

# **CS423 DevOps**

## **Assignment 3**

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## About the assignment and project:

The project was cloned from <https://github.com/eljamaki01/ReactNodeTesting>, it contained a React + Express app that was a simple shopping cart application. Very basic, but contained a front-end and back-end part with tests written for both.

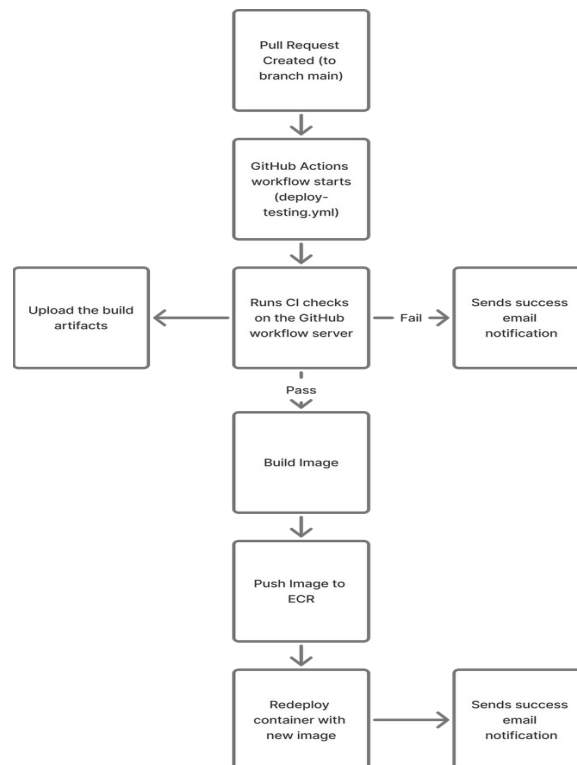
Now we set up the assignment with Docker containers, adding a dockerfile to build the images.

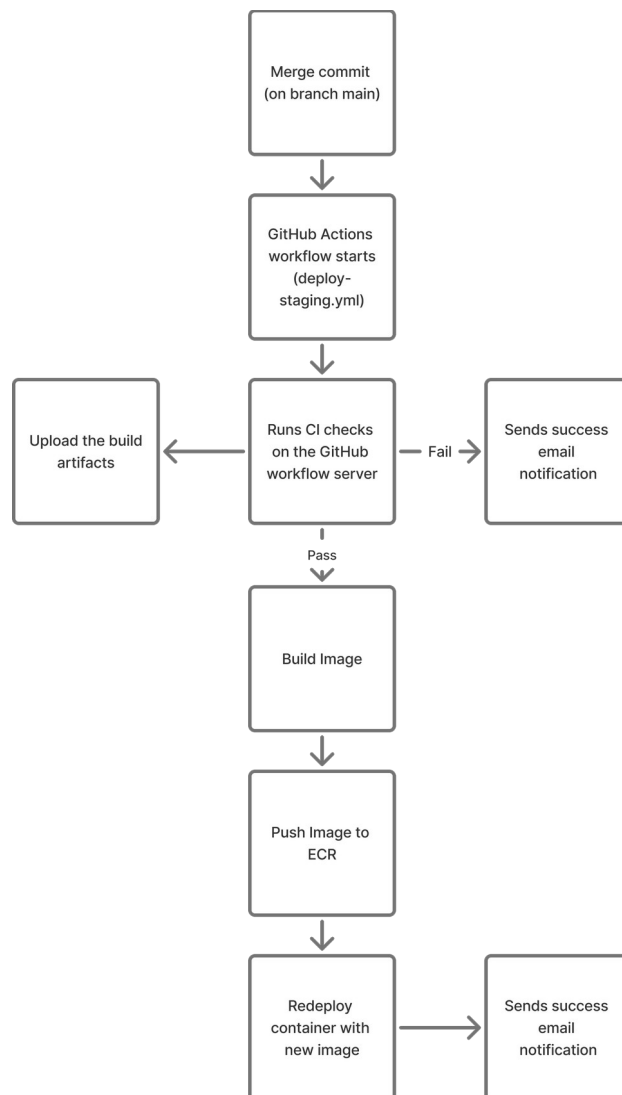
After this, I disabled both of the old GitHub Action workflows, and wrote new ones that had one major change. It builds a docker images, pushes it to ECR, then runs command on the EC2 to update the image and redeploy the container.

## Difficulties we faced:

Not many difficulties were facing in this assignment. The experience from the first one carried over.

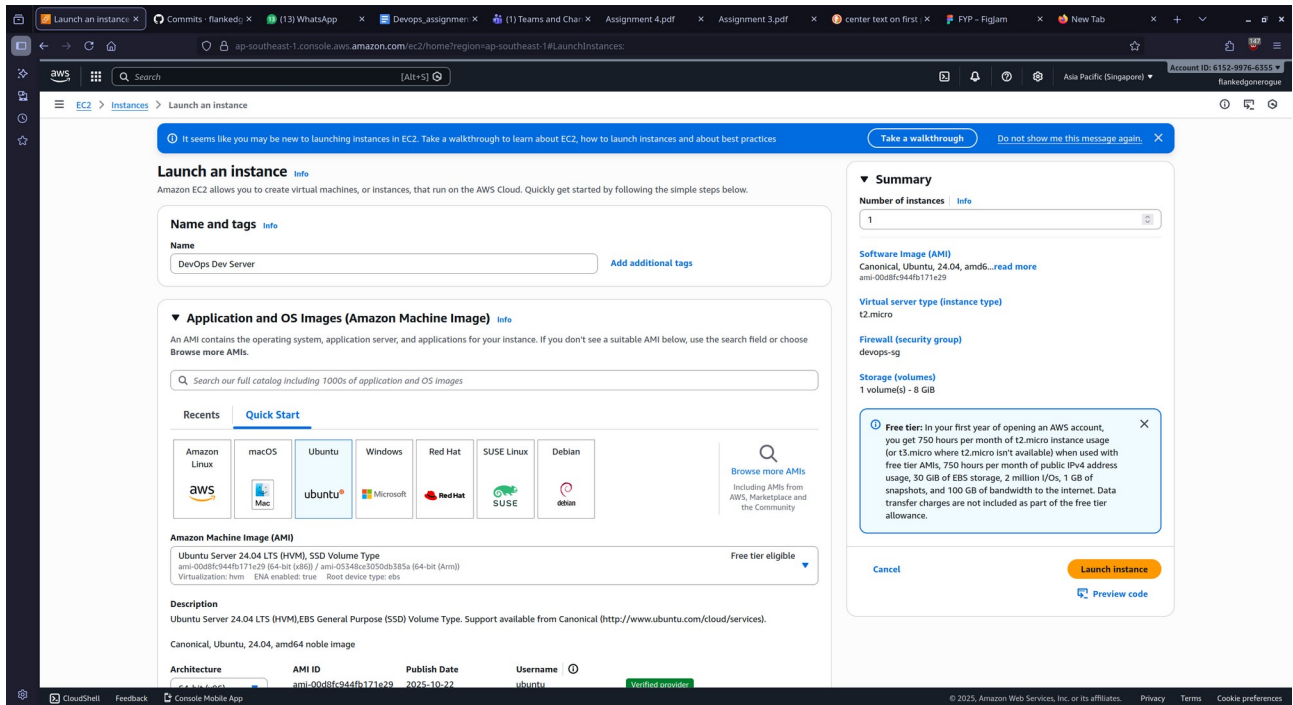
## Flows:



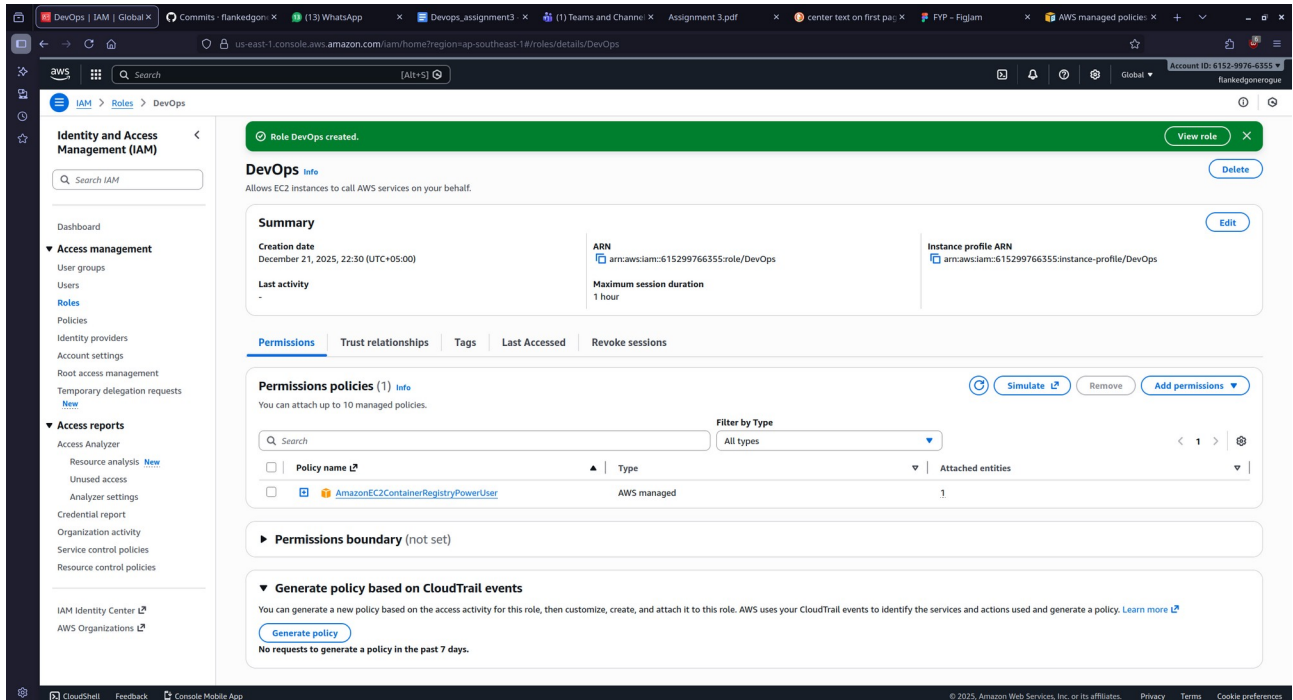


# Screenshots:

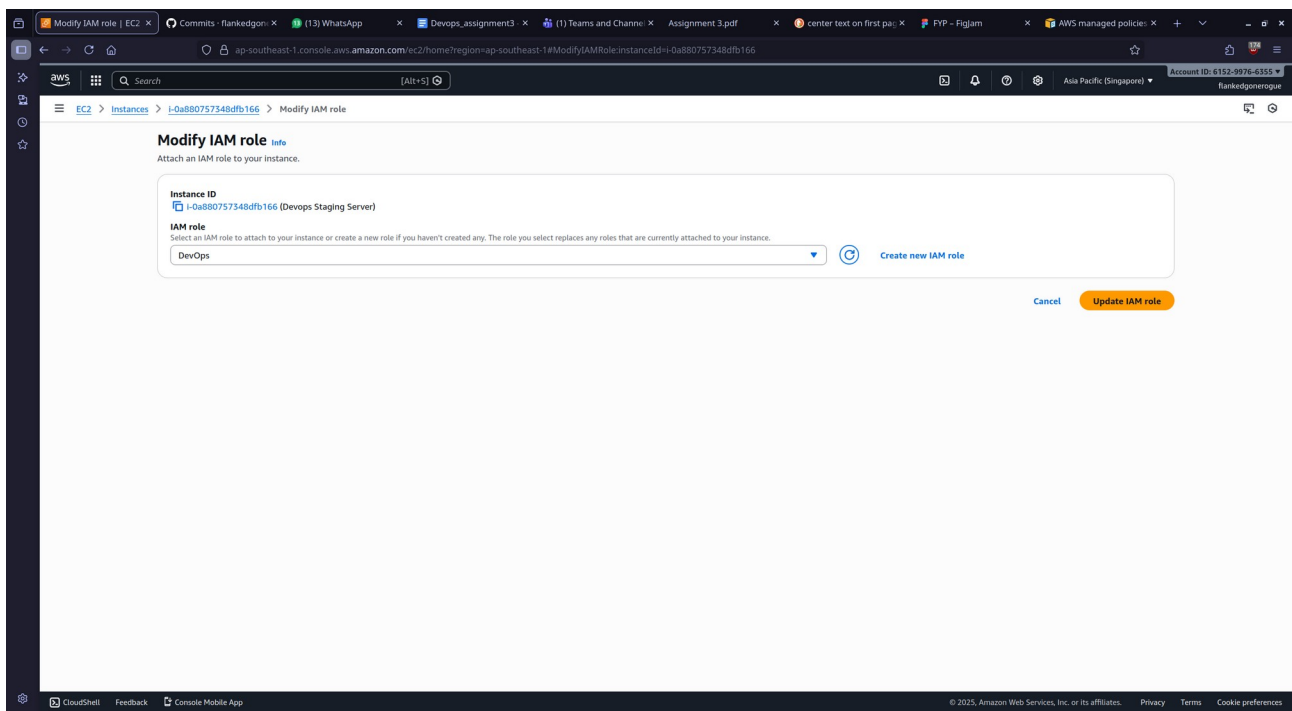
## 1. Creating the instances



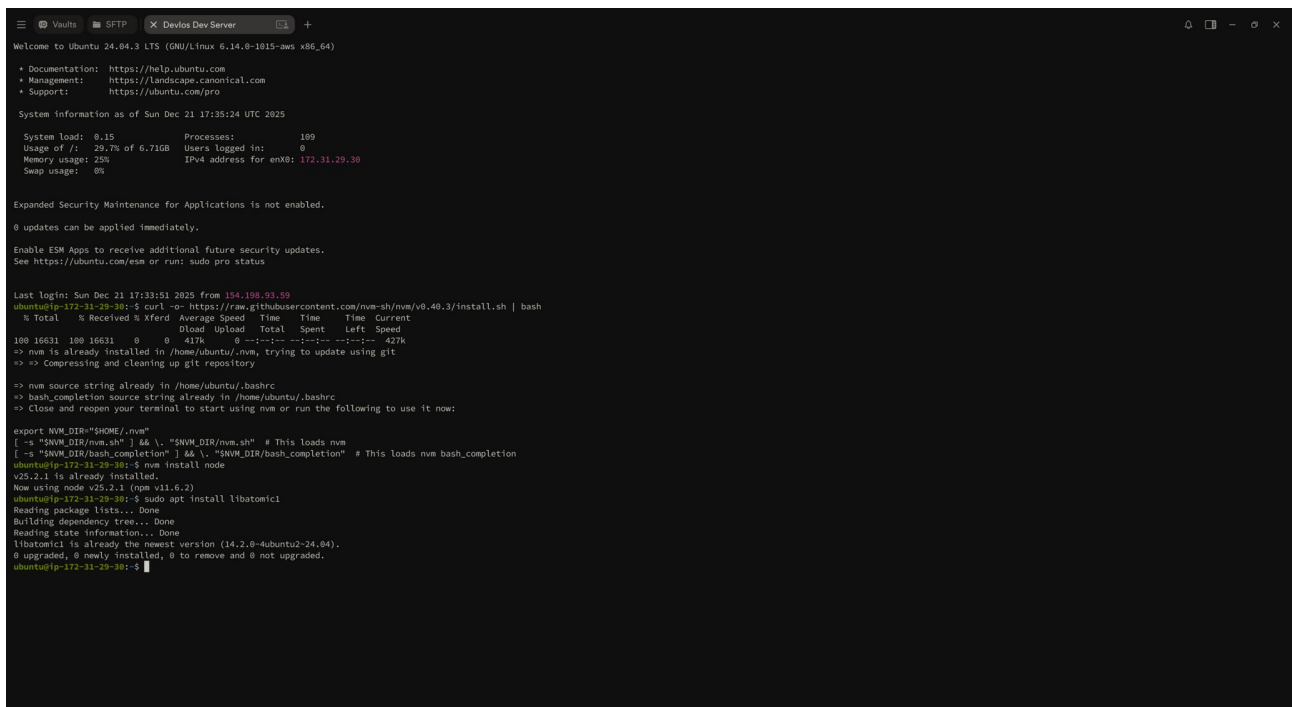
## 2. Creating the IAM role for EC2 instances



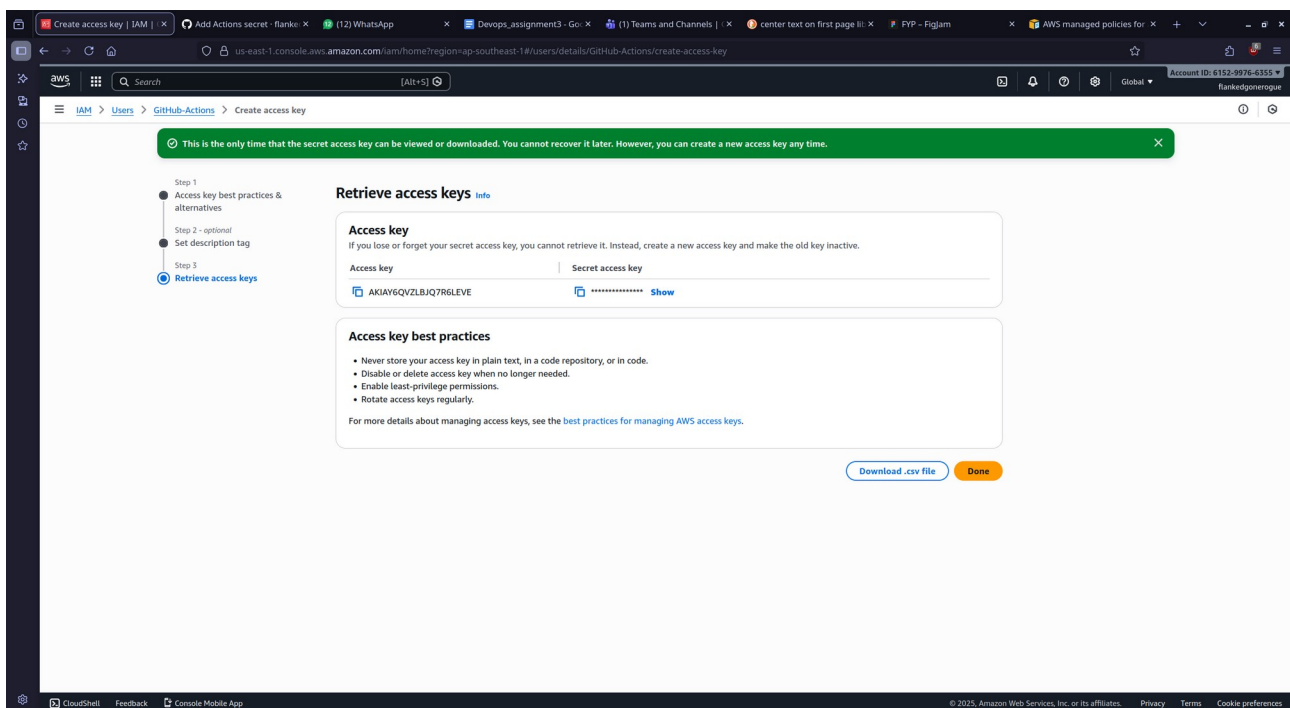
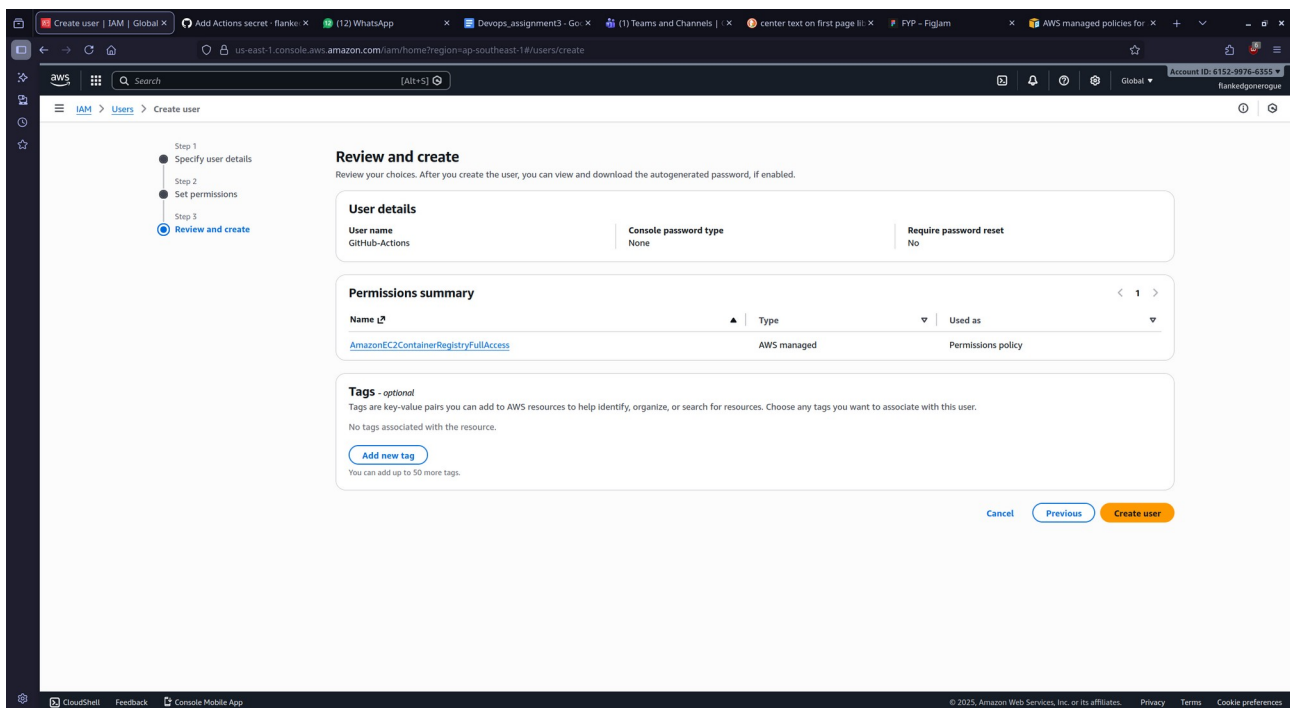
## 3. Assigning the IAM role



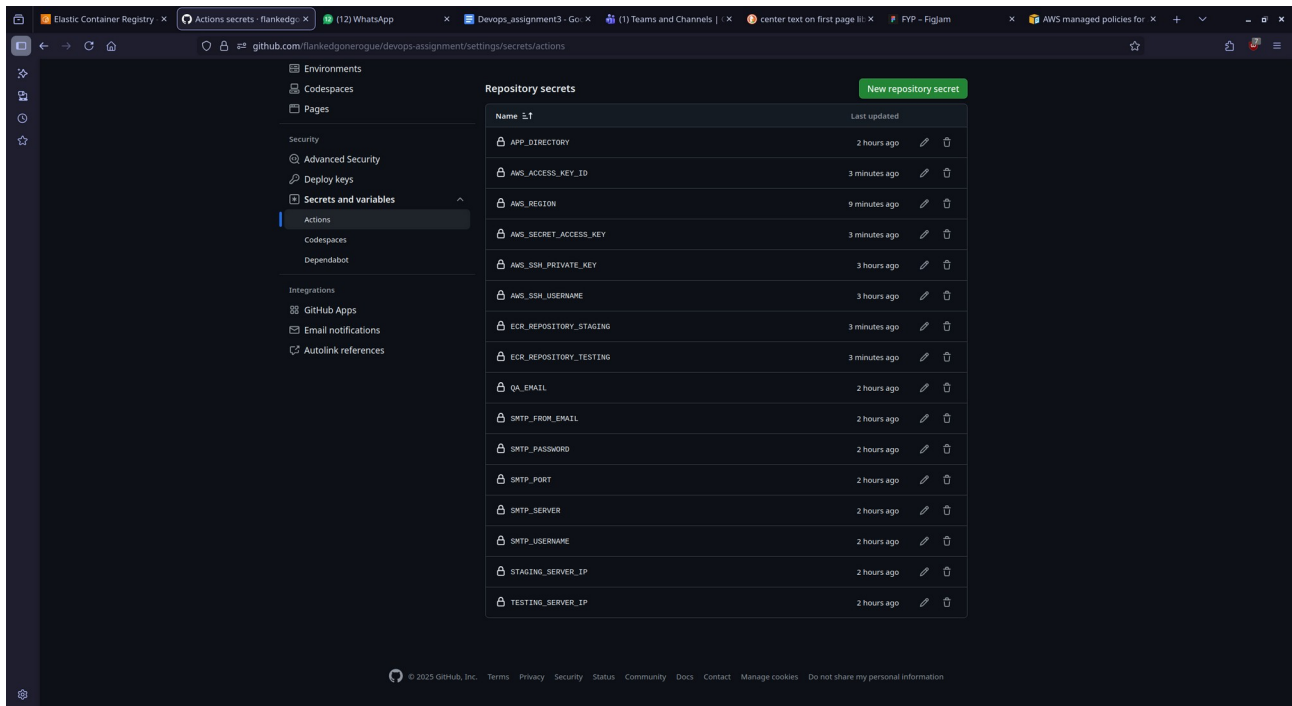
## 4. Setting up instances



## 4. Create GitHub Actions User and then access token



## 5. Setting up the new secrets and variables



## 5. Viewing the success e-mails

