ReactJS App con Python y AWS Lambda

by Luis Mejia

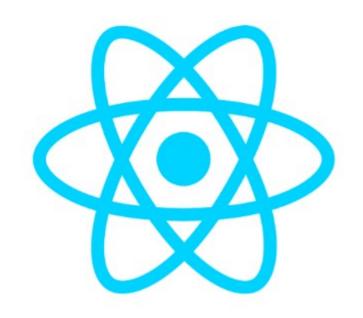
Agenda

- ReactJS
- Create-react-app
- Construir una ReactJS App
- •ReactJS + S3
- API con python y AWS Lambda

ReactJS

React.js es una librería JavaScript desarrollada por Facebook.

- ¿Para qué nos sirve ?
- ¿Cómo funciona?



ReactJS: ¿Para qué nos sirve?

- Facilitar la creación de componentes:
 - Interactivos
 - Rápidos
 - Reutilizables
 - Para interfaces de usuario.

ReactJS: ¿Cómo funciona?

- Está construido en torno a funciones
- Toma las actualizaciones de estado de la página
- Siempre que React es informado de un cambio de estado, vuelve a ejecutar esas funciones para determinar una nueva representación virtual de la página
- Se traduce automáticamente ese resultado en los cambios del DOM necesarios para reflejar la nueva presentación de la página.

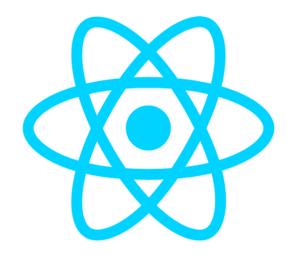
Create-react-app

Es una herramienta (creada por desarrolladores en Facebook) que le brinda una ventaja masiva al crear aplicaciones React

- npm install -g create-react-app
- create-react-app test

Construir una ReactJS App

- JSX
- Componentes y Contenedores
- Redux
- API Requests





Add user



Set user details

You can add multiple users at once with the same access type and permissions. Learn more

User name* s3-deploy

O Add another user

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. Learn more

Access type* Programmatic access

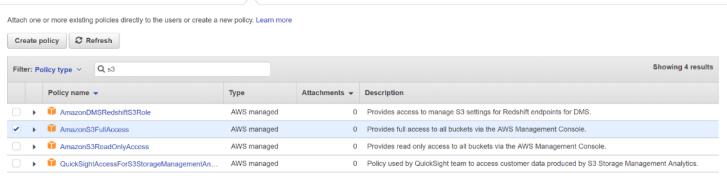
Enables an access key ID and secret access key for the AWS API, CLI, SDK, and other development tools.

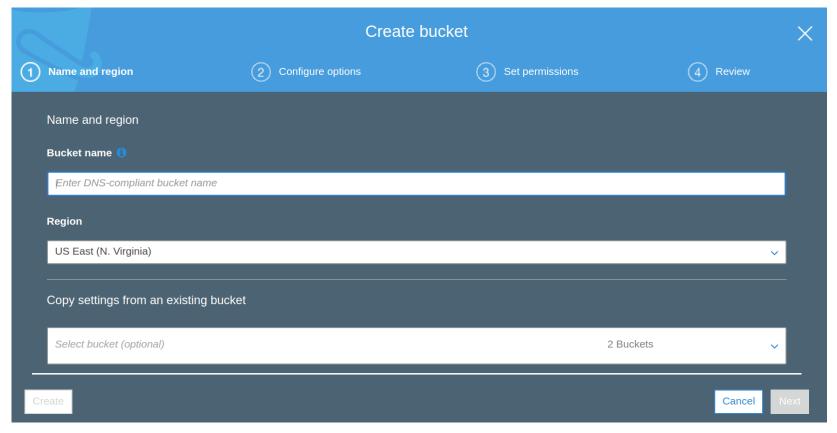
AWS Management Console access

Enables a password that allows users to sign-in to the AWS Management Console.

Set permissions for s3-deploy







AWS Policy Generator

The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see key concepts in Using AWS Identity and Access Management. Here are sample policies.

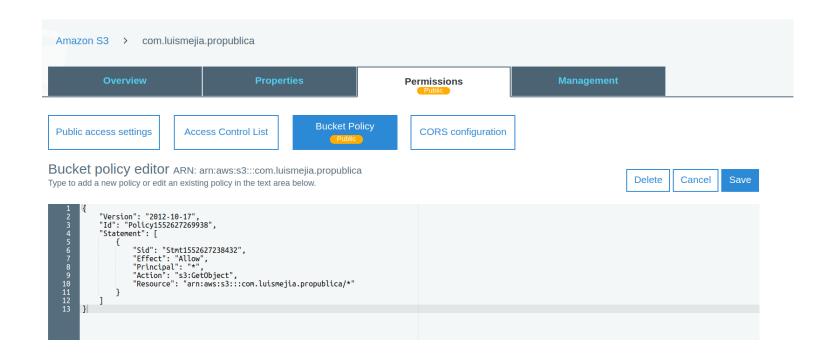
Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Step 2: Add Statement(s)

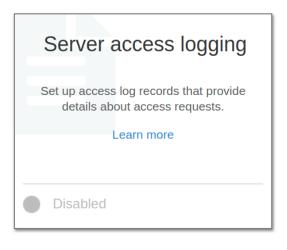
A statement is the formal description of a single permission. See a description of elements that you can use in statements.

Effect	Allow
Principal	*
	Use a comma to separate multiple values.
AWS Service	Amazon S3
	Use multiple statements to add permissions for more than one service.
Actions	1 Action(s) Selected
Amazon Resource Name (ARN)	arn:aws:s3:::com.luismejia.propublica/*
	ARN should follow the following format: arn:aws:s3::: <bucket_name>/<key_name>. Use a comma to separate multiple values.</key_name></bucket_name>
	Add Conditions (Optional)
	Add Statement











Static website hosting

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Endpoint: http://com.luismejia.propublica.s3-website-us-east-1.amazonaws.com Use this bucket to host a website 1 Learn more Index document (1) index.html Error document 1 index.html Redirection rules (optional) 1 Redirect requests 1 Learn more Disable website hosting

```
"scripts": {
    "start": "react-scripts start",
    "build": "react-scripts build",
    "deploy": "aws s3 sync build/ s3://com.luismejia.propublica",
    "test": "react-scripts test --env=jsdom",
    "eject": "react-scripts eject"
},
```

Deploy to S3

```
aws configure
npm run build
npm run deploy
```

API con python y AWS Lambda

```
mkdir ~/my-serverless-project
cd ~/my-serverless-project
sls create -n my-serverless-project -t aws-python3
```

sls deploy