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Caltech CTME PGP: Full Stack Web Dev

Phase 5: Assessment #3: Deploy Application on Cloud / Documentation & Process

GitHub: https://github.com/bgaskins/deploy_app_on_cloud

Description:

As a developer, deploy your Spring Boot application on Cloud.

Background of the problem statement:

You have been assigned a new task during the sprint planning. You have been asked to deploy your Spring Boot application on the Cloud. You need to create and launch an instance, provide all the required privileges, and run your application.

You must use the following:

- Cloud: AWS

Following requirements should be met:

- A few of the source codes should be tracked on GitHub repositories. You need to document the tracked files which are ignored during the final push to the GitHub repository.
- The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.
- The step-by-step process involved in completing this task should be documented.

Step by step process:

1. Create a new web project in VSCode
2. Log into AWS and access S3 Management Console
3. Create bucket 'fs-aws-web-app'
4. In Block Public Access settings, uncheck all public access and acknowledge
5. Upload 'index.html' file to the bucket
6. Check 'list' and 'read' options for everyone in the ACL
7. Enable Static website hosting in Properties tab
8. Click on provided access website URL and run app
9. Upload to GitHub

```
index.html X
Users > bryangaskins > index.html > html
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5   <meta charset="UTF-8">
6   <title>AWS WebApp</title>
7 </head>
8
9 <body>
10
11   <h1>Hello World!</h1>
12
13 </body>
14
15 </html>
```

Buckets (1) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

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	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
	fs-aws-web-app	US East (N. Virginia) us-east-1	Objects can be public	August 23, 2022, 12:21:22 (UTC-04:00)

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

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[Upload](#)

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<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input type="checkbox"/>	index.html	html	August 23, 2022, 13:03:31 (UTC-04:00)	135.0 B	Standard

Static website hosting [Edit](#)

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Enabled

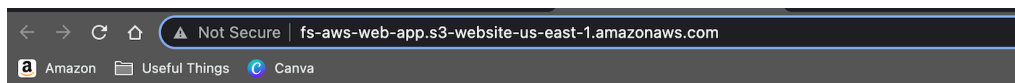
Hosting type

Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://fs-aws-web-app.s3-website-us-east-1.amazonaws.com>



Hello World!