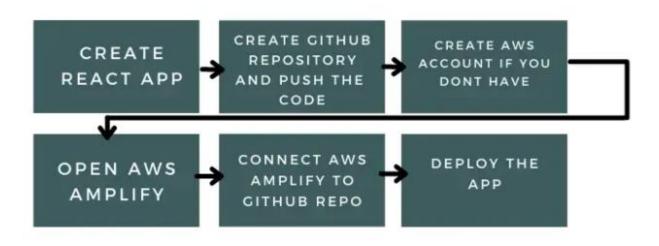
How to deploy a React Application on AWS Amplify

AWS Amplify is a set of tools and features that lets front-end web and mobile developers quickly and easily build full-stack applications on AWS, with the flexibility to leverage the breadth of AWS services as your use cases evolve. With Amplify, you can configure a web or mobile app backend, connect your app in minutes, visually build a web frontend UI, and easily manage app content outside the AWS console.

We will follow these steps to get our app deployed.



Step 1: Create react app

Make sure you have Nodejs installed in your machine.

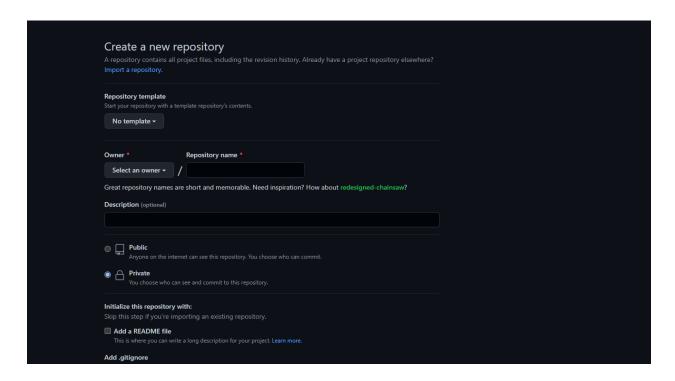
npx create-react-app react-aws-amplify cd my-app npm start

```
> node + ∨ □ 🛍 ^ ×
                    TERMINAL
                               DEBUG CONSOLE
PS D:\MIU\CS516\blogapp> npx create-react-app .
Creating a new React app in D:\MIU\CS516\blogapp.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
added 1395 packages in 2m
214 packages are looking for funding
  run `npm fund` for details
Initialized a git repository.
Installing template dependencies using npm...
added 71 packages in 8s
226 packages are looking for funding
 run `npm fund` for details
Removing template package using npm...
removed 1 package, and audited 1466 packages in 4s
226 packages are looking for funding
  run `npm fund` for details
6 high severity vulnerabilities
Compiled successfully!
You can now view blogapp in the browser.
                    http://localhost:3000
  On Your Network: http://192.168.33.1:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
webpack compiled successfully
```

Our app is up and running. you can check by visiting http://localhost:3000

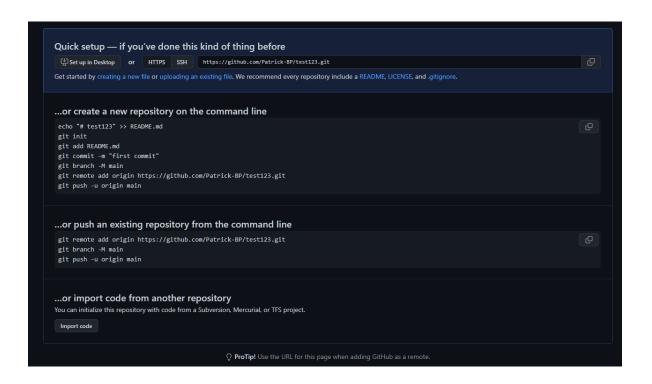
Step 2: Create GitHub repository

We need to hold our code somewhere in the cloud. We can use GitHub, GitLab, Bitbucket, AWS CodeCommit.

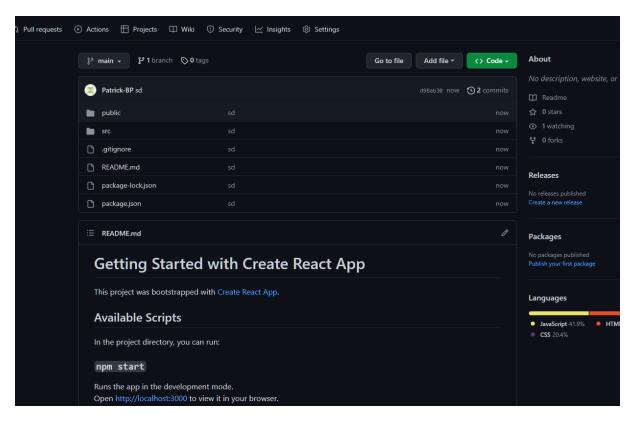


Step 3: Pushing the code to the repo

After creating the repo, you can copy all these lines.



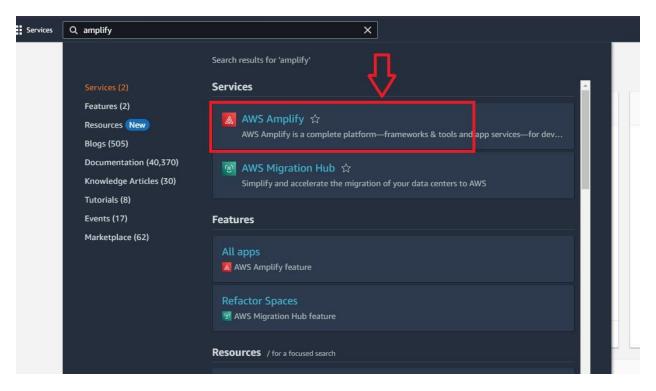
Paste these lines of code in your terminal in your react app directory You have pushed your code to the GitHub repo. let's check



Now we have a repo that contains our code.

Step4: Deploy our app on AWS using Amplify

After creating your account, visit the AWS console and search for Amplify.



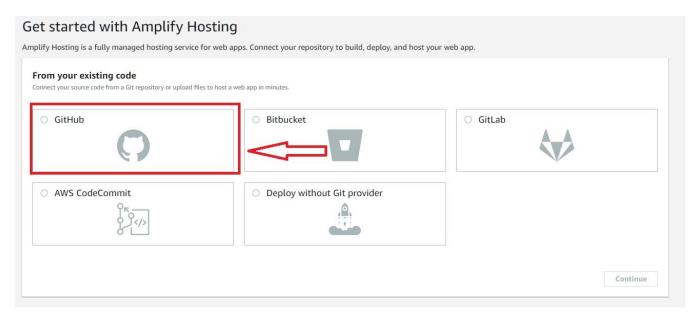
Under Amplify Hosting section, click on Get started

Get started

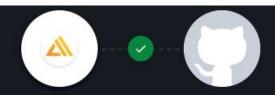


Already have existing Cognito, S3, or other AWS resources? Connect to them from your app with the Amplify Libraries. Go to docs 🔀

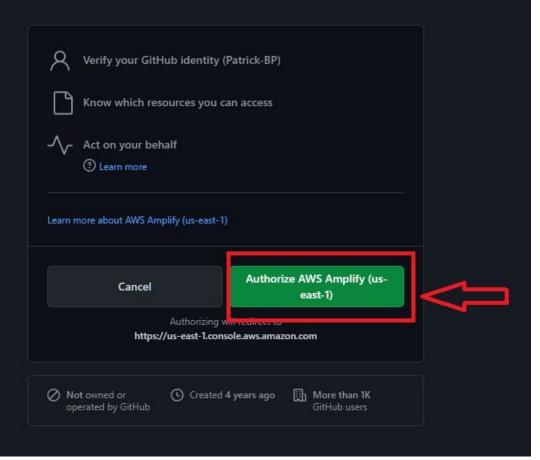
Choose your provider. in our case. We have our code in Github.



Sign in to **GitHub**, choose the repo you want to deploy, and select the branch.

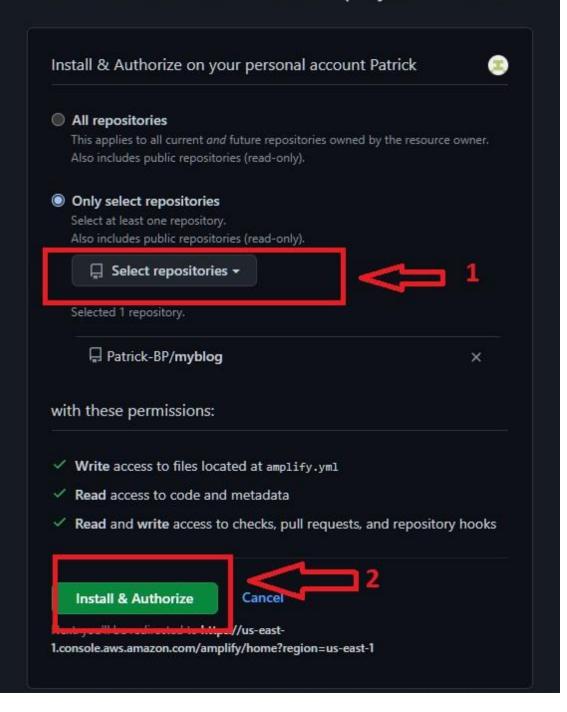


AWS Amplify (us-east-1) by AWS Amplify Console would like permission to:

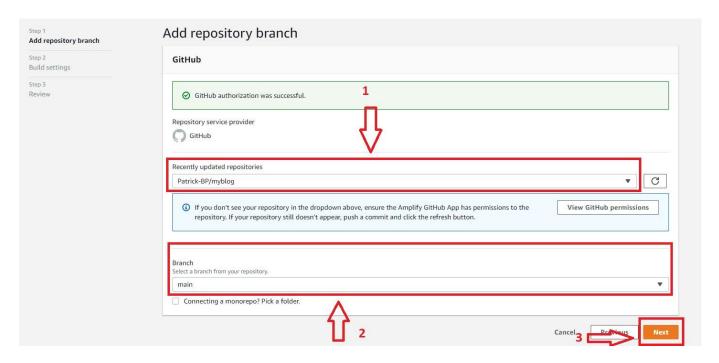




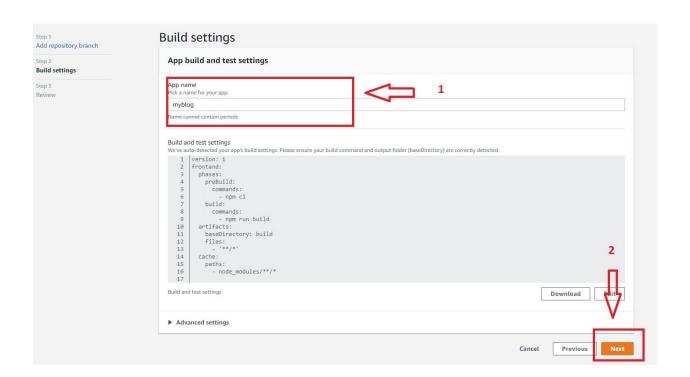
Install & Authorize AWS Amplify (us-east-1)

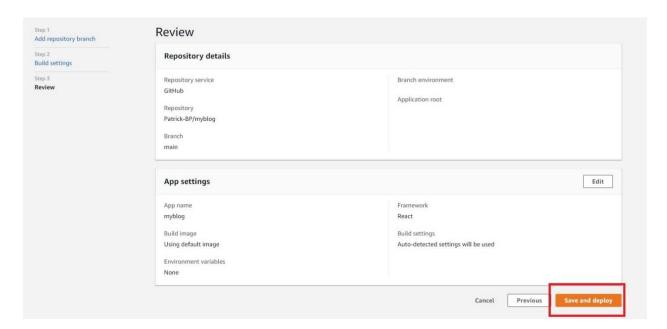


App repository Branch



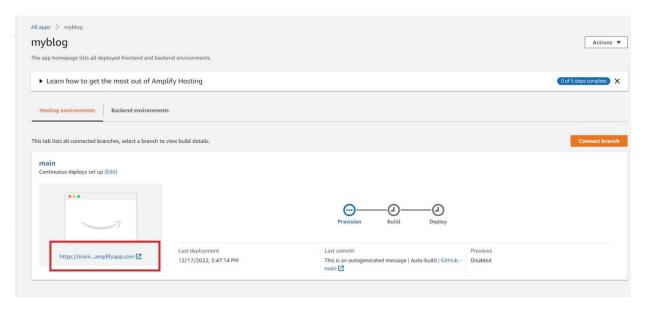
Build Settings



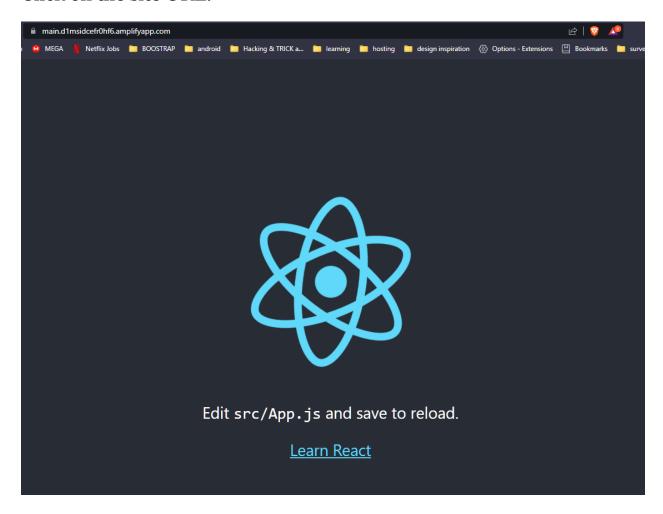


Check the deployment status.

Wait for provision => build => Deploy



Click on the site URL.



Finally, our app is live, and anyone can use it.

Do you want to make any changes??

1. Edit the code

```
File Edit Selection View Go Run Terminal Help
                                                                                                   ▶ □ …

∃ index.css

                                                        Js App.js
                                                                  X Js index.js

∨ OPEN EDITORS

                                         src > Js App.js > ..
                                               import logo from './logo.svg';
        X Js App.js src
          us index.js src
                                               function App() {
     ∨ BLOGAPP
                                                 return (
       > node_modules
                                                   <div className="App">
       > 📴 public
                                                     <header className="App-header">
                                                        <img src={logo} className="App-logo" alt="logo" />
       ∨ 🖝 src
∃ App.css
                                                        Edit <code>src/App.js</code> and save to reload.
          Js App.js
          App.test.js
           index.css
                                                        className="App-link"
href="https://reactjs.org"
us index.js
                                                        target="_blank"
rel="noopener noreferrer"
           * logo.svg
           s reportWebVitals.js
          Js setupTests.js
                                                        Learn React
          .gitignore
         package-lock.json
         package.json

    README.md

                                                export default App;
```

2. commit the changes and push it

```
▼ File Edit Selection View Go Run Terminal Help
                                                                    App.js - blogapp - Visual Studio Code
                                                         App.js M X Js index.js

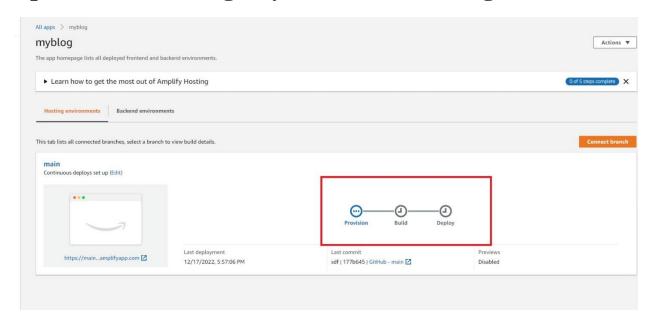
∃ index.css

                                        src > Js App.js > 分 App

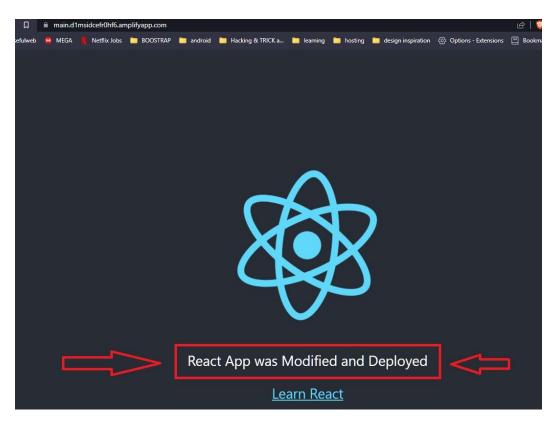
∨ SOURCE CONTROL REPOSITORIES

     V SOURCE CONTROL
မှု
                                                function App() {
                ✓ Commit
                                                    <div className="App">
$
                                                      <header className="App-header">
                                                        <img src={logo} className="App-logo" alt="logo" />
       B App.js src
                                                        | Edit <code>src/App.js</code> save to reload.
                                                        className="App-link"
href="https://reactjs.org"
target="_blank"
                                                          rel="noopener noreferrer"
                                                          Learn React
0
                                                export default App;
```

Open the browsers again you will see the changes.



Result



Conclusion

In this article, we learned step by step how to create a react app from scratch and push it to Github, then deploy it to AWS Amplify.

You can deploy your backend apps using Amplify

Coming soon in the next blog