

Nombre de la práctica Amplify y Angular

Objetivo

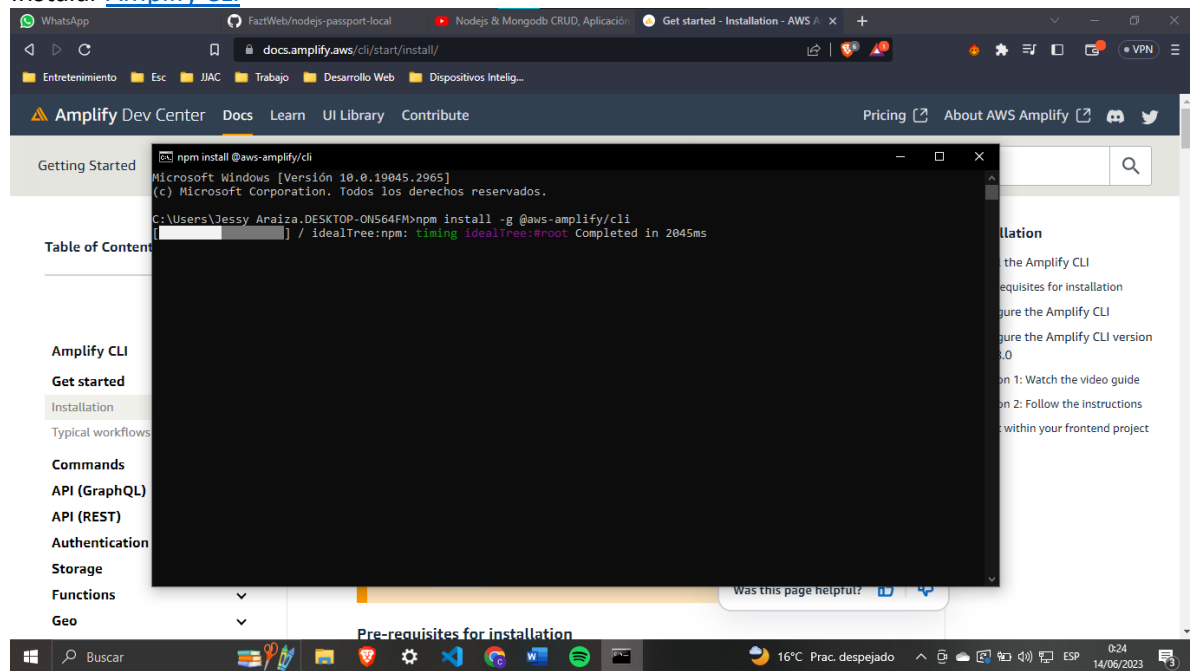
Probar el desarrollo y despliegue de una Aplicación Web Angular junto con su BackEnd usando GraphQL

Instrucciones

1. Seguir el tutorial [Amplify Angular](#)



2. Crear archivo en formato PDF con **nombre u3prac02_[nombre completo].pdf** donde vayas subiendo evidencia y depositarlo en repositorio [git](#) en carpeta u3pr01_amplify
3. Instalar [Amplify CLI](#)



4. Agregar autenticación. Crear un nuevo usuario y verificar correo electrónico. **Pega pantalla de evidencia**

5. Configurar el Amplify CLI y como nombre de usuario es: **amplify-**[primer letra de nombre y primer apellido]. Por ejemplo, **amplify-gbarron** **Pega pantalla de evidencia**

The screenshot displays the AWS IAM console interface. The top navigation bar shows the 'IAM' service and the 'Usuarios' (Users) section. The main content area is titled 'amplify-jaraiza' and includes a summary table with the following details:

Resumen		
ARN	Acceso a la consola	Clave de acceso 1
am:aws:iam::93982521434:user/amplify-jaraiza	Desactivada	No habilitado
Creado	Último inicio de sesión en la consola	Clave de acceso 2
June 14, 2023, 00:53 (UTC-06:00)	-	No habilitado

Below the summary, the 'Políticas de permisos' (Permissions policies) section is visible, showing a list of policies. The 'AdministradorAcceso-Amplify' policy is highlighted, indicating it is administered by AWS and attached directly to the user.

The bottom section, 'Recuperar claves de acceso' (Recover access keys), provides instructions on how to generate a new access key. It includes a table with the following information:

Clave de acceso	Clave de acceso secreta
AKIASVWZ7BQVBNLZVCOK	***** Mostrar

Below the table, there are recommended practices for managing access keys, such as storing them securely, disabling or deleting them when no longer needed, and rotating them regularly.

```

C:\Users\Jessy Araiza.DESKTOP-ON564FM>amplify configure
Follow these steps to set up access to your AWS account:

Sign in to your AWS administrator account:
https://console.aws.amazon.com/
Press Enter to continue

Specify the AWS Region
? region: us-east-1
Follow the instructions at
https://docs.amplify.aws/cli/start/install/#configure-the-amplify-cli
to complete the user creation in the AWS console
https://console.aws.amazon.com/iamv2/home#/users/create
Press Enter to continue

Enter the access key of the newly created user:
? accessKeyId: *****
? secretAccessKey: *****
This would update/create the AWS Profile in your local machine
? Profile Name: amplify-jaraiza

Successfully set up the new user.
C:\Users\Jessy Araiza.DESKTOP-ON564FM>

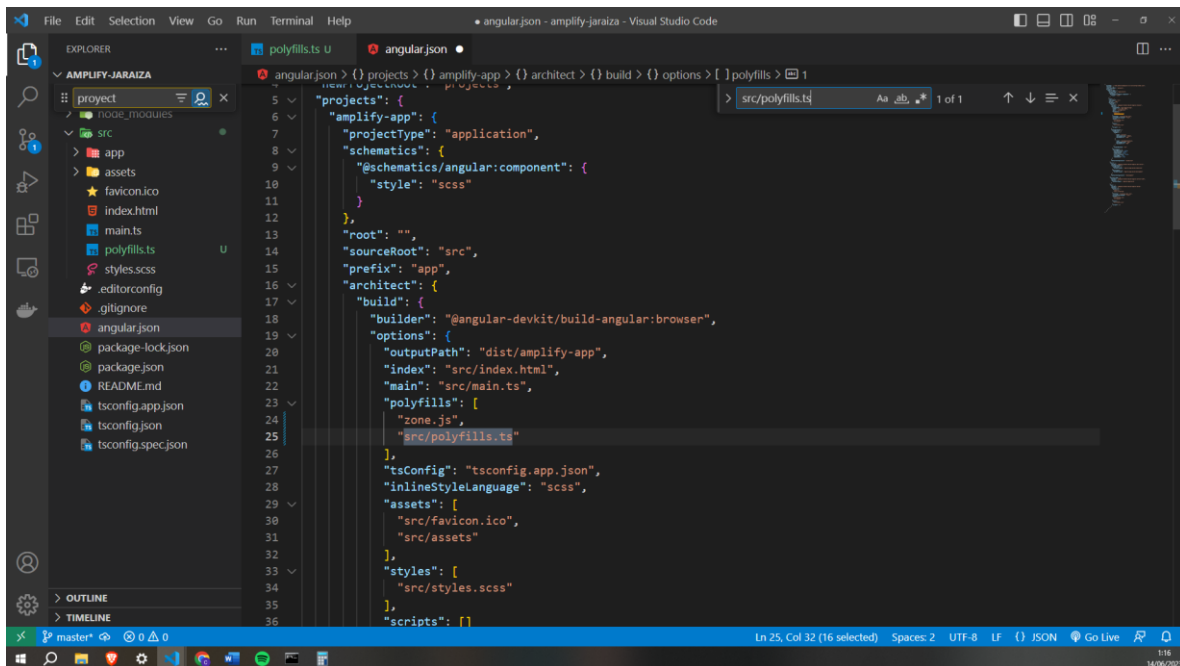
```

6. Crear un nuevo proyecto angular con el nombre: **amplify--**[primer letra de nombre y primer apellido]. Por ejemplo, **npx -p @angular/cli ng new amplify-gbarron** Pega pantalla de evidencia

```

C:\Windows\System32\cmd.exe
CREATE amplify-app\README.md (1064 bytes)
CREATE amplify-app\tsconfig.json (901 bytes)
CREATE amplify-app\.editorconfig (274 bytes)
CREATE amplify-app\.gitignore (548 bytes)
CREATE amplify-app\tsconfig.app.json (263 bytes)
CREATE amplify-app\tsconfig.spec.json (273 bytes)
CREATE amplify-app\.vscode\extensions.json (130 bytes)
CREATE amplify-app\.vscode\launch.json (470 bytes)
CREATE amplify-app\.vscode\tasks.json (938 bytes)
CREATE amplify-app\src\main.ts (214 bytes)
CREATE amplify-app\src\favicon.ico (948 bytes)
CREATE amplify-app\src\index.html (296 bytes)
CREATE amplify-app\src\styles.scss (80 bytes)
CREATE amplify-app\src\app\app-routing.module.ts (245 bytes)
CREATE amplify-app\src\app\app.module.ts (393 bytes)
CREATE amplify-app\src\app\app.component.html (23115 bytes)
CREATE amplify-app\src\app\app.component.spec.ts (1006 bytes)
CREATE amplify-app\src\app\app.component.ts (216 bytes)
CREATE amplify-app\src\app\app.component.scss (0 bytes)
CREATE amplify-app\src\assets\.gitkeep (0 bytes)
/ Packages installed successfully.
warning: in the working copy of '.editorconfig', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode\extensions.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode\launch.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode\tasks.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'angular.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package-lock.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\app\app-routing.module.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\app\app.component.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\app\app.component.spec.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\app\app.component.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\app\app.module.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\index.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\main.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src\styles.scss', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'tsconfig.app.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'tsconfig.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'tsconfig.spec.json', LF will be replaced by CRLF the next time Git touches it
Successfully initialized git.
D:\Jessy Araiza\Ingenieria\Cuatrimerio 3\Desarrollo Web\Unidad 03>

```



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

```
D:\Jessy Araiza\Ingenieria\Cuatri 3\Desarrollo Web\Unidad 03\amplify-jaraiza>amplify init
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project amplify--jaraiza
>> Project name should be between 3 and 20 characters and alphanumeric
```

```

D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza>amplify init
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project amplifyjaraiza
The following configuration will be applied:

Project information
| Name: amplifyjaraiza
| Environment: dev
| Default editor: Visual Studio Code
| App type: javascript
| Javascript framework: angular
| Source Directory Path: src
| Distribution Directory Path: dist
| Build Command: npm.cmd run-script build
| Start Command: ng serve

? Initialize the project with the above configuration? Yes
Using default provider awscloudformation
? Select the authentication method you want to use: AWS profile

For more information on AWS Profiles, see:
https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-profiles.html

? Please choose the profile you want to use amplify-jaraiza
Adding backend environment dev to AWS Amplify app: dipizcdo5q800a

Deployment completed.
Deploying root stack amplifyjaraiza [ ===== ] 2/4
  amplify-amplifyjaraiza-dev-75.. AWS::CloudFormation::Stack CREATE_IN_PROGRESS Wed Jun 14 2023
  UnauthRole AWS::IAM::Role CREATE_COMPLETE Wed Jun 14 2023
  AuthRole AWS::IAM::Role CREATE_COMPLETE Wed Jun 14 2023
  DeploymentBucket AWS::S3::Bucket CREATE_IN_PROGRESS Wed Jun 14 2023

? 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

```

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

```

D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza>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: Single object with fields (e.g., "Todo" 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 D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema.graphql or place .graphql files in a directory at D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema
Do you want to edit the schema now? (Y/n) - yes
Edit the file in your editor: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema.graphql
? Successfully added resource amplifyjaraiza locally

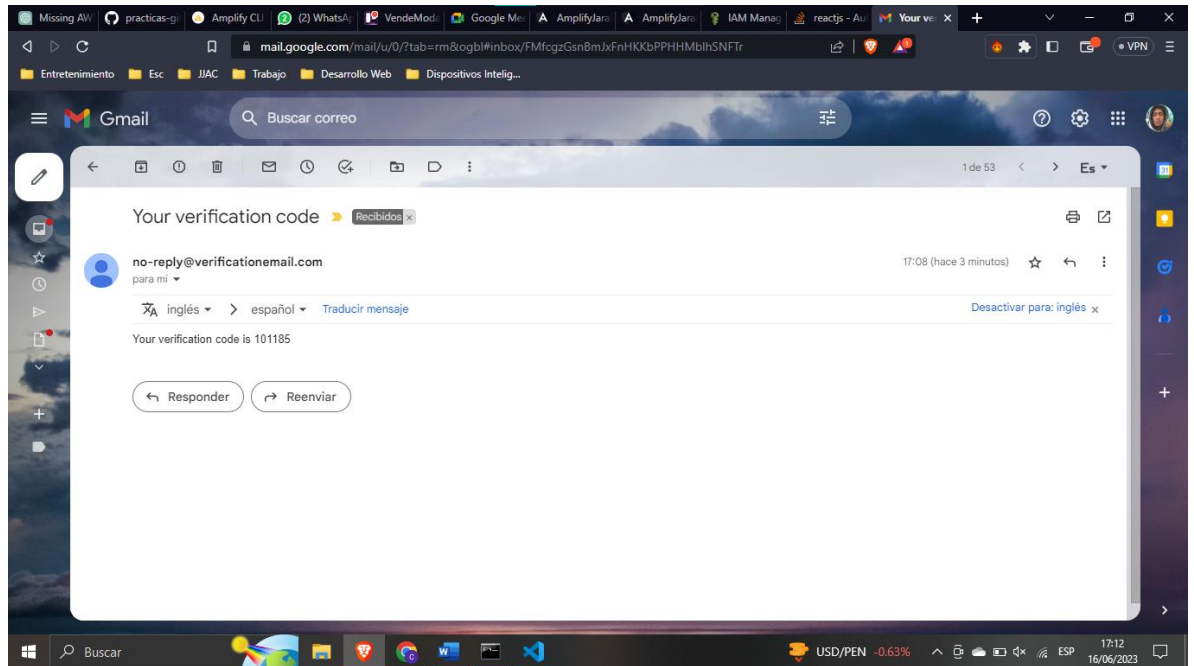
Some next steps:
"amplify push" will build all your local backend resources and provision it in the cloud
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud

D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza>amplify push
Building resource api/amplifyjaraiza
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

- Fetching updates to backend environment: dev from the cloud. GraphQL schema compiled successfully.

Edit your schema at D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema.graphql or place .graphql files in a directory at D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema
? Successfully pulled backend environment dev from the cloud.
Building resource api/amplifyjaraiza
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

```

9. Despliega la aplicación y prueba con URL. Pega pantalla. **Pega pantalla de evidencia**

```
C:\WINDOWS\system32\cmd.exe
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\aws-sdk\middleware-retry\dist\es\defaultStrategy.js depends on 'uuid'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\amazon-cognito-identity-js\es\AuthenticationHelper.js depends on 'buffer'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\amazon-cognito-identity-js\es\Client.js depends on 'isomorphic-unfetch'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

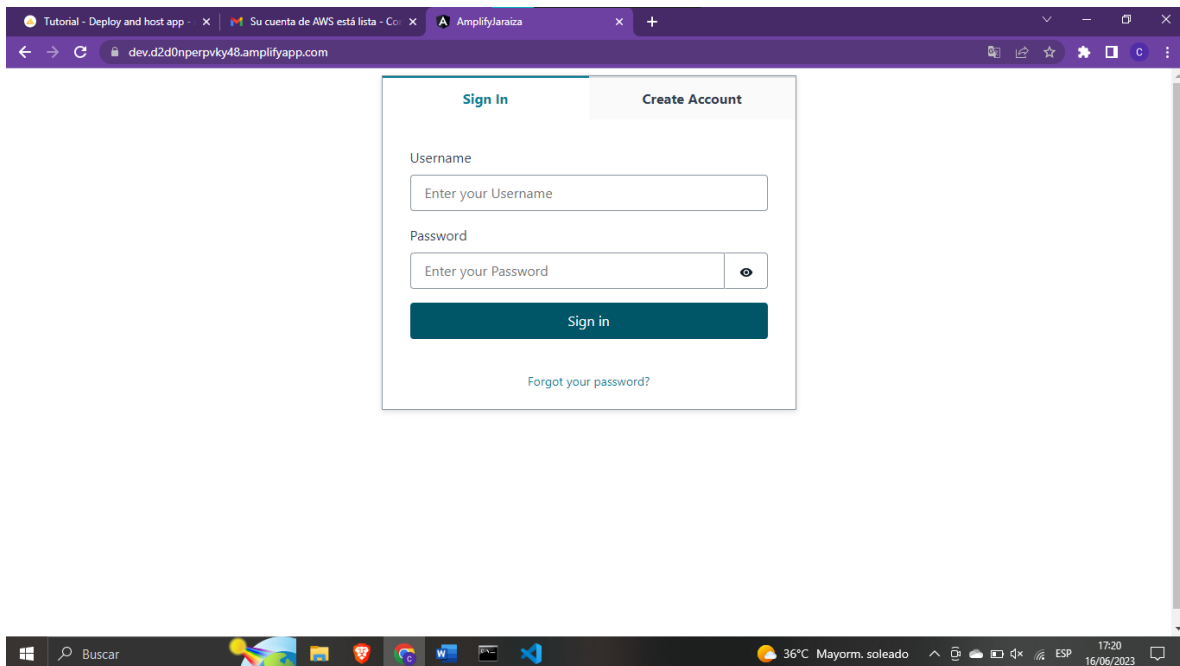
Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\amazon-cognito-identity-js\es\CookieStorage.js depends on 'js-cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\universal-cookie\es6\Cookies.js depends on 'cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: bundle initial exceeded maximum budget. Budget 500.00 kB was not met by 1.10 MB with a total of 1.59 MB.

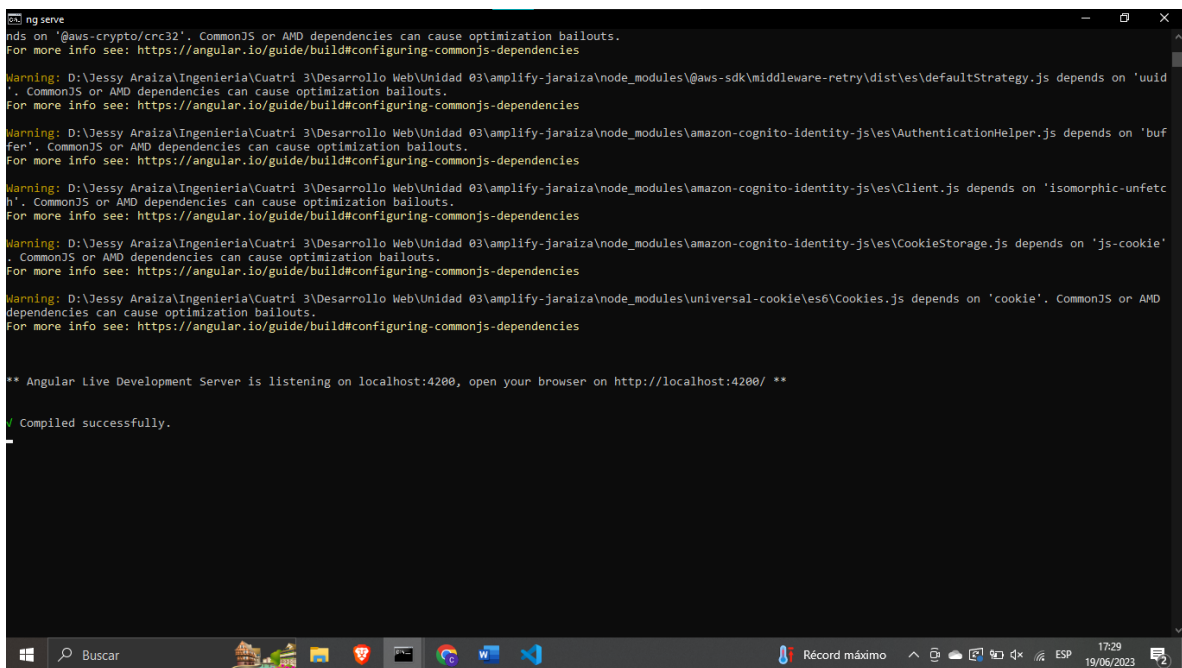
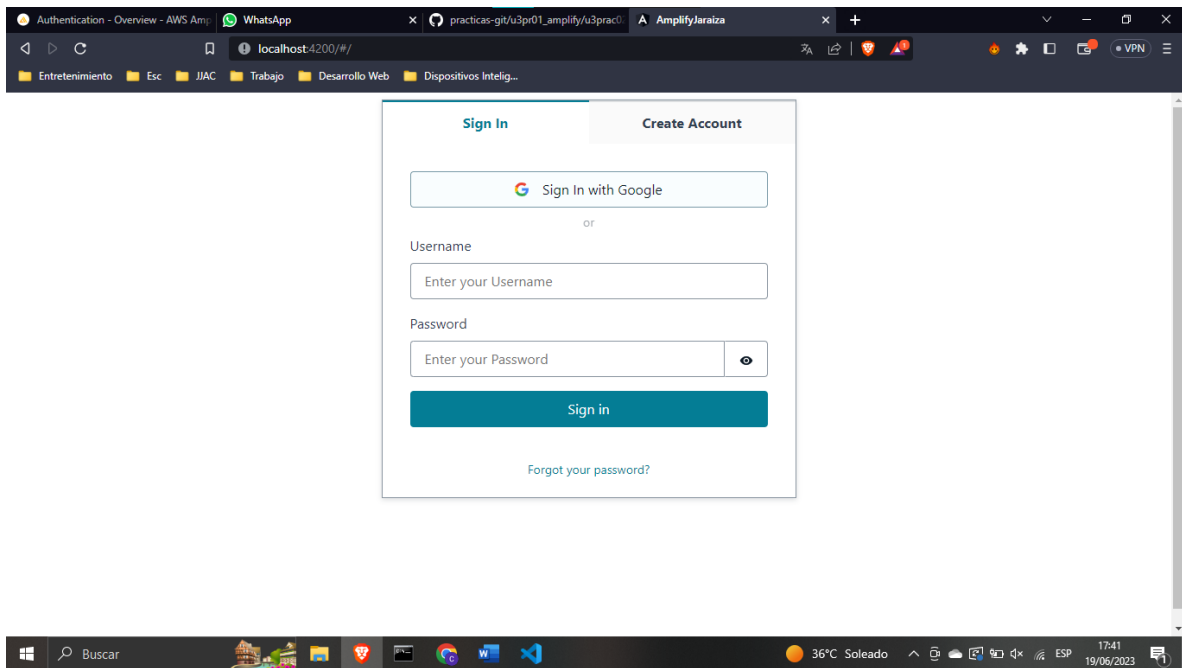
Zipping artifacts completed.
Deployment complete!
https://dev.d2d8nperpvky48.amplifyapp.com

D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza>
```



10. Responder a las siguientes preguntas

1. Menciona las tecnologías que usaste y da una breve explicación sobre su uso.
 - Angular: Es un framework de desarrollo de aplicaciones web basado en TypeScript. En el tutorial, se utiliza Angular para desarrollar la aplicación web.
 - AWS Amplify: Es un conjunto de herramientas y servicios proporcionados por Amazon Web Services (AWS) que facilita la creación de aplicaciones web y móviles escalables y seguras. Amplify se utiliza en el tutorial para agregar funcionalidades de backend y hosting a la aplicación Angular.
 - AWS CLI: La interfaz de línea de comandos de AWS (AWS CLI) se utiliza para interactuar con los servicios de AWS desde la línea de comandos. En el tutorial, se utiliza para configurar y desplegar la aplicación utilizando Amplify.
 - Git: Es un sistema de control de versiones ampliamente utilizado. En el tutorial, se utiliza Git para clonar el proyecto de muestra y para realizar el seguimiento de los cambios en el código fuente de la aplicación.
2. ¿Cómo pudieras implementarlo en proyecto que estás desarrollando?
 - Puedes utilizarlo, ya que es una manera excelente para publicarlo y brindarse seguridad a tus aplicaciones, el lado malo o que te puede perjudicar es el costo, un tanto elevado que tiene.
3. Agregar al menos otras dos [maneras](#) de autenticación como Facebook, Google.



```
C:\WINDOWS\system32\cmd.exe
Successfully updated resource update 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.

D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza>amplify push
- Fetching updates to backend environment: dev from the cloud.- Building resource a1 Building resource api/amplifyjaraiza GraphQL schema compiled successfully.

edit your schema at D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema.graphql or place .graphql files in a directory at D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\amplify\backend\api\amplifyjaraiza\schema
✓ Successfully pulled backend environment dev from the cloud.

Current Environment: dev



| Category | Resource name          | Operation | Provider plugin   |
|----------|------------------------|-----------|-------------------|
| Auth     | amplifyjaraiza61d860a6 | Update    | awscloudformation |
| Api      | amplifyjaraiza         | No Change | awscloudformation |
| Hosting  | amplifyhosting         | No Change | awscloudformation |



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

Deployment completed.
Deploying root stack amplifyjaraiza [ ..... ] 3/4
  amplify-amplifyjaraiza-dev-13... AWS::CloudFormation::Stack UPDATE_COMPLETE_CLEANUP_IN_PR_ Mon Jun 19 2023 17:17:46...
  api-amplifyjaraiza AWS::CloudFormation::Stack UPDATE_COMPLETE Mon Jun 19 2023 17:17:41...
  hosting-amplifyhosting AWS::CloudFormation::Stack UPDATE_COMPLETE Mon Jun 19 2023 17:17:19...
  auth-amplifyjaraiza61d860a6 AWS::CloudFormation::Stack UPDATE_COMPLETE Mon Jun 19 2023 17:17:41...
Deployed auth amplifyjaraiza61d860a6 [ ..... ] 22/22
  HostedUICustomResourceInputs Custom::LambdaCallout UPDATE_COMPLETE Mon Jun 19 2023 17:17:33...

Deployment state saved successfully.

GraphQL transformer version: 2
Hosted UI Endpoint: https://amplifyjaraiza18c1789a-10c1789a-dev.auth.us-east-1.amazonaws.com/
Test Your Hosted UI Endpoint: https://amplifyjaraiza18c1789a-10c1789a-dev.auth.us-east-1.amazonaws.com/login?response_type=code&client_id=2ql23274rf5nne55set9up8pvv&redirect_uri=http://localhost:4200/
```

```
C:\WINDOWS\system32\cmd.exe
'uuid'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\aws-sdk\eventstream-codec\dist-es\EventStreamCodec.js depends on '@aws-crypto/crc32'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\aws-sdk\eventstream-marshaller\dist-es\EventStreamMarshaller.js depends on '@aws-crypto/crc32'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\aws-sdk\middleware-retry\dist-es\defaultStrategy.js depends on 'uuid'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\amazon-cognito-identity-js\AuthenticationHelper.js depends on 'buffer'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\amazon-cognito-identity-js\Client.js depends on 'isomorphic-unfetch'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\amazon-cognito-identity-js\CookieStorage.js depends on 'js-cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza\node_modules\universal-cookie-es6\Cookies.js depends on 'cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

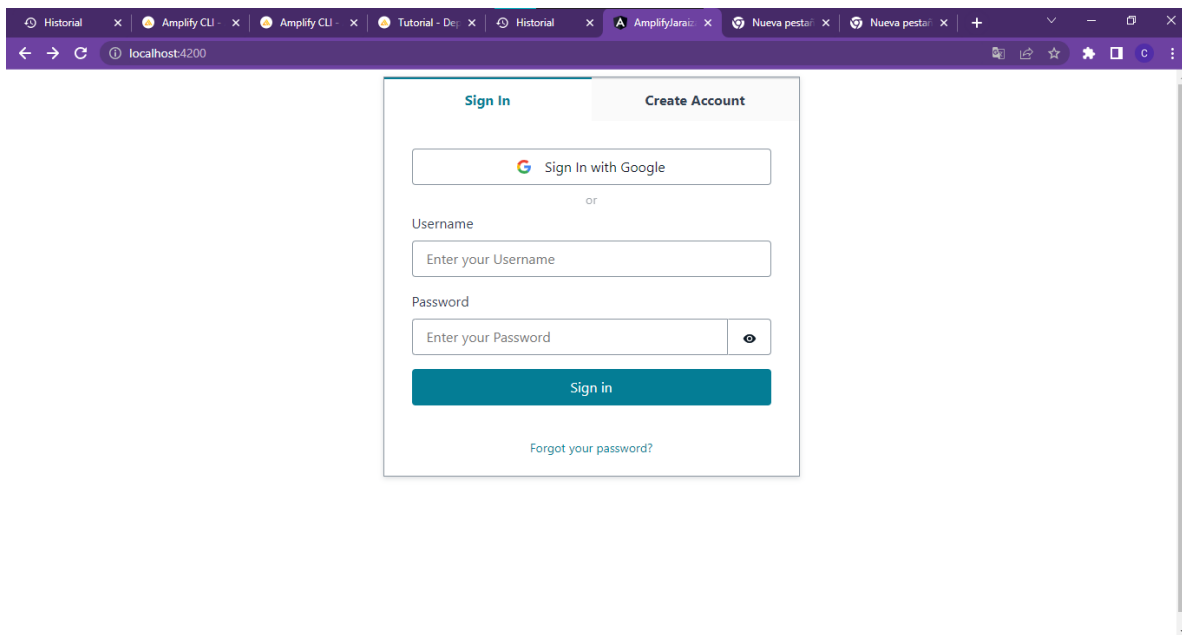
Warning: bundle initial exceeded maximum budget. Budget 500.00 kB was not met by 1.10 MB with a total of 1.59 MB.

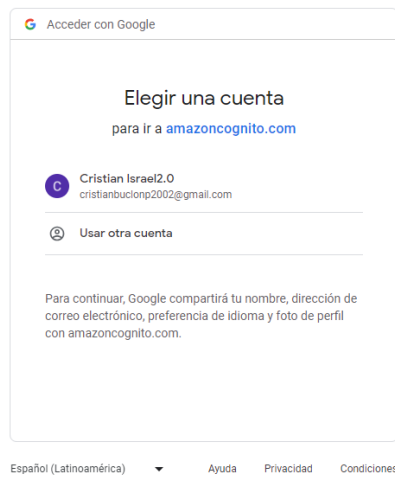
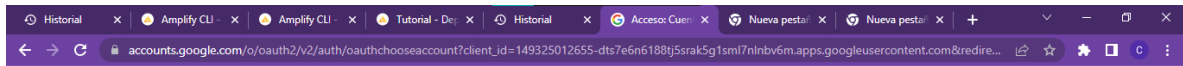
✓ Zipping artifacts completed.
✓ Deployment complete!
https://dev.d2d8nperpvky48.amplifyapp.com

D:\Jessy Araiza\Ingenieria\Cuatrì 3\Desarrollo Web\Unidad 03\amplify-jaraiza>
```

Visual Studio Code interface showing the file explorer on the left with the project structure. The Explorer pane shows a folder named 'restaurants' under 'src > app'. The file 'restaurants.component.html' is selected and its content is displayed in the editor. The code is an Angular component template for a form.

```
1 <div class="form-body">
2   <form
3     autocomplete="off"
4     [formGroup]="createForm"
5     (ngSubmit)="onCreate(createForm.value)"
6   >
7     <div>
8       <label>Name: </label>
9       <input type="text" FormControlName="name" autocomplete="off" />
10    </div>
11    <div>
12      <label>Description: </label>
13      <input type="text" FormControlName="description" autocomplete="off" />
14    </div>
15    <div>
16      <label>City: </label>
17      <input type="text" FormControlName="city" autocomplete="off" />
18    </div>
19    <button type="submit">Submit</button>
20  </form>
21 </div>
```





<https://dev.d2d0nperpvky48.amplifyapp.com>