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Group 41 CPS847 Assignment 2

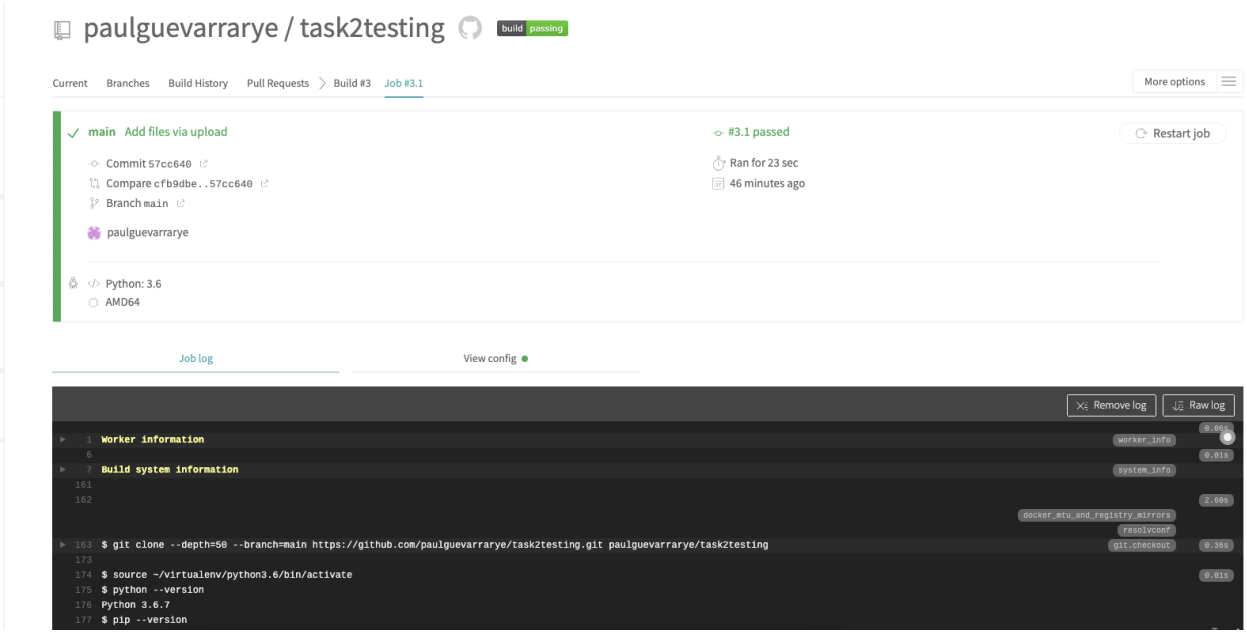
URL of github repository:
https://github.com/paulguevarrarye/CPS847_A2

URL of separate github repository for Task 2:
https://github.com/paulguevarrarye/task2testing

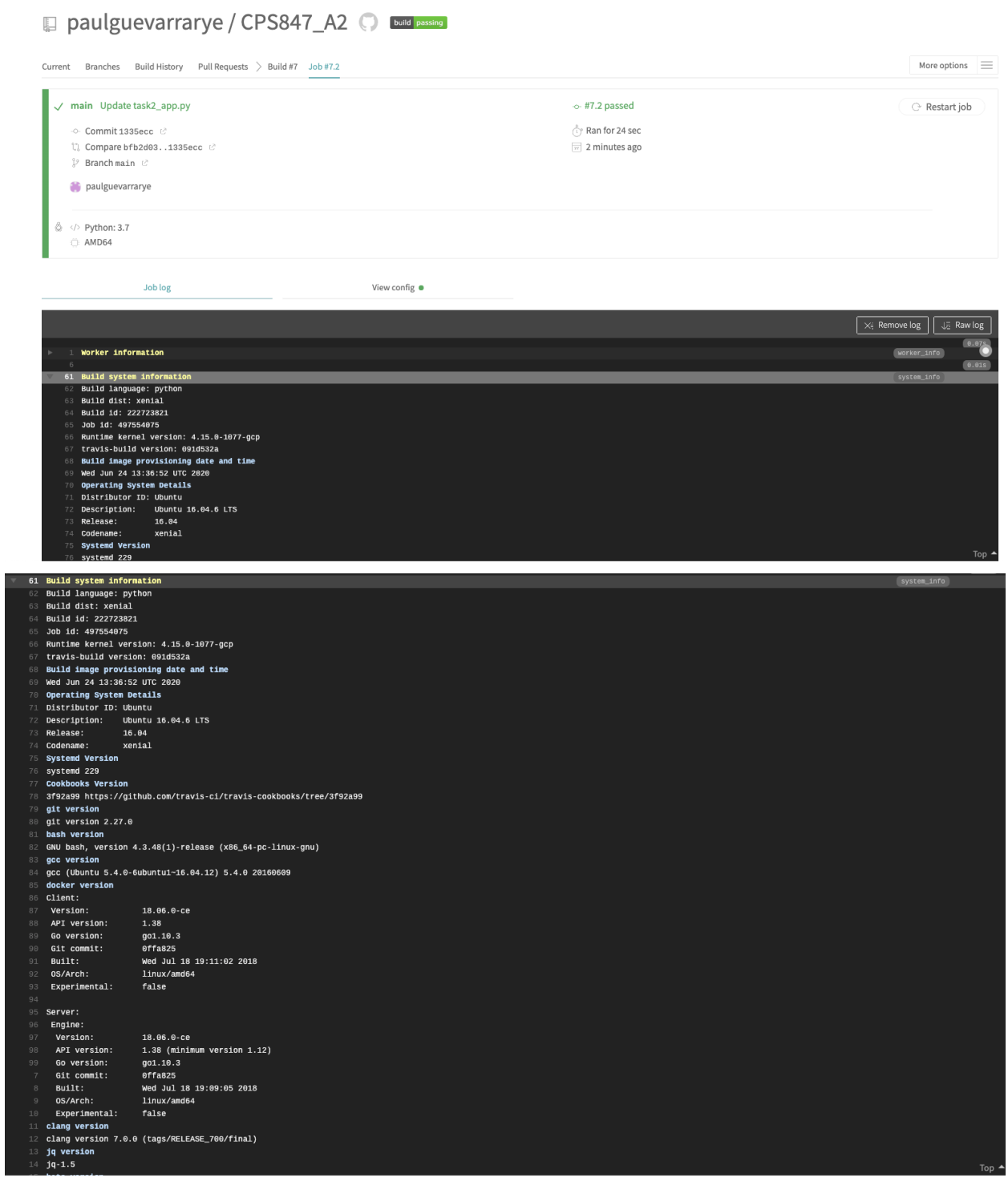
URL of separate github repository for Task 3 and 4:
https://github.com/ptovera/helloworld

(Select “Fit” in order to view all the pictures clearly)

a.) https://api.travis-ci.com/v3/job/497554075/log.txt
Testing with Python version 3.6



Testing with version Python 3.7



```
jq version
jq-1.5
bats version
Bats 0.4.0
shellcheck version
0.7.0
shfmt version
v2.6.3
ccache version
3.2.4
cmake version
cmake version 3.12.4
heroku version
heroku/7.42.1 linux-x64 node-v12.16.2
imagemagick version
Version: ImageMagick 6.8.9-9 Q16 x86_64 2019-11-12 http://www.imagemagick.org
md5deep version
4.4
mercurial version
version 4.8
mysql version
mysql  Ver 14.14 Distrib 5.7.30, for Linux (x86_64) using  EditLine wrapper
openssl version
OpenSSL 1.0.2g  1 Mar 2016
packer version
1.3.3
postgresql client version
psql (PostgreSQL) 10.13 (Ubuntu 10.13-1.pgdg16.04+1)
ragel version
Ragel State Machine Compiler version 6.8 Feb 2013
sudo version
1.8.16
gzip version
gzip 1.6
zip version
Zip 3.0
vim version
VIM - Vi IMproved 7.4 (2013 Aug 10, compiled Mar 18 2020 14:06:17)
iptables version
iptables v1.6.0
curl version
curl 7.47.0 (x86_64-pc-linux-gnu) libcurl/7.47.0 GnuTLS/3.4.10 zlib/1.2.8 libidn/1.32 librtmp/2.3
wget version
GNU Wget 1.17.1 built on linux-gnu.
rsync version
rsync  version 3.1.1  protocol version 31
gimme version
```

```
v1.5.4
mnvm version
0.35.3
perlbrew version
/home/travis/perl5/perlbrew/bin/perlbrew  - App::perlbrew/0.88
phpenv version
rbenv 1.1.2-30-gc879cb0
rvm version
rvm 1.29.10 (latest) by Michal Papis, Piotr Kuczynski, Wayne E. Seguin [https://rvm.io]
default ruby version
ruby 2.5.3p105 (2018-10-18 revision 65156) [x86_64-linux]
CouchDB version
couchdb 1.6.1
ElasticSearch version
5.5.0
Installed Firefox version
firefox 63.0.1
MongoDB version
MongoDB 4.0.19
PhantomJS version
2.1.1
Pre-installed PostgreSQL versions
9.4.26
9.5.22
9.6.18
Redis version
redis-server 6.0.5
Pre-installed Go versions
1.11.1
ant version
Apache Ant(TM) version 1.9.6 compiled on July 20 2018
mvn version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
gradle version
Gradle 5.1.1!
lein version
Leiningen 2.9.3 on Java 11.0.2 OpenJDK 64-Bit Server VM
Pre-installed Node.js versions
v10.21.0
v11.0.0
v12.18.1
v4.9.1
v6.17.1
v8.12.0
v8.17.0
v8.9
phpenv versions
```

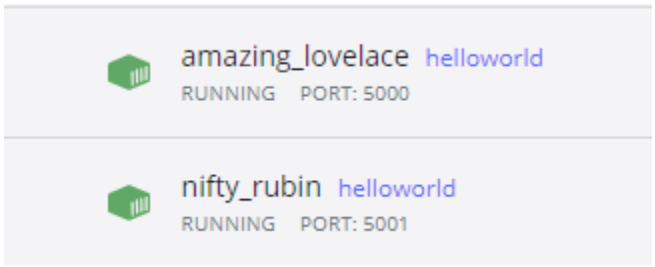
```
  system
  5.6
  5.6.40
  7.1
  7.1.27
  7.2
* 7.2.15 (set by /home/travis/.phpenv/version)
  hhvm
  hhvm-stable
composer --version
Composer version 1.8.4 2019-02-11 10:52:10
Pre-installed Ruby versions
ruby-2.3.8
ruby-2.4.5
ruby-2.5.3


                                                                        2.63s
                                      docker_mtu_and_registry_mirrors
                                                           resolvconf
$ git clone --depth=50 --branch=main https://github.com/paulguevarrarye/CPS847_A2.git paulguevarrarye/CPS847_A2    git.checkout   0.51s

$ source ~/virtualenv/python3.7/bin/activate                            0.01s
$ python --version
Python 3.7.1
$ pip --version
pip 20.1.1 from /home/travis/virtualenv/python3.7.1/lib/python3.7/site-packages/pip (python 3.7)
$ pip install -r requirement.txt                              install   3.17s
$ coverage run task2_unittest.py                                        0.34s
....application/json
.........
----------------------------------------------------------------------
Ran 13 tests in 0.019s

OK
The command "coverage run task2_unittest.py" exited with 0.

$ bash <(curl -s https://codecov.io/bash)                 after_success   2.92s

Done. Your build exited with 0.
```

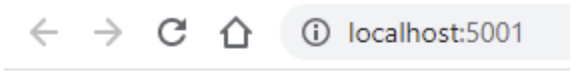

```
$ coverage run task2_unittest.py                                        0.34s
....application/json
.........
----------------------------------------------------------------------
Ran 13 tests in 0.019s

OK
The command "coverage run task2_unittest.py" exited with 0.

$ bash <(curl -s https://codecov.io/bash)                 after_success   2.92s

Done. Your build exited with 0.
```

b.) Logs that were generated when containerizing the application

```
(venv) C:\Users\pctov\PycharmProjects\cps844_a2>docker image build -t helloworld .
[+] Building 28.9s (9/9) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 32B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:3.6.1
 => [internal] load build context
 => => transferring context: 59.31MB
 => [1/4] FROM docker.io/library/python:3.6.1@sha256:98fb5342195e69ffda54a7584ed202be71154c7ef64931da5bec5a41739c78d5
 => CACHED [2/4] WORKDIR /docker-flask-test
 => [3/4] ADD . /docker-flask-test
 => [4/4] RUN pip install -r requirements.txt
 => exporting to image
 => => exporting layers
 => => writing image sha256:01c5754a269922070047ce3c85f728674c0b77d2057c52de3860c6d241e2c518
 => => naming to docker.io/library/helloworld
```

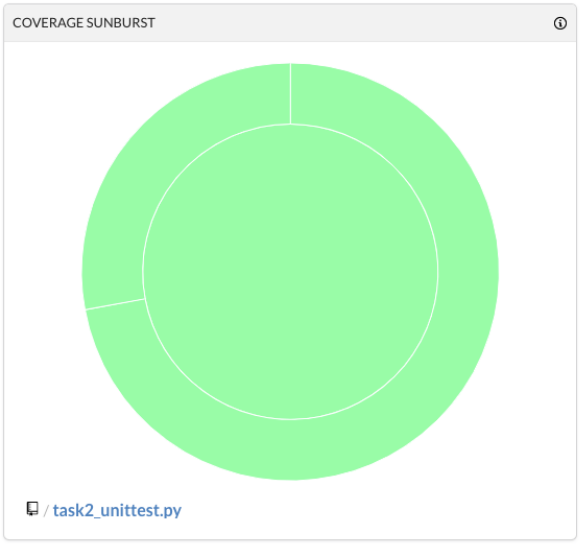
```
(venv) C:\Users\pctov\PycharmProjects\cps844_a2>docker run -p 5000:5000 -d helloworld
7c10f9d1feef9c582306d1fe2c708f3d743d1f715058e7ba64168d46570a0fc8

(venv) C:\Users\pctov\PycharmProjects\cps844_a2>docker run -p 5001:5000 -d helloworld
c41846603151912b7d2b8d68ed6c67586e275e1e3101966e0741363339c829dd
```

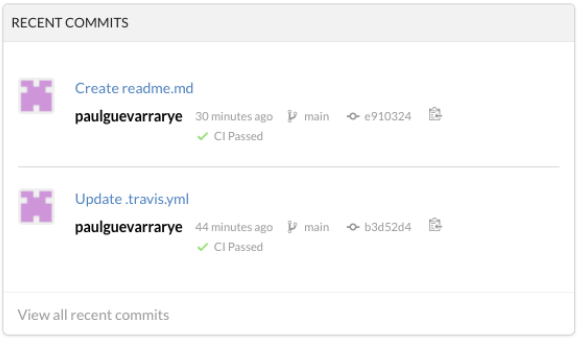




Hello World!

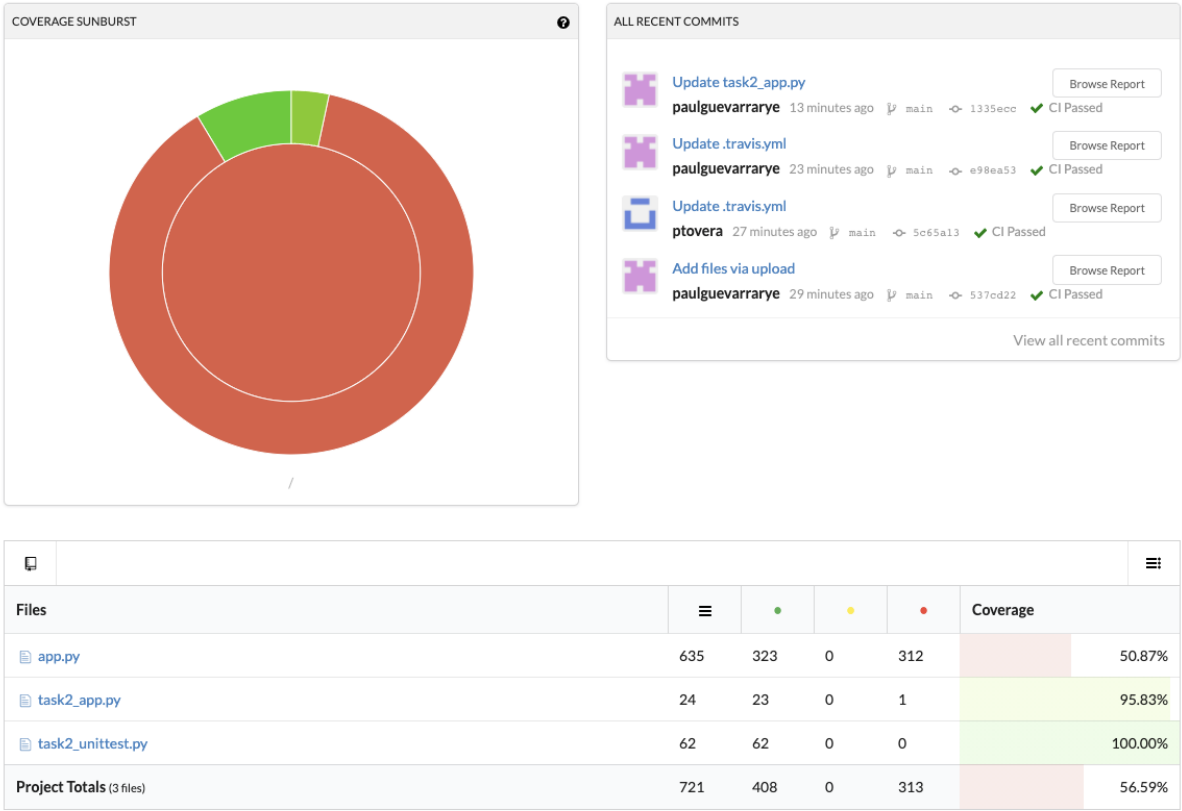
c.) Task 2 prior to files related to other questions added to the repository





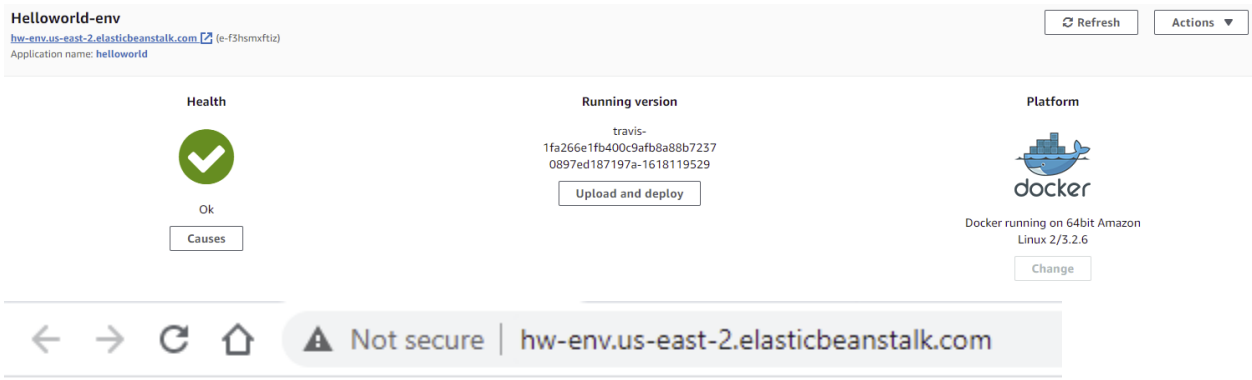
Files					Coverage
task2_app.py	24	23	0	1	95.83%
task2_unittest.py	62	62	0	0	100.00%
Project totals (2 files)	86	85	0	1	98.84%

On the current assignment repository

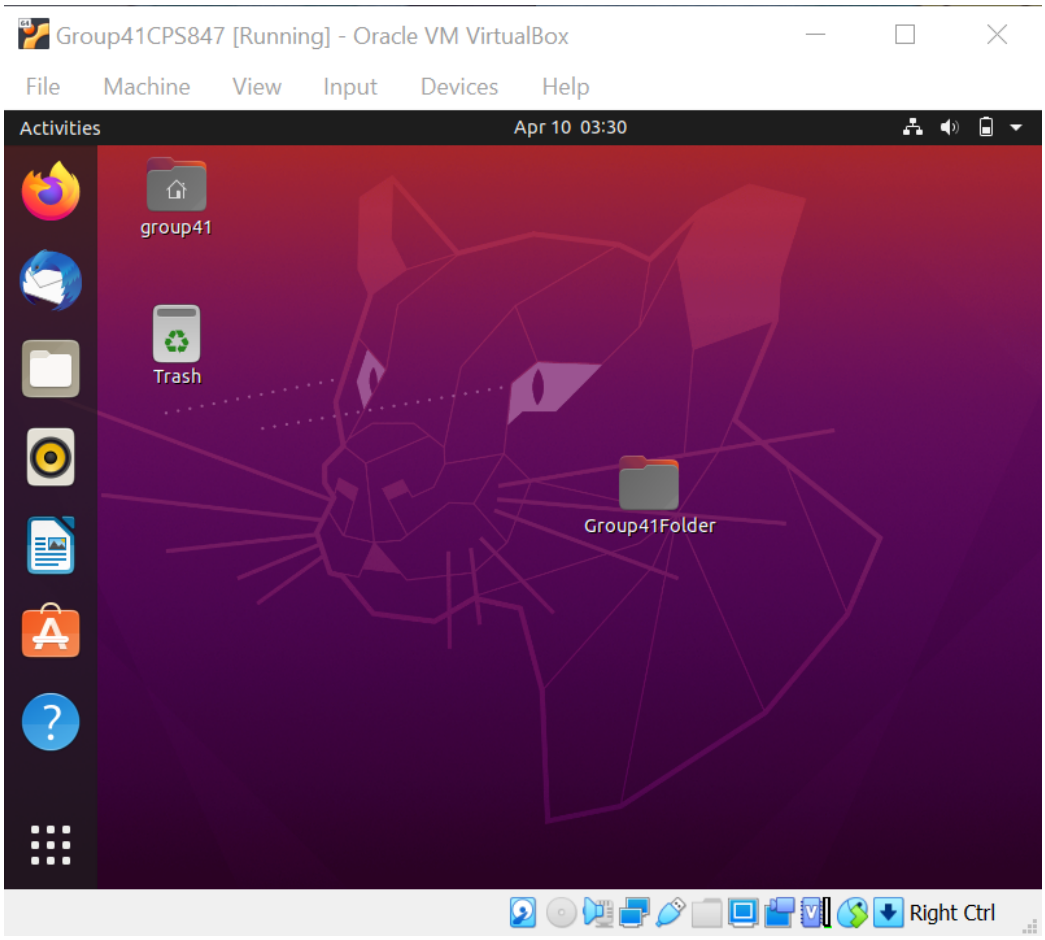


d.) Screenshot of index.html on AWS EB along with the URL box of the browser

```
Successfully built 7743e704e5a7
Successfully tagged [secure]/helloworld01:latest
The command "docker image build -t [secure]/helloworld01 ." exited with 0.

$ echo "$DOCKER_PASSWORD" | docker login -u "$DOCKER_ID" --password-stdin      after_success.1  0.48s
$ docker push [secure]/helloworld01                                            after_success.2  7.85s
$ rvm $(travis_internal_ruby) --fuzzy do ruby -S gem install dpl               dpl_0            1.23s
                                                                                                10.28s

Installing deploy dependencies                                                 dpl.1
Preparing deploy                                                               dpl.2
Deploying application                                                          dpl.3
No stash entries found.

Done. Your build exited with 0.
```



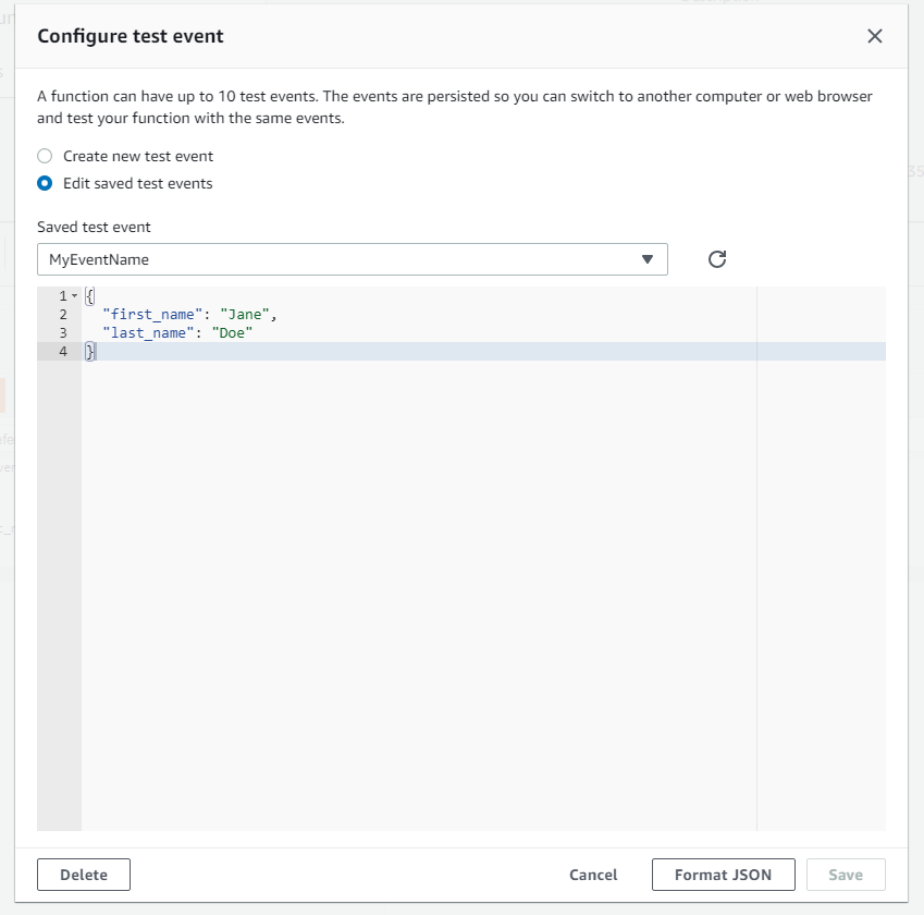
e.) Ubuntu desktop within host machine



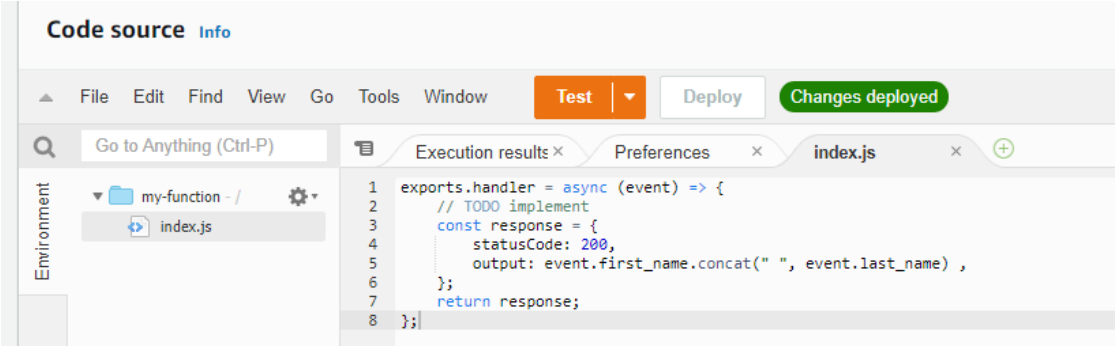
f.) Lambda Function

We used javascript as our primary language for the Lambda function. Our lambda function takes in the data from the json test file and outputs the values within first_name and last_name concatenated .

1. Login to Amazon Website Service website.
2. Go to AWS Lambda category
3. Create Function with your desired name
4. Configure test event and fill in json file



5. Modify your index.js



6. Deploy your function and press test.
7. Your outcome should look as follow :