Project 3 Presentation

Section 1: Selling CI/CD to your Team/Organization

Continuous Integration (CI) is the practice of merging all developers' working copies to a shared mainline several times a day while **Continuous Deployment (CD)** is a software engineering approach in which the value is delivered frequently through automated deployments.

Benefits of the CI/CD to the team/Organization

- Helps Automate infrastructure creation reducing human errors and increases the speed of deployments reducing time to market.
- CI/CD pipelines helps catch compile errors after merge hence developers spend less time to debug.
- Automated smoke tests help to reduce downtime from a deploy-related crash or major bug. This prevents the company from losing money.
- Ability to catch unit tests failures hence less bugs in production and less time in testing.
- Continuous integration helps developers do frequent code commits leading to lesser merge conflicts due to the shorter commit cycles which ultimately save a lot of business hours which can be spent on creating more interesting new features.

Section 2: Deploying Working, Trustworthy Software

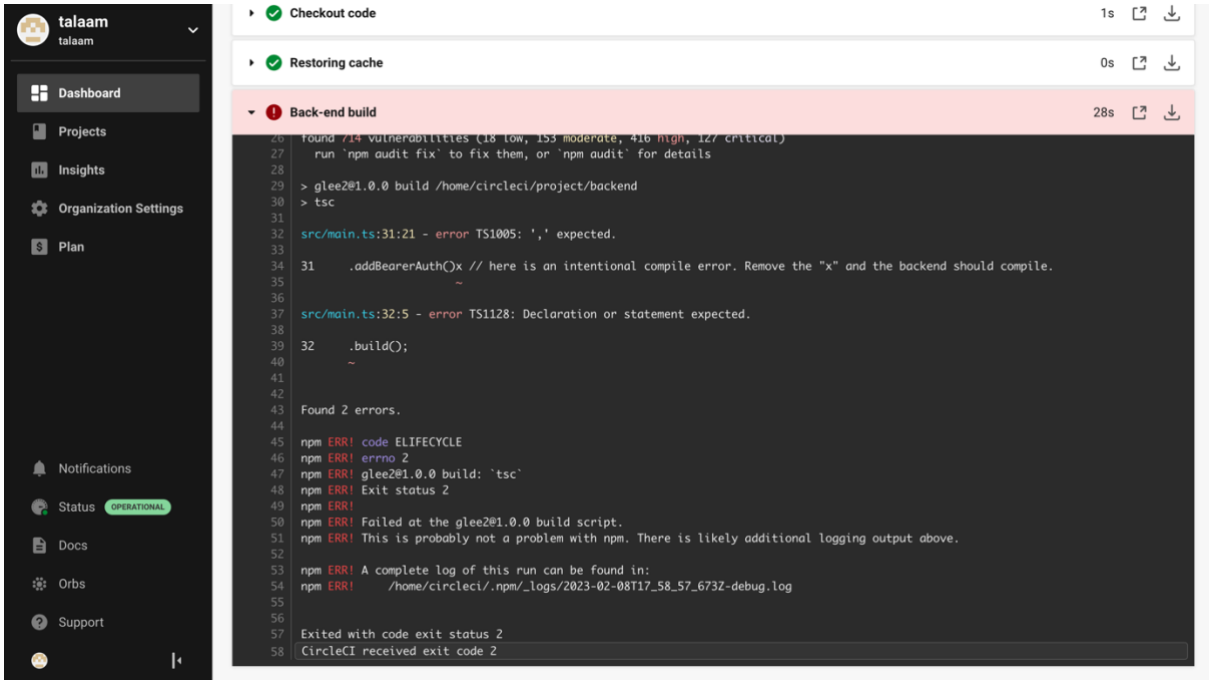
A public git repository with your project code.

URL01

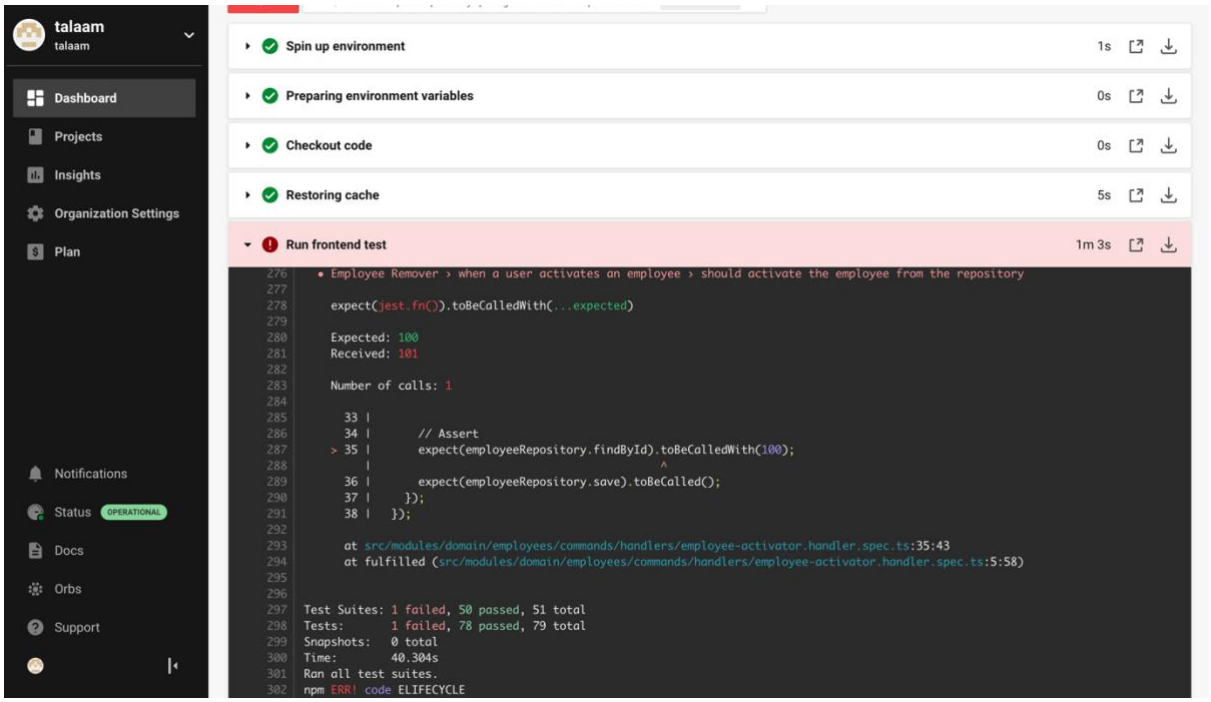
https://github.com/talaam/udaproject3

Console output of various pre-deploy job failure scenarios:

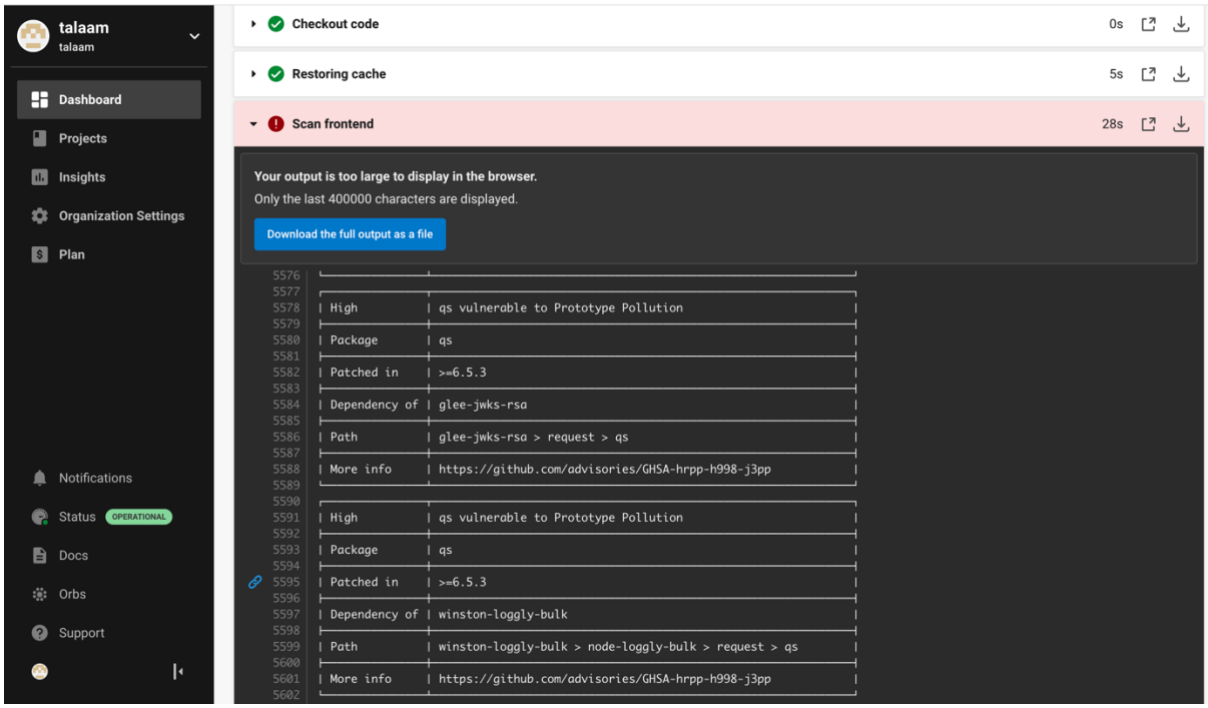
SCREENSHOT01



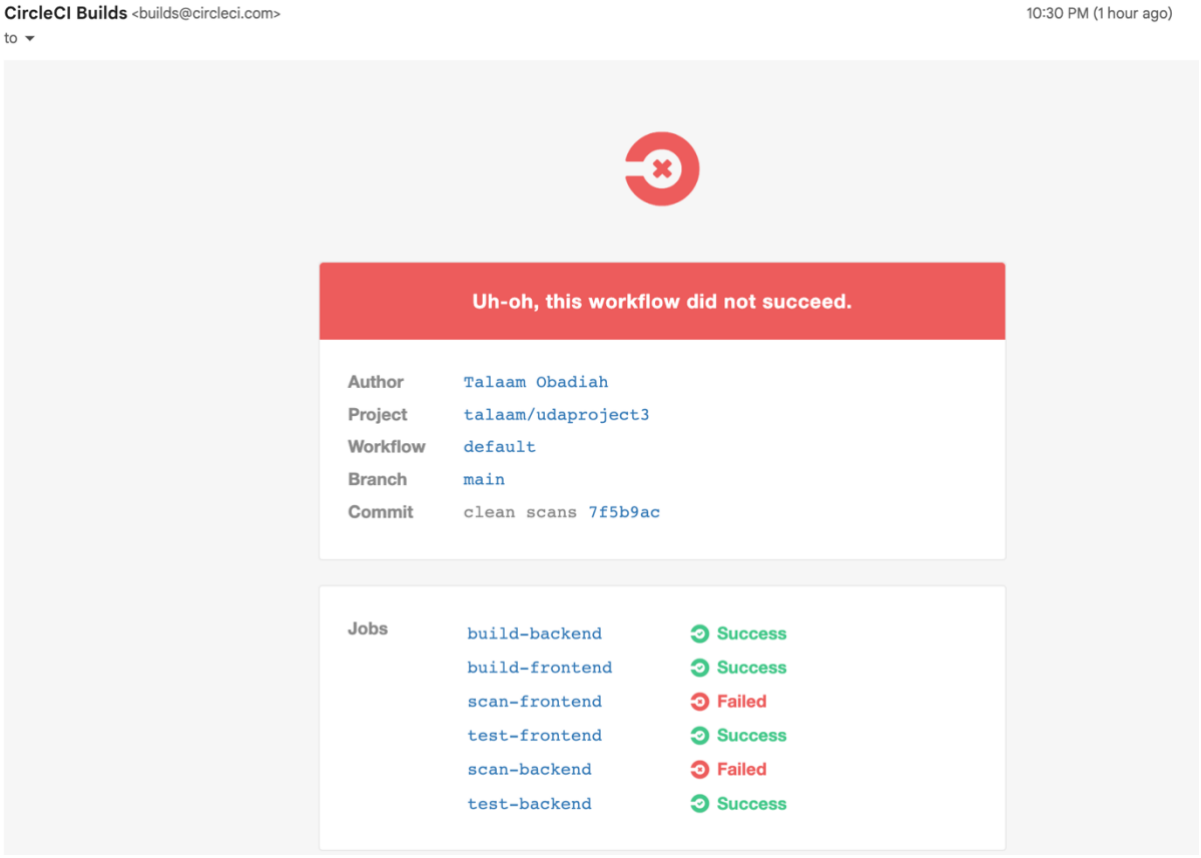
SCREENSHOT02



SCREENSHOT03

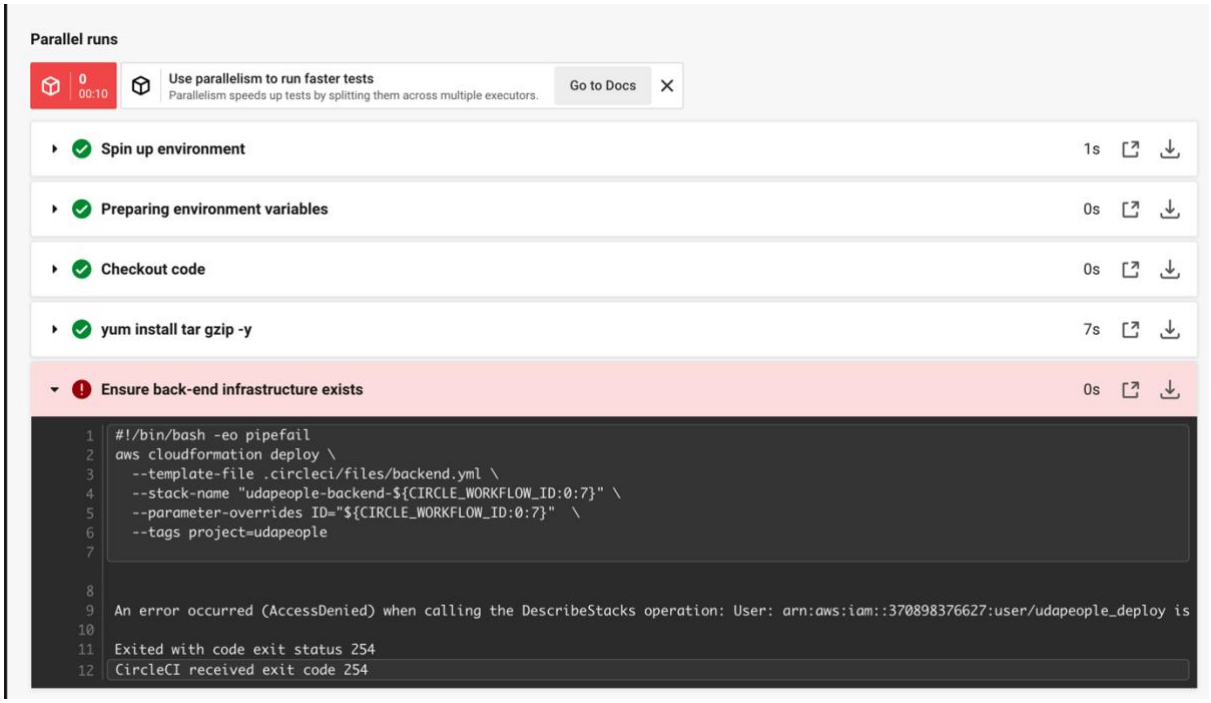


SCREENSHOT04



Console output of appropriate failure for infrastructure creation job (using CloudFormation)

SCREENSHOT05

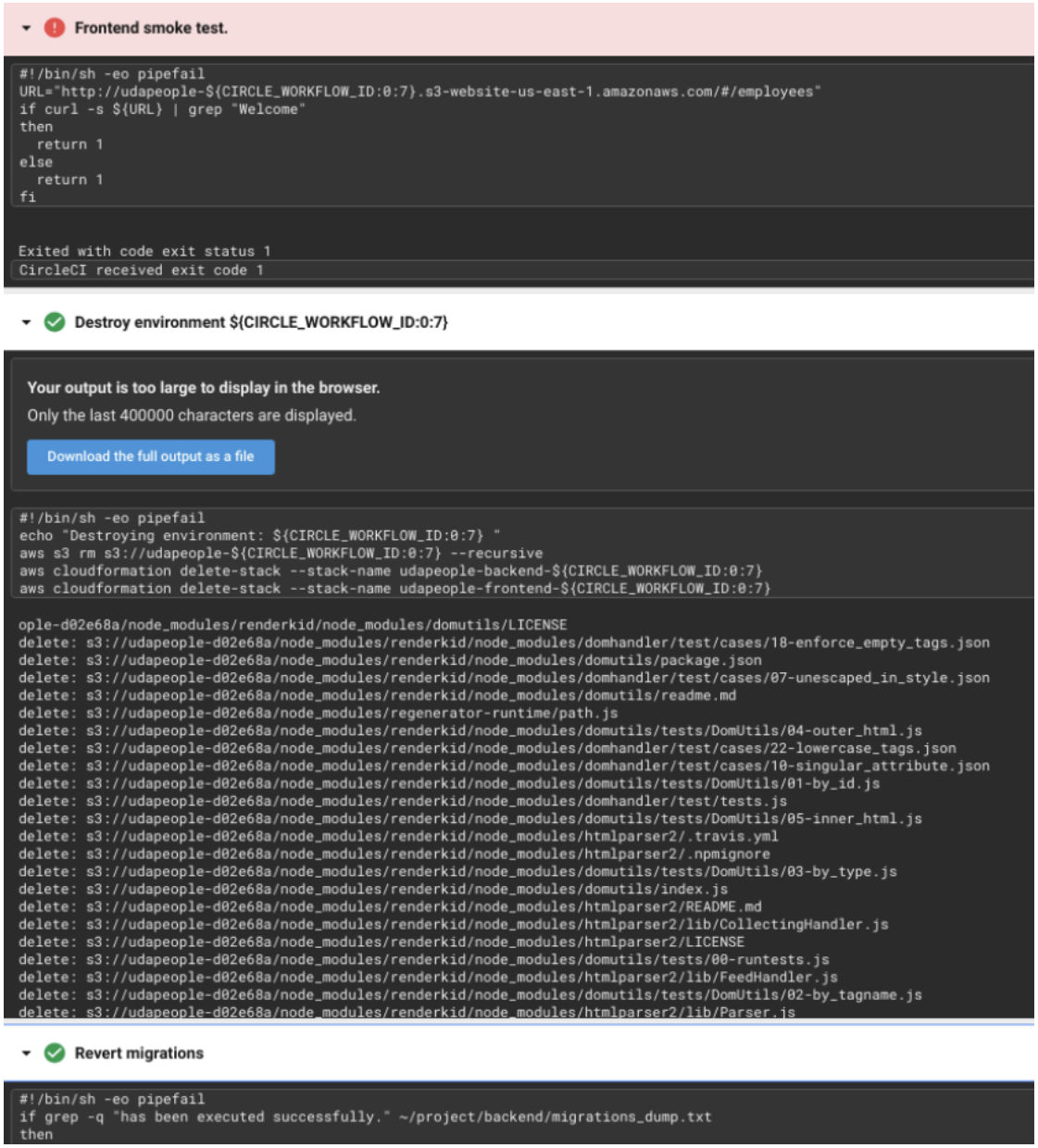


Console output of a smoke test job that is failing appropriately.

SCREENSHOT06

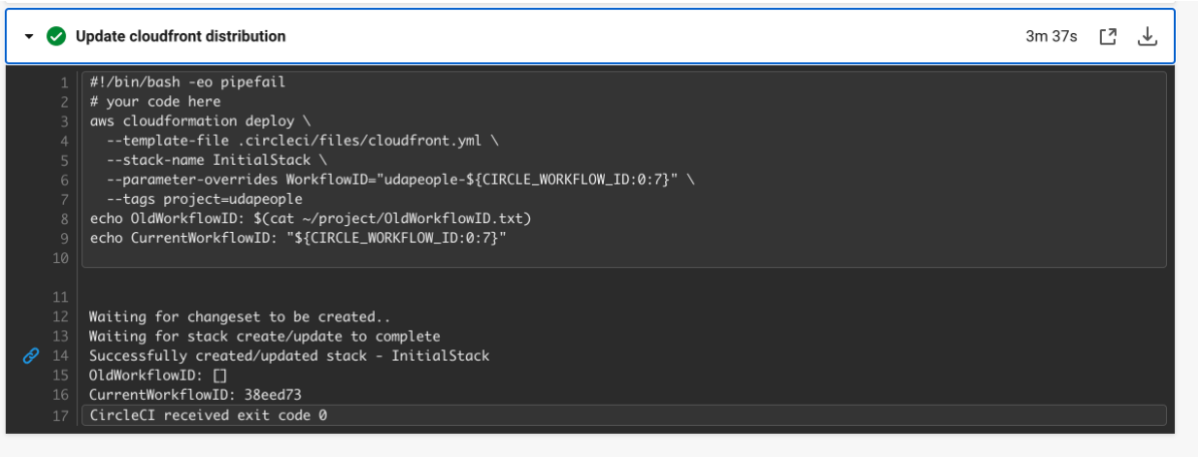
Console output of a successful rollback after a failed smoke test.

SCREENSHOT07



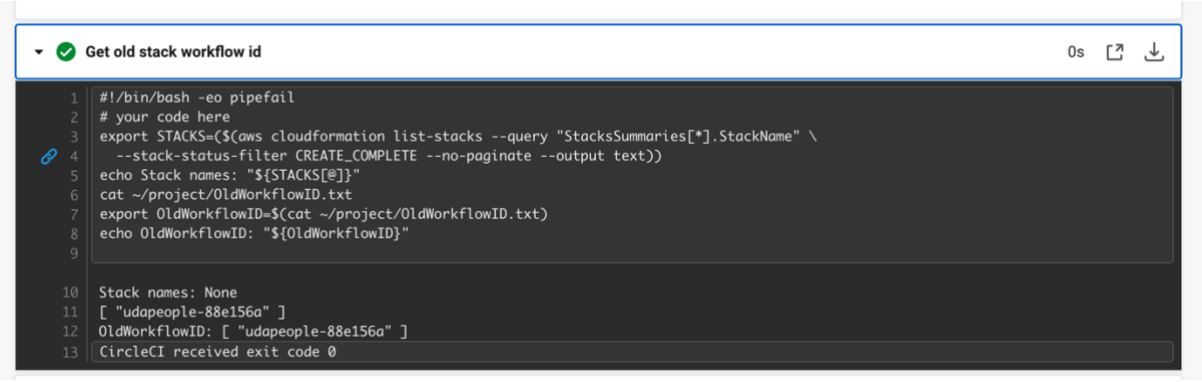
Console output of successful promotion of new version to production in CloudFront.

SCREENSHOT08



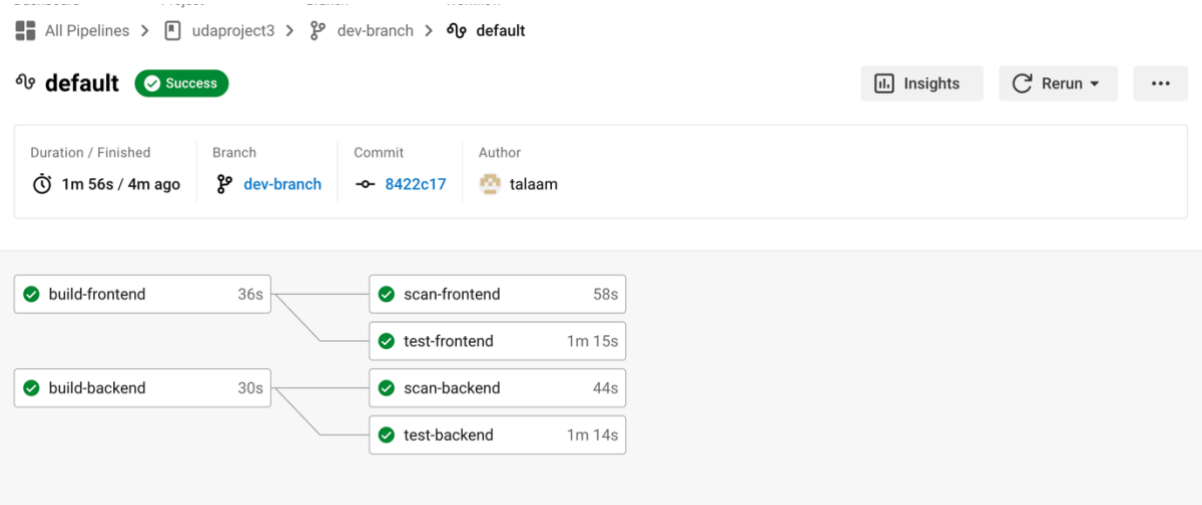
Console output of successful cleanup job that removes old S3 bucket and EC2 instance.

SCREENSHOT09



Evidence that the deploy jobs only happen on the `main` branch.

SCREENSHOT10

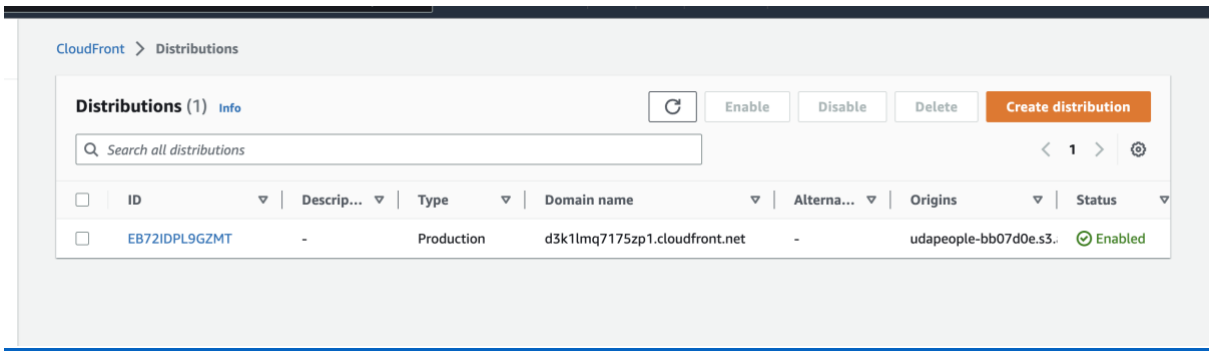


Evidence of deployed and functioning front-end application in an S3 bucket

s3 url

URL02
http://udapeople-bb07d0e.s3-website-us-east-1.amazonaws.com

Evidence of deployed and functioning front-end application in CloudFront.
CloudFront Distribution URL
URL03_SCREENSHOT
https://d3k1lmq7175zp1.cloudfront.net



Evidence of deployed and functioning front-end application in CloudFront.
URL04_SCREENSHOT

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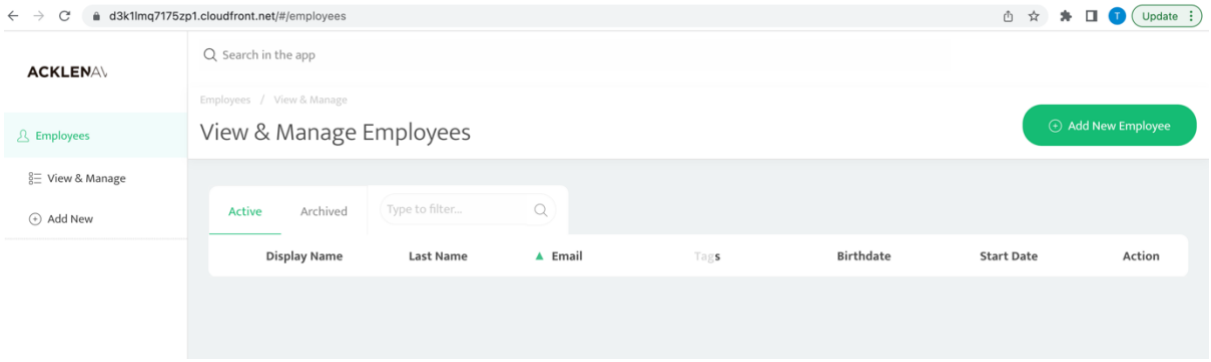
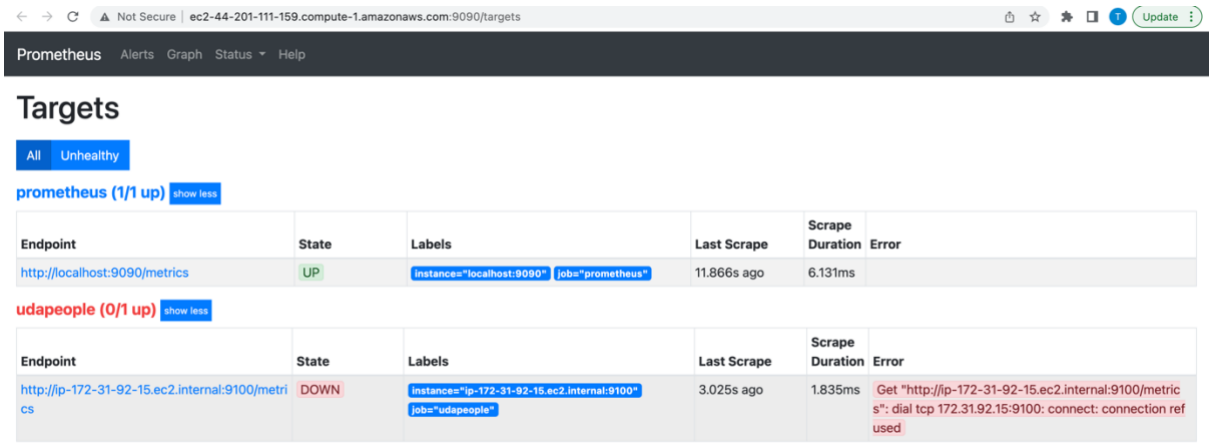


Section 3

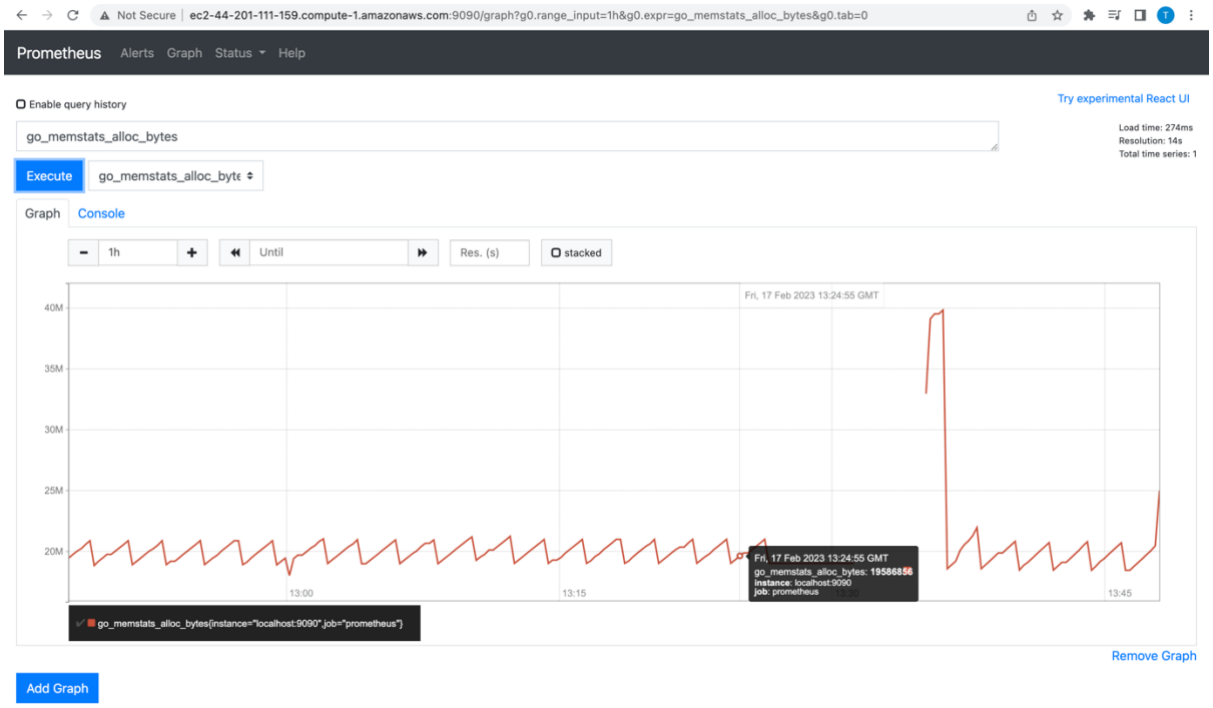
Prometheus URL

URL05_SCREENSHOT

http://ec2-44-201-111-159.compute-1.amazonaws.com:9090/targets



SCREENSHOT11



SCREENSHOT12