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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>

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 shows a CircleCI pipeline run for 'Backend smoke test'. The pipeline is titled 'Backend smoke test' and has a status of 'Succeeded'. The 'Destroy environment' step is highlighted, showing a list of AWS resources to be deleted, including S3 buckets and EC2 instances. The step is titled 'Destroy environment' and has a duration of 2s. The step is titled 'Destroy environment' and has a duration of 2s. The step is titled 'Destroy environment' and has a duration of 2s.

```

1 #!/bin/bash -eo pipefail
2 aws cloudformation delete-stack --stack-name backendStack
3 aws cloudformation delete-stack --stack-name frontendStack
4 aws s3 rm s3://udapeople-0d77c --recursive
5
6 delete: s3://udapeople-0d77c/6a2913ae628610cc20d4d.js
7 delete: s3://udapeople-0d77c/0.322360032ce85620d0d2.css.map
8 delete: s3://udapeople-0d77c/2.b607f0d50fe00913f687.css
9 delete: s3://udapeople-0d77c/2.b607f0d50fe00913f687.css.map
10 delete: s3://udapeople-0d77c/0.322360032ce85620d0d2.css
11 delete: s3://udapeople-0d77c/83746201305fb23219.js
12 delete: s3://udapeople-0d77c/6a2913ae628610cc20d4d.js.map
13 delete: s3://udapeople-0d77c/224b6d9d16679dab0226a2a7ea705eb.ttf
14 delete: s3://udapeople-0d77c/1ceff9123b66b50a7d3cb5b221160855.eot
15 delete: s3://udapeople-0d77c/bundle.js
16 delete: s3://udapeople-0d77c/83746201305fb23219.js.map
17 delete: s3://udapeople-0d77c/bundle.js.map
18 delete: s3://udapeople-0d77c/images/6ab15e4239b7d167935cfe4fec3313bf-kiwi.svg
19 delete: s3://udapeople-0d77c/index.html
20 delete: s3://udapeople-0d77c/2fa692cd5bfc83c228c0ab271e4388c.woff
21 CircleCI received exit code 0

```

👏 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.

The screenshot shows a CircleCI pipeline run for 'cleanup'. The pipeline is titled 'cleanup' and has a status of 'Succeeded'. The 'Remove old stacks and files' step is highlighted, showing a list of AWS resources to be deleted, including S3 buckets and EC2 instances. The step is titled 'Remove old stacks and files' and has a duration of 4s. The step is titled 'Remove old stacks and files' and has a duration of 4s. The step is titled 'Remove old stacks and files' and has a duration of 4s.

```

20 OldWorkflowID:
21 Stack names: frontendStack backendStack
22 delete: s3://udapeople-3eab0/1ceff9123b66b50a7d3cb5b221160855.eot
23 delete: s3://udapeople-3eab0/0.322360032ce85620d0d2.css
24 delete: s3://udapeople-3eab0/2.b607f0d50fe00913f687.css.map
25 delete: s3://udapeople-3eab0/0.322360032ce85620d0d2.css.map
26 delete: s3://udapeople-3eab0/224b6d9d16679dab0226a2a7ea705eb.ttf
27 delete: s3://udapeople-3eab0/alb7db51cfb8bb2bb08.js
28 delete: s3://udapeople-3eab0/2fa692cd5bfc83c228c0ab271e4388c.woff
29 delete: s3://udapeople-3eab0/83746201305fb23219.js
30 delete: s3://udapeople-3eab0/bundle.js
31 delete: s3://udapeople-3eab0/alb7db51cfb8bb2bb08.js.map
32 delete: s3://udapeople-3eab0/83746201305fb23219.js.map
33 delete: s3://udapeople-3eab0/images/6ab15e4239b7d167935cfe4fec3313bf-kiwi.svg
34 delete: s3://udapeople-3eab0/index.html
35 delete: s3://udapeople-3eab0/bundle.js.map
36 CircleCI received exit code 0

```

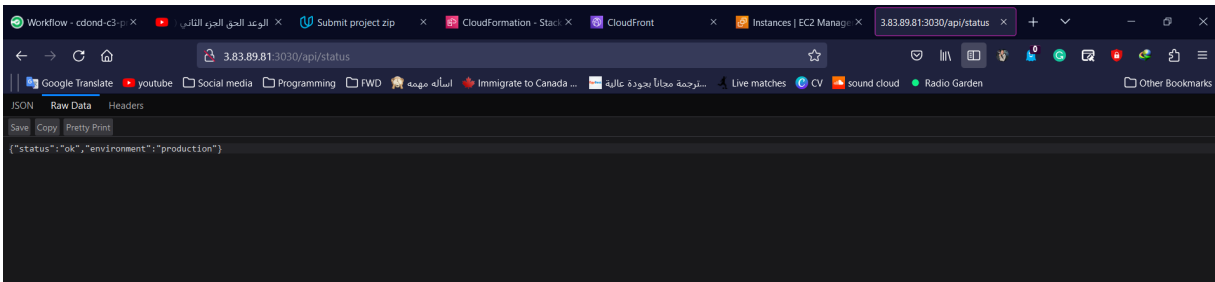
- <https://app.circleci.com/pipelines/github/hesham98/cdond-c3-projectstarter/195/workflows/5faf9f4d-9e5b-4345-9695-343414932323/jobs/300>

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! 🎉

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3 [CODE REVIEW COMMENTS](#)



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