--  1 lioneljones  admin  60 Oct 14 09:34 index.html
drwxr-xr-x  1 lioneljones  admin  61 Oct 13 20:18 testfiles -> /Users/lioneljones/DevProjects/Programming/WebSites/testfiles
lioneljones@MacBookAirM1 www % pwd
/opt/homebrew/var/www
lioneljones@MacBookAirM1 www % nano index.html
lioneljones@MacBookAirM1 www % brew services start httpd
==> Successfully started `httpd` (label: homebrew.mxcl.httpd)
lioneljones@MacBookAirM1 www %
```



Next navigate to the http directory



A screenshot of a Mac OS X Terminal window. The title bar says "Terminal". The window shows a file listing in the "/opt/homebrew/etc/httpd" directory. The output is as follows:

```
[lioneljones@MackBookAirM1 httpd % pwd  
/opt/homebrew/etc/httpd  
[lioneljones@MackBookAirM1 httpd % ls -al  
total 200  
drwxr-xr-x 7 lioneljones admin 224 Oct 13 19:43 .  
drwxrwxr-x 16 lioneljones admin 512 Oct 13 19:48 ..  
drwxr-xr-x 14 lioneljones admin 448 Oct 13 19:43 extra  
-rw-r--r-- 1 lioneljones admin 21454 Oct 13 20:02 httpd.conf  
-rw-r--r-- 1 lioneljones admin 13064 Oct 13 19:43 magic  
-rw-r--r-- 1 lioneljones admin 60847 Oct 13 19:43 mime.types  
drwxr-xr-x 4 lioneljones admin 128 Oct 13 19:43 original  
lioneljones@MackBookAirM1 httpd % _
```

Edit the httpd.conf file:

```
ServerAdmin you@example.com

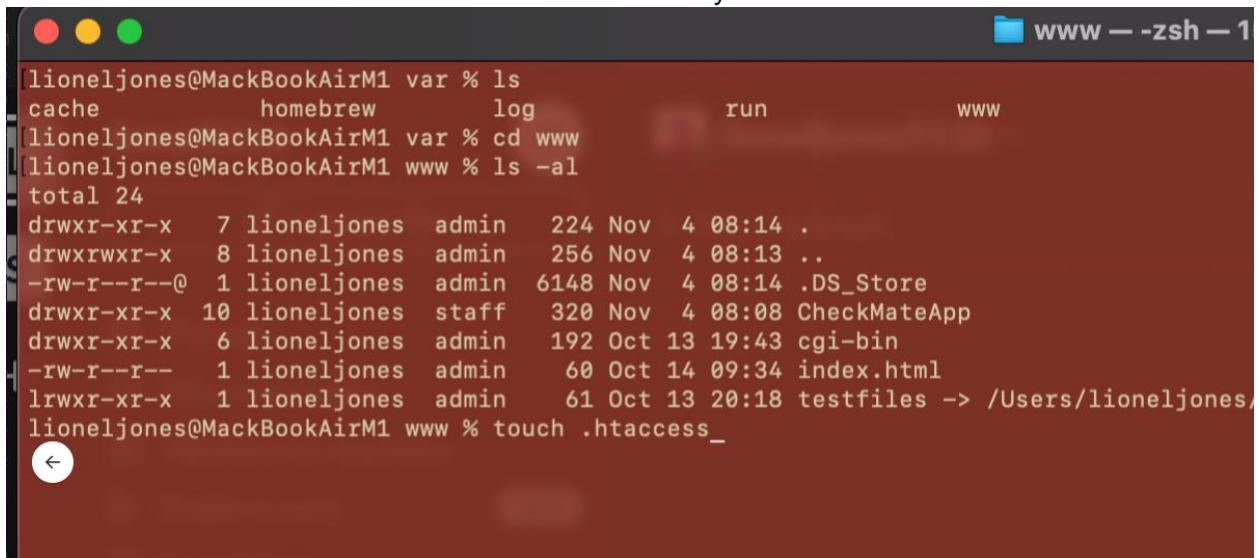
#
# ServerName gives the name and port that the server uses to identify itself.
# This can often be determined automatically, but we recommend you set it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, enter its IP address here.
#
#ServerName www.example.com:8080

#
# Deny access to the entirety of your server's filesystem. You must
# explicitly permit access to web content directories in other
# <Directory> blocks below.
#
<Directory />
    AllowOverride All_
    Require all denied
</Directory>

#
```

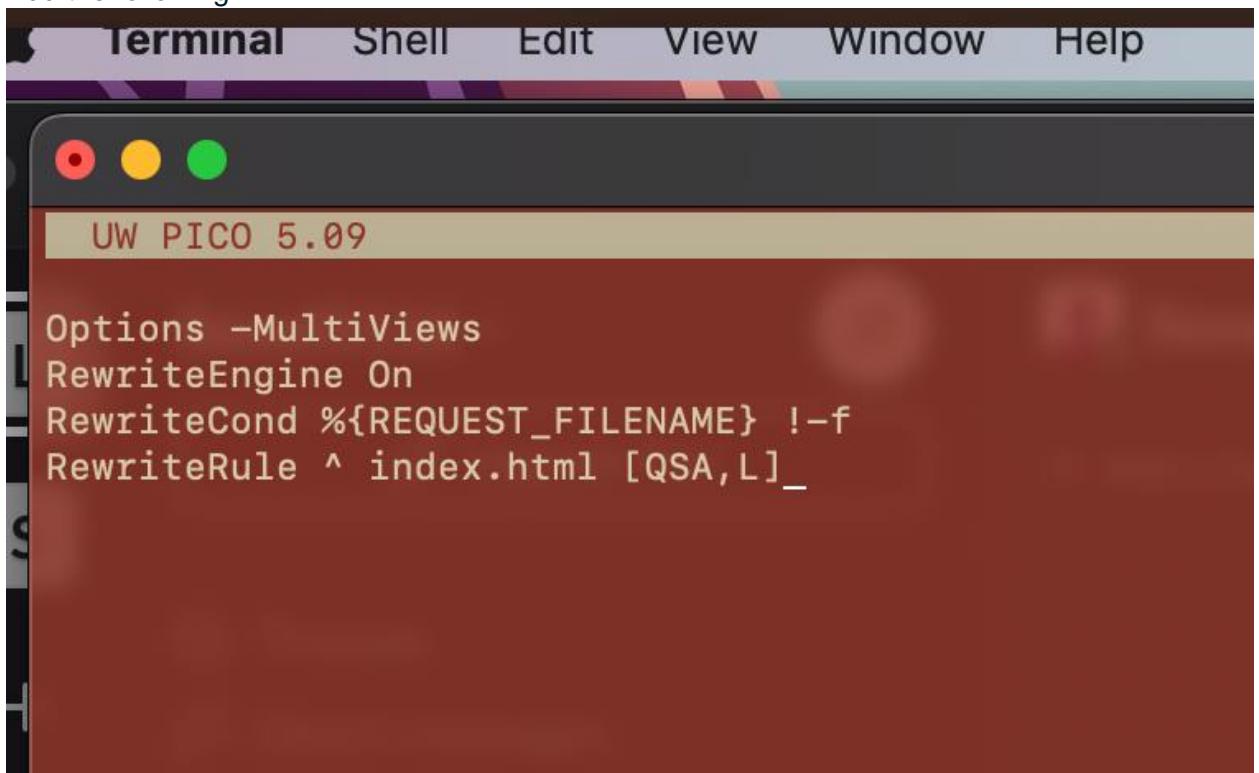
Change the value of AllowOveridde None to All as shown above

Next create a file named .htaccess in the www directory



```
lioneljones@MacBookAirM1 var % ls
cache           homebrew      log          run          www
lioneljones@MacBookAirM1 var % cd www
lioneljones@MacBookAirM1 www % ls -al
total 24
drwxr-xr-x  7 lioneljones  admin   224 Nov  4 08:14 .
drwxrwxr-x  8 lioneljones  admin   256 Nov  4 08:13 ..
-rw-r--r--@  1 lioneljones  admin  6148 Nov  4 08:14 .DS_Store
drwxr-xr-x 10 lioneljones  staff   320 Nov  4 08:08 CheckMateApp
drwxr-xr-x  6 lioneljones  admin  192 Oct 13 19:43 cgi-bin
-rw-r--r--  1 lioneljones  admin   60 Oct 14 09:34 index.html
lrwxr-xr-x  1 lioneljones  admin   61 Oct 13 20:18 testfiles -> /Users/lioneljones/
lioneljones@MacBookAirM1 www % touch .htaccess_
```

Add the following:



```
UW PICO 5.09

Options -MultiViews
RewriteEngine On
RewriteCond %{REQUEST_FILENAME} !-f
RewriteRule ^ index.html [QSA,L]
```

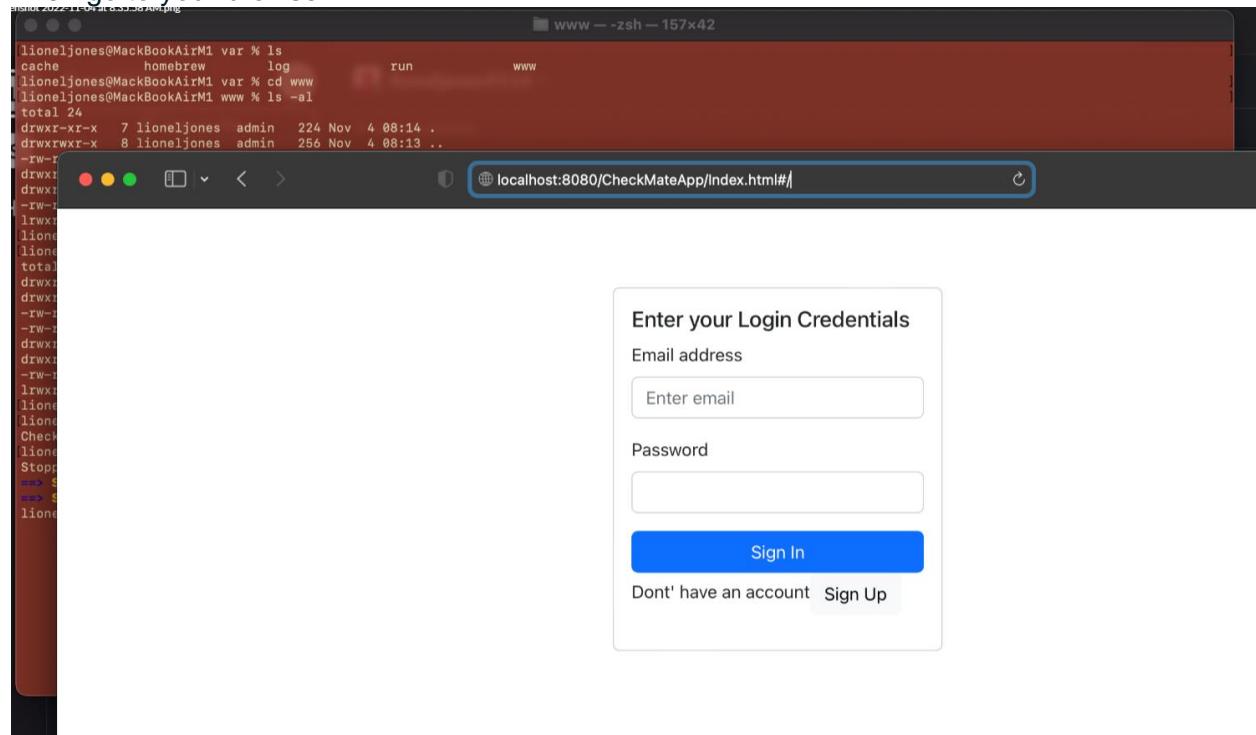
Next Restart Apache

```

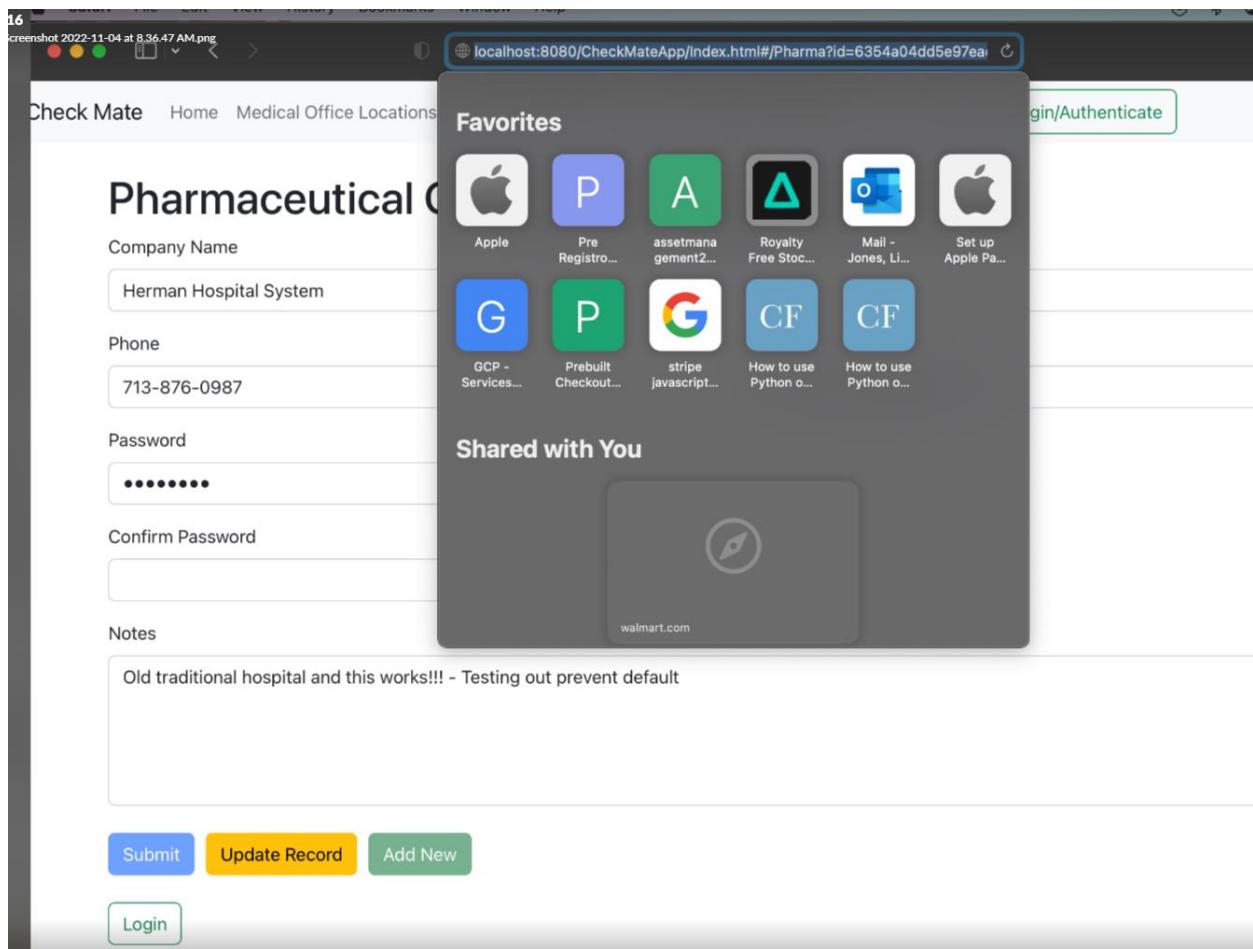
lioneljones@MacBookAirM1 var % cd www
lioneljones@MacBookAirM1 www % ls -al
total 24
drwxr-xr-x  7 lioneljones  admin   224 Nov  4 08:14 .
drwxrwxr-x  8 lioneljones  admin   256 Nov  4 08:13 ..
-rw-r--r--@  1 lioneljones  admin  6148 Nov  4 08:14 .DS_Store
drwxr-xr-x 10 lioneljones  staff   320 Nov  4 08:08 CheckMateApp
drwxr-xr-x  6 lioneljones  admin   192 Oct 13 19:43 cgi-bin
-rw-r--r--@  1 lioneljones  admin   60 Oct 14 09:34 index.html
lrwxr-xr-x  1 lioneljones  admin   61 Oct 13 20:18 testfiles -> /Users/lioneljones/DevProjects/Programming/WebSites/testfiles
lioneljones@MacBookAirM1 www % touch .htaccess
lioneljones@MacBookAirM1 www % ls -al
total 24
drwxr-xr-x  8 lioneljones  admin   256 Nov  4 08:30 .
drwxrwxr-x  8 lioneljones  admin   256 Nov  4 08:13 ..
-rw-r--r--@  1 lioneljones  admin  6148 Nov  4 08:14 .DS_Store
-rw-r--r--@  1 lioneljones  admin    0 Nov  4 08:30 .htaccess
drwxr-xr-x 10 lioneljones  staff   320 Nov  4 08:08 CheckMateApp
drwxr-xr-x  6 lioneljones  admin   192 Oct 13 19:43 cgi-bin
-rw-r--r--@  1 lioneljones  admin   60 Oct 14 09:34 index.html
lrwxr-xr-x  1 lioneljones  admin   61 Oct 13 20:18 testfiles -> /Users/lioneljones/DevProjects/Programming/WebSites/testfiles
lioneljones@MacBookAirM1 www % nano .htaccess
lioneljones@MacBookAirM1 www % ls
CheckMateApp  cgi-bin  index.html  testfiles
lioneljones@MacBookAirM1 www % brew services restart httpd
Stopping `httpd`... (might take a while)
==> Successfully stopped `httpd` (label: homebrew.mxcl.httpd)
==> Successfully started `httpd` (label: homebrew.mxcl.httpd)
lioneljones@MacBookAirM1 www %

```

Then go to your browser:



IT works!!!!



<http://localhost:8080/CheckMateApp/Index.html#/Login>

Tip: FINALLY TO THE CREATE REACT APP TO WORK WHEN DEPLOYING TO IIS (WITHOUT WEBPACK)

IT'S ALSO OUT ON GITHUB UNDER CHECKMATEAPP

See the fix below:

```

{
  "name": "checkmateapp",
  "version": "0.1.0",
  "private": true,
  "homepage": ".",
  "dependencies": {
    "testing-library/jest-dom": "^5.16.5",
    "testing-library/react": "^13.4.0",
    "testing-library/user-event": "^13.5.0",
    "axios": "^1.1.3",
    "bootstrap": "^5.2.2",
    "env-cmd": "^10.1.0",
    "moment": "^2.29.4",
    "react": "^18.2.0",
    "react-bootstrap": "^5.0.0",
    "react-bootstrap-icons": "^1.9.1",
    "react-bootstrap-table": "^4.3.1",
    "react-bootstrap-table-next": "^4.8.3",
    "react-bootstrap-table2-filter": "^1.3.3",
    "react-bootstrap-table2-paginator": "^2.1.2",
    "react-bootstrap-table2-toolkit": "^2.1.3",
    "react-dom": "^18.2.0",
    "react-moment": "^1.1.2",
    "react-redux": "^8.0.4",
    "react-router": "^5.2.0",
    "react-router-dom": "^5.3.4",
    "react-scripts": "5.0.1",
    "redux": "^4.2.0",
    "redux-devtools-extension": "^2.13.9",
    "redux-thunk": "^2.4.1",
    "uuid": "^9.0.0",
    "web-vitals": "^2.1.4"
  },
  "scripts": {
    "start": "react-scripts start",
    "build": "react-scripts build"
  }
}

```

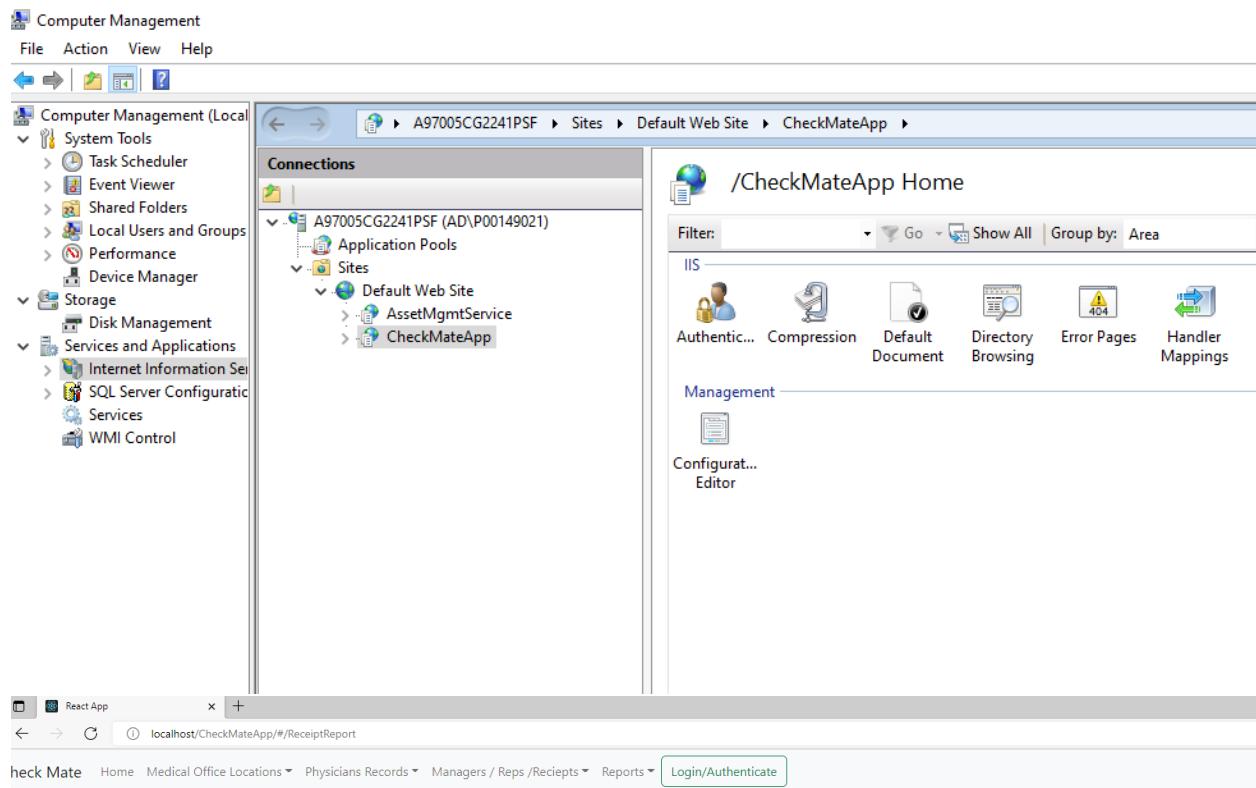
In your package.json file, add an entry for homepage:
homepage: “.”

```

<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <link rel="icon" href="./favicon.ico" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta name="description" content="Web site created using create-react-app" />
    <link rel="apple-touch-icon" href="./logo192.png" />
    <link rel="manifest" href="./manifest.json" />
    <title>React App</title>
    <script defer="defer" src="/static/js/main.45a44133.js"></script>
    <link href="/static/css/main_b938ba3c.css" rel="stylesheet">
  </head>
  <body><noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>
  </body>
</html>

```

On the default build, it does not have the ./ , it has / and that's an absolute path, we need the ./ . After we put this in our file and re-build (npm run build) and deploy,
It works!!!!!!



Receipt Report

Enter Search Criteria

Date	Rep	Restaurant	Amount	SharedAmount	Doctors
9/12/2022	Michaels David	Hugos Fine Fish	350	0	Dr Larry Shaw
10/12/2022	Goode Karle	Papas Steak House	567	200	Mark Roberts, Carl Stone MD

Showing rows 1 to 2 of 2

1

Export to CSV

ON GITHUB:

The screenshot shows the VS Code interface. On the left is the Explorer sidebar with project files like .env, package.json, README.md, and several PDF files. The main area shows the package.json file with its contents:

```

{
  "name": "checkmateapp",
  "version": "0.1.0",
  "private": true,
  "homepage": "https://github.com/lionel5116/CheckMateApp",
  "dependencies": {
    "testing-library/jest-dom": "^5.16.5",
    "testing-library/react": "^13.4.0",
    "testing-library/user-event": "^13.5.0",
    "axios": "^1.1.3",
    "bootstrap": "~5.2.2",
    "env-cmd": "~10.1.0",
    "moment": "~2.29.4",
    "react": "~18.2.0",
    "react-bootstrap": "~2.5.0",
    "react-bootstrap-table": "~4.1.1",
    "react-bootstrap-table-next": "~4.0.3",
    "react-bootstrap-table2-filter": "~1.3.3",
    "react-bootstrap-table2-pagination": "~2.1.2",
    "react-bootstrap-table2-toolkit": "~2.1.3",
    "react-dom": "~18.2.0",
    "react-moment": "~1.1.2",
    "react-redux": "~8.0.4",
    "react-router": "~6.2.0",
    "react-router-dom": "~5.3.4",
    "react-scripts": "5.0.1",
    "redux": "~4.2.0",
    "redux-devtools-extension": "~2.13.9",
    "redux-thunk": "~2.4.1",
    "uuid": "~9.0.0",
    "web-vitals": "~2.1.4"
  },
  "scripts": {
    "start": "node scripts/start"
  }
}

```

The terminal at the bottom shows the command being run:

```

create mode 100644 src/reportWebVitals.js
create mode 100644 src/setupTests.js
create mode 100644 src/store/Store.js
PS C:\Dev\Projects\Programming\React\CheckMateApp> git remote add origin https://github.com/lionel5116/CheckMateApp.git
PS C:\Dev\Projects\Programming\React\CheckMateApp> git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/lionel5116/CheckMateApp.git'
PS C:\Dev\Projects\Programming\React\CheckMateApp> git push -u origin master
Enumerating objects: 94, done.
Counting objects: 100% (94/94), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (85/85), done.
Writing objects: 100% (94/94), done.
Total 94 (delta 42), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (12/12), done.
To https://github.com/lionel5116/CheckMateApp.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
PS C:\Dev\Projects\Programming\React\CheckMateApp>

```

The screenshot shows a GitHub repository page for 'CheckMateApp' owned by 'lionel5116'. The page includes the following sections:

- Code**: Shows the master branch with 1 commit by 'Jones and Jones' first commit, pushed 2 minutes ago.
- Issues**, **Pull requests**, **Actions**, **Projects**, **Wiki**, **Security**, **Insights**, **Settings**
- About**: Describes the app as deployed to Heroku and running well in IIS.
- Readme**, **0 stars**, **1 watching**, **0 forks**.
- Releases**: No releases published. Create a new release.
- Packages**: No packages published. Publish your first package.

Tip: Deploying a reactjs app to Azure

<https://portal.azure.com/>

I used my BA Essentials Card

First (After you have signed up for the free plan)

First you have to go to the portal and create app service

Go the burger menu and select – Create an app service

The screenshot shows the Microsoft Azure portal interface. On the left, there is a dark sidebar with a white header containing 'Home - Microsoft Azure', 'Quickstart Center - Microsoft Azure', and 'Microsoft account security code'. Below the header, the sidebar has a 'Create a resource' button and a list of services: Home, Dashboard, All services, Favorites, All resources, Resource groups, App Services, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Microsoft Defender for Cloud, Help + support, and Cost Management + Billing. A red arrow points from the text 'Select – Create an app service' to the 'Create a resource' button. The main content area has a title 'Upgrade' at the top right. It features a search bar with 'Search resources, services, and docs (G+ /)'. Below the search bar, there is a 'Create' button highlighted with a red underline. To the right of the 'Create' button, there is a 'View' button. The main content area contains several cards: 'App Services' (with a blue globe icon), 'Machine learning in the cloud' (with a green icon), and 'Deploy and run a container-based app' (with a blue cube icon). Each card has a 'Start >' button. The 'App Services' card also includes a 'Description' section and three 'Free training from Microsoft' links: 'Host a web application with Azure App service...', 'Deploy and run a containerized web app with...', and 'Scale an App Service web app to efficiently ...'. A red arrow also points from the text 'Select – Create an app service' to the 'Create' button in the 'App Services' card.

Enter details below:

Create Web App

Subscription * ⓘ

Resource Group * ⓘ
[Create new](#)

Instance Details

Need a database? [Try the new Web + Database experience.](#) ↗

Name *
.azurewebsites.net

Publish * Code Docker Container Static Web App

Runtime stack *

Operating System * Linux Windows

Region *
⚠ Not finding your App Service Plan? Try a different region or select your App Service Environment.

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
[Learn more](#) ↗

Windows Plan (Central US) * ⓘ
[Create new](#)

Pricing plan * **Free F1**
Shared infrastructure, 1 GB memory

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed [Learn more](#) ↗

Zone redundancy **Enabled:** Your App Service plan and the apps in it will be zone redundant

[Review + create](#)

[< Previous](#)

[Next : Deployment >](#)

CheckMateApp.azurewebsites.net

Leave the next section disabled

Create Web App

Basics Deployment Networking Monitoring Tags Review + create

Enable GitHub Actions to continuously deploy your app. GitHub Actions is an automation framework that can build, test, and deploy your app whenever a new commit is made in your repository. If your code is in GitHub, choose your repository here and we will add a workflow file to automatically deploy your app to App Service. If your code is not in GitHub, go to the Deployment Center once the web app is created to set up your deployment. [Learn more ↗](#)

GitHub Actions settings

Continuous deployment

Disable Enable

GitHub Actions details

Select your GitHub details, so Azure Web Apps can access your repository.

GitHub account	<input type="button" value="Authorize"/>
Organization	<input type="button" value="Select organization"/> 
Repository	<input type="button" value="Select repository"/> 
Branch	<input type="button" value="Select branch"/> 

Workflow configuration

File with the GitHub Actions workflow configuration.

 Complete the Basics tab and the form above to preview the GitHub Actions workflow file.

Leave all the other sections disabled as well, just go over to review+ create

Create Web App

...

Basics Deployment Networking Monitoring Tags **Review + create**

Summary



Web App
by Microsoft

Free sku

Estimated price - Free

Details

Subscription	7622a2e6-90e9-45ef-99d9-0a51a853e45c
Resource Group	CheckMateResourceGroup
Name	CheckMateApp
Publish	Code
Runtime stack	ASP.NET V4.8

App Service Plan (New)

Name	ASP-CheckMateResourceGroup-bd36
Operating System	Windows
Region	Central US
SKU	Free
ACU	Shared infrastructure
Memory	1 GB memory

Monitoring (New)

Application Insights	Enabled
Name	CheckMateApp
Region	Central US

Deployment

Continuous deployment	Not enabled / Set up after app creation
-----------------------	---

Create

< Previous

Next >

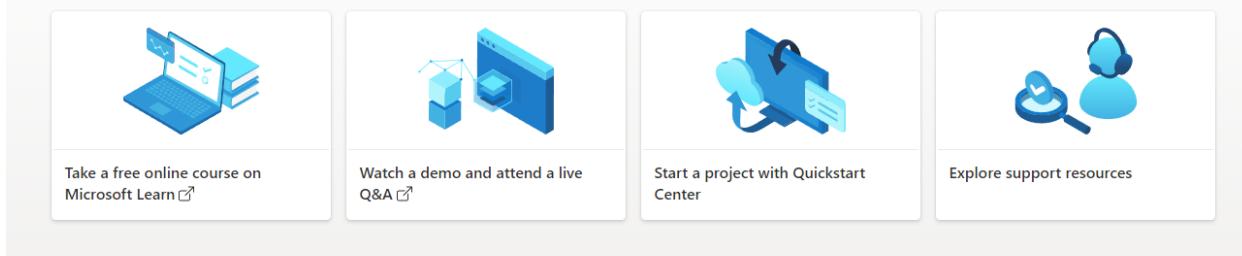
Download a template for automation

Just hit create

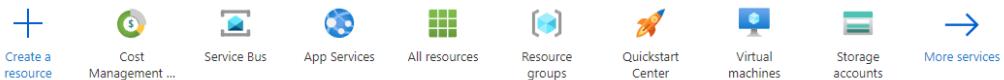
Once deployed, go to the dashboard

Hi lionel, see what more you can get from your Azure free account.

[View remaining credit](#) to try any service, or [browse free services](#) included with your account.



Azure services



Resources

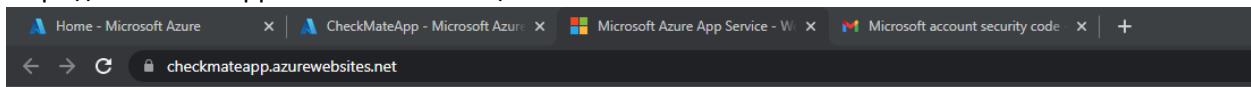
Recent Favorite

Name	Type	Last Viewed
CheckMateApp	App Service	a few seconds ago
CheckMateResourceGroup	Resource group	a few seconds ago

[See all](#)

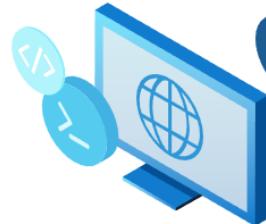
The screenshot shows the Microsoft Azure portal interface for the 'CheckMateApp' App Service. The top navigation bar includes 'Home >', a search bar, and user information ('lioneljones DEFAULT'). The main content area has tabs for 'Overview', 'Deployment', 'Settings', and 'Essentials'. The 'Overview' tab is selected, showing application insights, deployment slots, and monitoring charts. The 'Essentials' tab displays resource group details, app service plan, and deployment logs. The 'Deployment' tab shows deployment slots and center. The 'Settings' tab includes configuration, authentication, application insights, identity, backups, custom domains, TLS/SSL settings, certificates, networking, scaling, and scaling out options. The 'Monitoring' section shows application insights for 'Http 5xx', 'Data In', and 'Data Out' over time.

<https://checkmateapp.azurewebsites.net/>



Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



 Supporting Node.js, Java, .NET and more

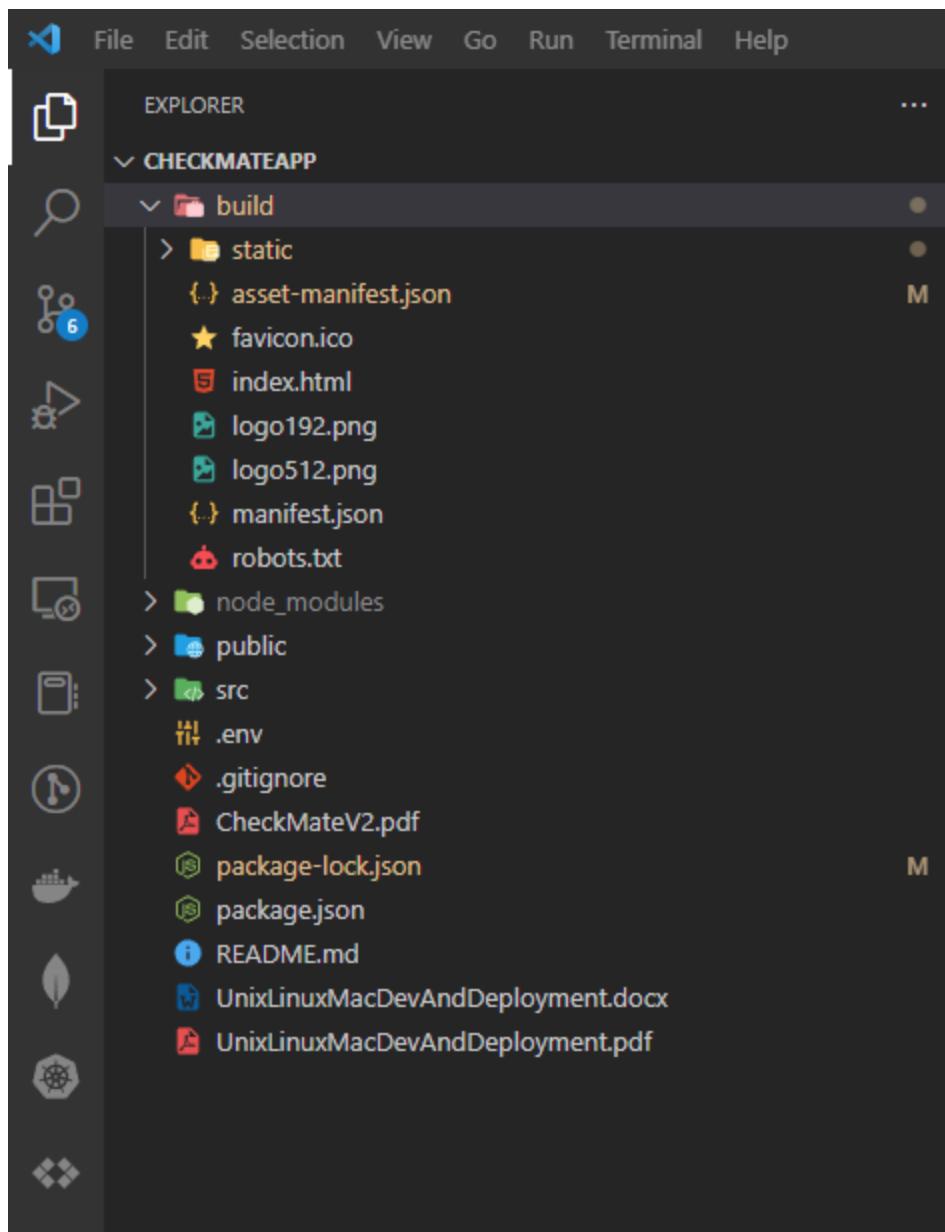
Haven't deployed yet?
Use the deployment center to publish code or
set up continuous deployment.

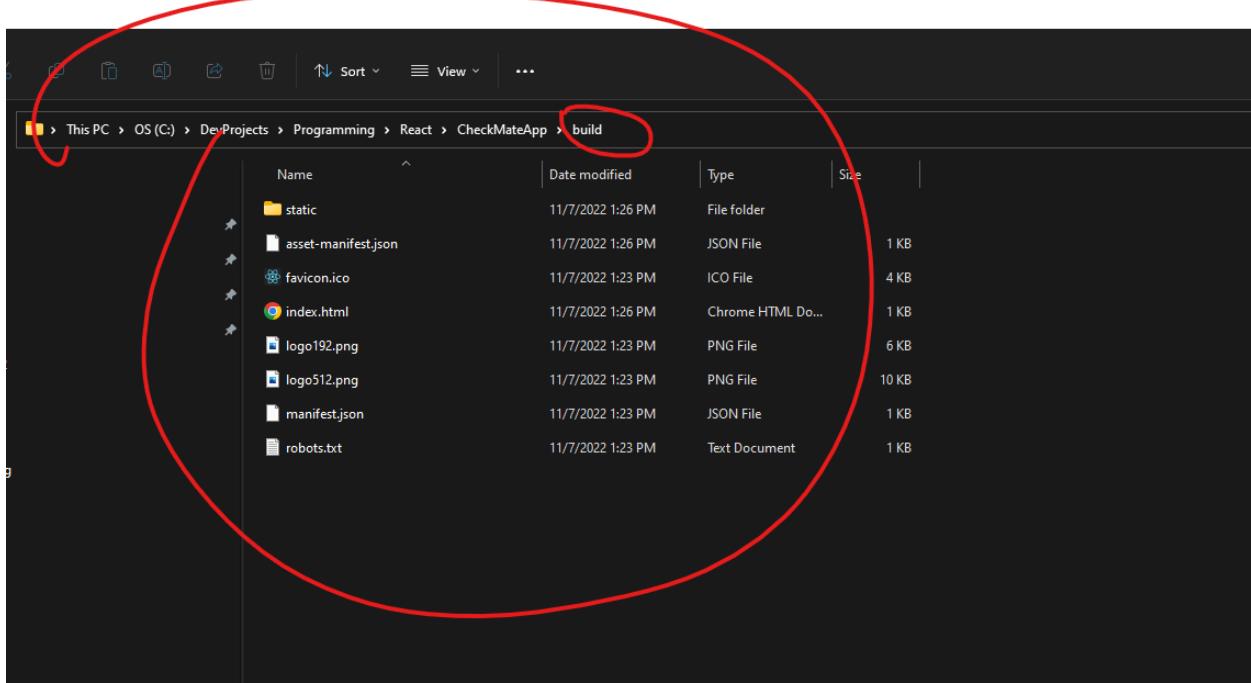
Starting a new web site?
Follow our Quickstart guide to get a web app
ready quickly.

[Deployment center](#)

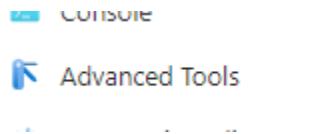
[Quickstart](#)

Next go to VSCode and build your app (npm run build)





Next go the portal. Select advanced tools:



Select Powershell or cmd under the debug console

websites.net/DebugConsole/rshell=powershell

Kudu Environment Debug console ▾ Process explorer Tools ▾ Site extensions

/ + | 2 items | ⌂ ⌂

	Name	Modified	Size
🕒	LogFiles	11/7/2022, 1:44:54 PM	
🕒	site	11/7/2022, 1:48:36 PM	

▼ ▲

PS C:\home>



resnet|DebugConsole|shell=powershell

Kudu Environment Debug console ▾ Process explorer Tools ▾ Site extensions

... / wwwroot + | 8 items | ⌂ ⌃ ⌚ ⌚

	Name	Modified	Size
📄	static	11/7/2022, 1:52:35 PM	
📄	asset-manifest.json	11/7/2022, 1:52:36 PM	1 KB
📄	favicon.ico	11/7/2022, 1:52:37 PM	4 KB
📄	index.html	11/7/2022, 1:52:37 PM	1 KB
📄	logo192.png	11/7/2022, 1:52:37 PM	6 KB
📄	logo512.png	11/7/2022, 1:52:37 PM	10 KB
📄	manifest.json	11/7/2022, 1:52:37 PM	1 KB

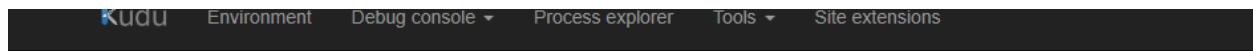
ls

Directory: C:\home\site\wwwroot

Mode	LastWriteTime	Length	Name
d----	11/7/2022 7:52 PM		static
-a---	11/7/2022 7:52 PM	524	asset-manifest.json
-a---	11/7/2022 7:52 PM	3870	favicon.ico
-a---	11/7/2022 7:52 PM	649	index.html
-a---	11/7/2022 7:52 PM	5347	logo192.png
-a---	11/7/2022 7:52 PM	9664	logo512.png
-a---	11/7/2022 7:52 PM	517	manifest.json
-a---	11/7/2022 7:52 PM	70	robots.txt

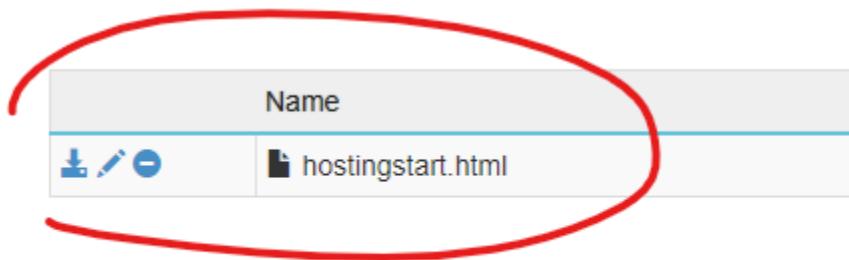
PS C:\home\site\wwwroot>

Click on site, wwwroot



```
PS C:\home>
cd "C:\home\site"
PS C:\home\site>
cd "C:\home\site\wwwroot"
PS C:\home\site\wwwroot>
```

Remove the default file



Then drag your files from explorer (your build folder to the wwwroot folder)

Kudu Environment Debug console ▾ Process explorer Tools ▾ Site extensions

... / wwwroot + | 8 items |

Name	Modified	Size
static	11/7/2022, 1:52:35 PM	
asset-manifest.json	11/7/2022, 1:52:36 PM	1 KB
favicon.ico	11/7/2022, 1:52:37 PM	4 KB
index.html	11/7/2022, 1:52:37 PM	1 KB
logo192.png	11/7/2022, 1:52:37 PM	6 KB
logo512.png	11/7/2022, 1:52:37 PM	10 KB
manifest.json	11/7/2022, 1:52:37 PM	1 KB

```
PS C:\home\site\wwwroot> pwd
pwd

Path
-----
C:\home\site\wwwroot

PS C:\home\site\wwwroot>
```

Now browse

<https://checkmateapp.azurewebsites.net/#/>

Home - Microsoft Azure CheckMateApp - Microsoft Azure React App Diagnostic Console

→ checkmateapp.azurewebsites.net/#/

Enter your Login Credentials

Email address

Password

[Sign In](#)

Dont' have an account [Sign Up](#)

The screenshot shows a Microsoft Azure browser window with four tabs open: "Home - Microsoft Azure", "CheckMateApp - Microsoft Azure", "React App", and "Diagnostic Console". The main content area displays a web application titled "Pharmaceutical Company Management Screen". The application has a form with fields for Company Name (Herman Hospital System), Phone (713-876-0987), Email (corsonmemorial@gmail.com), Password (*****), Confirm Password (empty), and Notes (Old traditional hospital and this works!!! - Testing out prevent default). Below the form are buttons for "Submit" (blue), "Update Record" (orange), "Add New" (green), and "Login" (green).

Check Mate Home Medical Office Locations Physicians Records Managers / Reps /Receipts Reports Login/Authenticate

Pharmaceutical Company Management Screen

Company Name
Herman Hospital System

Phone
713-876-0987

Email
corsonmemorial@gmail.com

Password

Confirm Password

Notes
Old traditional hospital and this works!!! - Testing out prevent default

Submit Update Record Add New

Login

Tip: Deploying a nodejs app to Azure

First create a new app/resource on Azure

Microsoft Azure [Upgrade](#) Search resources, services, and docs (G+)

Home > Create a resource >

Create Web App

Subscription * Free Trial

Resource Group * (New) CheckMateServiceResourceGroup [Create new](#)

Instance Details

Need a database? [Try the new Web + Database experience.](#)

Name * CheckMateService [.azurewebsites.net](#)

Publish * Code Docker Container Static Web App

Runtime stack * Node 16 LTS

Operating System * Linux Windows

Region * Central US
Not finding your App Service Plan? Try a different region or select your App Service Environment.

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
[Learn more](#)

Linux Plan (Central US) * (New) ASP-CheckMateServiceResourceGroup-94b6 [Create new](#)

Pricing plan * **Basic B1**
100 total ACU, 1.75 GB memory
[Change size](#)

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed [Learn more](#)

[Review + create](#) [< Previous](#) [Next : Deployment >](#)

← → C portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure [Upgrade](#) Search resources, services, and

Home > Create a resource >

Create Web App

Basics Deployment Networking Monitoring Tags [Review + create](#)

Summary

 **Web App**
by Microsoft

Basic (B1) sku
Estimated price - 13.14 USD/Month

Details

Subscription	7622a2e6-90e9-45ef-99d9-0a51a853e45c
Resource Group	CheckMateServiceResourceGroup
Name	CheckMateService
Publish	Code
Runtime stack	Node 16 LTS

App Service Plan (New)

Name	ASP-CheckMateServiceResourceGroup-94b6
Operating System	Linux
Region	Central US
SKU	Basic
Size	Small
ACU	100 total ACU
Memory	1.75 GB memory

Monitoring

Application Insights	Not enabled
----------------------	-------------

Deployment

Continuous deployment	Not enabled / Set up after app creation
-----------------------	---

[Create](#) [< Previous](#) [Next >](#) Download a template for automation

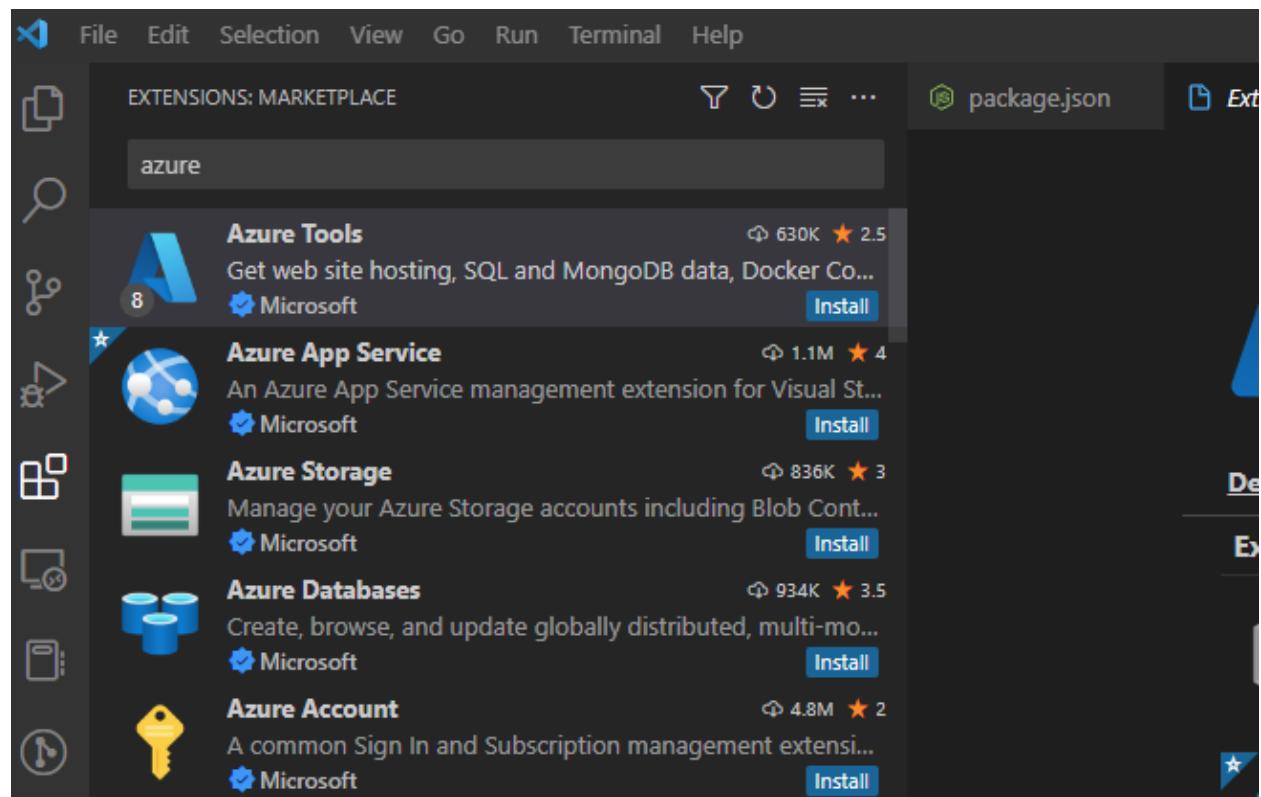
Resources

Recent Favorite

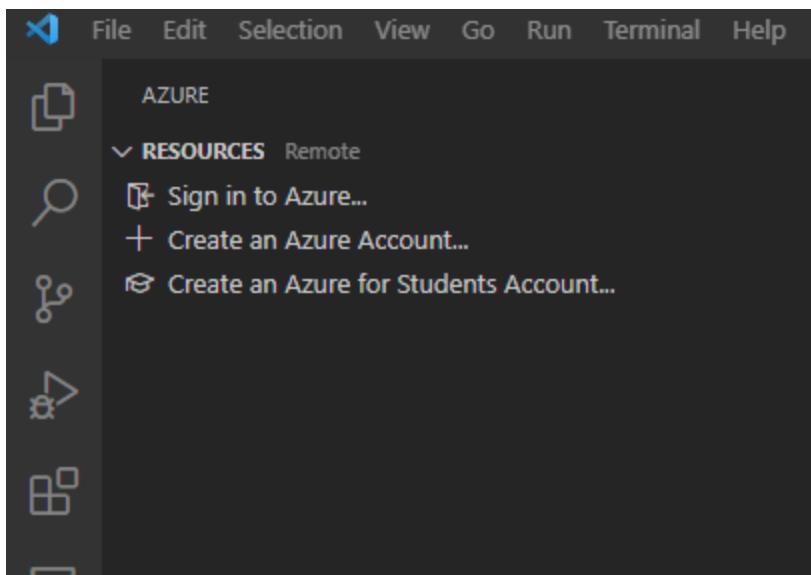
Name	Type	Last Viewed
CheckMateService	App Service	a few seconds ago
CheckMateServiceResourceGroup	Resource group	a few seconds ago
CheckMateApp	App Service	3 hours ago
CheckMateResourceGroup	Resource group	3 hours ago

[See all](#)

First install the Azure Tools for Visual studio



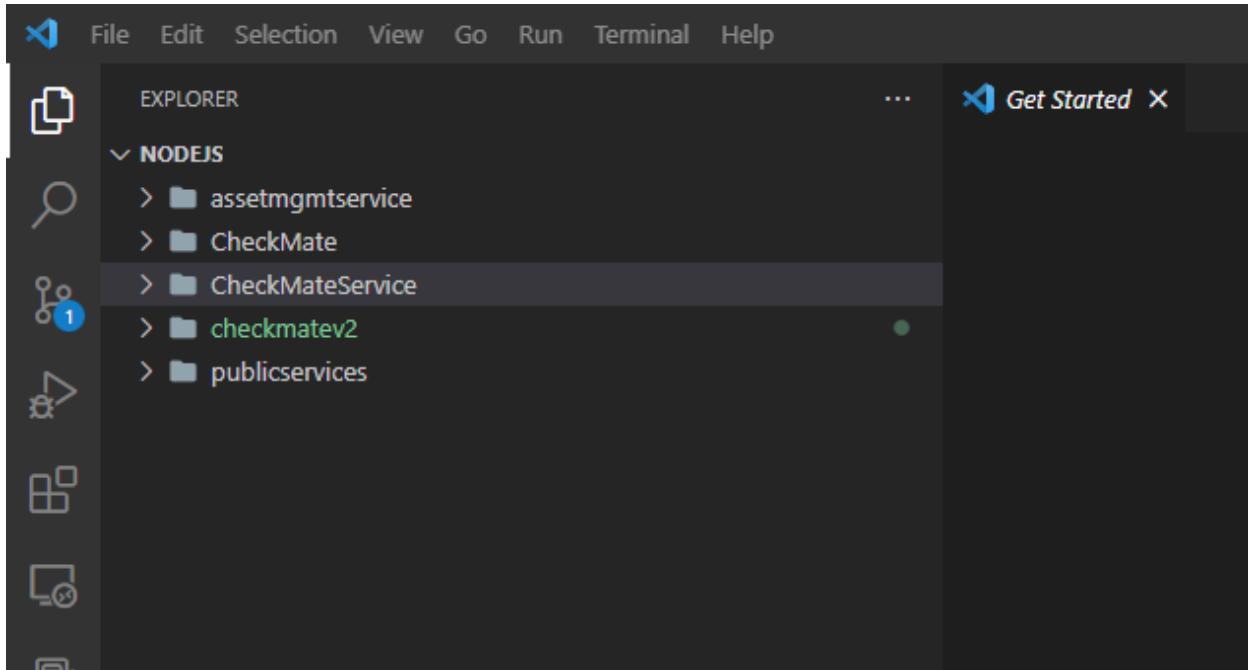
Afterwards, sign into azure



The screenshot shows the Azure DevOps interface. On the left is a sidebar with various icons for different services: CI/CD, Test Management, Pipelines, Artifacts, and more. The main area has a dark theme with a light gray header bar. The header includes the Azure logo, File, Edit, Selection, View, Go, Run, Terminal, Help, and a three-dot menu. Below the header is a toolbar with icons for Refresh, Save, Undo, Redo, Copy, Paste, Find, Replace, and Delete. The main content area is divided into two panes. The left pane is titled "AZURE" and shows a hierarchical list of resources under "RESOURCES Remote". The "CheckMateService" node is selected and highlighted in blue. The right pane shows a code editor for a file named "server.js". The code is a Node.js application for an Azure App Service. It defines a connection to a PostgreSQL database, initializes the app, and sets up routes for primary and secondary databases. The code is numbered from 1 to 30.

```
CheckMateService
p001490
1 const
2 const
3 const
4 const
5
6 const
7
8 //Conn
9 connect
10
11 //Init
12 //http
13 app.us
14
15 app.us
16 or
17 me
18 });
19
20 //app.
21
22 //defi
23
24 //http
25 app.us
26
27 //prim
28 //http
29 app.us
30 //http
```

Open folder containing the folder for your Node.JS App



Right-click on the folder, select :

Deploy to WebApp

Select the CheckMateServiceResource

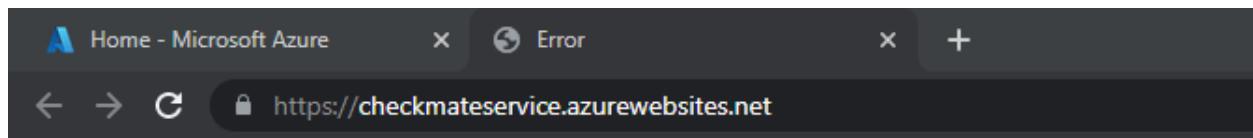
```
server.js - Node.js - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
NODEJS
> assetmgmtservice
> CheckMate
> CheckMateService
> checkmatev2
> publicservices
server.js > ...
CheckMateService > server.js > ...
j00149021@houstonisd.org Mag17615@7, 2 weeks ago | 1 author (j00149021@houstonisd.org Mag17615@7)
1 const express = require('express');
2 const connectDB = require('./config/db');
3 const cors = require('cors');
4 const path = require('path');
5
6 const app = express();
7
8 //Connect to Database
9 connectDB();
10
11 //Init Middleware
12 //https://stackoverflow.com/questions/59997685/postman-can-not-read-request-body
13 app.use(express.json({extended: false}));
14
15 app.use(cors({
16   origin: '*',
17   methods: ['GET', 'POST', 'DELETE', 'UPDATE', 'PUT', 'PATCH']
18 }));
19
20 //app.get('/',(req,res) => res.send("API RUNNING"));
21
22 //define Routes - PORT 5500
23
24 //http://localhost:5500/api/client
25 app.use('/api/client', require('./routes/api/client'));
26
27 //primary Checkmate Routes
28 //http://localhost:5500/api/users
29 app.use('/api/users', require('./routes/api/users'));
30 //http://localhost:5500/api/auth
31
32 app.use('/api/auth', require('./routes/api/auth'));
33 //http://localhost:5500/api/pharma
34 app.use('/api/pharma', require('./routes/api/pharma'));
35 //http://localhost:5500/api/medicalGroup
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPITER GITLNS AZURE
4:20:56 PM CheckMateService: Starting deployment...
Azure App Service
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (NODES):** Shows project files like `vscode`, `assetmgmtservice`, `CheckMate`, `CheckMateService` (the active item), `checkmatev2`, and `publicservices`.
- Code Editor (server.js):** Displays the `server.js` file content, which is an Express.js application. It includes middleware for CORS and various HTTP methods, and routes for checking if the API is running.
- Terminal:** Shows the command-line output of the Node.js runtime and the `npm install` command being executed.
- Status Bar:** Shows the message "Deploying to 'CheckMateService'...".

```
//define Routes - PORT 5500 *
5   OUTPUT DEBUG CONSOLE TERMINAL JUPYTER GITLENS AZURE
6
7 PM CheckMateService: npm notice
8 PM CheckMateService: found 0 vulnerabilities
9 PM CheckMateService: Zipping existing node_modules folder...
10 PM CheckMateService: Done in 9 sec(s).
11 PM CheckMateService: Preparing output...
12 PM CheckMateService: Copying files to destination directory '/home/site/wwwroot'...
13 PM CheckMateService: Done in 0 sec(s).
14 PM CheckMateService: Removing existing manifest file
15 PM CheckMateService: Creating a manifest file...
16 PM CheckMateService: Manifest file created.
17 PM CheckMateService: Copying .ostype to manifest output directory.
18 PM CheckMateService: Done in 95 sec(s).
19 PM CheckMateService: Running post deployment command(s)...
20 PM CheckMateService: Generating summary of Oryx build
21 PM CheckMateService: Parsing the build logs
22 PM CheckMateService: Found 0 issue(s)
23 PM CheckMateService: Build Summary :
24 PM CheckMateService: =====
25 PM CheckMateService: Errors (0)
26 PM CheckMateService: Warnings (0)
27 PM CheckMateService: Triggering recycle (preview mode disabled).
28 PM CheckMateService: Deployment successful. deployer = Push-Deployer deploymentPath = ZipDeploy. Extract zip.
29 PM: Deployment to "CheckMateService" completed.
```

<https://checkmatestestservice.azurewebsites.net/>



To do a test:

A screenshot of the Postman application interface. The request is a POST to 'https://checkmateservice.azurewebsites.net/api/pharma/searchPharmaRecord'. The body contains the following JSON:

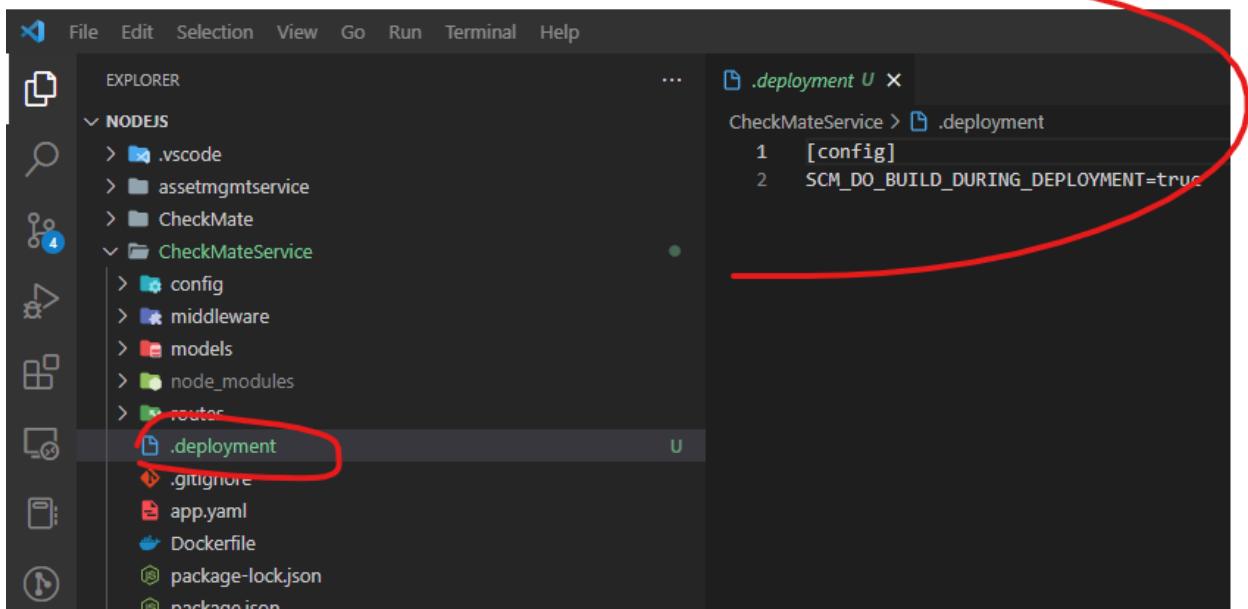
```
1 "pharma": [2     {3         "_id": "63b49190fe74bf00a27dcfa5",4             "Name": "Memorial Health",5             "Email": "mmhealth@gmail.com",6             "SearchType": "Name"}]
```

The response status is 200 OK, Time: 384 ms, Size: 439 B.

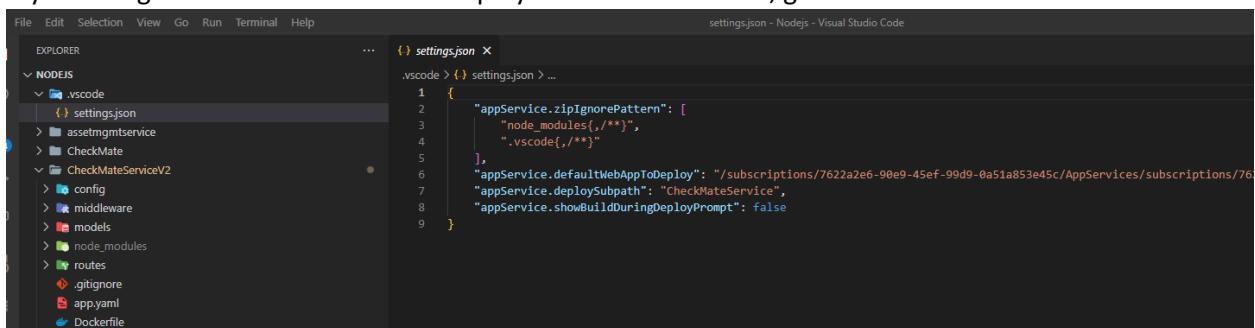
<https://checkmateservice.azurewebsites.net/api/pharma/searchPharmaRecord>

```
{  
    "Name": "Memorial Health",  
    "Email": "mmhealth@gmail.com",  
    "SearchType": "Name"  
}
```

As you can see in Visual Studio, it created this file:

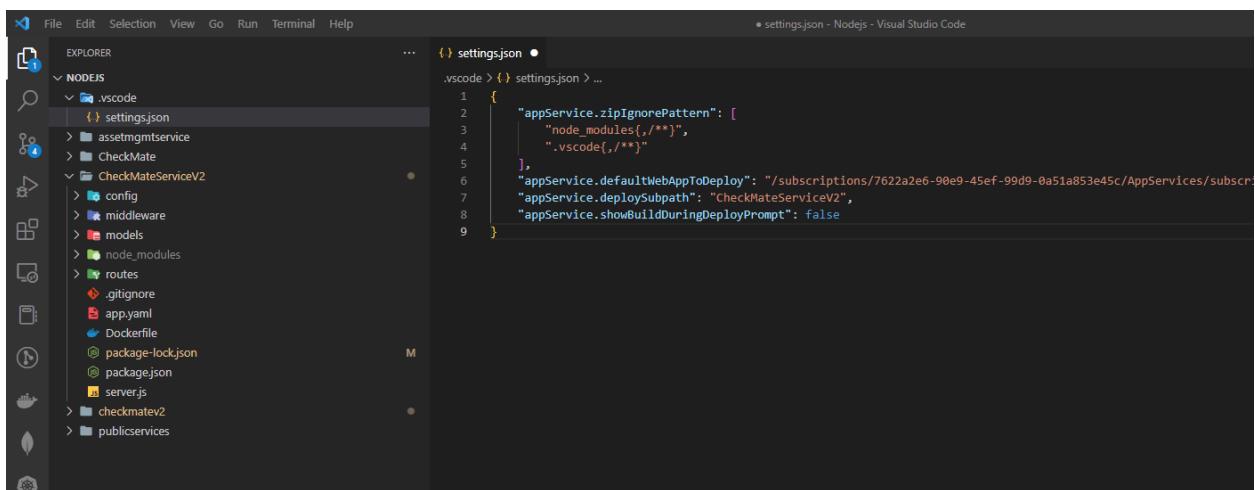


If you change the folder and want to deploy to a different folder, go to the .vscode file and edit it



Or just delete the file

And re-run deploy



New Location

<https://checkmatestservicev2.azurewebsites.net/>

The screenshot shows the Azure portal interface for the 'CheckMateServiceV2' app service. The left sidebar contains navigation links for Overview, Activity log, Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment (Quickstart, Deployment slots, Deployment Center), Settings (Configuration, Authentication, Application Insights, Identity, Backups, Custom domains, TLS/SSL settings, Certificates (preview), Networking, Scale up (App Service plan), Scale out (App Service plan)), and a search bar.

The main content area displays the 'Essentials' section with details about the Resource group (CheckMateServiceResourceGroup), Status (Running), Location (Central US), Subscription (Free Trial), and Subscription ID (7622aae6-90e9-45ef-99d9-0a51a853e45c). It also shows the URL (https://checkmatestservicev2.azurewebsites.net), App Service Plan (ASP-CheckMateServiceResourceGroup-beac), Operating System (Linux), and Health Check (Not Configured).

Below the Essentials section are tabs for Properties, Monitoring, Logs, Capabilities, and Notifications. The Properties tab is selected, showing the Web app section with Name (CheckMateServiceV2), Publishing model (Code), and Runtime Stack (Node - 16-its). The Application Insights section shows 'Enable Application insights' is turned off. The Hosting section shows the App Service plan (ASP-CheckMateServiceResourceGroup-beac), Operating System (Linux), and SKU and size (Basic (B1) Scale up). The Deployment Center section shows deployment logs, last deployment (No deployments found), and deployment provider (None). The Networking section lists Virtual IP address (20.40.202.2), Outbound IP addresses (13.86.62.220, 13.86.62.224, 13.86.62.234, 13.86.6...), and Additional Outbound IP addresses (13.86.62.220, 13.86.62.224, 13.86.62.234, 13.86.6...).

I CHANGED THE CHECKMATE APP'S WEB SERVICE TO POINT TO AZURE

The screenshot shows the Visual Studio Code interface with the '.env' file open. The file contains environment variables for a React application:

```

REACT_APP_API_KEY = 123-123-123-123
REACT_APP_API_BASE = ''
#using port 5500
#REACT_APP_SERVICE_URL = 'http://localhost:5500/api'
#I4.7.5
#BELOW IS FOR WHEN YOU ARE DEPLOYING TO HEROKU TO USE A SEPERATE ENDPOINT FOR THE SERVICE
#REACT_APP_SERVICE_URL = 'https://pure-gorge-49930.herokuapp.com/api'
REACT_APP_SERVICE_URL = 'https://checkmatestservicev2.azurewebsites.net/api'

```

The code editor shows several warning messages from ESLint regarding unused variables and react-hooks/exhaustive-deps:

- Line 1:7: 'useState' is defined but never used no-unused-vars
- Line 31:8: React Hook useEffect has a missing dependency: 'fetchSingleRecordByRecordID'. Either include it or remove the dependency array react-hooks/exhaustive-deps
- Line 32:6: React Hook useEffect has a missing dependency: 'fetchSingleRecordByRecordID'. Either include it or remove the dependency array react-hooks/exhaustive-deps
- Line 32:6: React Hook useEffect has a missing dependency: 'fetchSingleRecordByRecordID'. Either include it or remove the dependency array react-hooks/exhaustive-deps
- Line 32:6: React Hook useEffect has a missing dependency: 'fetchSingleRecordByRecordID'. Either include it or remove the dependency array react-hooks/exhaustive-deps
- Line 33:8: React Hook useEffect has missing dependencies: 'fetchSingleRecordByRecordID' and 'getManagerFirstAndLastName'. Either include them or remove the dependency array react-hooks/exhaustive-deps
- Line 36:8: React Hook useEffect has missing dependencies: 'fetchSingleRecordByRecordID' and 'getManagerFirstAndLastName'. Either include them or remove the dependency array react-hooks/exhaustive-deps

SO IT'S ALLLL AZURE NOW

Check Mate Home Medical Office Locations Physicians Records Managers / Reps /Receipts Reports Login/Authenticate

Pharmaceutical Company Management Screen

Company Name
Herman Hospital System

Phone
713-876-0987

Email
corsonmemorial@gmail.com

Password

Confirm Password

Notes
Old traditional hospital and this works!!! - Testing out prevent default

Submit Update Record Add New

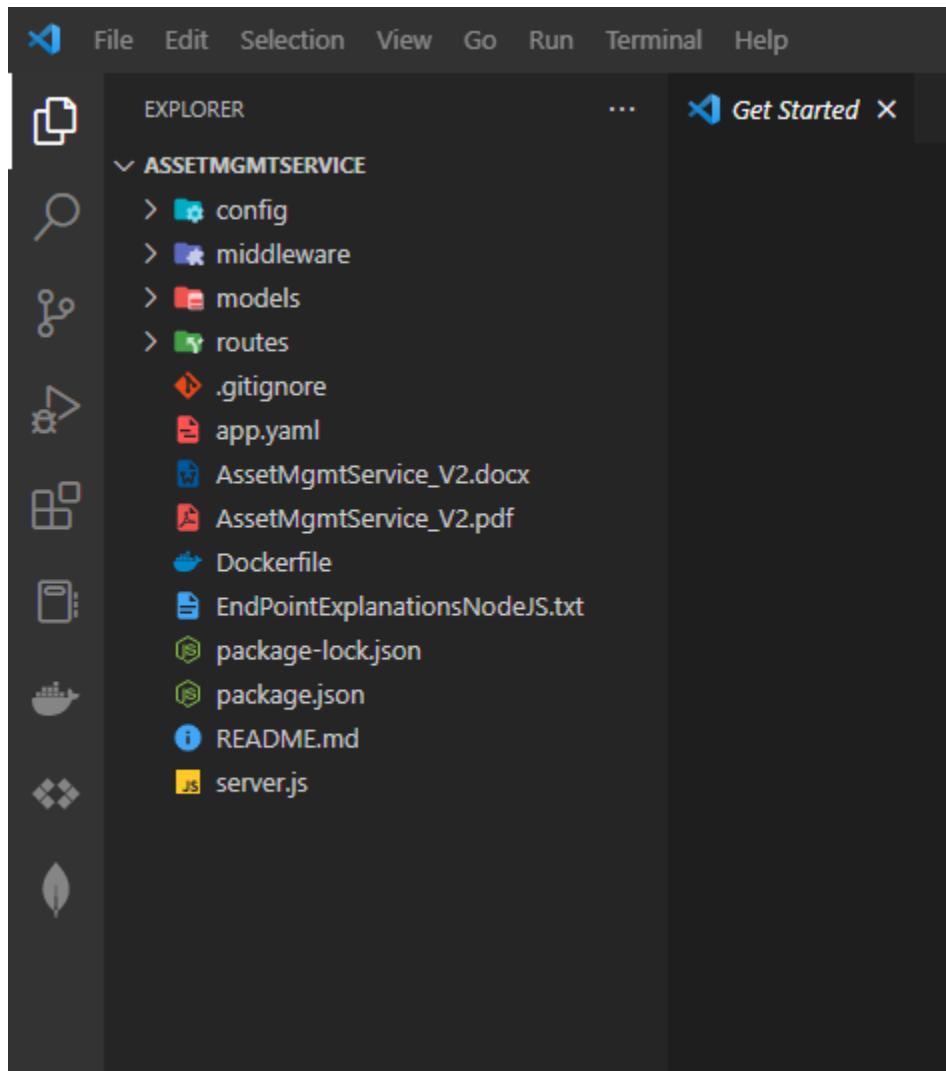
Login

Tip: Deploying a nodejs app to Azure (Using CI/CD/GitHub) – Not using VSCode to push
This is an example of how to push a nodejs application to Azure without using VS Code extensions.

We are going to push the AssetMgmtService to Azure (We removed of from GCP).

The git REPO is:

<https://github.com/lionel5116/assetmgmtservice.git>



First create the webApp in Azure:

← → ⌂ ⌂ portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Upgrade Search resources, services, and docs (G+)

All services > App Services >

Create Web App

Basics Deployment Networking Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more ↗](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Free Trial

Resource Group * ⓘ (New) AssetMgmtService [Create new](#)

Instance Details

Need a database? [Try the new Web + Database experience. ↗](#)

Name * AssetMgmtService .azurewebsites.net

Publish * Code Docker Container Static Web App

Runtime stack * Node 16 LTS

Operating System * Linux Windows

Region * Central US
Not finding your App Service Plan? Try a different region or select your App Service Environment.

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more ↗](#)

Linux Plan (Central US) * ⓘ ASP-CheckMateServiceResourceGroup-beac (B1) [Create new](#)

Pricing plan * **Basic B1**
100 total ACU, 1.75 GB memory

Zone redundancy

[Review + create](#) [< Previous](#) [Next : Deployment >](#)

AssetMgmtService.azurewebsites.net

For Deployment:

The screenshot shows the Microsoft Azure portal interface for creating a new web app. The top navigation bar includes links for 'myHISD - Home', 'Mail - Jones, Lionel - C...', 'Microsoft account sec...', 'Google Calendar - No...', and 'Net...'. The main title is 'portal.azure.com/#create/Microsoft.WebSite'. Below the title, the Microsoft Azure logo and an 'Upgrade' button are visible, along with a search bar. The breadcrumb navigation shows 'All services > App Services >'. The main heading is 'Create Web App' with a three-dot menu icon.

The 'Deployment' tab is selected in the navigation bar, with other tabs including 'Basics', 'Networking', 'Monitoring', 'Tags', and 'Review + create'.

A section titled 'Enable GitHub Actions to continuously deploy your app.' explains that GitHub Actions is an automation framework for building, testing, and deploying apps. It notes that if code is in GitHub, a workflow file will be added to automatically deploy to App Service. If code is not in GitHub, go to the Deployment Center once the web app is created. A 'Learn more' link is provided.

GitHub Actions settings

Continuous deployment: Disable Enable

GitHub Actions details

Select your GitHub details so Azure Web Apps can access your repository.

GitHub account: lionel5116 [Change account](#) ⓘ

Organization *: lionel5116

Repository *: assetmgmtservice

Branch *: master

Workflow configuration

File with the GitHub Actions workflow configuration.

[Preview file](#)

(This could have also been done later under deployment form the dashboard)

When you select Preview File

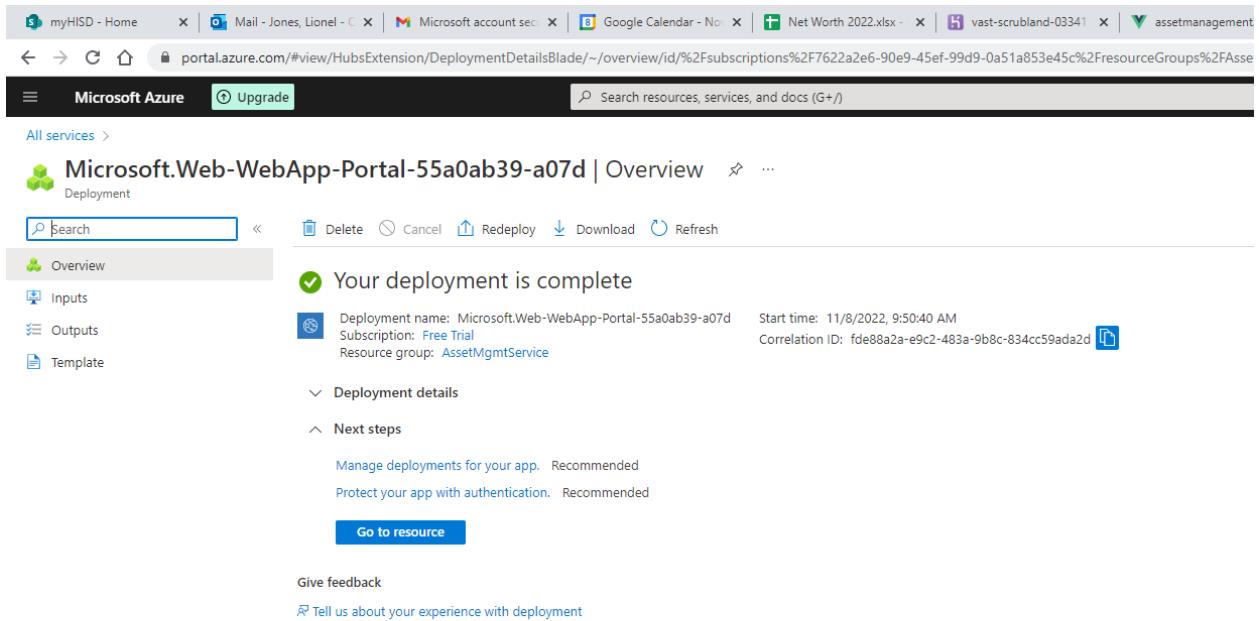
The screenshot shows a GitHub Actions workflow configuration editor. The title bar reads "Workflow configuration". The top right corner displays the user's email "lioneljones5116@gmail...." and "DEFAULT DIRECTORY". The main area contains the following YAML code:

```
1 # Docs for the Azure Web Apps Deploy action: https://github.com/Azure/webapps-deploy
2 # More GitHub Actions for Azure: https://github.com/Azure/actions
3
4 name: Build and deploy Node.js app to Azure Web App - AssetMgmtService
5
6 on:
7   push:
8     branches:
9       - master
10    workflow_dispatch:
11
12  jobs:
13    build:
14      runs-on: ubuntu-latest
15
16      steps:
17        - uses: actions/checkout@v2
18
19        - name: Set up Node.js version
20          uses: actions/setup-node@v1
21          with:
22            node-version: '16.x'
23
24        - name: npm install, build, and test
25          run:
26            - npm install
27            - npm run build --if-present
28            - npm run test --if-present
29
30        - name: Upload artifact for deployment job
31          uses: actions/upload-artifact@v2
32          with:
33            name: node-app
34            path: .
35
36  deploy:
37    runs-on: ubuntu-latest
38    needs: build
39    environment:
40      name: 'production'
41      url: ${{ steps.deploy-to-webapp.outputs.webapp-url }}
42
43    steps:
44      - name: Download artifact from build job
45        uses: actions/download-artifact@v2
46        ...
```

At the bottom left, there is a "Close" button.

This gives you the build actions under GitHub (**For GitHub Actions**)

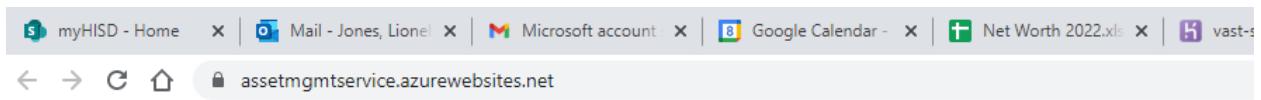
Review and create



The screenshot shows the Microsoft Azure portal interface. At the top, there is a navigation bar with several tabs and links. Below the navigation bar, the main content area displays a deployment overview for a web app. The title is "Microsoft.Web-WebApp-Portal-55a0ab39-a07d | Overview". A prominent message says "Your deployment is complete". Below this, deployment details are listed: Deployment name: Microsoft.Web-WebApp-Portal-55a0ab39-a07d, Subscription: Free Trial, Resource group: AssetMgmtService. To the right, it shows the start time: 11/8/2022, 9:50:40 AM and Correlation ID: fde88a2a-e9c2-483a-9b8c-834cc59ada2d. There are sections for "Deployment details" and "Next steps", each with two recommended actions: "Manage deployments for your app" and "Protect your app with authentication". At the bottom, there are buttons for "Go to resource", "Give feedback", and a link to "Tell us about your experience with deployment".

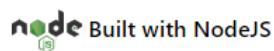
When you browse:

<https://assetmgmtservice.azurewebsites.net/>



Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



Haven't deployed yet?
Use the deployment center to publish code or set up continuous deployment.

Starting a new web site?
Follow our Quickstart guide to get a web app ready quickly.

[Deployment center](#)

[Quickstart](#)

if you go to GitHub:

You will see the GitHub actions workflow file created:

The screenshot shows a GitHub repository interface. At the top, there are navigation links: 'Issues', 'Actions', 'Projects', 'Security', 'Insights', and 'Settings'. Below that, there's a summary bar with 'master', '1 branch', '0 tags', 'Go to file', 'Add file', and a green 'Code' button. The main area shows a list of files in the '.github/workflows' directory. There is one commit from user 'lionel5116' with the message 'Add or update the Azure App Service build and deployment workflow config'. The commit was made 3 minutes ago with 13 commits. To the right of the commit list, there's a sidebar with the repository name 'assetmgmtservice' and a note: 'This is the assetman removed seperately'. At the bottom right, there are 'Readme' and '0 stars' buttons.

File	Description	Time
.github/workflows	Add or update the Azure App Service build and deployment workflow c...	3 minutes ago
config	first commit	26 days ago
middleware	first commit	26 days ago

This is the assetman removed seperately

Readme

0 stars

When you go to deployment center:

The screenshot shows the Microsoft Azure Deployment Center settings page for an App Service named 'AssetMgmtService'. The left sidebar lists various deployment-related options like Quickstart, Deployment slots, and Deployment Center, with 'Deployment Center' being highlighted. The main pane shows deployment settings for GitHub, including the source branch 'master' and build provider 'GitHub Actions'. Three checkmarks are drawn on the page: one next to the 'Disconnect' button for GitHub, one next to the repository name 'assetmgmtservice', and one next to the build provider 'GitHub Actions'.

AssetMgmtService | Deployment Center

Source GitHub [Disconnect](#)

Signed in as lionel5116

Organization lionel5116

Repository assetmgmtservice

Branch master

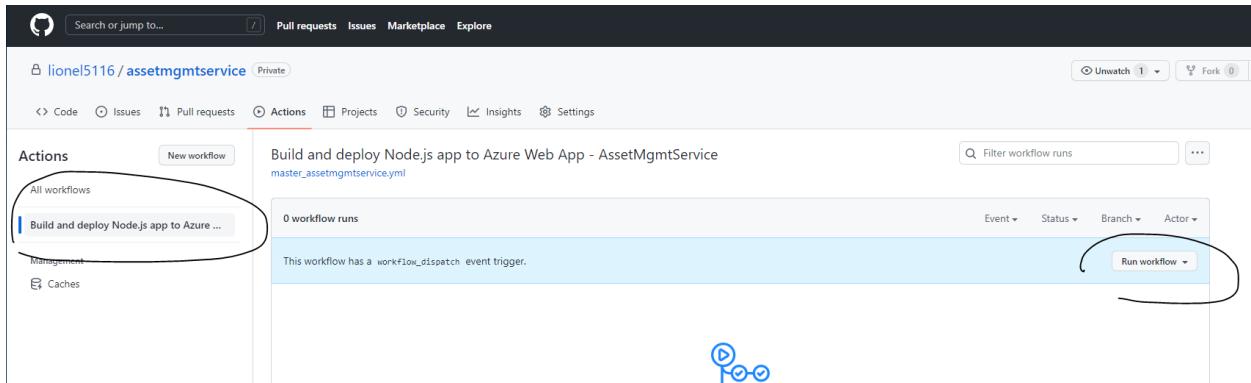
Build provider GitHub Actions

Runtime stack Node

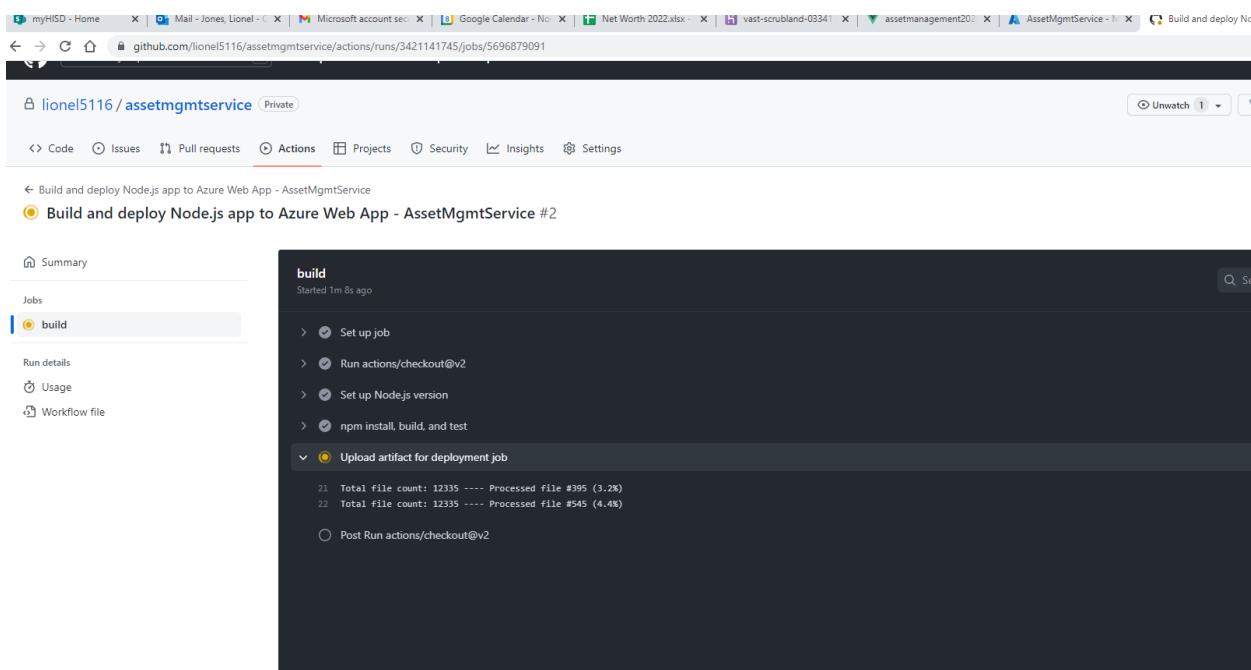
Version Node 16 LTS

To push the build to your Azure WebSite:

Go to GitHub



Run the workflow, you look at the build tab to monitor the process



Its running slow:

The screenshot shows a GitHub Actions build log for a Node.js app deployed to Azure Web App. The build started 9m 19s ago and includes the following steps:

- Set up job
- Run actions/checkout@v2
- Set up Node.js version
- npm install, build, and test
- Upload artifact for deployment job (this step is expanded, showing 35 lines of log output)

```
21 Total file count: 12335 ---- Processed file #395 (3.2%)
22 Total file count: 12335 ---- Processed file #545 (4.4%)
23 Total file count: 12335 ---- Processed file #704 (5.7%)
24 Total file count: 12335 ---- Processed file #861 (6.9%)
25 Total file count: 12335 ---- Processed file #1007 (8.1%)
26 Total file count: 12335 ---- Processed file #1148 (9.3%)
27 Total file count: 12335 ---- Processed file #1296 (10.5%)
28 Total file count: 12335 ---- Processed file #1449 (11.7%)
29 Total file count: 12335 ---- Processed file #1592 (12.9%)
30 Total file count: 12335 ---- Processed file #1745 (14.1%)
31 Total file count: 12335 ---- Processed file #1899 (15.3%)
32 Total file count: 12335 ---- Processed file #2056 (16.6%)
33 Total file count: 12335 ---- Processed file #2216 (17.9%)
34 Total file count: 12335 ---- Processed file #2373 (19.2%)
35 Total file count: 12335 ---- Processed file #2539 (20.5%)
```

It is taking almost 15+ minutes to deploy (Through VS Code extensions is waaayyyyyy faster)

The build took 11 minutes

A screenshot of a GitHub Actions build log. The URL is github.com/lionel5116/assetmgmtservice/actions/runs/3421141745/jobs/5696879091. The build status is "succeeded 10 seconds ago in 11m 14s". The build steps listed are: Set up job, Run actions/checkout@v2, Set up Node.js version, npm install, build, and test, Upload artifact for deployment job, Post Run actions/checkout@v2, and Complete job.

Now it's deploying

It took 6 minutes to download artifact

A screenshot of a GitHub Actions deploy log. The URL is [Build and deploy Node.js app to Azure Web App - AssetMgmtService #2](#). The deploy step started 6m 33s ago. It shows the following steps: Set up job, Download artifact from build job, Deploy to Azure Web App (which includes sub-steps: Run azure/webapps-deploy@v2 and Package deployment using ZIP Deploy initiated).

Now starting to deploy to the web

A screenshot of a GitHub Actions step log for "Deploy to Azure Web App". The log shows the following output:

```
1 ► Run azure/webapps-deploy@v2
7
7 Package deployment using ZIP Deploy initiated.
```

It took 4 minutes for the final completion

The screenshot shows a GitHub Actions build log for a Node.js app deployed to an Azure Web App. The build was successful, taking 40 seconds and 10m 11s. The steps completed were: Set up job, Download artifact from build job, Deploy to Azure Web App, and Complete job.

Build and deploy Node.js app to Azure Web App - AssetMgmtService #2

Summary

Jobs

build

deploy

Run details

Usage

Workflow file

deploy

succeeded 40 seconds ago in 10m 11s

> Set up job

> Download artifact from build job

> Deploy to Azure Web App

> Complete job

go back to deployment center

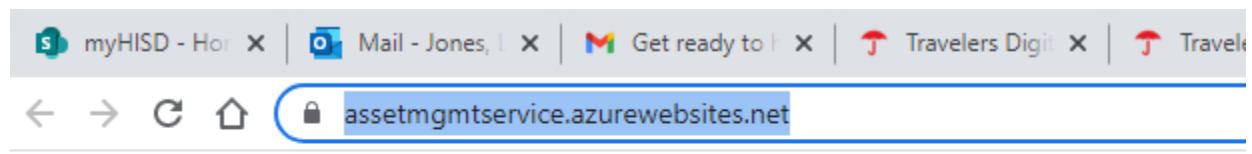
The screenshot shows the Microsoft Azure Deployment Center for the AssetMgmtService. It displays a log entry for a deployment on Tuesday, November 8, 2022, at 11:00 AM. The status is Success (Active), and the message indicates a deployment with commit ID 673011d.

AssetMgmtService | Deployment Center

Logs

Time	Commit ID	Logs	Commit Author	Status	Message
Tuesday, November 8, 2022 (1)	11/8/2022, 10:25:51 AM -0600	673011d	App Logs	N/A	Success (Active) ("type": "deployment", "sha": "27175626a49eb8944a7cc2a32d4a305a644937d", "repoName": "lionel5116/assetmgmtservice...", "commitId": "673011d", "status": "Success", "time": "2022-11-08T10:25:51Z", "url": "https://dev.azure.com/lioneljones5116/_apis/build/builds/103804?view=logs")

And when you browse:



Cannot GET /

POST SearchTravelRecord_All POST https://assetmgmtser . . .

<https://assetmgmtservice.azurewebsites.net/api/travel/searchTravelRecord>

POST https://assetmgmtservice.azurewebsites.net/api/travel/searchTravelRecord

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1
2
3     "BookingCode": "",
4     "Airline": "Spirit",
5     "APCode": "",
6     "Status": "",
7     "Year": "",
8     "SearchType": "Airline"
9

```

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```

1
2     "travel": [
3         {
4             "_id": "62e93be57b9173bdcd74f3e9",
5             "Destination": "Colombia",
6             "Year": "2021",
7             "TravelDate": "11/19/2021",
8             "Airline": "Spirit",
9             "Hotel": "Novelty Suites",
10            "BookingCode": "DHITPD",
11            "APCode": "MDE",
12            "ItineraryFlight": "72179549409891",
13            "ItineraryHotel": "72190201815204",
14            "Status": "COMPLETE",
15            "FlightCost": 342.41,
16            "HotelCost": 222.76,
17            "GTotalCost": 481,
18            "TotalCost": 1274,
19            "Rating": "EXCELLENT",
20            "Notes": "Booked at a good price/ 72190201815204 for Novelty",
21            "__v": 0
22        },
23        {
24            "_id": "62e93be57b9173bdcd74f3e9"
25        }

```

And it works!!!!

When I made a change, it will update the service automatically:

```

File Edit Selection View Go Run Terminal Help
assetmgmtservice
EXPLORER ASSETMGMTSERVICE
> .github
> config
> middleware
> models
> node_modules
> routes
> .gitignore
> app.yaml
AssetMgmtService_V2.docx
AssetMgmtService_V2.pdf
Dockerfile
EndPointExplanationsNodeJS.txt
package-lock.json
package.json
README.md
server.js M

server.js > ...
1 const express = require('express');
2 const connectDB = require('./config/db')
3 const cors = require('cors');
4 const path = require('path')
5
6 const app = express();
7
8 //Connect to Database
9 connectDB();
10
11 //Init Middleware
12 //https://stackoverflow.com/questions/59997685/postman-can-not-read-request-body
13 app.use(express.json({extended: false}));
14
15 app.use(cors({
16   origin: '*',
17   methods: ['GET', 'POST', 'DELETE', 'UPDATE', 'PUT', 'PATCH']
18 }));
19
20 app.get('/', (req, res) => res.send('API SERVICE IS RUNNING!!'));
21
22 //Delete Routes - PORT 5500 *
23 //http://localhost:5500/api/users
24 app.use('/api/users', require('../routes/api/users'));
25 //http://localhost:5000/api/auth
26 app.use('/api/auth', require('../routes/api/auth'));
27 //http://localhost:5000/api/asset
28 app.use('/api/asset', require('../routes/api/asset'));
29 //http://localhost:5000/api/travel

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS C:\DevProjects\Programming\NodeJS\assetmgmtservice> npm install

Once I made the change, I go over to GitHub:

myHISD - Home | Mail - Jones, Lionel | Get ready to hit the | Google Calendar - | Net Worth 2022.xls | vast-scrubland-03 | assetmanagement | A

github.com/lionel5116/assetmgmtservice/actions/runs/3422204234

Search or jump to... / Pull requests Issues Marketplace Explore

lionel5116 / assetmgmtservice (Private)

Code Issues Pull requests Actions Projects Security Insights Settings

← Build and deploy Node.js app to Azure Web App - AssetMgmtService

added a default route #3

Summary

Jobs

build

Run details

Usage

Workflow file

Triggered via push 1 minute ago

lionel5116 pushed → 8013412 master

Status In progress

Total duration -

Artifacts -

master_assetmgmtservice.yml
on: push

```

graph LR
    build -- "1m 0s" --> deploy

```

After it runs and you browse for the service:

<https://assetmgmtservice.azurewebsites.net>

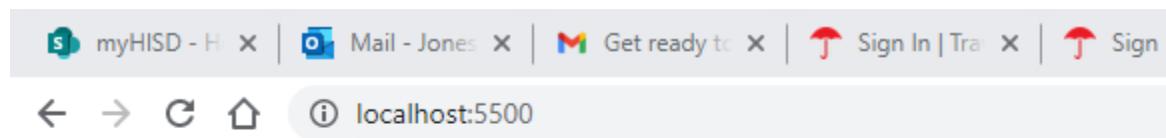
API SERVICE IS RUNNING!!

Tip: Adding a default route to your node.js application to show that it is running

```
server.js M X
server.js > ...
1  const express = require('express');
2  const connectDB = require('./config/db')
3  const cors = require('cors');
4  const path = require('path')
5
6  const app = express();
7
8  //Connect to Database
9  connectDB();
10
11 //Init Middleware
12 //https://stackoverflow.com/questions/59997685/postman-can-not-read-request-body
13 app.use(express.json({extended: false}));
14
15 app.use(cors({
16   origin: '*',
17   methods: ['GET','POST','DELETE','UPDATE','PUT','PATCH']
18 }));
19
20 app.get('/',(req,res) => res.send('API SERVICE IS RUNNING!!'));
21
22 /*define Routes - PORT 5500 *
23 //http://localhost:5500/api/users
24 app.use('/api/users', require('./routes/api/users'));
25 //http://localhost:5000/api/auth
26 app.use('/api/auth', require('./routes/api/auth'));
27 //http://localhost:5000/api/asset
28 app.use('/api/asset', require('./routes/api/asset'));
29 //http://localhost:5000/api/travel
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
PS C:\DevProjects\Programming\NodeJS\assetmgmtservice> npm start
> assetmgmtservice@1.0.0 start C:\DevProjects\Programming\NodeJS\assetmgmtservice
> node server
Server started on port 5500
```



API SERVICE IS RUNNING!!