Final Exam - Fix App Outputs

Name: Hanil Zarbailov

After fixing the app.py file and running the app locally:



Running EC2 Instances

ID	State	Type	Public IP
i-04c626ffece0d241b	running	t3.medium	54.161.131.247
i-0452289e4262900bc	running	t4g.medium	34.207.125.155
i-0476ccfb8b6903df0	running	t3.medium	54.164.16.229
i-0cde8ebc1591e22c8	running	t3.medium	34.238.39.188
i-09f0f850867de3b36	running	t3.medium	3.239.180.126
i-0dceafa917df59f88	running	t3.medium	3.239.188.109
i-09cfce9052177f0b9	running	t3.medium	3.235.155.70
i-065aaaa2177e13008	terminated	t3.medium	N/A
i-03634a73a0c7b3301	running	t3.medium	3.219.215.180
i-0ee8e5026c4af6cf1	running	t4g.medium	44.200.53.30
i-0c0966db60aadc496	running	t3.medium	3.89.81.217
i-0d1f41cc74cf17260	running	t3.medium	3.236.186.248
i-0642c6787ab7c56e9	running	t3.medium	44.192.109.161
i-009006cf8fc393f2c	running	t3.medium	34.231.255.8
i-0b78771567ef067d8	running	t3.medium	3.239.197.40
i-0b1664a23e6ebf2c6	running	t3.medium	3.239.170.16
i-0c4e923066b99e1be	running	t3.medium	54.236.59.109
i-0e1b6619a95b36ad9	running	t3.medium	3.236.186.219
i-0683b6972f83166b1	running	t3.medium	98.80.202.61
i-09f9a1a10d300acf8	running	t3.medium	98.84.42.110
i-07ed3ce2143261483	running	t3.medium	3.239.106.200
i-00d8aea4fc8da2958	running	t3.medium	44.220.251.124
i-075c9ac8688269d81	running	t3.medium	3.92.48.226
i-0998ef48512c2b6b9	running	t3.medium	44.211.124.5
i-03150d7625ae55798	running	t3.medium	34.228.210.179

VPCs

VPC ID	CIDR	
vpc-044604d0bfb707142	172.31.0.0/16	

Load Balancers

LB Name DNS Name

Available AMIs

AMI ID	Name
ami-09538f653a1b556ed	daniel-ec2-image
ami-0ecc0e0d5986a576d	terraform-workshop-image-do-not-delete
ami-0565d81d4e11c58aa	guy-ec2-image

Docker build and run in instance:

build:

...

ubuntu@ip-172-31-4-198:~/matrix-finalexam\$ git fetch --all

Fetching origin

remote: Enumerating objects: 14, done.

remote: Counting objects: 100% (14/14), done. remote: Compressing objects: 100% (9/9), done.

remote: Total 10 (delta 3), reused 8 (delta 1), pack-reused 0 (from 0) Unpacking objects: 100% (10/10), 326.98 KiB | 5.84 MiB/s, done.

 $From \ https://github.com/hanilz/matrix-finalexam$

fd9c444..a336bf6 docker -> origin/docker

3e250bb..a336bf6 dev -> origin/dev

* [new branch] fix-app -> origin/fix-app ubuntu@ip-172-31-4-198:~/matrix-finalexam\$ git pull --all

Fetching origin

Updating fd9c444..a336bf6

Fast-forward

```
README.md
                              | 4 +++-
docker/final_exam_docker_outputs.pdf | Bin 0 -> 369061 bytes
docker/readme.md
                               | 82
+++++++++++
3 files changed, 17 insertions(+), 69 deletions(-)
create mode 100644 docker/final exam docker outputs.pdf
ubuntu@ip-172-31-4-198:~/matrix-finalexam$ git checkout fix-app
Branch 'fix-app' set up to track remote branch 'fix-app' from 'origin'.
Switched to a new branch 'fix-app'
ubuntu@ip-172-31-4-198:~/matrix-finalexam$ II
total 28
drwxrwxr-x 6 ubuntu ubuntu 4096 Mar 17 11:56 ./
drwxr-x--- 5 ubuntu ubuntu 4096 Mar 17 10:46 ../
drwxrwxr-x 8 ubuntu ubuntu 4096 Mar 17 11:56 .git/
-rw-rw-r-- 1 ubuntu ubuntu 283 Mar 17 11:56 README.md
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 17 11:56 docker/
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 17 11:56 fix-app/
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 17 10:46 terraform/
ubuntu@ip-172-31-4-198:~/matrix-finalexam$ cd fix-app/
ubuntu@ip-172-31-4-198:~/matrix-finalexam/fix-app$ II
total 24
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 17 11:56 ./
drwxrwxr-x 6 ubuntu ubuntu 4096 Mar 17 11:56 ../
-rw-rw-r-- 1 ubuntu ubuntu 343 Mar 17 11:56 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 2886 Mar 17 11:56 app.py
-rw-rw-r-- 1 ubuntu ubuntu 884 Mar 17 11:56 readme.md
-rw-rw-r-- 1 ubuntu ubuntu 27 Mar 17 11:56 requirements.txt
ubuntu@ip-172-31-4-198:~/matrix-finalexam/fix-app$ docker build -t flask-fix-test .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
       Install the buildx component to build images with BuildKit:
       https://docs.docker.com/go/buildx/
Sending build context to Docker daemon 8.192kB
Step 1/10 : FROM python: 3.9 AS builder
---> 9f98746e2033
Step 2/10: WORKDIR /app
---> Using cache
---> ce71534cfb72
Step 3/10: COPY requirements.txt.
---> Using cache
---> e96121a4b712
Step 4/10: RUN pip install --no-cache-dir --upgrade pip && pip install --no-cache-dir
--prefix=/install -r requirements.txt
---> Using cache
---> a804202ca9da
Step 5/10: FROM python:3.9-slim
---> 1a47c1aaa88f
Step 6/10: WORKDIR /app
```

```
---> Using cache
```

---> 57d37b1544ff

Step 7/10 : COPY --from=builder /install /usr/local

- ---> Using cache
- ---> 15612b1e5a5b

Step 8/10: COPY ...

---> 7901b36adea7

Step 9/10: EXPOSE 5001

- ---> Running in fb77762cf310
- ---> Removed intermediate container fb77762cf310
- ---> 29056ddb8996

Step 10/10 : CMD ["python", "app.py"]

- ---> Running in 3da02f6a39dc
- ---> Removed intermediate container 3da02f6a39dc
- ---> ddf9a80ac2f8

Successfully built ddf9a80ac2f8

Successfully tagged flask-fix-test:latest

...

Run:

NOTE: I ran the necessary exports before running this command to securely use environment variables!

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ubuntu@ip-172-31-4-198:~/matrix-finalexam/docker\$ docker run -p 5001:5001 -e AWS_ACCESS_KEY_ID=\$AWS_ACCESS_KEY_ID -e AWS_SECRET_ACCESS_KEY=\$AWS_SECRET_ACCESS_KEY flask-fix-test

- * Serving Flask app 'app'
- * Debug mode: on

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

- * Running on all addresses (0.0.0.0)
- * Running on http://127.0.0.1:5001
- * Running on http://172.17.0.2:5001

Press CTRL+C to quit

- * Restarting with stat
- * Debugger is active!
- * Debugger PIN: 123-213-204

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Screenshots of fixed app running in browser:

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i-09f9a1a10d300acf8	running	t3.medium	98.84.42.110
i-07ed3ce2143261483	running	t3.medium	3.239.106.200
i-00d8aea4fc8da2958	running	t3.medium	44.220.251.124
i-075c9ac8688269d81	running	t3.medium	3.92.48.226
i-0998ef48512c2b6b9	running	t3.medium	44.211.124.5
i_03150d7625ae55708	running	t3 medium	34 228 210 170

VPCs

VPC ID	CIDR	
vpc-044604d0bfb707142	172.31.0.0/16	

Load Balancers

LB Name DNS Name

Available AMIs

AMI ID	Name
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ami-09538f653a1b556ed	daniel-ec2-image
ami-0565d81d4e11c58aa	guy-ec2-image