## **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

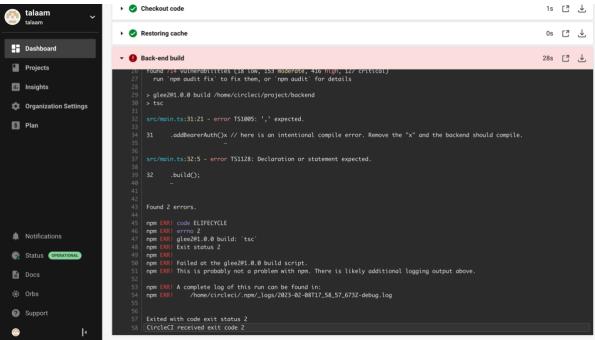
# A public git repository with your project code.

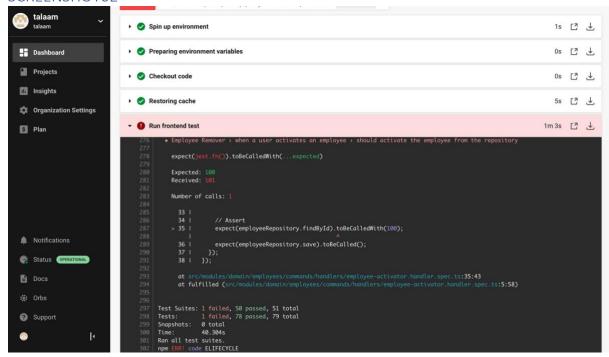
URL01

https://github.com/talaam/udaproject3

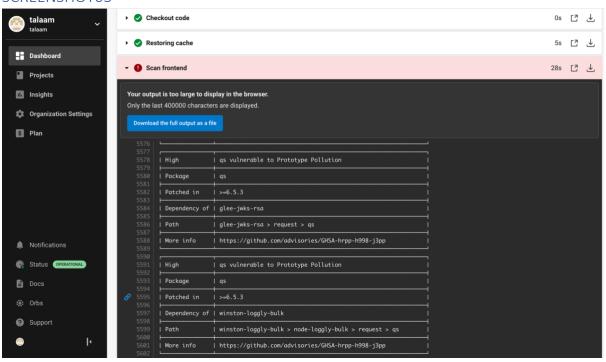
Console output of various pre-deploy job failure scenarios:

SCREENSHOT01

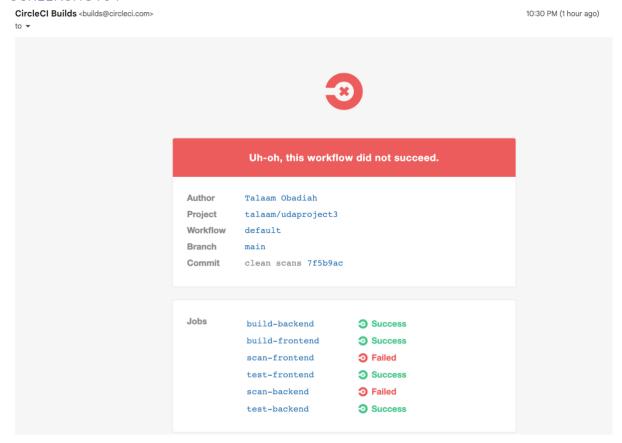




#### SCREENSHOT03

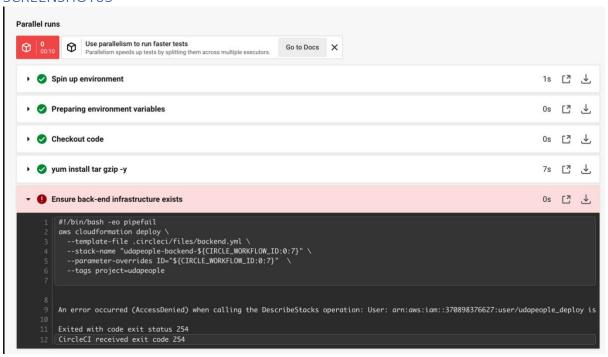






# Console output of appropriate failure for infrastructure creation job (using CloudFormation)

#### **SCREENSHOT05**



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

#### SCREENSHOT06

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

▼ ① Frontend smoke test.

```
#!/bin/sh -eo pipefail
URL="http://udapeople-${CIRCLE_WORKFLOW_ID:0:7}.s3-website-us-east-1.amazonaws.com/#/employees"
if curl -s ${URL} | grep "Welcome"
then
    return 1
else
    return 1
fi
Exited with code exit status 1
CircleCI received exit code 1
```

```
Your output is too large to display in the browser.

Only the last 400000 characters are displayed.

**Download the full output as a file**

**E!/bin/sh -eo pipefail**
echo "Destroying environment: ${CIRCLE_WORKFLOW_ID:8:7} "
aws s3 rm s3://udapeople-${CIRCLE_WORKFLOW_ID:8:7} "
aws s3 rm s3://udapeople-${CIRCLE_WORKFLOW_ID:8:7} -recursive**
aws cloudformation delete-stack --stack-name udapeople-backend-${CIRCLE_WORKFLOW_ID:8:7} aws cloudformation delete-stack --stack-name udapeople-frontend-${CIRCLE_WORKFLOW_ID:8:7} aws cloudformation delete-stack --stack-name udapeople-frontend-${CIRCLE_WORKFLOW_ID:8:7} aws cloudformation delete-stack --stack-name udapeople-frontend-${CIRCLE_WORKFLOW_ID:8:7} avs cloudformation delete-s3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/package_json

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/package_json

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/readme.md

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/readme.md

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/tests/DomUtils/d4-outer_html.js

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/tests/DomUtils/d4-outer_html.js

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/tests/DomUtils/d4-outer_html.js

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delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/dommtals/tests/DomUtils/d3-by_id_js

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/tommtals/tests/DomUtils/d3-by_id_js

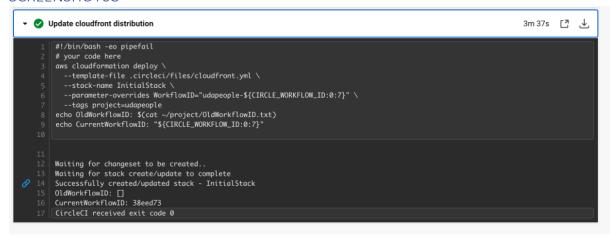
delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/thmlparser2/.rpmignore

delete: $3://udapeople-d82e68a/node_modules/renderkid/node_modules/thmlparser2/.ipmpignore

delete: $3://udapeople-d82e68a/node_
```

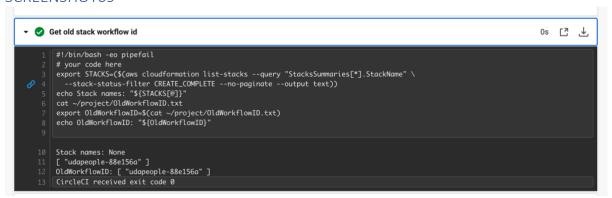
```
#!/bin/sh -eo pipefail
if grep -q "has been executed successfully." ~/project/backend/migrations_dump.txt
then
```

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



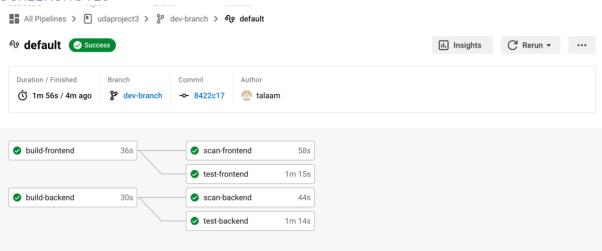
Console output of successful cleanup job that removes old S3 bucket and EC2 instance.

#### 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

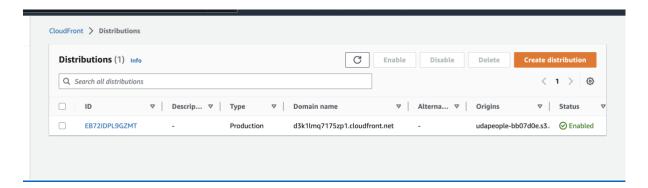
#### URL02

### 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

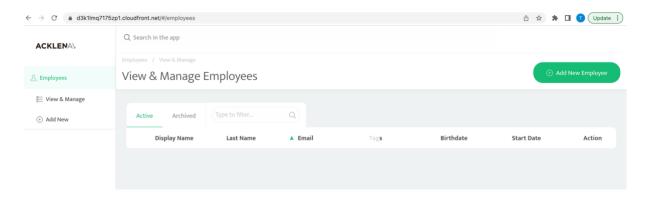
https://d3k1lmq7175zp1.cloudfront.net



Evidence of deployed and functioning front-end application in CloudFront. URL04\_SCREENSHOT

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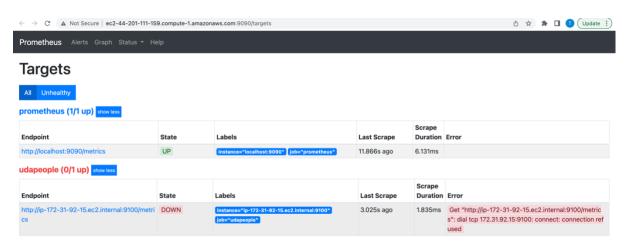


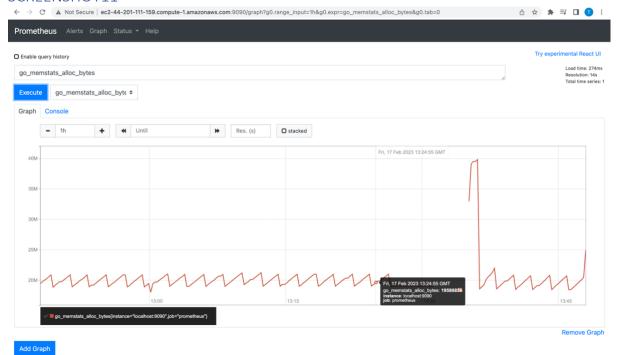
## Section 3

#### # Prometheus URL

#### **URL05\_SCREENSHOT**

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





#### SCREENSHOT12

#### **Alerts**

