Final Project – Full Stack App (Image Processing Microservice) on AWS
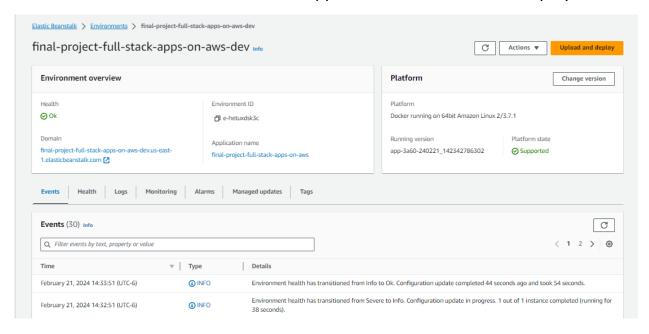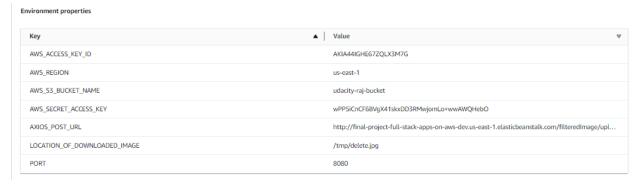
1. The source for the project is at https://github.com/raerrab/aws_fullstack
2. URL of deployed application is: http://final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com/
3. Screenshot of the Elastic Beanstalk application dashboard after deployment

4. Environment Variables for Application

Environment properties

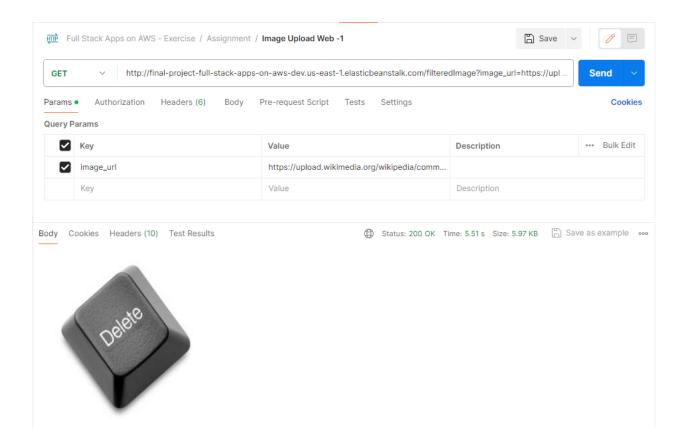| Key	Value
AWS_ACCESS_KEY_ID	AKIA44IGHE67ZQLX3M7G
AWS_REGION	us-east-1
AWS_S3_BUCKET_NAME	udacity-raj-bucket
AWS_SECRET_ACCESS_KEY	wPP5iCnCF6BVgX41skxDD3RMwjomLo+wwAWQHebO
AXIOS_POST_URL	http://final-project-full-stack-apps-on-aws-dev.us-east-1.elasticbeanstalk.com/filteredImage/upl...
LOCATION_OF_DOWNLOADED_IMAGE	/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);
                    }
                });
```
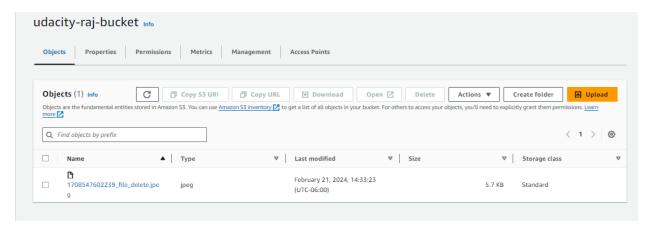
S3 bucket with uploaded image

Image Processing Microservice on AWS

Development Server

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

Elastic Beanstalk Deployment

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