

Final Project – Full Stack App (Image Processing Microservice) on AWS

1. The source for the project is at https://github.com/raerrab/aws_fullstack
2. URL of deployed application is: <http://final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com/>
3. Screenshot of the Elastic Beanstalk application dashboard after deployment

The screenshot displays the AWS Elastic Beanstalk console for the environment 'final-project-full-stack-apps-on-aws-dev'. The environment is in a healthy state, indicated by a green 'Ok' status. The platform is 'Docker running on 64bit Amazon Linux 2/3.7.1'. The running version is 'app-3a60-240221_142342786302' and the platform state is 'Supported'. The environment ID is 'e-hetuxdsk3c' and the application name is 'final-project-full-stack-apps-on-aws'. The domain is 'final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com'. The console also shows a list of events, including two recent events related to configuration updates.

Environment overview

Health Ok	Environment ID e-hetuxdsk3c
Domain final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com	Application name final-project-full-stack-apps-on-aws

Platform

Platform Docker running on 64bit Amazon Linux 2/3.7.1	Platform state Supported
Running version app-3a60-240221_142342786302	

Events (30)

Time	Type	Details
February 21, 2024 14:33:51 (UTC-6)	INFO	Environment health has transitioned from Info to Ok. Configuration update completed 44 seconds ago and took 54 seconds.
February 21, 2024 14:32:51 (UTC-6)	INFO	Environment health has transitioned from Severe to Info. Configuration update in progress. 1 out of 1 instance completed (running for 38 seconds).

4. Environment Variables for Application

Environment properties	
Key	Value
AWS_ACCESS_KEY_ID	AKIA44IGH67ZQLX3M7G
AWS_REGION	us-east-1
AWS_S3_BUCKET_NAME	udacity-raj-bucket
AWS_SECRET_ACCESS_KEY	wPP5iCnCF6BVgX41skxDD3RMwjomLo+wwAWQHebO
AXIOS_POST_URL	http://final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com/filteredImage/upl...
LOCATION_OF_DOWNLOADED_IMAGE	/tmp/delete.jpg
PORT	8080

5. Successful URL Get Request to Upload Image to S3 bucket ([udacity-raj-bucket](#))

http://final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com/filteredImage?image_url=https://upload.wikimedia.org/wikipedia/commons/7/77/Delete_key1.jpg

- Updated code to send back uploaded image on GET request as suggested in previous review

```
• const absolutePath = process.env.LOCATION_OF_DOWNLOADED_IMAGE;
• console.log( "imageRoutes::filteredImage
  absolutePath: " + absolutePath);
•
•
•       res.sendFile(absolutePath, {}, async (err) => {
•         if (err) {
•           next(err);
•         } else {
•           // delete local files and return success
•           //await deleteLocalFiles(absolutePath);
•           await deleteLocalFiles([absolutePath]);
•           return res.status(200);
•         }
•       });
```

Full Stack Apps on AWS - Exercise / Assignment / Image Upload Web -1

Save

GET

http://final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com/filteredImage?image_url=https://upl...

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

<input checked="" type="checkbox"/>	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	image_url	https://upload.wikimedia.org/wikipedia/comm...			
	Key	Value	Description		

Body

Cookies

Headers (10)


Test Results

Status: 200 OK

Time: 5.51 s

Size: 5.97 KB

Save as example



S3 bucket with uploaded image

udacity-raj-bucket

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

Info

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

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](#)

Find objects by prefix

< 1 >


<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 1708547602239_file_delete.jpg	jpeg	February 21, 2024, 14:33:23 (UTC-06:00)	5.7 KB	Standard

Image Processing Microservice on AWS

Development Server

Success Criteria	Result
The project demonstrates a working NodeJS service	<u>Yes</u>
The project demonstrates RESTFUL design principles	<u>Yes</u>
The project demonstrates an appropriate use of HTTP status codes	<u>Yes</u>

Elastic Beanstalk Deployment

Success Criteria	Result
The project uses AWS Elastic Beanstalk's CLI and Console Dashboard	<u>Yes</u>
The project includes functional cloud deployments	<u>Yes</u>