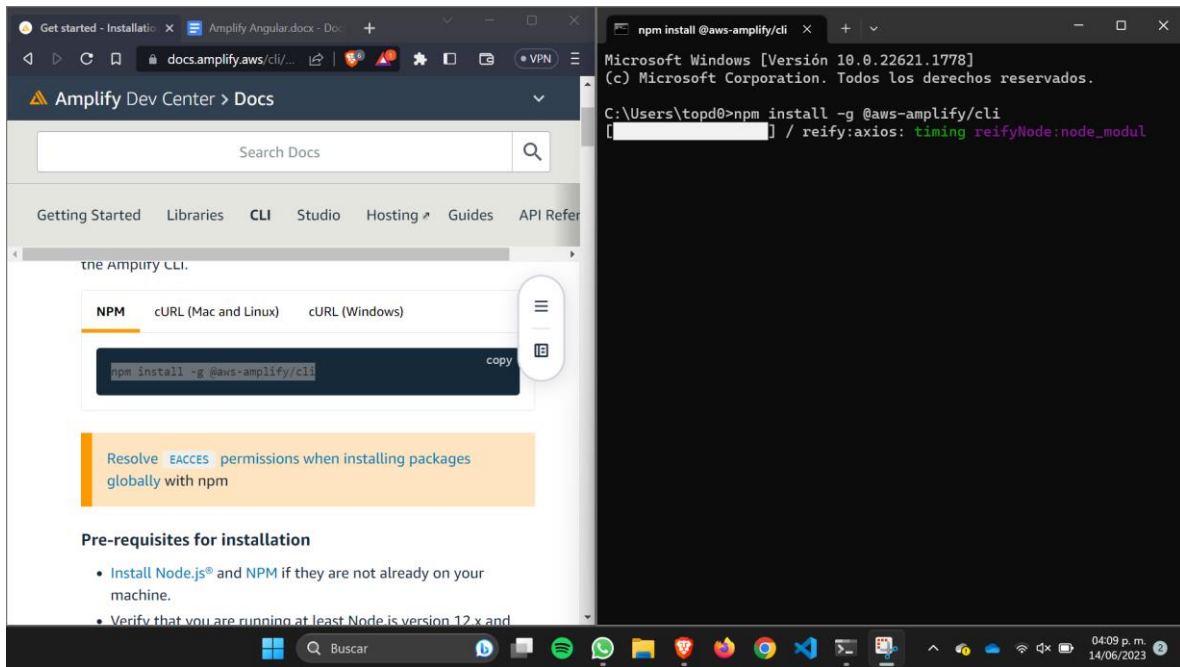
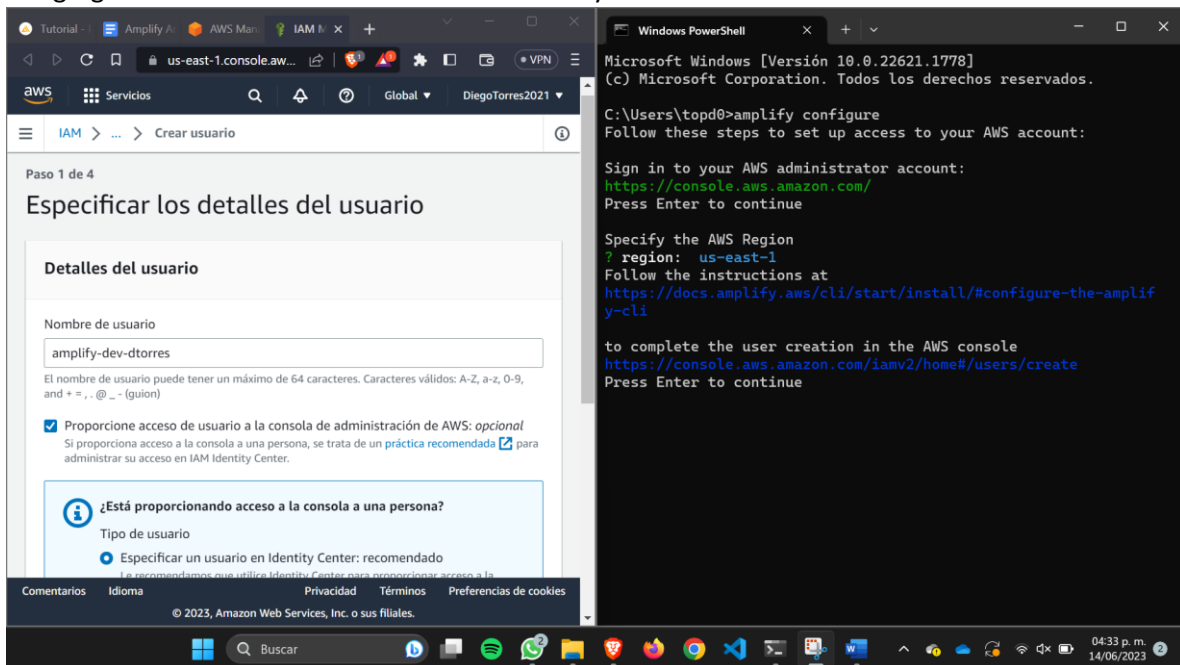


3. Instalando Amplify



4. Agregar autenticación. Crear un nuevo usuario y verificar correo electrónico.



Práctica Amplify.

Diego Torres Pérez.

The first screenshot shows the 'Crear usuario' (Create user) page in the AWS IAM Management Console. The user is named 'amplify-dev-dtorres'. The 'Políticas de permisos' (Permissions policies) section shows a list of policies, with 'AdministratorAccess-Amplify' selected. The 'Entidades asociadas' (Associated entities) column shows '0' for all policies.

The second screenshot shows the 'Detalles de inicio de sesión en la consola' (Console login details) page. It displays the URL for console login: `https://233263886013.signin.aws.amazon.com/console`. The username is 'amplify-dev-dtorres' and the password is masked with asterisks. A 'Mostrar' (Show) button is next to the password field. The page also includes a 'Ver usuario' (View user) button and a 'Descargar archivo.csv' (Download CSV file) button.

5. Configurar el Amplify CLI y como nombre de usuario es: **amplify**-[primer letra de nombre y primer apellido].

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The screenshot shows the AWS IAM console on the left and a Windows PowerShell terminal on the right. The console displays the 'Recuperar claves de acceso' (Recover access keys) page for a user named 'amplify-dev-dtorres'. The terminal shows the execution of the 'amplify configure' command, which prompts for the AWS administrator account, region (us-east-1), and the access key and secret key of the newly created user. The terminal output indicates that the AWS profile 'Amplify_dtorres' has been successfully created and configured.

The screenshot shows the Amplify Dev Center on the left and a Windows PowerShell terminal on the right. The console displays the 'Set up fullstack' tutorial page for Angular. The terminal shows the execution of the 'ng new amplify-app' command, which prompts for the project name and the choice of stylesheet format (CSS or SCSS). The terminal output indicates that the new Angular project 'amplify-app' has been successfully created.

6. Crear un nuevo proyecto angular con el nombre: **amplify**--[primer letra de nombre y primer apellido].

Práctica Amplify.

Diego Torres Pérez.

```
npm install

C:\Users\topd0>npx -p @angular/cli ng new amplify-app-dtorres
Need to install the following packages:
  @angular/cli@16.1.0
Ok to proceed? (y) y
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE amplify-app-dtorres/angular.json (2765 bytes)
CREATE amplify-app-dtorres/package.json (1050 bytes)
CREATE amplify-app-dtorres/README.md (1071 bytes)
CREATE amplify-app-dtorres/tsconfig.json (901 bytes)
CREATE amplify-app-dtorres/.editorconfig (274 bytes)
CREATE amplify-app-dtorres/.gitignore (548 bytes)
CREATE amplify-app-dtorres/tsconfig.app.json (263 bytes)
CREATE amplify-app-dtorres/tsconfig.spec.json (273 bytes)
CREATE amplify-app-dtorres/.vscode/extensions.json (130 bytes)
CREATE amplify-app-dtorres/.vscode/launch.json (470 bytes)
CREATE amplify-app-dtorres/.vscode/tasks.json (938 bytes)
CREATE amplify-app-dtorres/src/main.ts (214 bytes)
CREATE amplify-app-dtorres/src/favicon.ico (948 bytes)
CREATE amplify-app-dtorres/src/index.html (303 bytes)
CREATE amplify-app-dtorres/src/styles.css (80 bytes)
CREATE amplify-app-dtorres/src/app/app-routing.module.ts (245 bytes)
CREATE amplify-app-dtorres/src/app/app.module.ts (393 bytes)
CREATE amplify-app-dtorres/src/app/app.component.html (23115 bytes)
CREATE amplify-app-dtorres/src/app/app.component.spec.ts (1030 bytes)
CREATE amplify-app-dtorres/src/app/app.component.ts (223 bytes)
CREATE amplify-app-dtorres/src/app/app.component.css (0 bytes)
CREATE amplify-app-dtorres/src/assets/.gitkeep (0 bytes)
Installing packages (npm)...
```

Tutorial - Set up | Amplify Angular | IAM Manag...

us-east-1.console.aws.amazon.com

Servicios

IAM > ... > Crear clave de acceso

Clave de acceso

Si pierde u olvida la clave de acceso secreta, no podrá recuperarla. En su lugar, cree una nueva clave de acceso y deje inactiva la antigua.

Clave de acceso

Clave de acceso secreta Copiado

AKIATMT44N26VSKP7C2D

H0+3jge/qQVpkCz7ulsh4i8+tTRyG5

Prácticas recomendadas para la clave de acceso

- Nunca almacene la clave de acceso en texto plano, en un repositorio de código o en el código.
- Desactive o elimine la clave de acceso cuando ya no sea necesaria.
- Habilite los permisos con privilegios mínimos.
- Rote con regularidad las claves de acceso.

Comentarios Idioma Privacidad Términos Preferencias de cookies

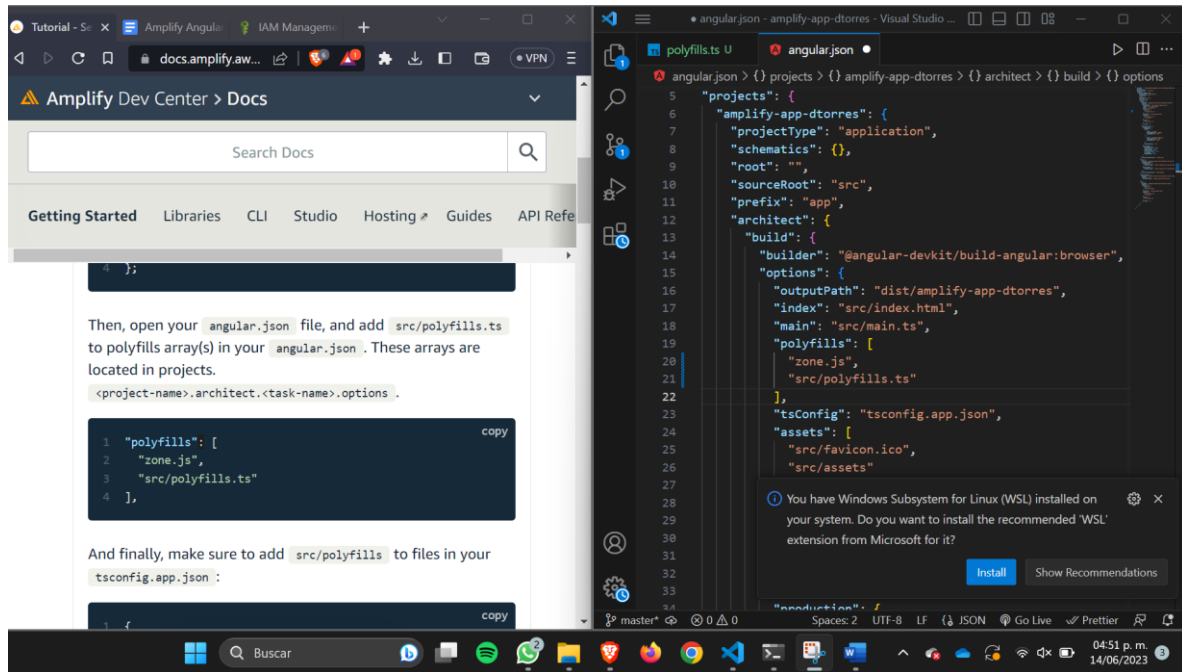
© 2023, Amazon Web Services, Inc. o sus filiales.

```
npm install

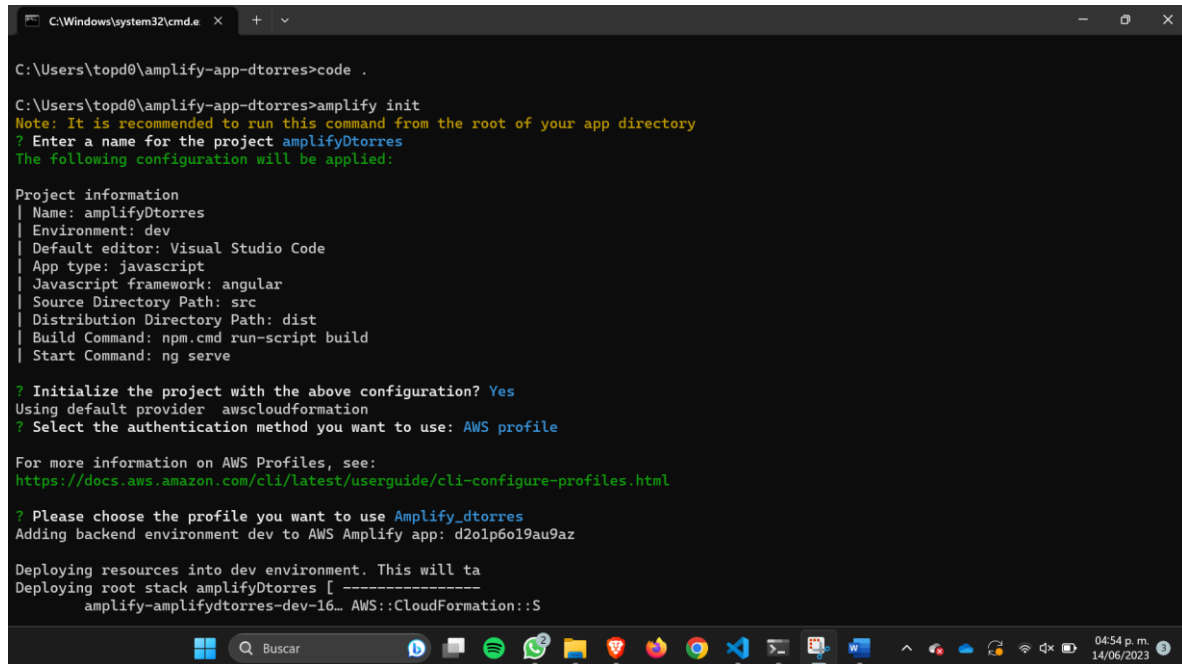
C:\Users\topd0>npx -p @angular/cli ng new amplify-app-dtorres
Need to install the following packages:
  @angular/cli@16.1.0
Ok to proceed? (y) y
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE amplify-app-dtorres/angular.json (2765 bytes)
CREATE amplify-app-dtorres/package.json (1050 bytes)
CREATE amplify-app-dtorres/README.md (1071 bytes)
CREATE amplify-app-dtorres/tsconfig.json (901 bytes)
CREATE amplify-app-dtorres/.editorconfig (274 bytes)
CREATE amplify-app-dtorres/.gitignore (548 bytes)
CREATE amplify-app-dtorres/tsconfig.app.json (263 bytes)
CREATE amplify-app-dtorres/tsconfig.spec.json (273 bytes)
CREATE amplify-app-dtorres/.vscode/extensions.json (130 bytes)
CREATE amplify-app-dtorres/.vscode/launch.json (470 bytes)
CREATE amplify-app-dtorres/.vscode/tasks.json (938 bytes)
CREATE amplify-app-dtorres/src/main.ts (214 bytes)
CREATE amplify-app-dtorres/src/favicon.ico (948 bytes)
CREATE amplify-app-dtorres/src/index.html (303 bytes)
CREATE amplify-app-dtorres/src/styles.css (80 bytes)
CREATE amplify-app-dtorres/src/app/app-routing.module.ts (245 by
tes)
CREATE amplify-app-dtorres/src/app/app.module.ts (393 bytes)
CREATE amplify-app-dtorres/src/app/app.component.html (23115 byt
es)
CREATE amplify-app-dtorres/src/app/app.component.spec.ts (1030 b
ytes)
CREATE amplify-app-dtorres/src/app/app.component.ts (223 bytes)
CREATE amplify-app-dtorres/src/app/app.component.css (0 bytes)
```

Práctica Amplify.

Diego Torres Pérez.



7. Crear un **Amplify Backend**, ingresar el nombre del proyecto: **amplify--**[primer letra de nombre y primer apellido]



Práctica Amplify.

Diego Torres Pérez.

```
C:\Windows\system32\cmd.e x + v

UnauthRole AWS::IAM::Role

/ Help improve Amplify CLI by sharing non sensitive configurations on failures (y/n) · yes

Deployment state saved successfully.
/ Initialized provider successfully.
✓ Initialized your environment successfully.

Your project has been successfully initialized and connected to the cloud!

Some next steps:
"amplify status" will show you what you've added already and if it's locally configured or deployed
"amplify add <category>" will allow you to add features like user login or a backend API
"amplify push" will build all your local backend resources and provision it in the cloud
"amplify console" to open the Amplify Console and view your project status
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud

Pro tip:
Try "amplify add api" to create a backend API and then "amplify push" to deploy everything

C:\Users\topd0\amplify-app-dtorres>
```

8. Conecta con la base de datos **GraphQL**, pegar pantalla donde insertes restaurantes y lo puedas ver en dos navegadores.

The screenshot displays two windows side-by-side. The left window is the AWS IAM console, showing the 'Clave de acceso' (Access Key) page. It includes a warning about the security of access keys and a table with the following details:

Clave de acceso	Clave de acceso secreta
AKIATMT44N26VSKP7C2D	H0+3jge/qQVpkCz7ulsh4i8+tTRyGy

Below the table, there are 'Prácticas recomendadas para la clave de acceso' (Recommended practices for the access key):

- Nunca almacene la clave de acceso en texto plano, en un repositorio de código o en el código.
- Desactive o elimine la clave de acceso cuando ya no sea necesaria.
- Habilite los permisos con privilegios mínimos.
- Rote con regularidad las claves de acceso.

The right window is a terminal running the Amplify CLI. It shows the command 'amplify add api' being executed, which prompts the user to select a schema template. The user selects 'Single object with fields (e.g., "Todo" with ID, name, description)'. The terminal then shows the GraphQL schema being added successfully.

```
C:\Users\topd0\amplify-app-dtorres>amplify add api
? Select from one of the below mentioned services: GraphQL
? Here is the GraphQL API that we will create. Select a setting to edit or continue Continue
? Choose a schema template: (Use arrow keys)
> Single object with fields (e.g., "Todo" with ID, name, description)
? Choose a schema template: Single object with fields (e.g., "To do" with ID, name, description)

▲ WARNING: your GraphQL API currently allows public create, read, update, and delete access to all models via an API Key. To configure PRODUCTION-READY authorization rules, review: https://docs.amplify.aws/cli/graphql/authorization-rules

✓ GraphQL schema compiled successfully.

Edit your schema at C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydrtorres\schema.graphql or place .graphql files in a directory at C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydrtorres\schema
/ Do you want to edit the schema now? (Y/n) · yes
Edit the file in your editor: C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydrtorres\schema.graphql
✓ Successfully added resource amplifydrtorres locally

✓ Some next steps:
"amplify push" will build all your local backend resources and provision it in the cloud
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud
```

Práctica Amplify.

Diego Torres Pérez.

```
C:\Windows\system32\cmd.exe
? Do you want to generate/update all possible GraphQL operations - queries, mutations and subscriptions Yes
? Enter maximum statement depth [increase from default if your schema is deeply nested] 2
? Enter the file name for the generated code src\app\API.service.ts
Deploying resources into dev environment. This will take
Deploying root stack amplifyDtorres [ =====
  amplify-amplifydtorres-dev-16... AWS::CloudFormation::S
  apiamplifydtorres                AWS::CloudFormation::S
Deploying api amplifydtorres [ =====
  GraphQLAPI                       AWS::AppSync::GraphQLA
Deployment completed.
Deploying root stack amplifyDtorres [ =====
  amplify-amplifydtorres-dev-16... AWS::CloudFormation::S
  apiamplifydtorres                AWS::CloudFormation::S
Deployed api amplifydtorres [ =====
  GraphQLAPI                       AWS::AppSync::GraphQLA
  GraphQLAPITransformerSchema3C... AWS::AppSync::GraphQLS
  GraphQLAPINONEDS95A13CF8        AWS::AppSync::DataSou
  GraphQLAPIDefaultApiKey215A6D... AWS::AppSync::ApiKey
  Restaurant                      AWS::CloudFormation::S
  GraphQLAPINONEDS95A13CF8        AWS::AppSync::DataSou
? Generated GraphQL operations successfully and saved at src\graphql
? Code generated successfully and saved in file src\app\API.service.ts
Deployment state saved successfully.

GraphQL endpoint: https://2rfjbylivaxjobu5upph5ptky.appsync-api.us-east-1.amazonaws.com/graphql
GraphQL API KEY: da2-e3tpt5tkvrddtkoapkjke6wcu

GraphQL transformer version: 2

C:\Users\topd0\amplify-app-dtorres>npm start
```

AmplifyAppDtorres

localhost4...

Name:

Description:

City:

Submit

SM

Restaurante 2

Prueba Registro 2

DH

Restaurante 1

Prueba de Registro

AmplifyAppDtorres

localhost4...

Name:

Description:

City:

Submit

SM

Restaurante 2

Prueba Registro 2

DH

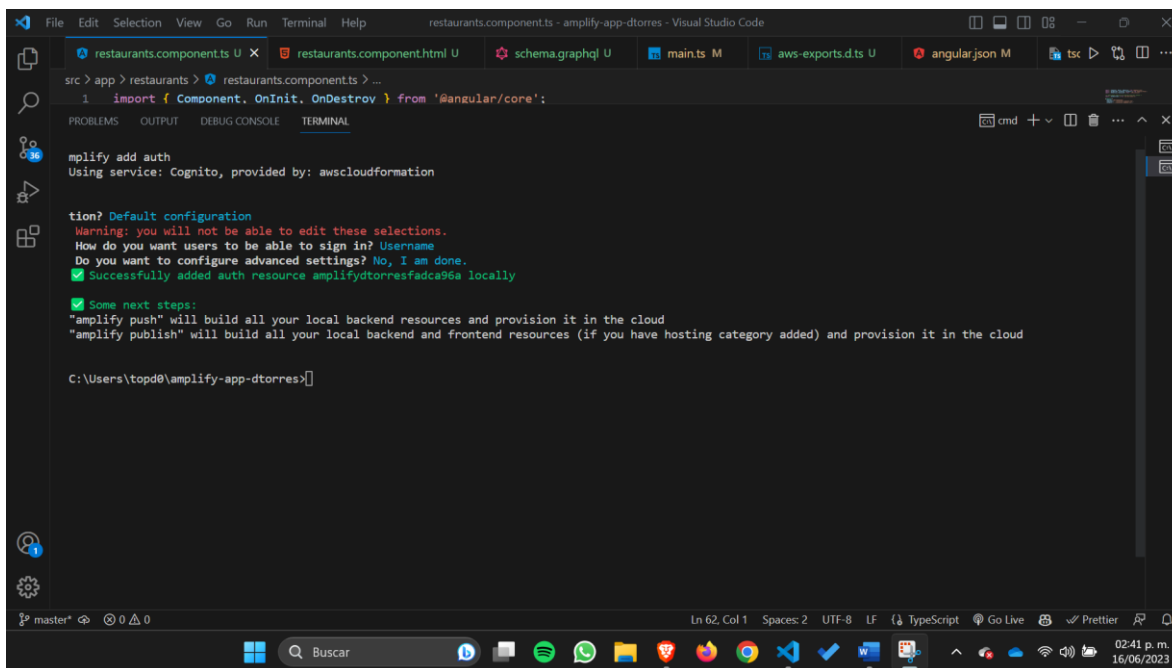
Restaurante 1

Prueba de Registro

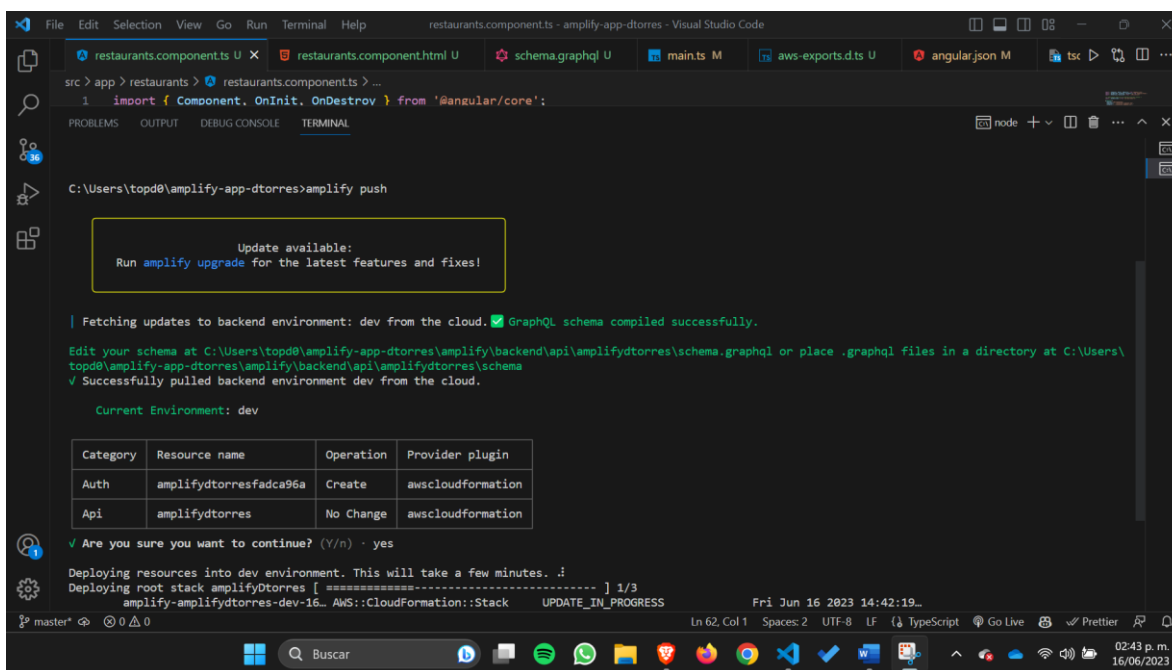
9. Despliega la aplicación y prueba con URL.

Práctica Amplify.

Diego Torres Pérez.



```
src > app > restaurants > restaurants.component.ts > ...  
1 import { Component, OnInit, OnDestroy } from '@angular/core';  
  
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL  
amplify add auth  
Using service: Cognito, provided by: awscloudformation  
  
tion? Default configuration  
Warning: you will not be able to edit these selections.  
How do you want users to be able to sign in? Username  
Do you want to configure advanced settings? No, I am done.  
✔ Successfully added auth resource amplifytorresfadca96a locally  
  
✔ Some next steps:  
"amplify push" will build all your local backend resources and provision it in the cloud  
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud  
  
C:\Users\topd0\amplify-app-dtorres>
```



```
C:\Users\topd0\amplify-app-dtorres>amplify push  
  
Update available:  
Run amplify upgrade for the latest features and fixes!  
  
| Fetching updates to backend environment: dev from the cloud. ✔ GraphQL schema compiled successfully.  
Edit your schema at C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydortres\schema.graphql or place .graphql files in a directory at C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydortres\schema  
✔ Successfully pulled backend environment dev from the cloud.  
  
Current Environment: dev  


| Category | Resource name          | Operation | Provider plugin   |
|----------|------------------------|-----------|-------------------|
| Auth     | amplifydortresfadca96a | Create    | awscloudformation |
| Api      | amplifydortres         | No Change | awscloudformation |

  
✔ Are you sure you want to continue? (Y/n) · yes  
  
Deploying resources into dev environment. This will take a few minutes. :  
Deploying root stack amplifyDortres [ ===== ] 1/3  
amplify-amplifydortres-dev-16_ AWS::CloudFormation::Stack UPDATE_IN_PROGRESS  
  
Fri Jun 16 2023 14:42:19_
```


Práctica Amplify.

Diego Torres Pérez.

```
src > app > restaurants > restaurants.component.ts > ...
1 import { Component, OnInit, OnDestroy } from '@angular/core';

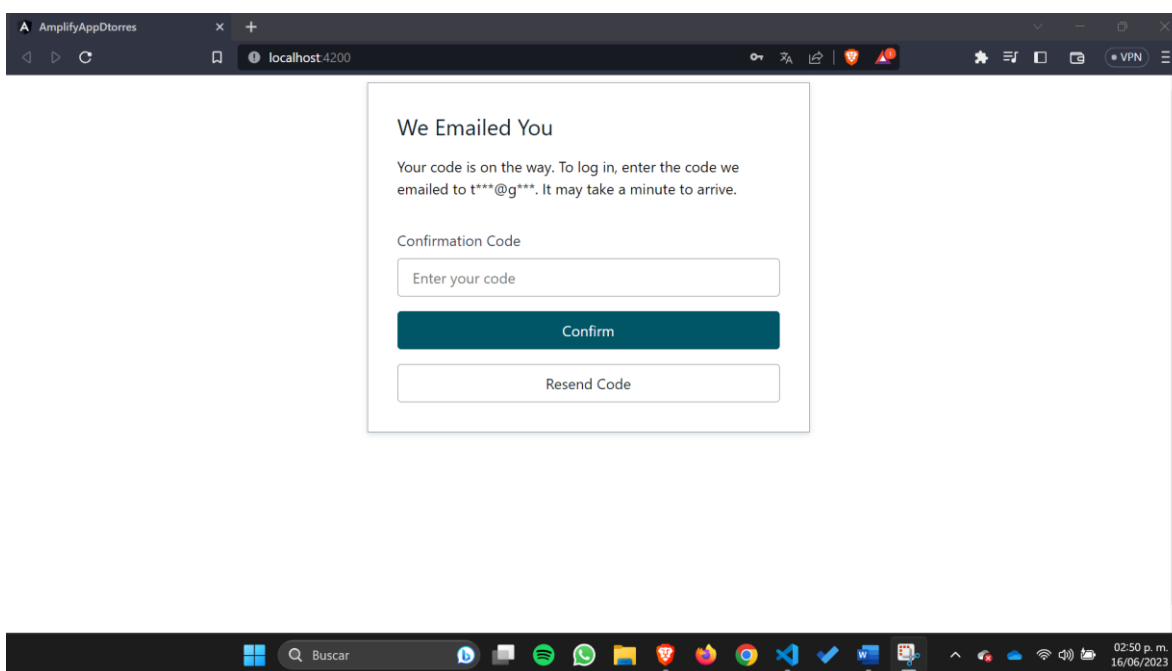
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Category Resource name Operation Provider plugin
Auth amplifydtorresfadca96a Create awscloudformation
Api amplifydtorres No Change awscloudformation

Are you sure you want to continue? (Y/n) · yes

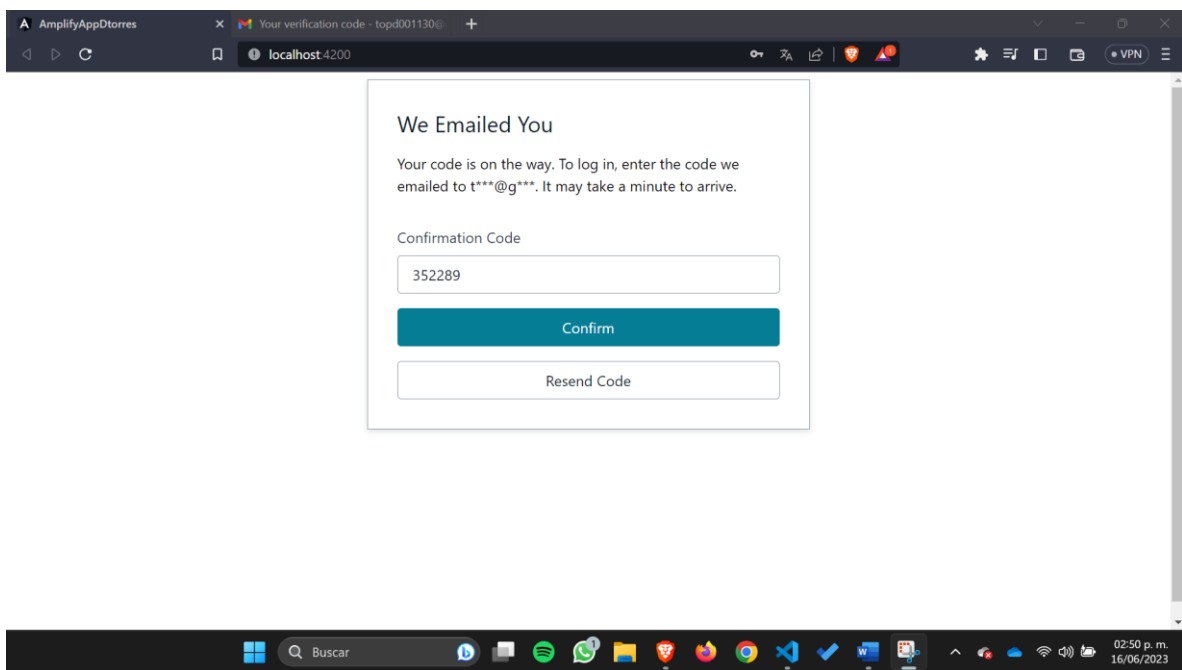
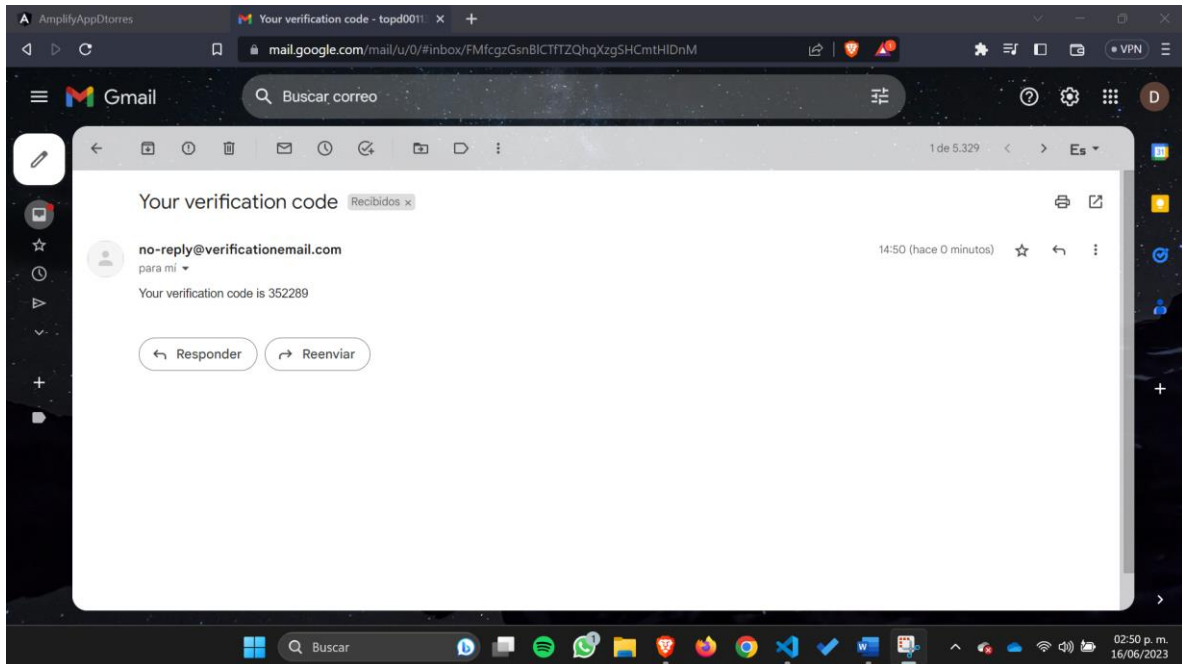
Deployment completed.
Deploying root stack amplifydtorres-dev-16... AWS::CloudFormation::Stack UPDATE_IN_PROGRESS Fri Jun 16 2023 14:42:19...
  amplifydtorresfadca96a AWS::CloudFormation::Stack CREATE_COMPLETE Fri Jun 16 2023 14:44:17...
  apiamplifydtorres AWS::CloudFormation::Stack UPDATE_COMPLETE Fri Jun 16 2023 14:42:46...
Deployed auth amplifydtorresfadca96a [ 10/10 ]
  UserPool AWS::Cognito::UserPool CREATE_COMPLETE Fri Jun 16 2023 14:42:38...
  UserPoolClientWeb AWS::Cognito::UserPoolClient CREATE_COMPLETE Fri Jun 16 2023 14:42:42...
  UserPoolClient AWS::Cognito::UserPoolClient CREATE_COMPLETE Fri Jun 16 2023 14:42:42...
  UserPoolClientRole AWS::IAM::Role CREATE_COMPLETE Fri Jun 16 2023 14:43:01...
  UserPoolClientLambda AWS::Lambda::Function CREATE_COMPLETE Fri Jun 16 2023 14:43:11...
  UserPoolClientLambdaPolicy AWS::IAM::Policy CREATE_COMPLETE Fri Jun 16 2023 14:43:27...
  UserPoolClientLogPolicy AWS::IAM::Policy CREATE_COMPLETE Fri Jun 16 2023 14:43:43...
  UserPoolClientInputs Custom::LambdaCallout CREATE_COMPLETE Fri Jun 16 2023 14:43:52...
  IdentityPool AWS::Cognito::IdentityPool CREATE_COMPLETE Fri Jun 16 2023 14:43:57...
  IdentityPoolRoleMap AWS::Cognito::IdentityPoolRoleMap CREATE_IN_PROGRESS Fri Jun 16 2023 14:44:00...

Deployment state saved successfully.
GraphQL transformer version: 2

C:\Users\topd0\amplify-app-dtorres>
```



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The top screenshot shows a web application running on `localhost:4200`. It features a form with fields for `Name`, `Description`, and `City`, a `Submit` button, and a list of items: `SM`, `Restaurante 2`, `Prueba Registro 2`, `DH`, `Restaurante 1`, and `Prueba de Registro`. A `Sign Out` button is at the bottom.

The bottom screenshot shows the Visual Studio Code interface with the `polyfills.ts` file open. The terminal displays the following output:

```
src > polyfills.ts > ...
1 import 'zone.js/dist/zone'; // Included with Angular CLI.

✓ Successfully pulled backend environment dev from the cloud.
Current Environment: dev

C:\Users\topd0\amplify-app-dtorres>amplify add hosting
✓ Select the plugin module to execute · Hosting with Amplify Console (Managed hosting with custom domains, Continuous deployment)
? Choose a type Manual deployment

You can now publish your app using the following command:
Command: amplify publish

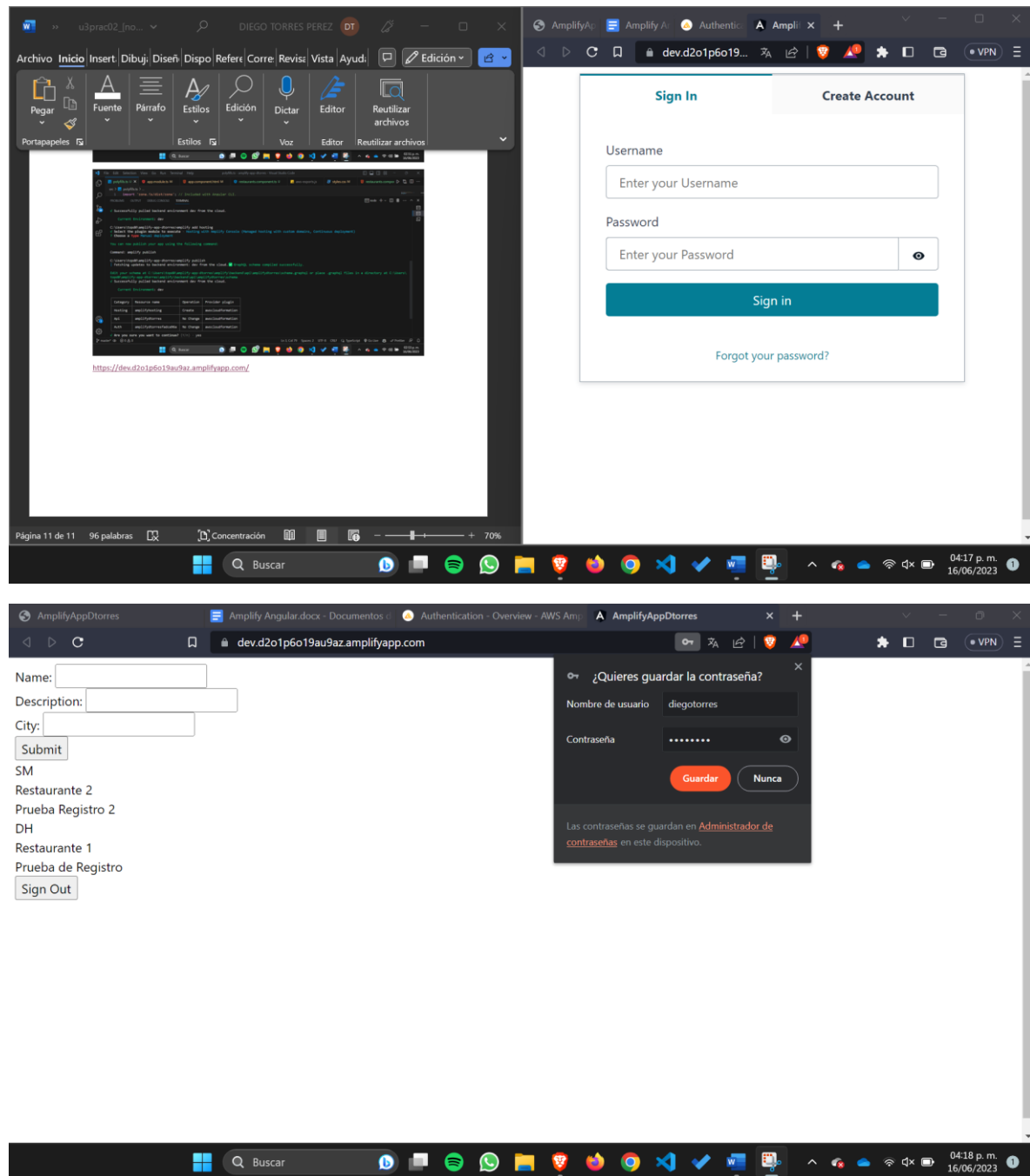
C:\Users\topd0\amplify-app-dtorres>amplify publish
| Fetching updates to backend environment: dev from the cloud. ✓ GraphQL schema compiled successfully.
Edit your schema at C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydrtorres\schema.graphql or place .graphql files in a directory at C:\Users\topd0\amplify-app-dtorres\amplify\backend\api\amplifydrtorres\schema
✓ Successfully pulled backend environment dev from the cloud.
Current Environment: dev
```

Category	Resource name	Operation	Provider plugin
Hosting	amplifyhosting	Create	awscloudformation
Api	amplifydrtorres	No Change	awscloudformation
Auth	amplifydrtorresfadca96a	No Change	awscloudformation

Are you sure you want to continue? (Y/n) · yes

<https://dev.d2o1p6o19au9az.amplifyapp.com/>

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10. Responder a las siguientes preguntas

a. Menciona las tecnologías que usaste y da una breve explicación sobre su uso.

Amplify.

AWS Amplify es una solución completa que permite a los desarrolladores web y móviles de front-end crear, enviar y alojar aplicaciones de pila completa en AWS de forma sencilla, con la flexibilidad de aprovechar la amplitud de los servicios de AWS a medida que sus casos de uso evolucionan. No es necesario contar con experiencia en la nube.

Angular.

Angular es un framework para aplicaciones web desarrollado en TypeScript, de código abierto, mantenido por Google, que se utiliza para crear y mantener aplicaciones web de una sola página.

Práctica Amplify.
Diego Torres Pérez.

Git.

Git es un software de control de versiones diseñado por Linus Torvalds, pensando en la eficiencia, la confiabilidad y compatibilidad del mantenimiento de versiones de aplicaciones cuando estas tienen un gran número de archivos de código fuente.

NodeJS.

Node.js es un entorno en tiempo de ejecución multiplataforma, de código abierto, para la capa del servidor basado en el lenguaje de programación JavaScript, asíncrono, con E/S de datos en una arquitectura orientada a eventos y basado en el motor V8 de Google

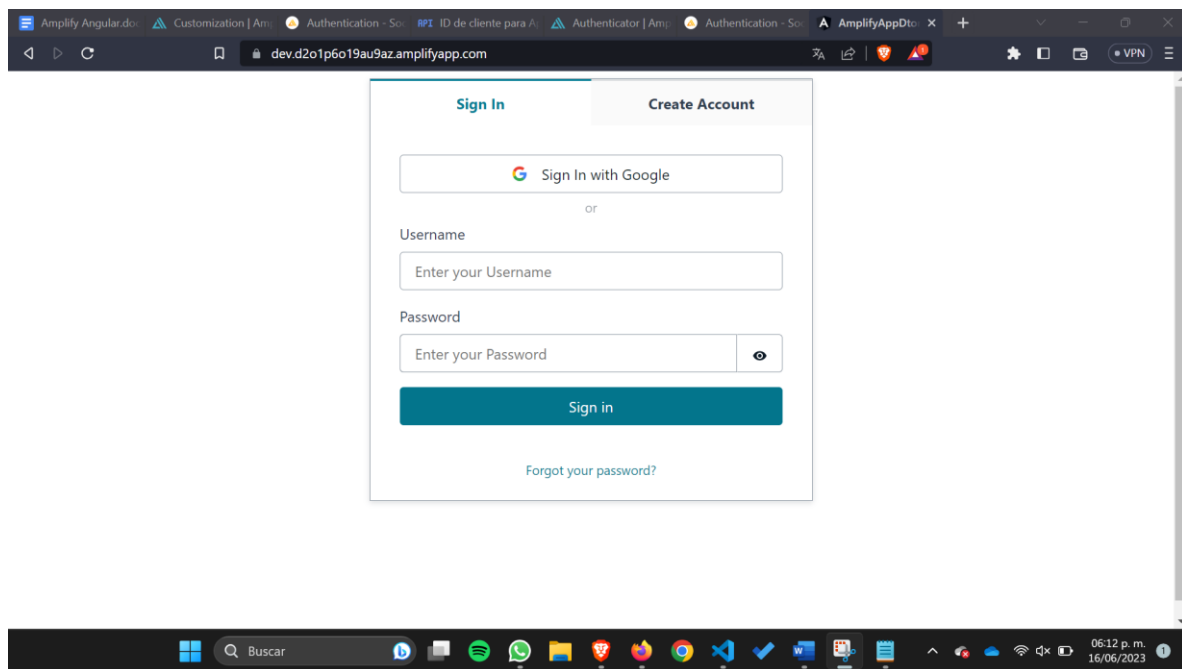
Google Cloud.

Google Cloud es una plataforma que ha reunido todas las aplicaciones de desarrollo web que Google estaba ofreciendo por separado.

b. ¿Cómo pudieras implementarlo en proyecto que estás desarrollando?

Implementación rápida y en la nube de Backend.

c. Agregar al menos otras dos maneras de autenticación como Facebook, Google.



Práctica Amplify.

Diego Torres Pérez.

