

Hands-on tutorials

Build a Basic Web Application



Build a Basic Web Application: Hands-on tutorials

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Build a Basic Web Application

AWS experience	Beginner
Minimum time to complete	35 minutes
Cost to complete	Free Tier eligible
Services used	AWS Amplify AWS AppSync AWS Lambda Amazon DynamoDB
Last updated	July 12, 2024

Overview

In this tutorial, you will learn to create a simple full-stack web application using AWS Amplify. Throughout this tutorial, you will build and host a React application on AWS, use Amplify to add authentication, data, and a serverless function to capture the signed-up user's email and save it in the database. Then, you will implement a frontend for your app that integrates with your cloud resources.

What you will accomplish

In this tutorial, you will:

- **Host:** Build and deploy a React application on the AWS global content delivery network (CDN).
- **Authenticate:** Add authentication to your app to enable sign-in and sign-out functionality.
- **Database:** Integrate a real-time API, database, and a serverless function.
- **Function:** Implement a lambda function that is triggered when a user signs up to the App.

Prerequisites

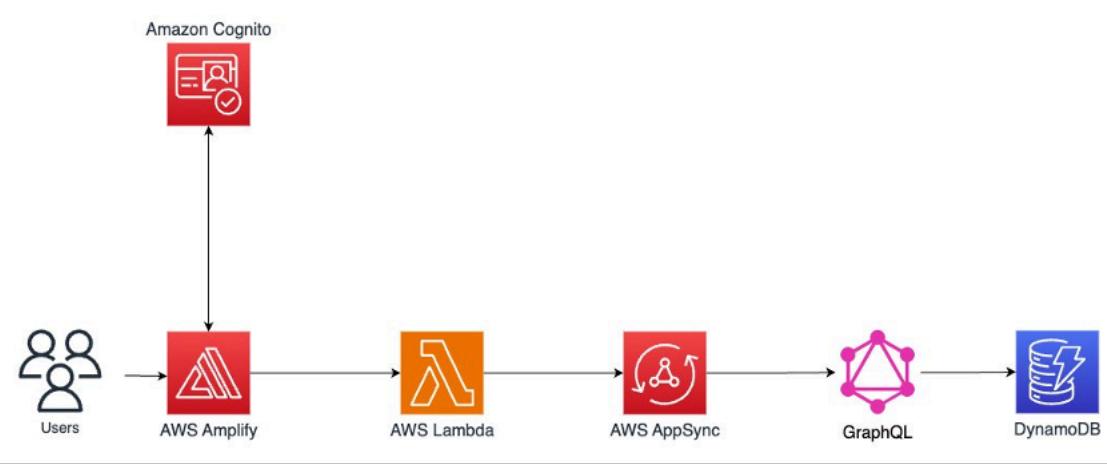
Before starting this tutorial, you will need:

- An **AWS account**: if you don't already have one follow the [Setup Your Environment](#) tutorial.
- **Configure your AWS profile for local development**.
- **Installed** on your environment: [Nodejs](#) and [npm](#).
- **Familiarity** with Git and a [Github](#) account.

Application architecture

The following diagram provides a visual representation of the services used in this tutorial and how they are connected. This application uses AWS Amplify, GraphQL API, AWS Lambda, and Amazon DynamoDB.

As you go through the tutorial, you will learn about the services in detail and find resources that will help you get up to speed with them.



Tasks

This tutorial is divided into six tasks. You must complete each task in order before moving on to the next one.

1. [Task 1: Create a Web App](#) (5 minutes): Deploy static resources for your web application using the AWS Amplify Console.
2. [Task 2: Build a Serverless Function](#) (5 minutes): Build a serverless function using AWS Lambda.

3. [Task 3: Create a Data Table](#) (10 minutes): Persist data in an Amazon DynamoDB table.
4. [Task 4: Link a Serverless Function to a Web App](#) to Web App (5 minutes): Deploy your serverless function with API Gateway.
5. [Task 5: Add Interactivity to Your Web App](#) (5 minutes): Modify your web app to invoke your API.
6. [Task 6: Clean Up Resources](#) (5 minutes): Clean up resources used in this tutorial.

You will be building this web application using the [AWS Management Console](#) accessible directly from your browser.

Task 1: Create a Web App

Minimum time to complete	5 minutes
Services used	AWS Amplify
Requires	A GitHub account GitHub SSH connection Nodejs and npm
Get help	Troubleshooting Amplify How Amplify works

Overview

AWS Amplify offers a Git-based CI/CD workflow for building, deploying, and hosting single-page web applications or static sites with backends. When connected to a Git repository, Amplify determines the build settings for both the frontend framework and any configured backend resources, and automatically deploys updates with every code commit.

In this task, you will start by creating a new React application and pushing it to a GitHub repository. You will then connect the repository to AWS Amplify web hosting and deploy it to a globally available content delivery network (CDN) hosted on an **amplifyapp.com** domain.

Key concepts

React Application: React is a JavaScript library that enables developers to quickly build performant single-page applications.

Git: Git is a version control system that allows developers to store files, maintain and update relationships between files and directories, and track versions and changes to the files.

Implementation

Step 1: Create a new React application

1. Create the app

In a new terminal or command line window, **run** the following command to use Vite to create a React application:

```
npm create vite@latest profilesapp -- --template react
cd profilesapp
npm install
npm run dev
```



```
\aws-testing $npm create vite@latest profilesapp -- --template react
cd profilesapp
npm install
npm run dev
```

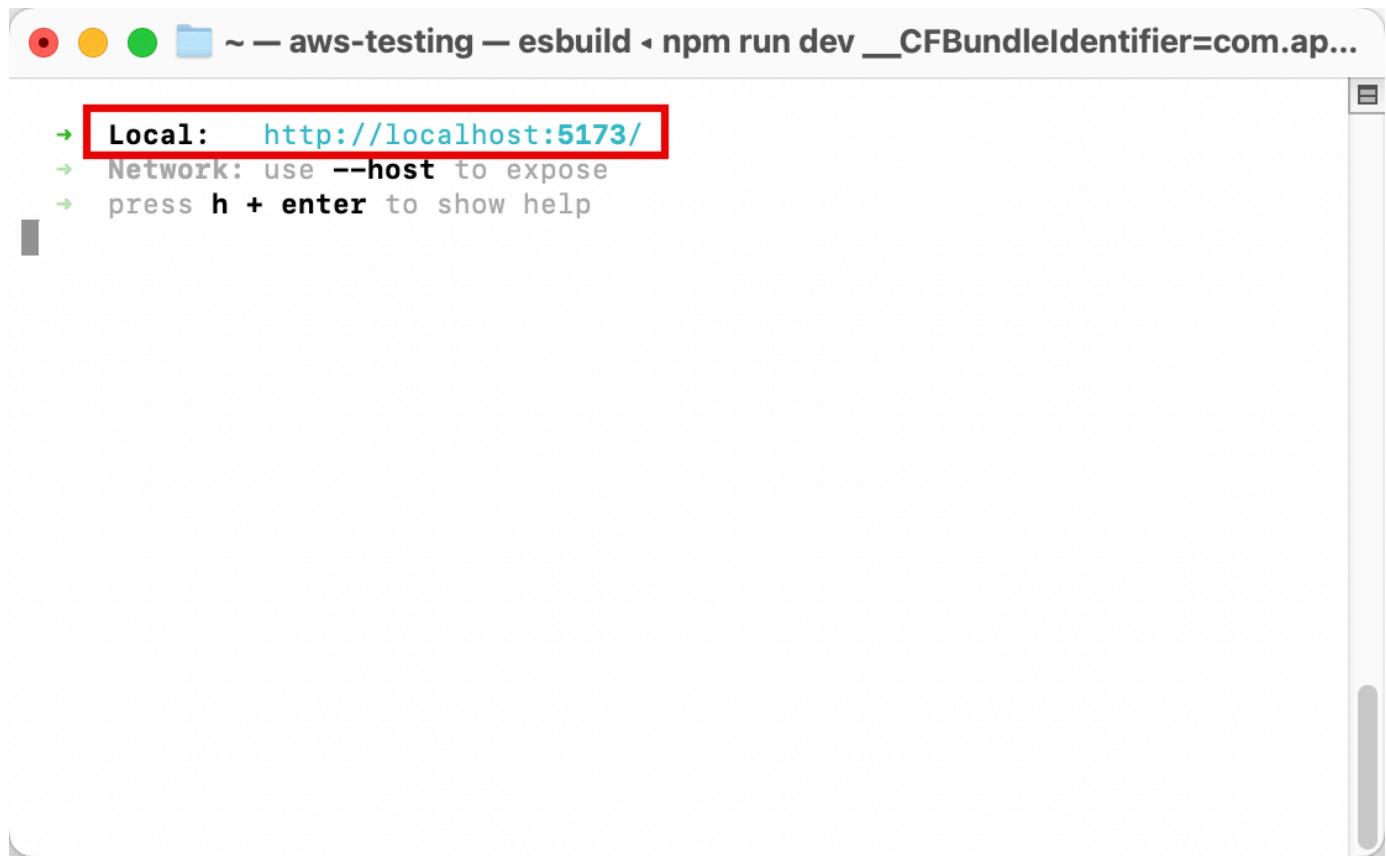
```
> @1.0.0 npx
> create-vite profilesapp --template react
```

```
Scaffolding project in /Users/.../profilesapp...
```

Done. Now run:

2. View the app

In the terminal window, select and open the **Local link** to view the Vite + React application.



The screenshot shows a terminal window with the following text:

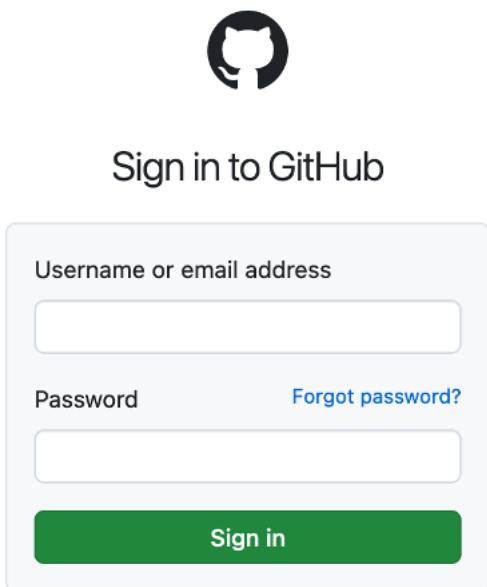
```
aws-testing — esbuild < npm run dev __CFBundleIdentifier=com.ap...  
→ Local: http://localhost:5173/  
→ Network: use --host to expose  
→ press h + enter to show help
```

The URL `http://localhost:5173/` is highlighted with a red box.

Step 2: Install the Amplify packages

1. Open GitHub

Sign in to GitHub at <https://github.com/>.



2. Start repository

In the Start a new repository section, make the following selections:

- For **Repository name**, enter **profilesapp**, and choose the **Public** radio button.
- Then select, **Create a new repository**.

A screenshot of the "Start a new repository" form. The title is "Start a new repository for [redacted]". A descriptive text below says, "A repository contains all of your project's files, revision history, and collaborator discussion." The "Repository name *" field is filled with "profilesapp" and has a red border. Below it, a green checkmark indicates "✓ profilesapp is available.". There are two radio buttons for visibility: "Public" (selected, with a red border) and "Private" (unchecked). The "Public" option is described as "Anyone on the internet can see this repository". The "Private" option is described as "You choose who can see and commit to this repository". At the bottom is a large green button labeled "Create a new repository" with a red border around it.

3. Push the app to GitHub

Open a new terminal window, navigate to your projects root folder (**profilesapp**), and run the following commands to initialize a git and push of the application to the new GitHub repo:

 **Note**

Replace the SSH GitHub URL in the command with your GitHub URL.

```
git init  
git add .  
git commit -m "first commit"  
git remote add origin git@github.com:<your-username>/profilesapp.git  
git branch -M main  
git push -u origin main
```

Step 3: Initialize a GitHub repository

1. Create an Amplify project

Open a new terminal window, **navigate** to your app's root folder (**profilesapp**), and **run** the following command:

```
npm create amplify@latest -y
```

The screenshot shows a terminal window with the following content:

```
\aws-testing $npm create amplify@latest -y
>     @1.0.0 npx
> create-amplify

Installing devDependencies:
- @aws-amplify/backend
- @aws-amplify/backend-cli
- aws-cdk@^2
- aws-cdk-lib@^2
- constructs@^10.0.0
- typescript@^5.0.0
- tsx
- esbuild

Installing dependencies:
- aws-amplify

✓ DevDependencies installed
✓ Dependencies installed
✓ Template files created
Successfully created a new project!

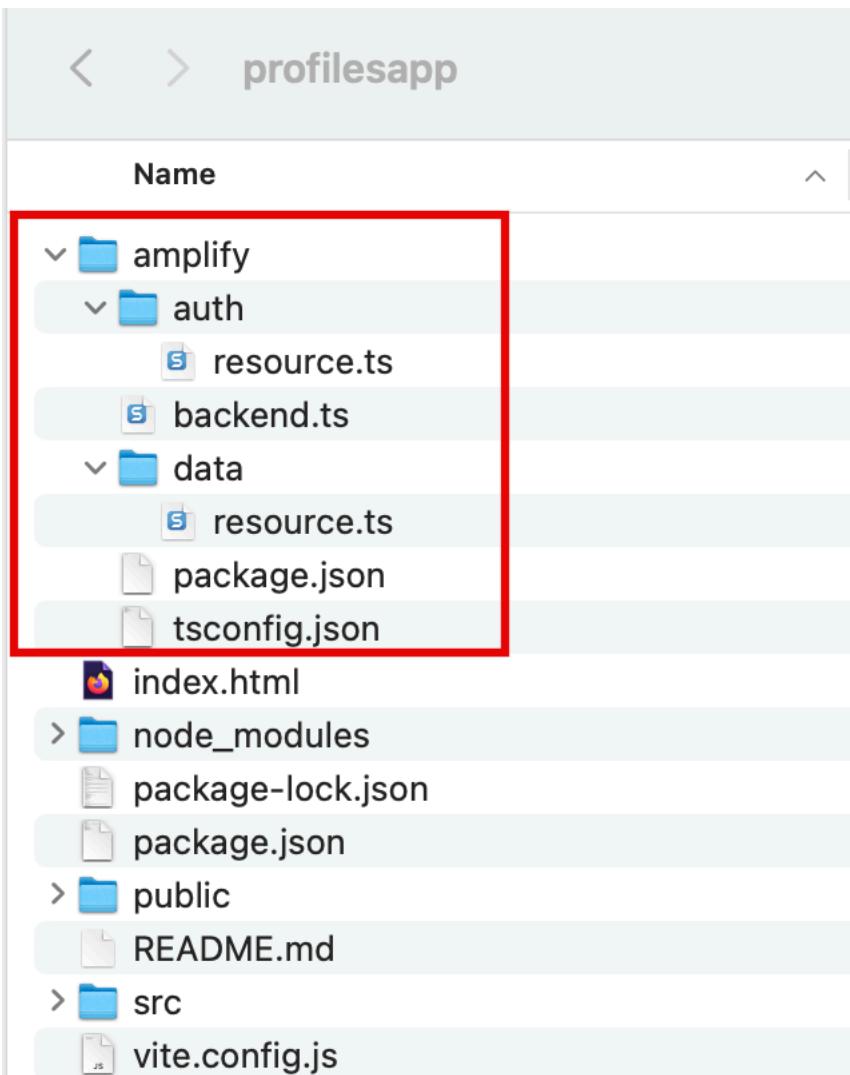
Welcome to AWS Amplify!
- Get started by running npx ampx sandbox.
- Run npx ampx help for a list of available commands.

Amplify Gen 2 collects anonymous telemetry data about general usage of the CLI. Participation is optional, and you may opt-out by using npx ampx configure telemetry disable. To learn more about telemetry, visit https://docs.amplify.aws/gen2/reference/telemetry
```

The terminal window has three colored dots (red, yellow, green) in the top-left corner. The title bar says "aws-testing — zsh — zsh — Basic — ttys001 — 102x33". The bottom of the terminal shows a prompt "\aws-testing \$".

2. View the project directory

Running the previous command will scaffold a lightweight Amplify project in the app's directory.



3. Push the changes to the repository

In your terminal window, **run** the following command to push the changes to GitHub:

```
git add .
git commit -m 'installing amplify'
git push origin main
```

```
Successfully created a new project!

Welcome to AWS Amplify!
- Get started by running npx ampx sandbox.
- Run npx ampx help for a list of available commands.

Amplify Gen 2 collects anonymous telemetry data about general usage of the CLI.
Participation is optional, and you may opt-out by using npx ampx configure telemetry disable. To learn more about telemetry, visit https://docs.amplify.aws/gen2/reference/telemetry

\aws-testing $git add .
git commit -m 'installing amplify'
git push origin main

[main b7d3ba1] installing amplify
 8 files changed, 19190 insertions(+), 1138 deletions(-)
 create mode 100644 amplify/auth/resource.ts
 create mode 100644 amplify/backend.ts
 create mode 100644 amplify/data/resource.ts
 create mode 100644 amplify/package.json
 create mode 100644 amplify/tsconfig.json
```

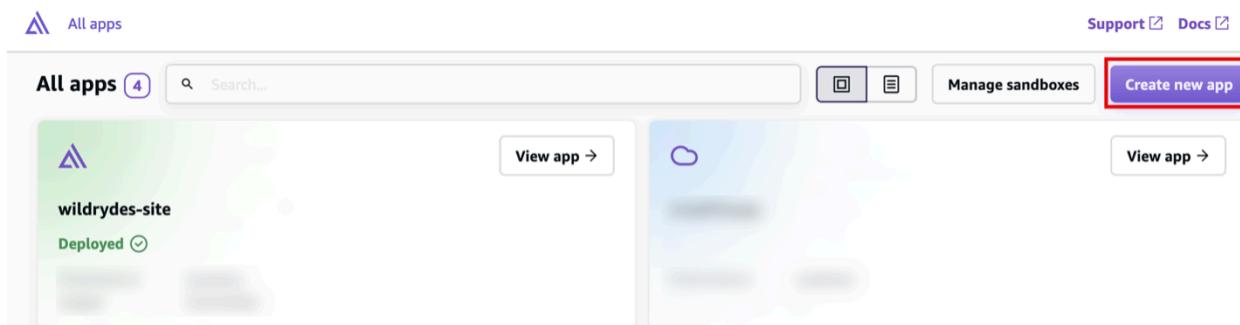
Step 4: Deploy your app with AWS Amplify

In this step, you will connect the GitHub repository you just created to AWS Amplify. This will enable you to build and deploy your app on AWS.

1. Create a new Amplify app

Sign in to the AWS Management console in a new browser window, and open the AWS Amplify console at <https://console.aws.amazon.com/amplify/apps>.

Choose **Create new app**.



2. Choose GitHub as your Git provider

On the **Start building with Amplify** page, for **Deploy your app**, select **GitHub**, and select **Next**.

The screenshot shows the 'Start building with Amplify' page. At the top, it says 'Start building with Amplify' and 'Amplify provides a fully-managed web hosting experience and a backend building service to build fullstack apps. If you need a starter project, please visit the [docs](#)'. Below this, there's a section titled 'Deploy your app' with icons for GitHub, AWS Lambda, AWS VPC, and AWS Lambda. A note says 'To deploy an app from a Git provider, select one of the options below:'. Four boxes are shown: GitHub (selected and highlighted with a red border), BitBucket, CodeCommit, and GitLab. Below these, a note says 'Amplify requires read-only access to your repository.' Under 'To deploy an app manually, select "Deploy without Git"', there's a box with a hand icon and the text 'Deploy without Git'. At the bottom right, there are 'Cancel', 'Previous', and 'Next' buttons, with 'Next' being highlighted with a red box.

3. Add repository and branch

When prompted, **authenticate** with GitHub. You will be automatically redirected back to the Amplify console. Choose the **repository** and **main branch** you created earlier. Then select **Next**.

Add repository and branch

/profilesapp /profilesapp X C

i If you don't see your repository in the dropdown above, ensure the Amplify GitHub App has permissions to the repository. If your repository still doesn't appear, push a commit and click the refresh button. Update GitHub permissions X

main X C

My app is a monorepo

Cancel Previous Next

4. Review build settings

Leave the default **build settings**, and select **Next**.

All apps / Create new app Support Docs

✓ Choose source code provider Next

✓ Add repository and branch Next

● App settings Next

4 Review Next

App settings

App name: profilesapp

Build settings

Your build settings have been detected automatically, please verify your "Frontend build command" and "Build output directory".

Auto-detected frameworks: Amplify Gen 2

Frontend build command: npm run build

Build output directory: dist

Password protect my site

Service role

Amplify requires permissions to deploy backend resources in your account.

Create and use a new service role Service role policies

Use an existing service role

Advanced settings

Cancel Previous Next

5. Deploy the app

Review the inputs selected, and choose **Save and deploy**.

The screenshot shows the AWS Amplify 'Review' step. The sidebar on the left lists steps: 'Choose source code provider' (green checkmark), 'Add repository and branch' (green checkmark), 'App settings' (green checkmark), and 'Review' (blue circle). The main area has three sections:

- Repository details:** Shows 'Repository service' as GitHub, 'Branch' as 'main', and 'Repository' as '/profilesapp'. An 'Edit' button is shown.
- App settings:** Shows 'App name' as 'profilesapp', 'Framework' as 'Amplify Gen 2', 'Frontend build command' as 'npm run build', and 'Build output directory' as 'dist'. An 'Edit' button is shown.
- Advanced settings:** Shows 'Build image' as 'Using default image', 'Environment variables' as 'None', and 'Live package updates'. An 'Edit' button is shown.

At the bottom right, there are 'Cancel', 'Previous', and 'Save and deploy' buttons. The 'Save and deploy' button is highlighted with a red box.

6. Monitor build status

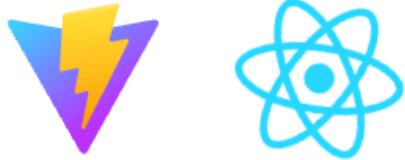
AWS Amplify will now **build** your source code and **deploy** your app at <https://...amplifyapp.com>, and on every git push your deployment instance will update.

It may take up to 5 minutes to deploy your app.

The screenshot shows the AWS Amplify 'Overview' page for the 'profilesapp' app. On the left, a sidebar shows 'Overview', 'Hosting' (selected), and 'App settings'. The main area shows the 'Production branch' section for the 'main' branch, which is 'Deployed'. It displays the domain 'https://main.profilesapp.amplifyapp.com', the last commit date '6/17/2024, 12:31 PM', and the repository 'profilesapp/main'. At the top right, there are 'Manage sandboxes' and 'Visit deployed URL' buttons. A red box highlights the 'Visit deployed URL' button.

7. View the deployed app

Once the build completes, select the **Visit deployed URL** button to see your web app up and running live.



Vite + React

count is 0

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

Conclusion

You have deployed a React application in the AWS Cloud by integrating with GitHub and using AWS Amplify. With AWS Amplify, you can continuously deploy your application in the Cloud and host it on a globally available CDN.

Task 2: Build a Serverless Function

Time to complete	5 minutes
Services used	AWS Lambda AWS Amplify
Requires	A text editor. Here are a few free ones: <ul style="list-style-type: none">• Atom• Notepad++• Sublime• Vim• Visual Studio Code
Get help	Learn more about functions

Overview

Now that you have a React web app, you will use AWS Amplify and AWS Lambda to configure a serverless function. This function is invoked after a signed-up user confirms their user account. AWS Lambda is a compute service that runs your code in response to events and automatically manages the compute resources, making it the fastest way to turn an idea into a modern, production, serverless applications.

Key concepts

Serverless function: Piece of code that will be executed by a compute service, on demand.

Implementation

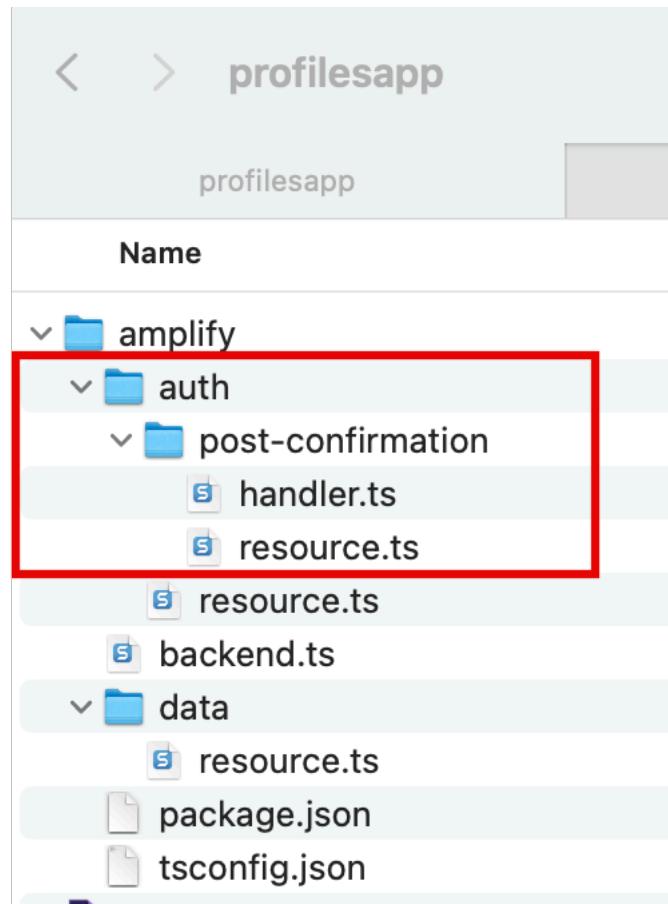
Step 1: Set up an Amplify Function

1. Create files

On your local machine, navigate to the **profilesapp/amplify/auth** folder.

Create a new folder inside the **amplify/auth** folder and name it **post-confirmation**.

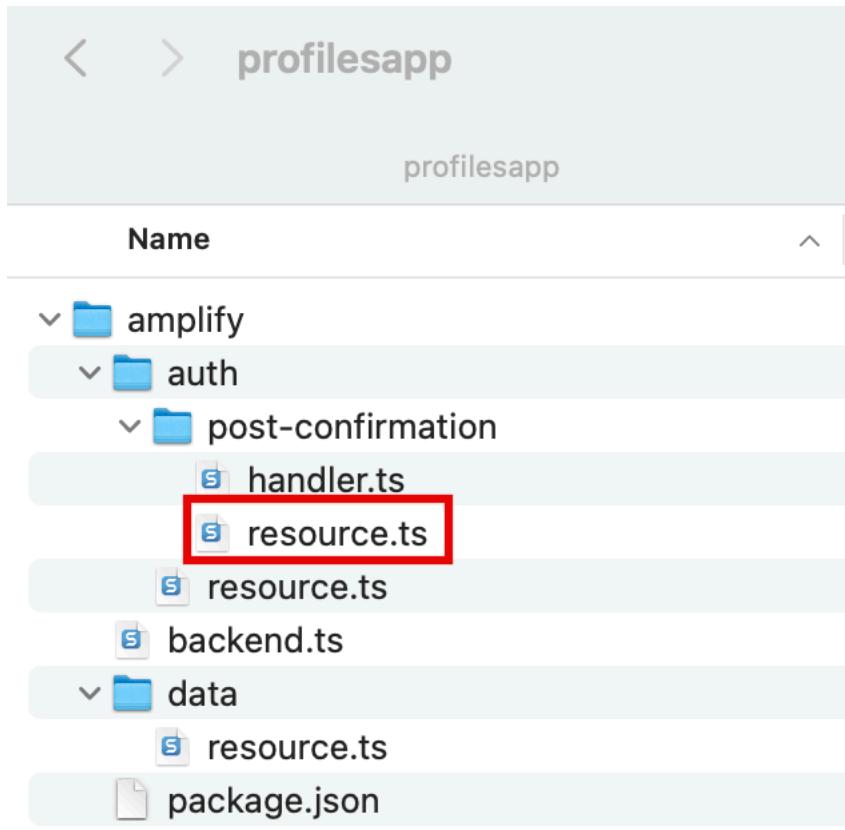
Create the files named **resource.ts** and **handler.ts** inside the folder.



2. Update the resources file

Update the **amplify/auth/post-confirmation/resource.ts** file with the following code to define the **postConfirmation** function. Then, **save** the file.

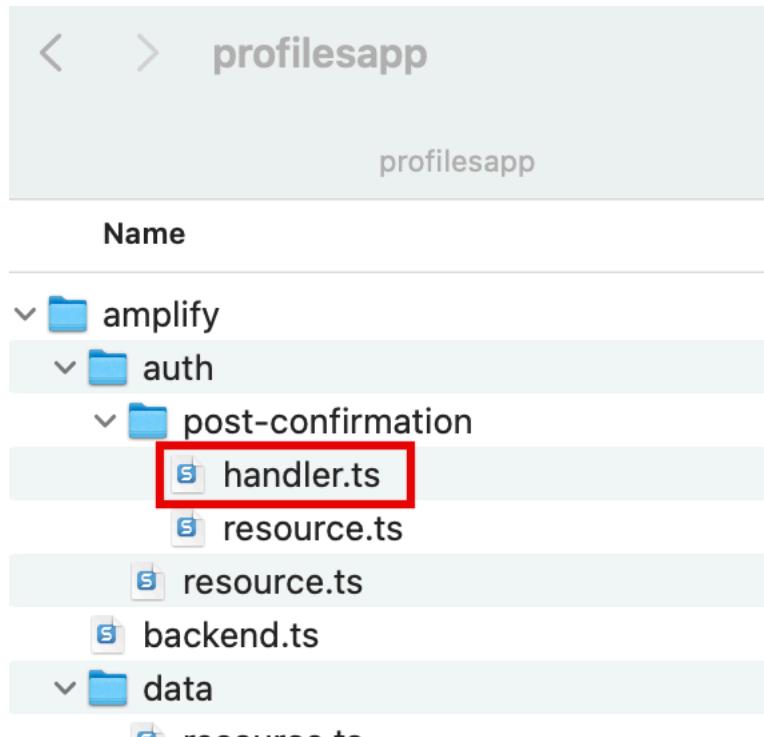
```
import { defineFunction } from '@aws-amplify/backend';
export const postConfirmation = defineFunction({
  name: 'post-confirmation',
});
```



3. Update the handler file

Update the **amplify/auth/post-confirmation/handler.ts** file with the following code to define the function's handler. Then, **save** the file.

```
import type { PostConfirmationTriggerHandler } from "aws-lambda";
export const handler: PostConfirmationTriggerHandler = async (event) => {
  return event;
};
```



Conclusion

You have defined a Lambda function using Amplify.

Task 3: Create a Data Table

Time to complete	5 minutes
Services used	AWS Amplify AWS AppSync
Get help	Troubleshooting Amplify Learn about Data

Overview

In this task, you will create a data model to persist data using a GraphQL API and Amazon DynamoDB. Additionally, you will use AWS Identity and Access Management (IAM) authorization to securely give our services the required permissions to interact with each other. You will also allow the Lambda function you created in the previous task to use the GraphQL API to write to your newly created DynamoDB table using an IAM policy.

Key concepts

Amplify backend: Amplify Gen 2 uses a full stack TypeScript developer experience (DX) for defining backends. Simply author app requirements like data models, business logic, and auth rules in TypeScript. Amplify automatically configures the correct cloud resources and deploys them to per-developer cloud sandbox environments for fast, local iteration.

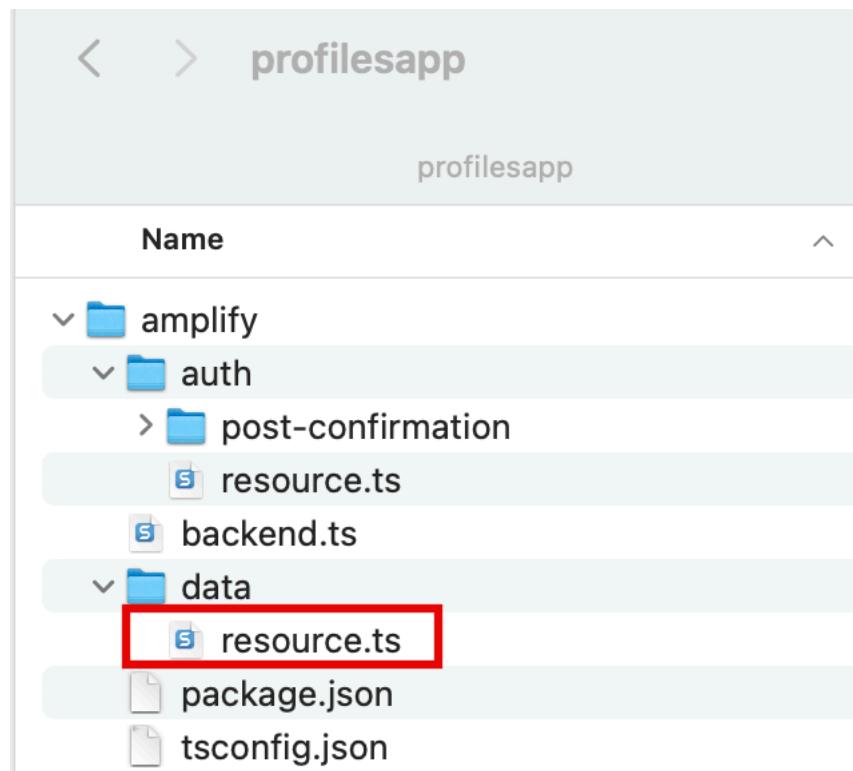
Implementation

Step 1: Set up Amplify Data

1. Update the resource file

On your local machine, navigate to the `amplify/data/resource.ts` file and update it with the code in [this file](#). Then, **save** the file.

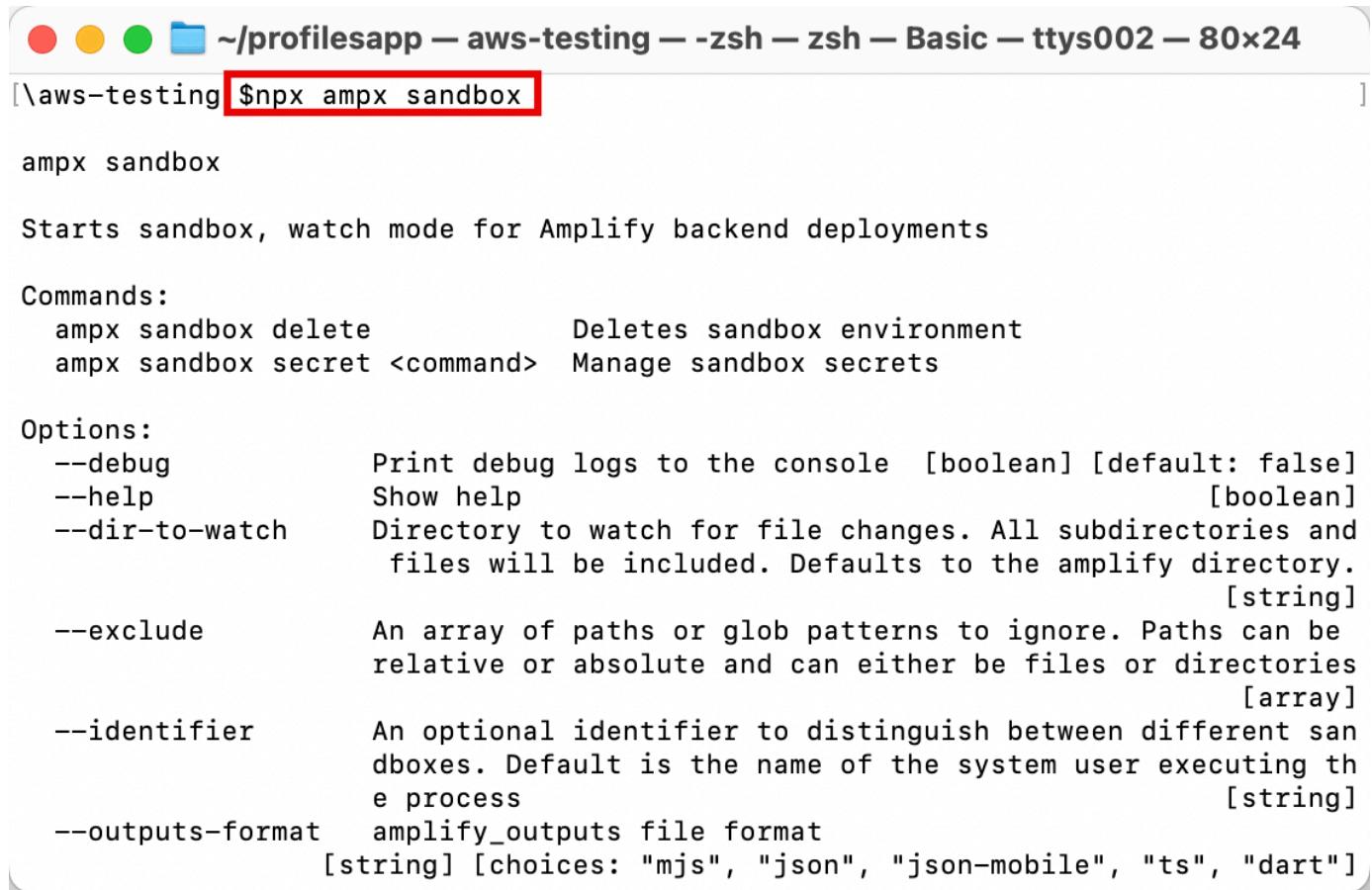
- This code will define the schema for the UserProfile data model using a per-owner authorization rule allow.owner() to restrict the expense record's access to the creator of the record
- It also uses the field profileOwner to track the ownership, and configures the authorization rule to allow the postConfirmation resource.
- Granting access to resources creates environment variables for your function, such as the GraphQL API endpoint.



2. Deploy sandbox

Open a new terminal window, navigate to your app's root folder (**profilesapp**), and run the following command to deploy cloud resources into an isolated development space so you can iterate fast.

```
npx ampx sandbox
```



```
~/profilesapp — aws-testing — -zsh — zsh — Basic — ttys002 — 80x24
\aws-testing $npx ampx sandbox
```

ampx sandbox

Starts sandbox, watch mode for Amplify backend deployments

Commands:

```
ampx sandbox delete          Deletes sandbox environment
ampx sandbox secret <command> Manage sandbox secrets
```

Options:

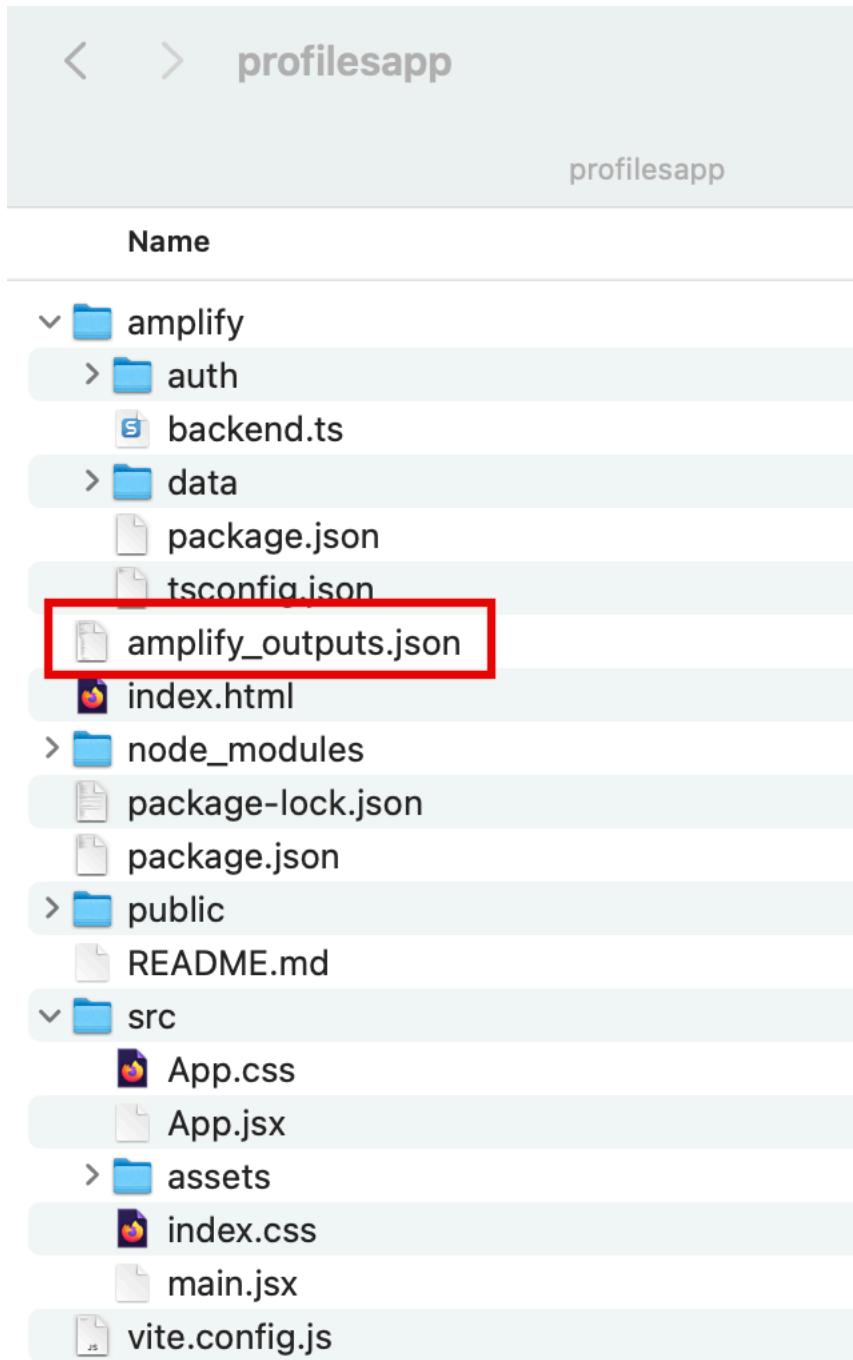
```
--debug                  Print debug logs to the console [boolean] [default: false]
--help                   Show help [boolean]
--dir-to-watch          Directory to watch for file changes. All subdirectories and
                        files will be included. Defaults to the amplify directory. [string]
--exclude                An array of paths or glob patterns to ignore. Paths can be
                        relative or absolute and can either be files or directories [array]
--identifier              An optional identifier to distinguish between different sand
                        boxes. Default is the name of the system user executing th
                        e process [string]
--outputs-format         amplify_outputs file format
                        [string] [choices: "mjs", "json", "json-mobile", "ts", "dart"]
```

3. View confirmation message

Once the cloud sandbox has been fully deployed, your terminal will display a **confirmation message**.

4. Verify outputs file is added to your project

Verify that the `amplify_outputs.json` file was generated and added to your project.



5. Generate GraphQL client code

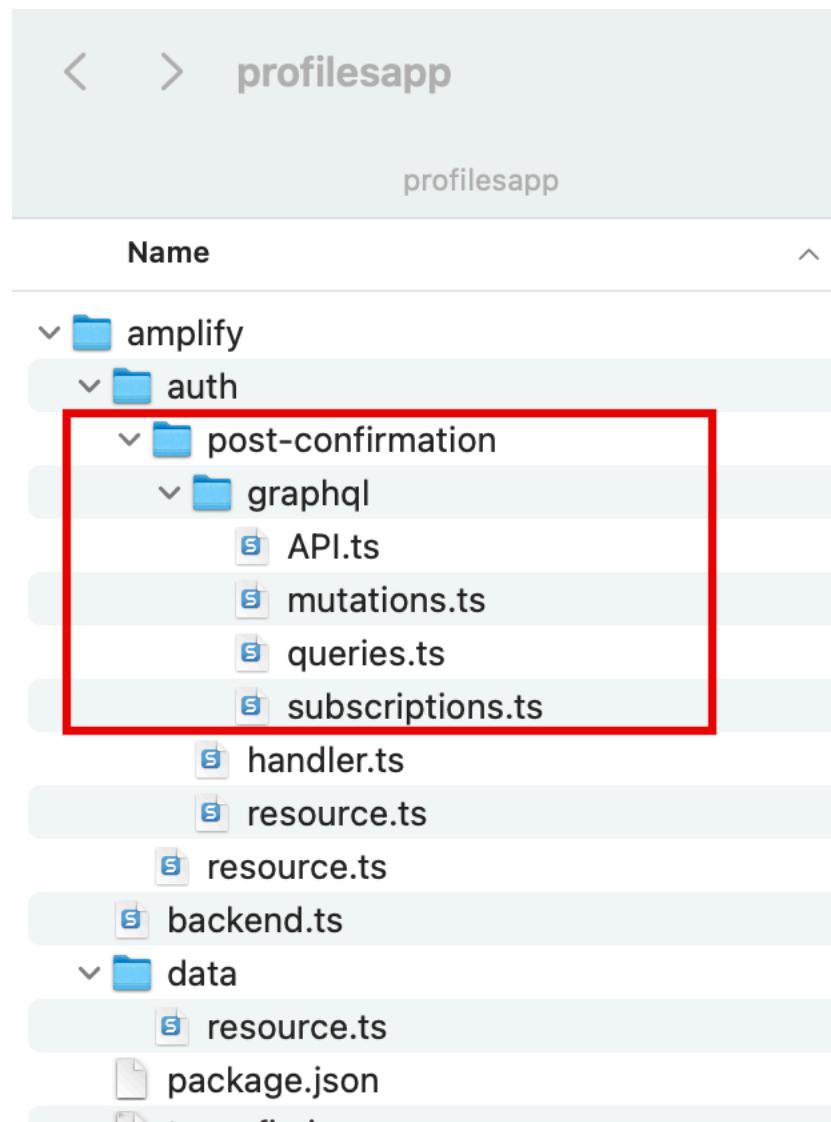
Open a new terminal window, **navigate** to your app's root folder(**profilesapp**), and **run** the following command to generate the GraphQL client code to call your data backend.

Note

You will need to **update** the following command to use the path to the **post-confirmation** folder that you created in the previous step. For example: **npx ampx generate graphql-client-code --out amplify/auth/post-confirmation/graphql**.

```
npx ampx generate graphql-client-code --out <path-to-post-confirmation-handler-dir>/graphql
```

Amplify will create the folder **amplify/auth/post-confirmation/graphql** where you will find the client code to connect to the GraphQL API.

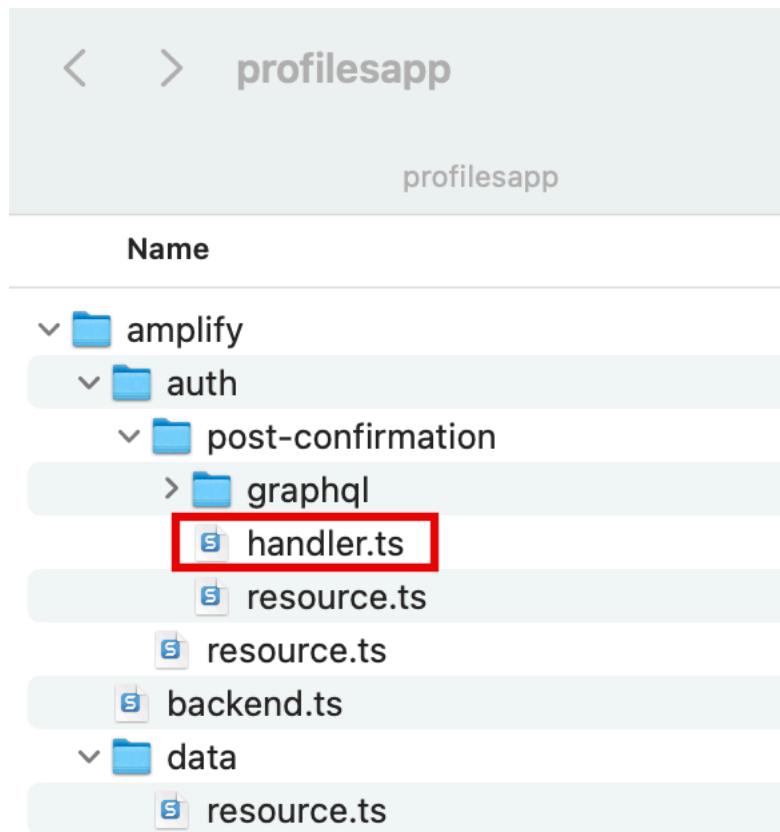


Step 2: Modify Lambda function to connect to the API

- Modify the handler file

On your local machine, navigate to the **amplify/auth/post-confirmation/handler.ts** file and **replace** the code with the code in [this file](#). Then, **save** the file.

This code configures the Amplify using the env variables and sets the authorization to use IAM. It then generates a data client using the generateClient() function. Finally, it uses the data client to create a user profile by setting the email and owner based on the attributes of the signed-up user.



Conclusion

You have created a data table and configured a GraphQL API to persist data in an Amazon DynamoDB database. Then, you updated the Lambda function to use the API.

Task 4: Link a Serverless Function to a Web App

Minimum time to complete	10 minutes
Services used	AWS Amplify
Get help	Troubleshooting Amplify
	Learn about Auth

Overview

In this task, you will update the Amplify Auth resources to use the Lambda function you created in the previous module as an Amazon Cognito post confirmation invocation. When the user completes the sign up, the function will use the GraphQL API and capture the user's email into the DynamoDB table.

Key concepts

Lambda invocation: The type of event that will make a Lambda (serverless) function run. This can be another AWS service or an external input.

Implementation

Step 1: Set up Amplify Auth

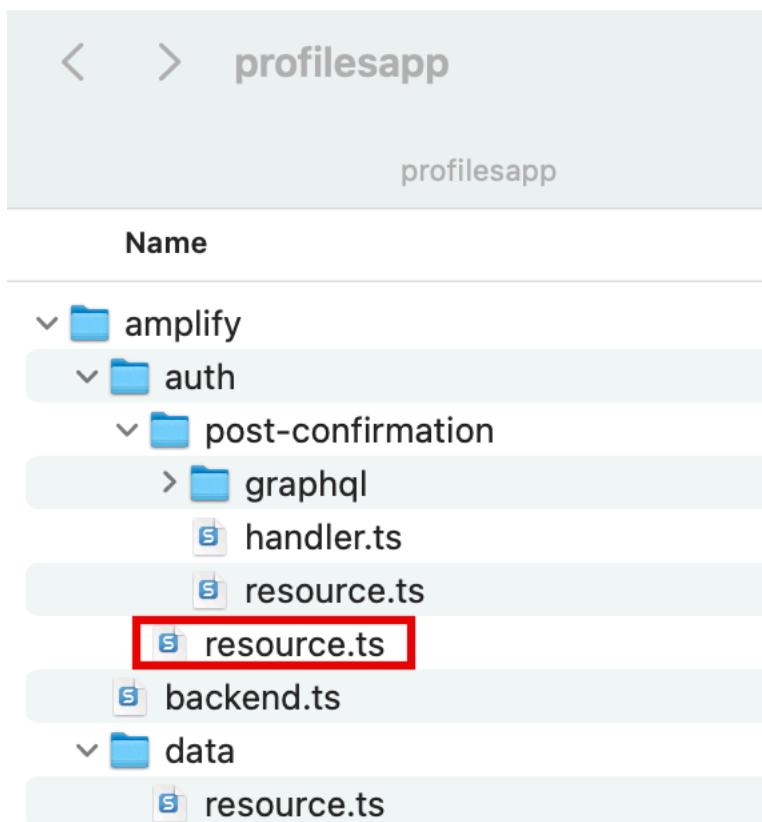
By default, your auth resource is configured allowing the user to sign up using email, but you need to update the resource to invoke the previously created postConfirmation function.

1. Update the resource file

On your local machine, navigate to the `amplify/auth/resource.ts` file and update it with the following code. Then, **save** the file.

```
import { defineAuth } from '@aws-amplify/backend';
import { postConfirmation } from './post-confirmation/resource';
```

```
export const auth = defineAuth({
  loginWith: {
    email: true,
  },
  triggers: {
    postConfirmation
  }
});
```



2. Start the sandbox, if necessary

The sandbox will automatically get updated and redeployed once the file is updated. If the sandbox is not running, you can run the following command in a new terminal window to start it.

```
npx ampx sandbox
```

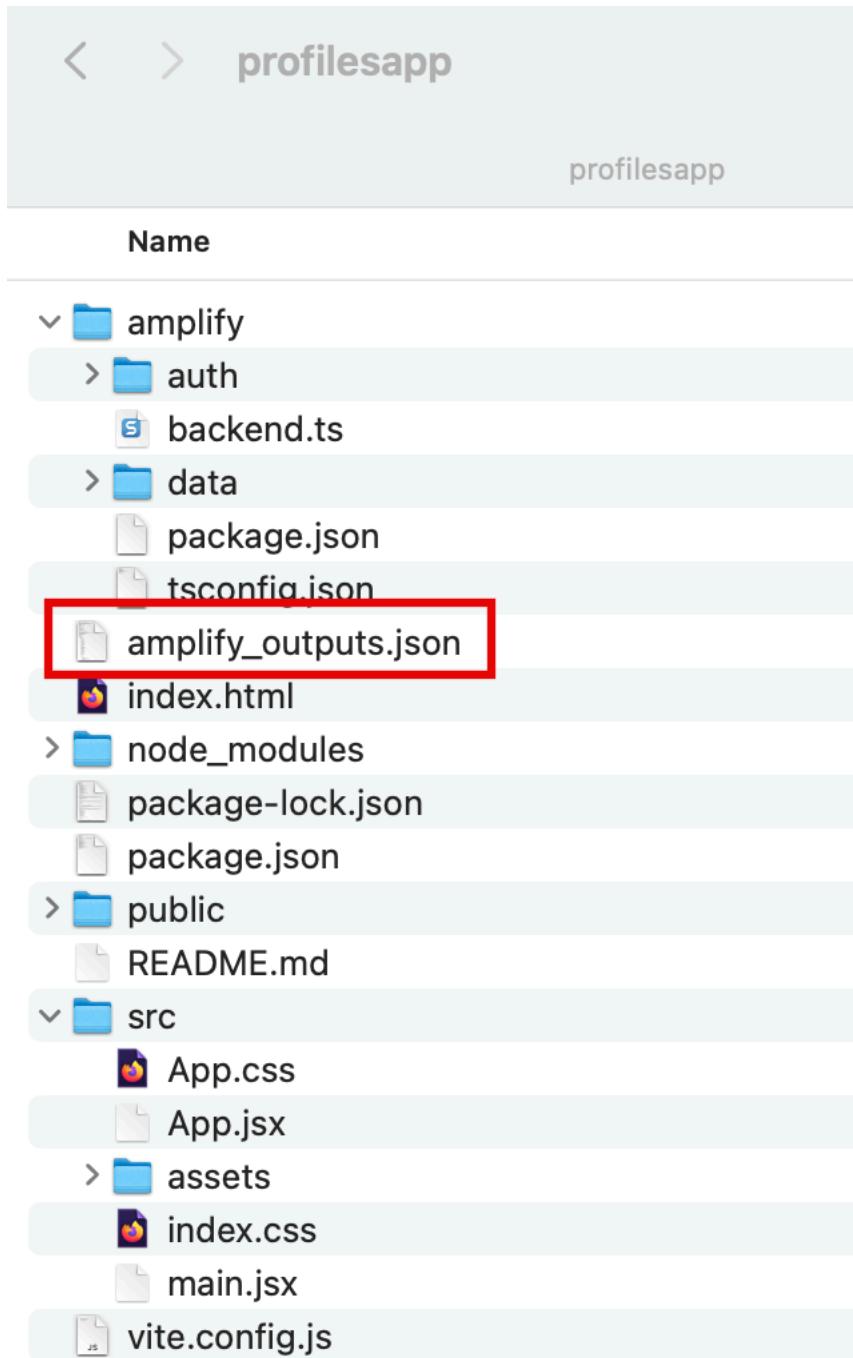
3. View the confirmation message

Once the cloud sandbox has been fully deployed, your terminal will display a **confirmation message**.

```
 ~/profilesapp — aws-testing — node -e npm exec ampx sandbox __CFBundleIdentifier...  
 amplify-profilesapp  
 Stack ARN:  
 arn:aws:cloudformation:us-east-1: :stack/amplify-profilesapp-153  
 —sandbox-1  
 6ba761c9c/381d7e30-  
 ✨ Total time: 192.38s  
  
 [Sandbox] Watching for file changes...  
 File written: amplify_outputs.json
```

4. View the file

The **amplify_outputs.json** file will be **generated/updated** and **added** to your **profilesapp** project.



Conclusion

You used Amplify to configure auth and configured the Lambda function to be invoked when the user signs in to the app.

Task 5: Add Interactivity to Your Web App

Time to complete	5 minutes
Services used	AWS Amplify
Get help	Troubleshooting Amplify Troubleshooting common issues using Amplify UI

Overview

In this task, you will update the website you created in task one to use the Amplify UI component library to scaffold out an entire user authentication flow, allowing users to sign up, sign in, and reset their password and invoke the GraphQL API we created in module three. This will add the ability to display the user's email that was captured using a serverless function.

Key concepts

Amplify libraries: The Amplify libraries allow you to interact with AWS services from a web or mobile application.

Implementation

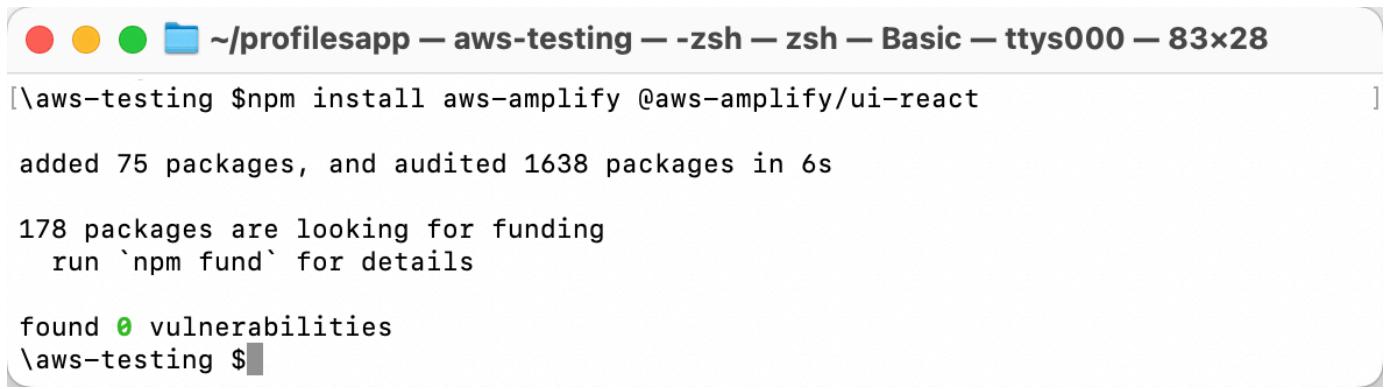
Step 1: Install the Amplify libraries

You will need two Amplify libraries for your project. The main **aws-amplify library** contains all of the client-side APIs for connecting your app's frontend to your backend, and the **@aws-amplify/ui-react** library contains framework-specific UI components.

- Install the libraries

In a new terminal window, in your projects root folder (**profilesapp**), run the following command to install the libraries.

```
npm install aws-amplify @aws-amplify/ui-react
```



A screenshot of a terminal window titled 'aws-testing' showing the output of an npm install command. The terminal shows the command being run, the packages added, audit results, and the final prompt.

```
\aws-testing $npm install aws-amplify @aws-amplify/ui-react
added 75 packages, and audited 1638 packages in 6s
178 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
\aws-testing $
```

Step 2: Style the App UI

You will need two Amplify libraries for your project. The main **aws-amplify library** contains all of the client-side APIs for connecting your app's frontend to your backend, and the **@aws-amplify/ui-react** library contains framework-specific UI components.

- Modify the CSS

On your local machine, navigate to the **profilesapp/src/index.css** file and **update** it with the following code. Then, **save** the file.

```
:root {
  font-family: Inter, system-ui, Avenir, Helvetica, Arial, sans-serif;
  line-height: 1.5;
  font-weight: 400;

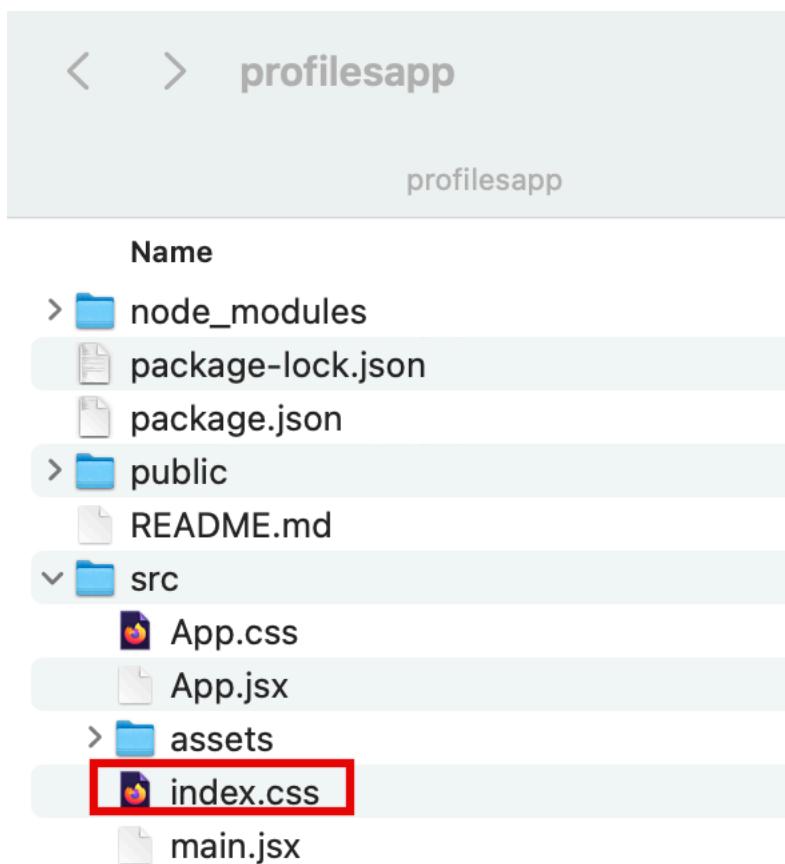
  color: rgba(255, 255, 255, 0.87);

  font-synthesis: none;
  text-rendering: optimizeLegibility;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;

  max-width: 1280px;
  margin: 0 auto;
  padding: 2rem;

}
```

```
.card {  
  padding: 2em;  
}  
  
.read-the-docs {  
  color: #888;  
}  
  
.box:nth-child(3n + 1) {  
  grid-column: 1;  
}  
.box:nth-child(3n + 2) {  
  grid-column: 2;  
}  
.box:nth-child(3n + 3) {  
  grid-column: 3;  
}
```

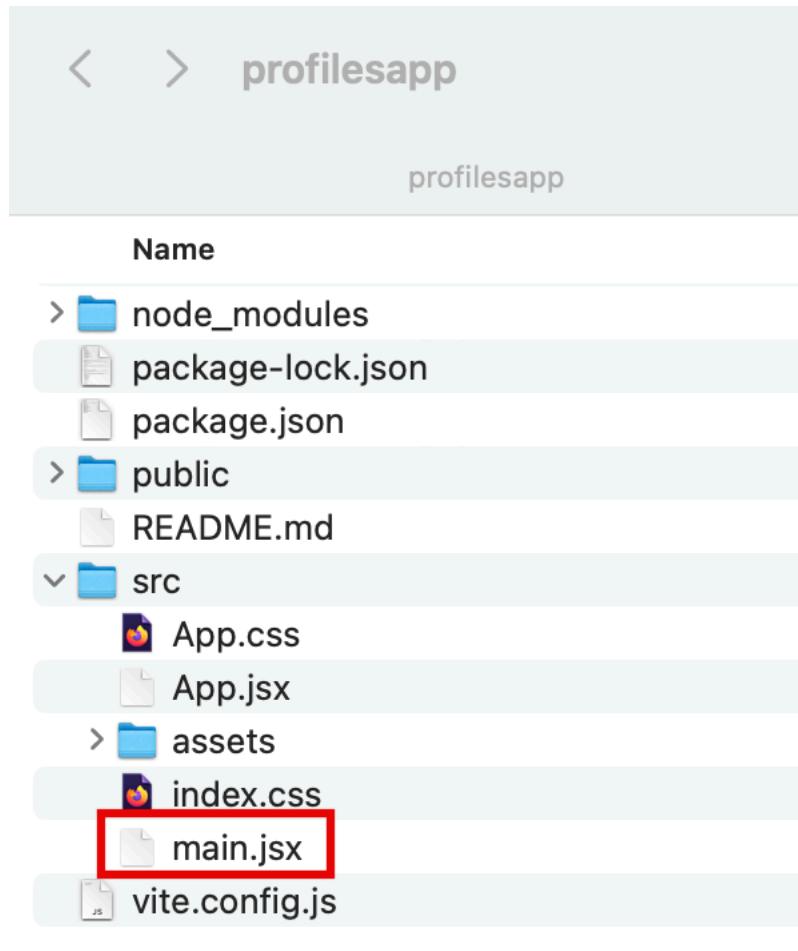


Step 3: Implement the UI

1. Modify the main.jsx file

On your local machine, navigate to the **profilesapp/src/main.jsx** file and **update it with [this code](#)**. Then, **save** the file.

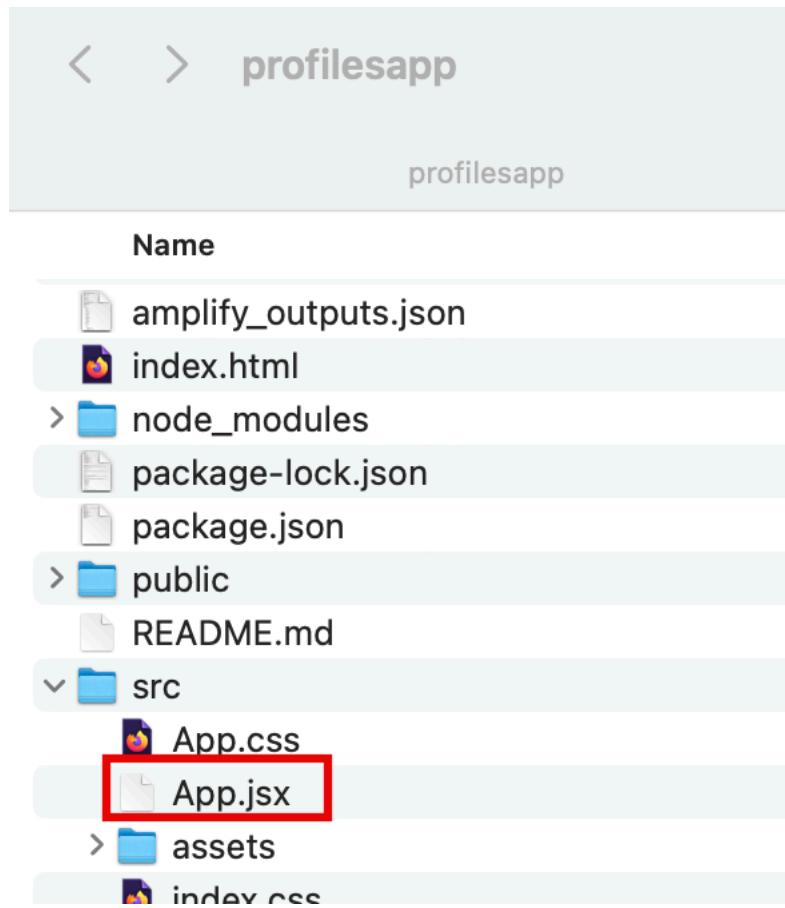
- The code will use the Amplify Authenticator component to scaffold out an entire user authentication flow allowing users to sign up, sign in, reset their password, and confirm sign-in for multifactor authentication (MFA).



2. Modify the app.jsx file

Open the **profilesapp/src/App.jsx** file, and **update it with [this code](#)**. Then, **save** the file.

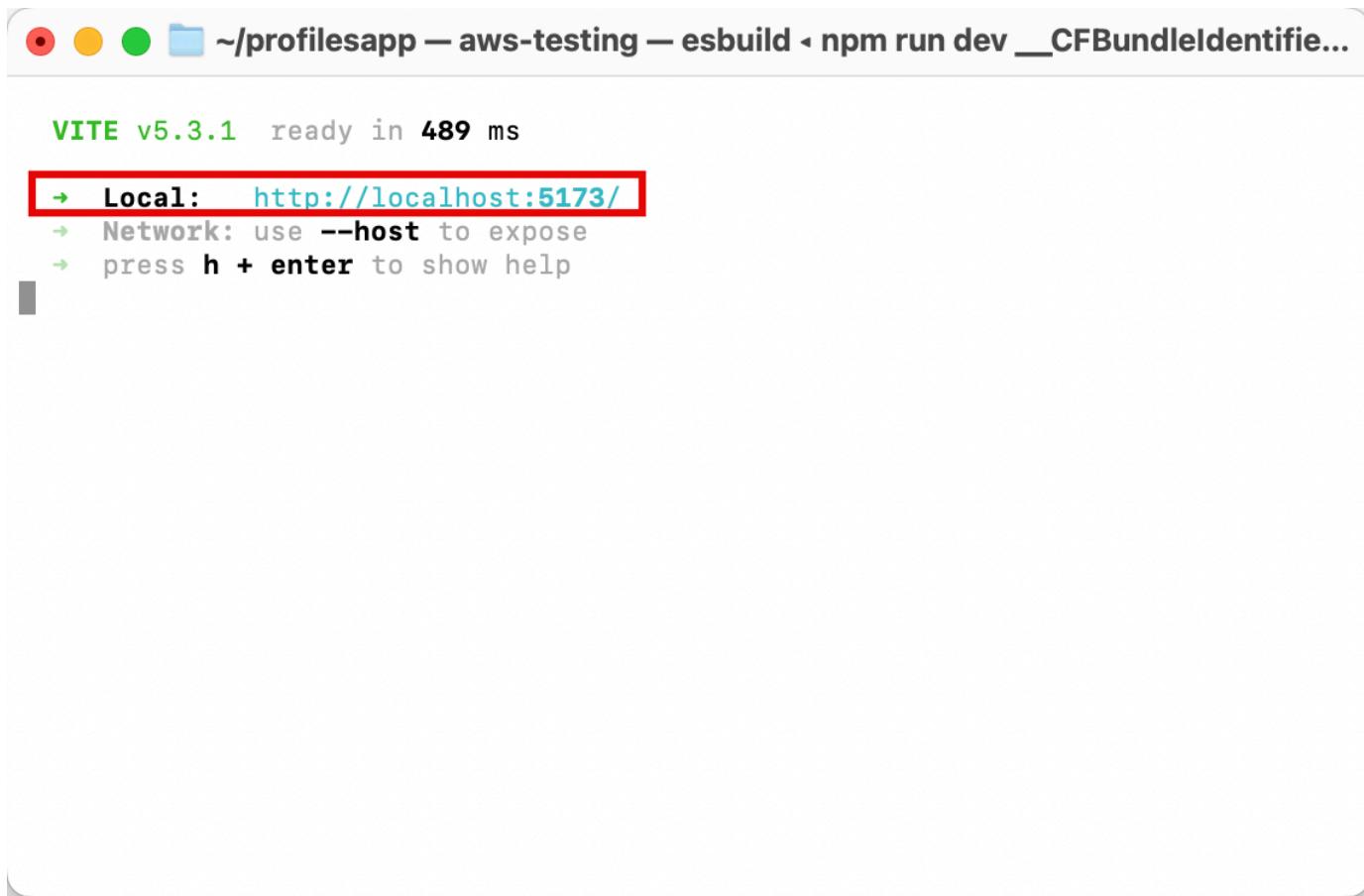
- The code starts by configuring the Amplify library with the client configuration file (**amplify_outputs.json**). It then generates a data client using the **generateClient()** function. The app will use the data client to get the user's profile data.



- Open a new terminal window, **navigate** to your project's root directory (*profilesapp*), and **run** the following command to launch the app:

```
npm run dev
```

- Select the **Local host link** to open the Vite + React application.



```
VITE v5.3.1 ready in 489 ms

→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

5. Create a new user

Choose the **Create Account** tab, and use the authentication flow to create a new user by entering your **email address** and a **password**.

Then, choose **Create Account**.

You will get a verification code sent to your email. Enter the **verification code** to log in to the app.

When signed in, the app will display your email address.

6. Push the changes

In the open terminal window, **run** the following command to push the changes to GitHub:

```
git add .
git commit -m 'displaying user profile'
git push origin main
```

```
~/profilesapp — aws-testing — -zsh — zsh — Basic — ttys000 — 89x32
\[aws-testing $cd profilesapp
\[aws-testing $npm install aws-amplify @aws-amplify/ui-react

added 75 packages, and audited 1642 packages in 4s

178 packages are looking for funding
  run `npm fund` for details

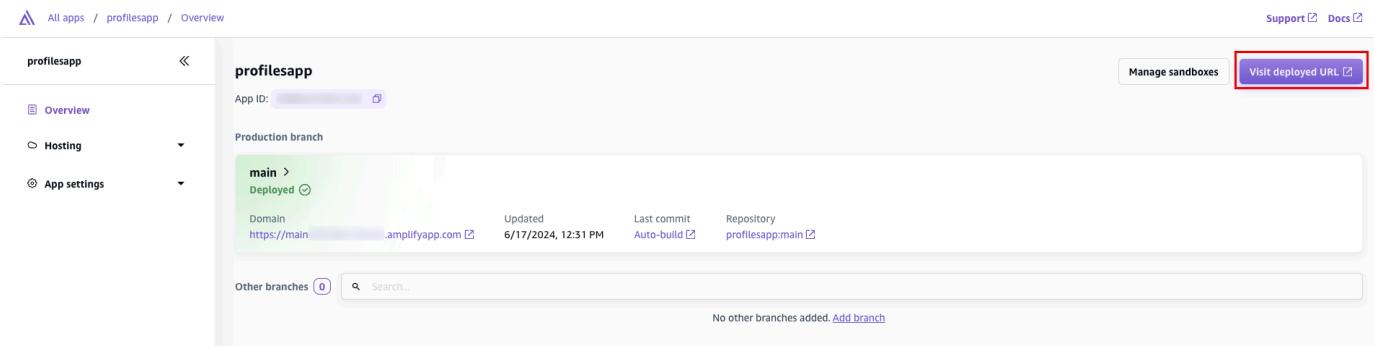
found 0 vulnerabilities
\[aws-testing $
git add .
git commit -m 'displaying user profile'
git push origin main

[main ddc65cc] displaying user profile
 12 files changed, 1638 insertions(+), 222 deletions(-)
 create mode 100644 amplify/auth/post-confirmation/graphql/API.ts
 create mode 100644 amplify/auth/post-confirmation/graphql/mutations.ts
 create mode 100644 amplify/auth/post-confirmation/graphql/queries.ts
 create mode 100644 amplify/auth/post-confirmation/graphql/subscriptions.ts
 create mode 100644 amplify/auth/post-confirmation/handler.ts
 create mode 100644 amplify/auth/post-confirmation/resource.ts
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 12 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (20/20), 13.94 KiB | 1.74 MiB/s, done.
Total 20 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To github.com: [REDACTED]/profilesapp.git
 4b8017f..ddc65cc main -> main
\[aws-testing $
```

7. Verify the deployment instance updates

Sign in to the AWS Management console in a new browser window, and open the AWS Amplify console at <https://console.aws.amazon.com/amplify/apps>.

AWS Amplify automatically builds your source code and deployed your app at <https://...amplifyapp.com>, and on every git push your deployment instance will update. Select the **Visit deployed URL** button to see your web app up and running live.



The screenshot shows the AWS Amplify console interface for the 'profileapp'. On the left, there's a sidebar with navigation links: 'All apps' (selected), 'profileapp' (highlighted in blue), 'Overview' (selected), 'Hosting' (selected), and 'App settings'. The main content area is titled 'profileapp' and shows the 'Production branch' section. It displays the 'main' branch status as 'Deployed'. Key details include: Domain: https://main.amplifyapp.com; Updated: 6/17/2024, 12:31 PM; Last commit: Auto-build; Repository: profileapp/main. Below this, there's a section for 'Other branches' with a search bar and a note: 'No other branches added. [Add branch](#)'. At the top right, there are 'Manage sandboxes' and 'Visit deployed URL' buttons, with the latter being highlighted by a red box.

Task 6: Clean Up Resources

Time to complete

5 minutes

Overview

In this task, you will go through the steps to delete all the resources you created throughout this tutorial. It is a best practice to delete resources you are no longer using to avoid unwanted charges.

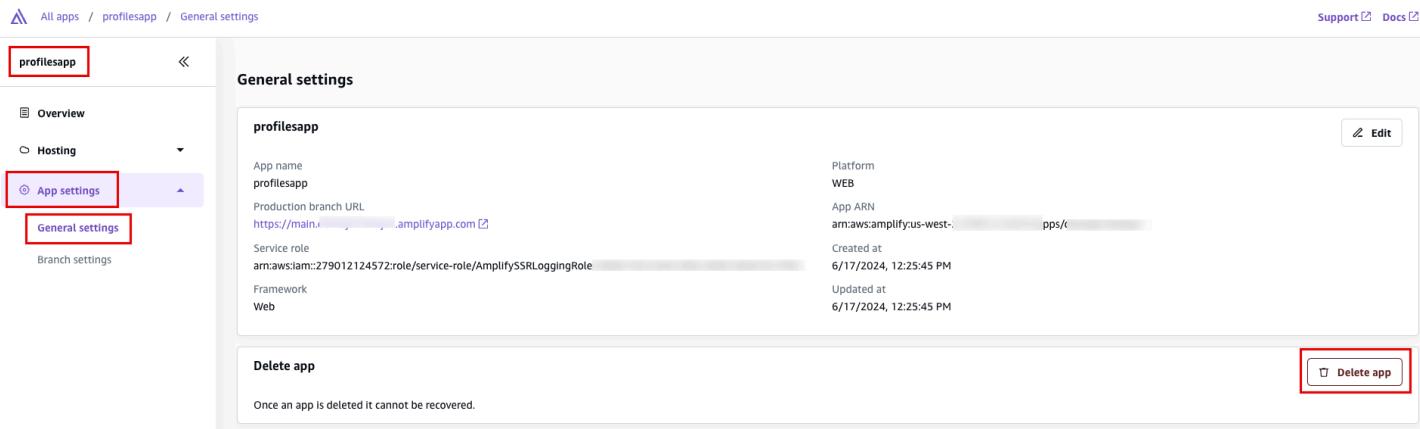
Implementation

Step 1: Open general settings

In the Amplify console, in the left-hand navigation for the **profilesapp**, choose **App settings**, and select **General settings**.

Step 2: Delete the app

In the **General settings** section, choose **Delete app**.



Congratulations

You have created a React web app and used Amplify to configure auth and data resources. Additionally, you created a function to update the data model with the user's details when they sign up. Then, you created frontend to display the captured data. Finally, you used AWS Amplify to host the app!