UDACITY

Return to Classroom

Give Your Application Auto-Deploy Superpowers

REVIEW

CODE REVIEW 3

HISTORY

Meets Specifications

⭐ Congratulations on successfully completing this project! ⭐

You have done an amazing work in this challenging project using CI/CD automation tools and submitting excellent screenshots from your CircleCI Jobs, including the whole screen with your **CircleCI profile** in the top left and also the **CircleCI URL** with the pipeline number.

You have certainly acquired all the important concepts and skills from this project with great value on the market. 👍

Good luck with the next project! 👏
Happy learning and stay safe!

💡 **Here are a few resources you might find useful for more insight and further learning:**

- AWS Website endpoints
- Why am I getting a syntax error in this script?
- Key-Value Store API
  Get a key-value database and web API up and running in seconds.

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

The CI/CD benefits proposal contains essential benefits of CI/CD, and describes the business context that will benefit from the automation tools. Explanation should include benefits that translate to revenue and cost for the business.

PS
A previous reviewer already passed the student on this section, showing the **technical** benefits of CI/CD automation tools to business!👏

Section 2: Deploying Working, Trustworthy Software

A public git repository with your project code. [URL01]

Evidence of code-based CI/CD configuration in the form of yaml files in your git repository.

Console output of various pre-deploy job failure scenarios:

- Build Jobs that failed because of compile errors. [SCREENSHOT01]
- Failed unit tests. [SCREENSHOT02]
- Failure because of vulnerable packages. [SCREENSHOT03]
- An alert from one of your failed builds. [SCREENSHOT04]

Evidence in your code that:

- Compile errors have been fixed.
- Unit tests have been fixed.
- All critical security vulnerabilities caught by the “Analyze” job have been fixed.

✔ URL01: A public git repository with your project code. 👍

- https://github.com/hesham98/cdond-c3-projectstarter

✔ Your CircleCI Pipelines related to your submitted GitHub repository.

- https://app.circleci.com/pipelines/github/hesham98/cdond-c3-projectstarter

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PS
A previous reviewer already passed the student on this rubric item: Deploying Working, Trustworthy Software. 👏🏽

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]

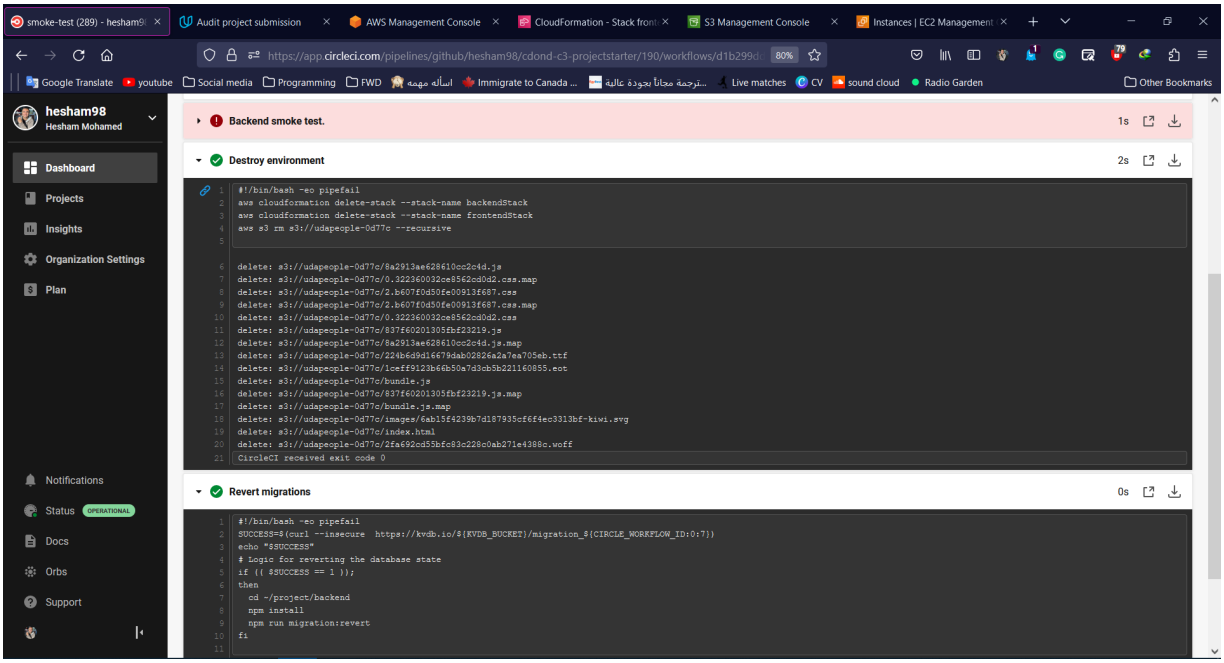
Evidence that the deploy jobs only happen on the `master` branch. [SCREENSHOT10]

Evidence of deployed and functioning front-end application in an S3 bucket [URL02].

Evidence of deployed and functioning front-end application in CloudFront. [URL03_SCREENSHOT]

Evidence of healthy back-end application. [URL04_SCREENSHOT]

✅ SCREENSHOT07: **Console output** of a successful rollback **after** a failed **smoke test**.

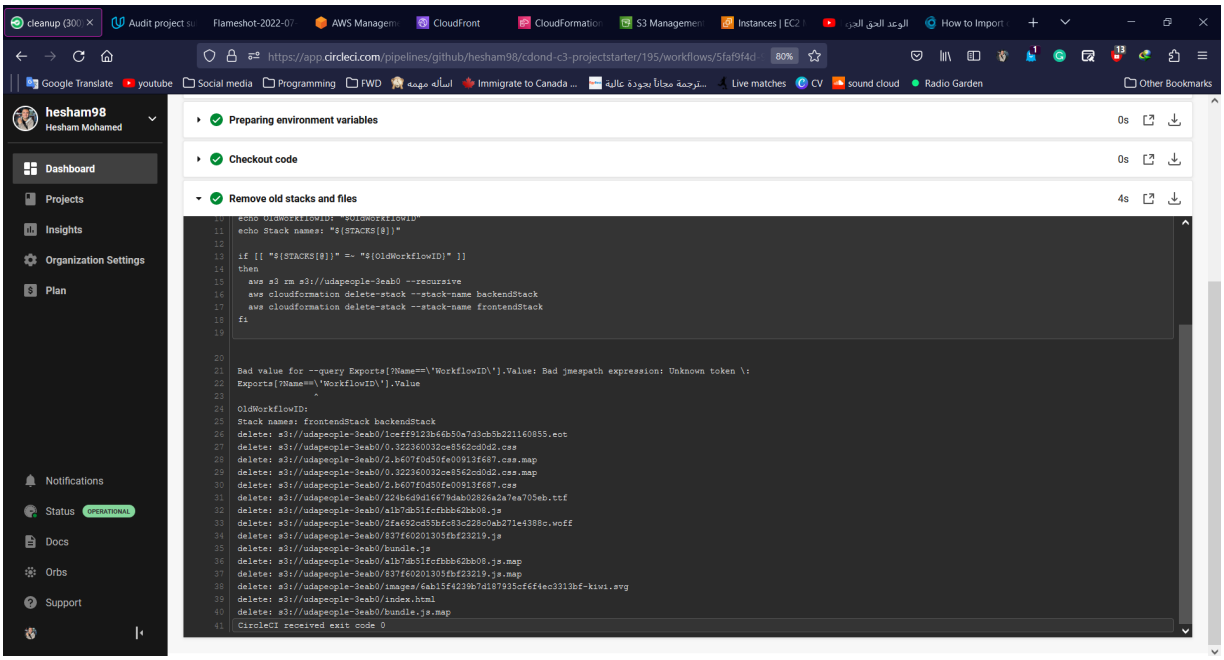


👏 The screenshot includes the whole screen with the required steps, your **CircleCI profile** in the top left, and also the **CircleCI URL** with the pipeline number of your job.

Excellent and very detailed work! 👏

💡 Automating the process of *rolling back and cleaning* any infrastructure left, triggered by a **job failure**, will help to **avoid cost** and **protect revenue**.

✅ SCREENSHOT09: **Console output** of successful cleanup job that removes old **S3 bucket** and **EC2 instance**.

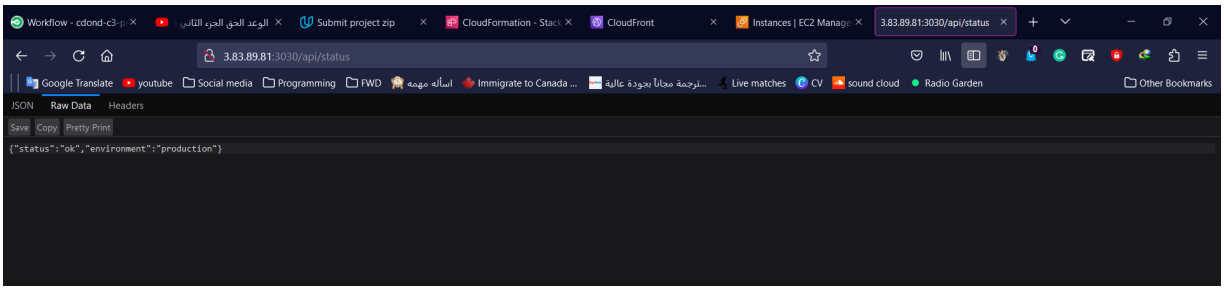


- https://app.circleci.com/pipelines/github/hesham98/cdond-c3-projectstarter/195/workflows/5faf9f4d-9e5b-4345-9695-343414932323/jobs/300

Well done! 👏

💡 The purpose of this job is to show **automated infrastructure clean-up** to eliminate human errors and avoid unnecessary cost of unused or invalid infrastructure.
So, it is quite important to **see** the old files being deleted by the **automated infrastructure clean-up**. 👍

✅ URL04: Evidence of healthy back-end application. [`URL04_SCREENSHOT`]



The screenshot shows a full **backend URL04** open in a web browser! 👏
And, the response is perfect!
Good job! 👏

Great job on this section! 👏
Each point is achieved correctly! 👍

Glad to see that you have fulfilled all the requirements and specifications! 👏

Section 3: Turn Errors into Sirens

Evidence of Prometheus Server. [URL05_SCREENSHOT].

Evidence that Prometheus is monitoring memory, cpu and disk usage of EC2 instances. [SCREENSHOT11]

Evidence that Prometheus and AlertManager send alerts when certain conditions exist in the EC2 instance. [SCREENSHOT12]

PS
This section on Prometheus server has already been approved! 👏

DOWNLOAD PROJECT

3 CODE REVIEW COMMENTS ›

RETURN TO PATH

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