

Allen You 500833035
Paul Guevarra 500833529
Patricia Tovera 500830503
Hyebin Yoon 500846651
Joonho Myung 500845049

Group 41 CPS847 Assignment 2

URL of github repository:

https://github.com/paulguevarrarraye/CPS847_A2

URL of separate github repository for Task 2:

<https://github.com/paulguevarrarraye/task2testing>

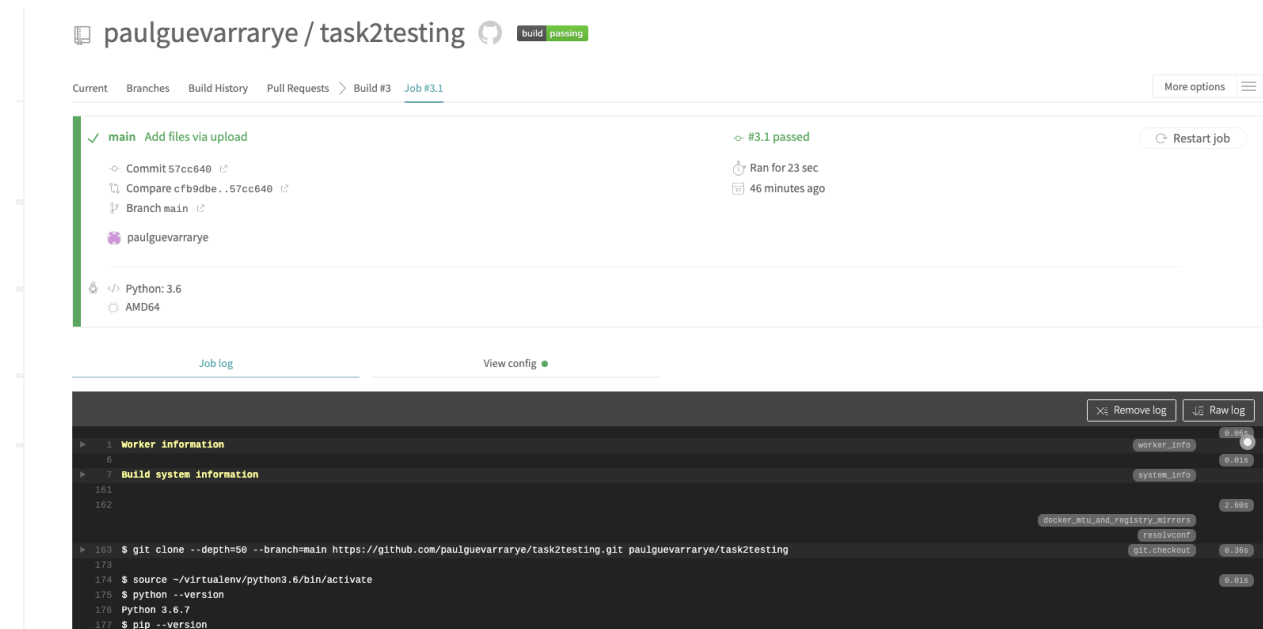
URL of separate github repository for Task 3 and 4:

<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



The screenshot displays the Travis CI interface for the repository `paulguevarrarraye / task2testing`. The build status is `passing`. The job log is visible, showing the following steps and commands:

- Worker information**: Shows the worker ID and the build system information.
- Build system information**: Shows the Docker image and registry mirrors used for the build.
- Commands**:
 - `git clone --depth=50 --branch=main https://github.com/paulguevarrarraye/task2testing.git paulguevarrarraye/task2testing`
 - `source ~/.virtualenv/python3.6/bin/activate`
 - `python --version` (Output: Python 3.6.7)
 - `pip --version`

Testing with version Python 3.7

paulguevarraye / CPS847_A2 

Current Branches Build History Pull Requests > Build #7 Job #7.2

More options 

✓ main Update task2_app.py

✓ #7.2 passed

Restart job

Commit 1335ecc 
Compare bfb2d03...1335ecc 
Branch main 

Ran for 24 sec
2 minutes ago

paulguevarraye

Python: 3.7
AMD64

Job log

View config 

×

Remove log

Raw log

```
1 Worker information
6
61 Build system information
62 Build language: python
63 Build dist: xenial
64 Build id: 222723821
65 Job id: 497554075
66 Runtime kernel version: 4.15.0-1077-gcp
67 travis-build version: 091d532a
68 Build image provisioning date and time
69 Wed Jun 24 13:36:52 UTC 2020
70 Operating System Details
71 Distributor ID: Ubuntu
72 Description: Ubuntu 16.04.6 LTS
73 Release: 16.04
74 Codename: xenial
75 Systemd Version
76 systemd 229
```

worker_info 0.02s

system_info 0.01s

Top

system_info

```
61 Build system information
62 Build language: python
63 Build dist: xenial
64 Build id: 222723821
65 Job id: 497554075
66 Runtime kernel version: 4.15.0-1077-gcp
67 travis-build version: 091d532a
68 Build image provisioning date and time
69 Wed Jun 24 13:36:52 UTC 2020
70 Operating System Details
71 Distributor ID: Ubuntu
72 Description: Ubuntu 16.04.6 LTS
73 Release: 16.04
74 Codename: xenial
75 Systemd Version
76 systemd 229
77 Cookbooks Version
78 3f92a99 https://github.com/travis-ci/travis-cookbooks/tree/3f92a99
79 git version
80 git version 2.27.0
81 bash version
82 GNU bash, version 4.3.48(1)-release (x86_64-pc-linux-gnu)
83 gcc version
84 gcc (Ubuntu 5.4.0-6ubuntu1-16.04.12) 5.4.0 20160609
85 docker version
86 Client:
87 Version: 18.06.0-ce
88 API version: 1.38
89 Go version: go1.10.3
90 Git commit: 0ffa825
91 Built: Wed Jul 18 19:11:02 2018
92 OS/Arch: linux/amd64
93 Experimental: false
94
95 Server:
96 Engine:
97 Version: 18.06.0-ce
98 API version: 1.38 (minimum version 1.12)
99 Go version: go1.10.3
7 Git commit: 0ffa825
8 Built: Wed Jul 18 19:09:05 2018
9 OS/Arch: linux/amd64
10 Experimental: false
11 clang version
12 clang version 7.0.0 (tags/RELEASE_700/final)
13 jq version
14 jq-1.5
```

Top

```
13 jq version
14 jq-1.5
15 bats version
16 Bats 0.4.0
17 shellcheck version
18 0.7.0
19 shfmt version
20 v2.6.3
21 ccache version
22 3.2.4
23 cmake version
24 cmake version 3.12.4
25 heroku version
26 heroku/7.42.1 linux-x64 node-v12.16.2
27 imagemagick version
28 Version: ImageMagick 6.8.9-9 Q16 x86_64 2019-11-12 http://www.imagemagick.org
29 md5deep version
30 4.4
31 mercurial version
32 version 4.8
33 mysql version
34 mysql Ver 14.14 Distrib 5.7.30, for Linux (x86_64) using EditLine wrapper
35 openssl version
36 OpenSSL 1.0.2g 1 Mar 2016
37 packer version
38 1.3.3
39 postgresql client version
40 psql (PostgreSQL) 10.13 (Ubuntu 10.13-1.pgdg16.04+1)
41 ragel version
42 Ragel State Machine Compiler version 6.8 Feb 2013
43 sudo version
44 1.8.16
45 gzip version
46 gzip 1.6
47 zip version
48 Zip 3.0
49 vim version
50 VIM - Vi IMproved 7.4 (2013 Aug 10, compiled Mar 18 2020 14:06:17)
51 iptables version
52 iptables v1.6.0
53 curl version
54 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
55 wget version
56 GNU Wget 1.17.1 built on linux-gnu.
57 rsync version
58 rsync version 3.1.1 protocol version 31
59 git version
```

```

98 vi.5.4
99 mvn version
100 0.35.3
101 perlbrew version
102 /home/travis/perl5/perlbrew/bin/perlbrew - App::perlbrew/0.88
103 phpenv version
104 rbenv 1.1.2-30-gc879cb0
105 rvm version
106 rvm 1.29.10 (latest) by Michal Papis, Piotr Kuczynski, Wayne E. Seguin [https://rvm.io]
107 default ruby version
108 ruby 2.5.3p105 (2018-10-18 revision 65156) [x86_64-linux]
109 CouchDB version
110 couchdb 1.6.1
111 Elasticsearch version
112 5.5.0
113 Installed Firefox version
114 firefox 63.0.1
115 MongoDB version
116 MongoDB 4.0.19
117 PhantomJS version
118 2.1.1
119 Pre-installed PostgreSQL versions
120 9.4.26
121 9.5.22
122 9.6.18
123 Redis version
124 redis-server 6.0.5
125 Pre-installed Go versions
126 1.11.1
127 ant version
128 Apache Ant(TM) version 1.9.6 compiled on July 20 2018
129 mvn version
130 Apache Maven 3.6.3 (cecedd3430e2696d0abb50b32b541b8a6ba2883f)
131 gradle version
132 Gradle 5.1.1
133 lein version
134 Leiningen 2.9.3 on Java 11.0.2 OpenJDK 64-Bit Server VM
135 Pre-installed Node.js versions
136 v10.21.0
137 v11.0.0
138 v12.18.1
139 v4.9.1
140 v6.17.1
141 v8.12.0
142 v8.17.0
143 v8.9
144 phpenv versions

```

Ton

```

146 system
147 5.6
148 5.6.40
149 7.1
150 7.1.27
151 7.2
152 * 7.2.15 (set by /home/travis/.phpenv/version)
153 hhvm
154 hhvm-stable
155 composer --version
156 Composer version 1.8.4 2019-02-11 10:52:10
157 Pre-installed Ruby versions
158 ruby-2.3.8
159 ruby-2.4.5
160 ruby-2.5.3
161
162
163 $ git clone --depth=50 --branch=main https://github.com/paulguevarrye/CP5847_A2.git paulguevarrye/CP5847_A2
164
165 $ source ~/virtualenv/python3.7/bin/activate
166 $ python --version
167 Python 3.7.1
168 $ pip --version
169 pip 20.1.1 from /home/travis/virtualenv/python3.7.1/lib/python3.7/site-packages/pip (python 3.7)
170 $ pip install -r requirement.txt
171
172 $ coverage run task2_unittest.py
173 ....application/json
174 .....
175 .....
176 Ran 13 tests in 0.019s
177
178 OK
179 The command "coverage run task2_unittest.py" exited with 0.
180
181 $ bash <(curl -s https://codecov.io/bash)
182
183 Done. Your build exited with 0.
184
185 $ coverage run task2_unittest.py
186 ....application/json
187 .....
188 .....
189 Ran 13 tests in 0.019s
190
191 OK
192 The command "coverage run task2_unittest.py" exited with 0.
193
194 $ bash <(curl -s https://codecov.io/bash)
195
196 Done. Your build exited with 0.

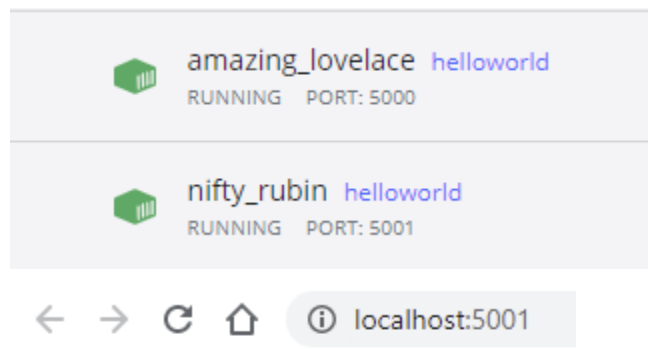
```

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
```

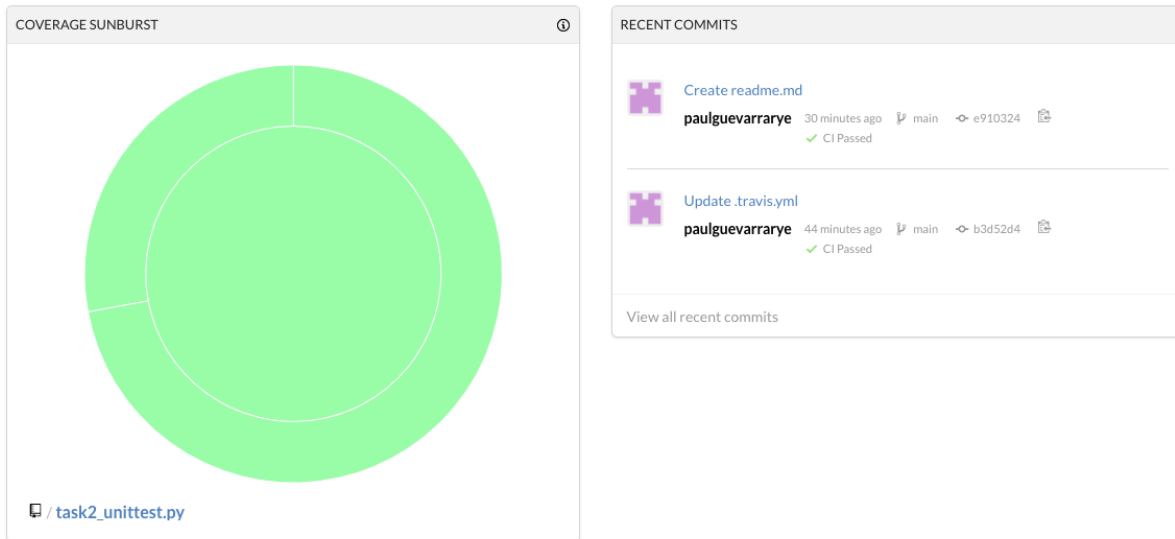
```
(venv) C:\Users\pctov\PycharmProjects\cps844_a2>docker run -p 5000:5000 -d helloworld  
7c10f9d1feef9c582306d1fe2c708f3d743d1f715058e7ba64168d46570a0fc8
```

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



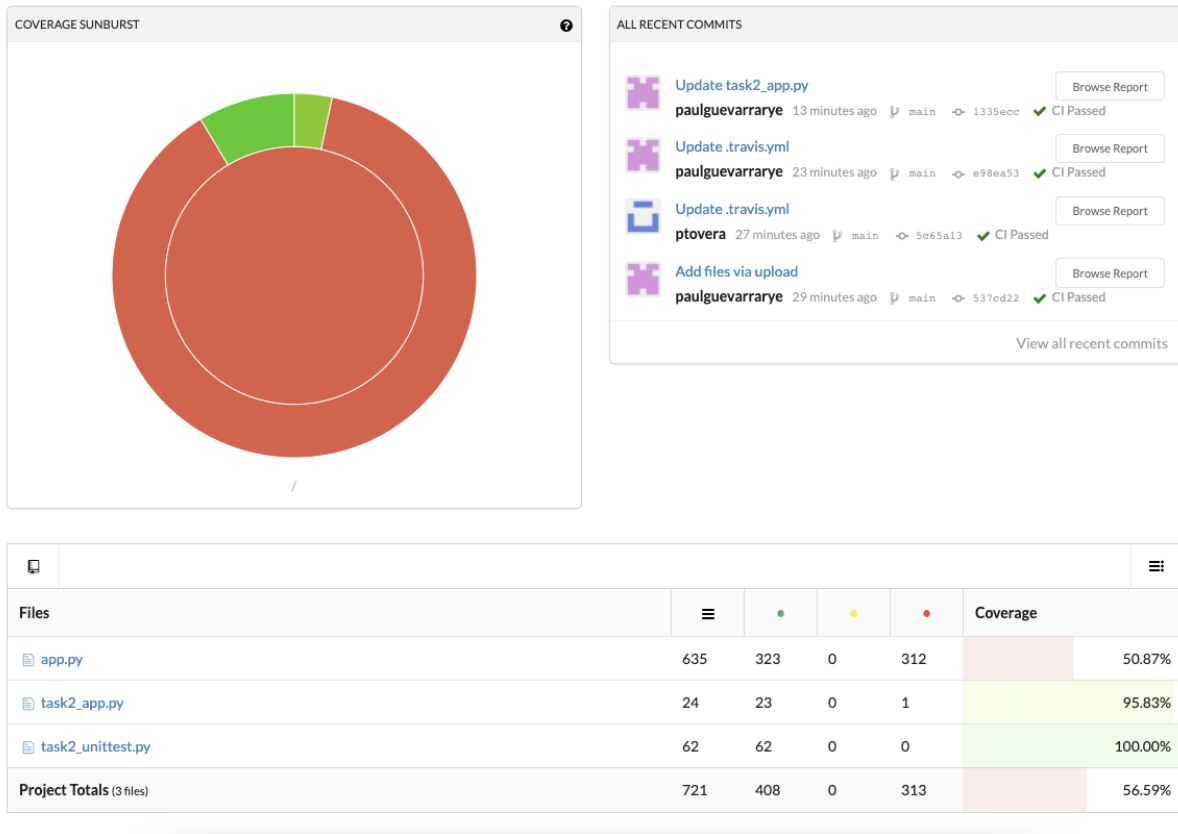
Hello World!

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
$ docker push [secure]/helloworld01
$ rvm $(travis_internal_ruby) --fuzzy do ruby -S gem install dpl

Installing deploy dependencies
Preparing deploy
Deploying application
No stash entries found.

Done. Your build exited with 0.
```

Helloworld-env


hw-env.us-east-2.elasticbeanstalk.com (e-f3hsmvftiz)

Application name: **helloworld**

Refresh

Actions

Health



Ok


Causes

Running version

travis-
1fa266e1fb400c9afb8a88b7237
0897ed187197a-1618119529

Upload and deploy

Platform



Docker running on 64bit Amazon
Linux 2/3.2.6

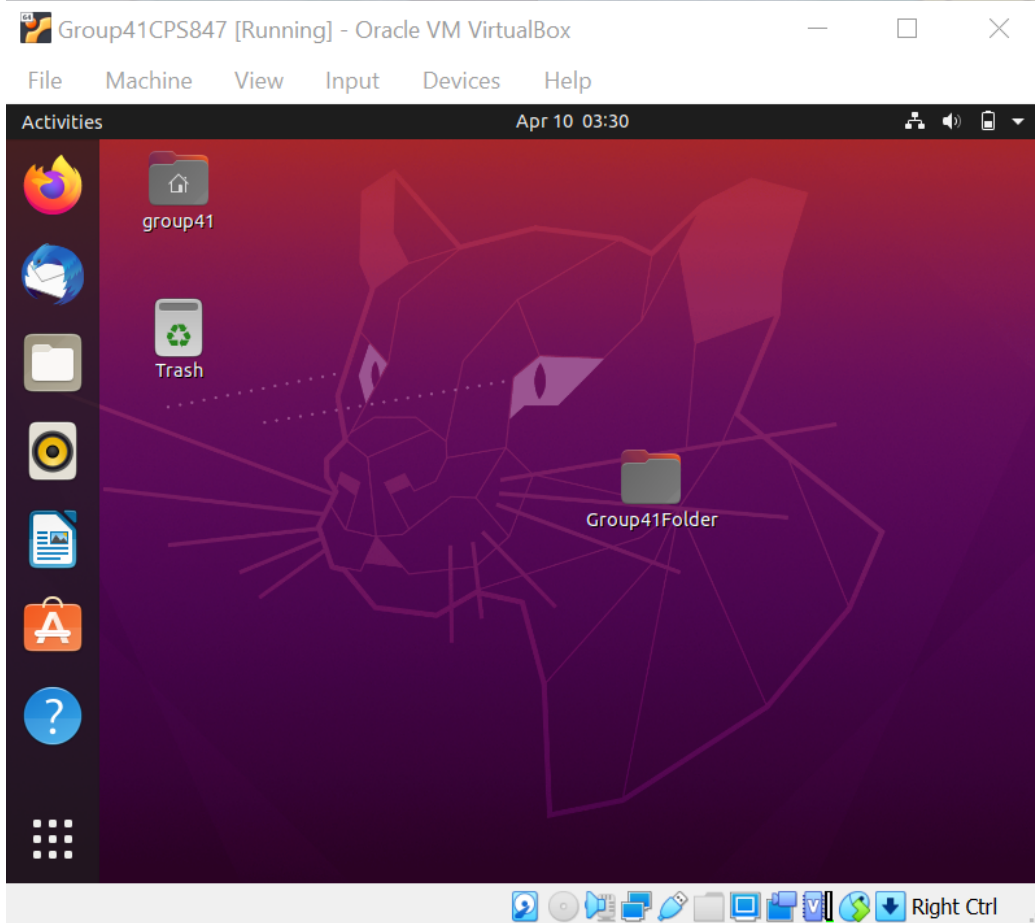
Change

← → ↻ ↗

Not secure | hw-env.us-east-2.elasticbeanstalk.com

Hello World!

e.) Ubuntu desktop within host machine

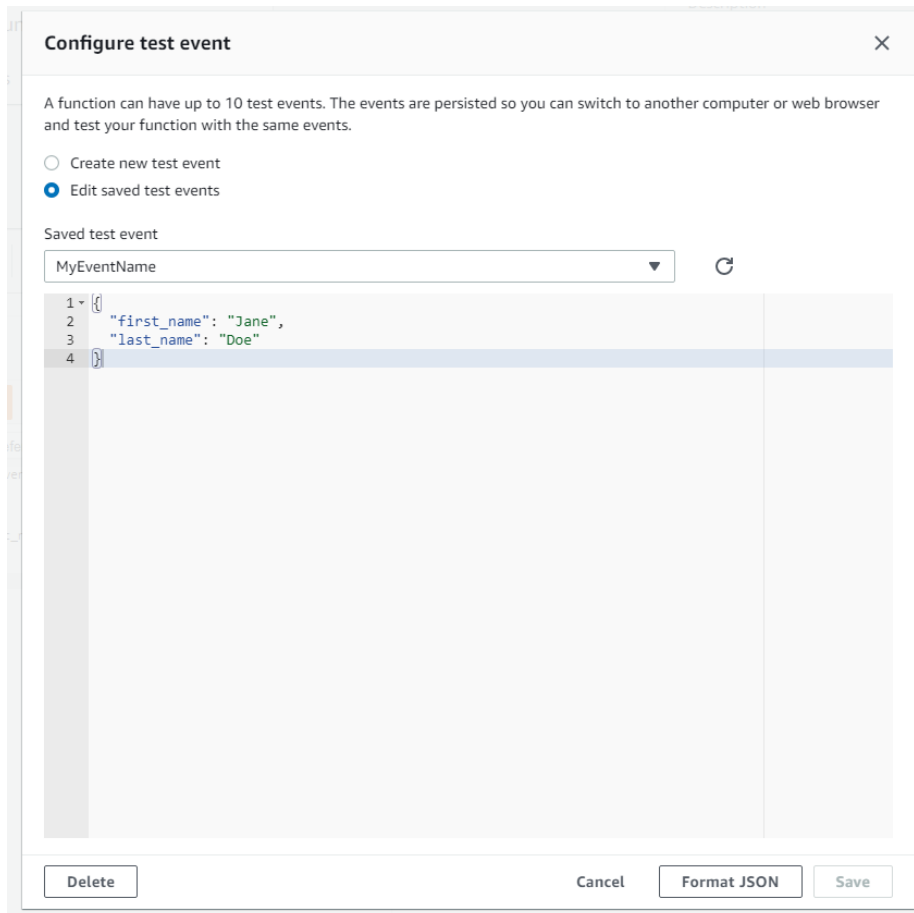


The image shows a screenshot of an Oracle VM VirtualBox window titled "Group41CPS847 [Running] - Oracle VM VirtualBox". The window contains an Ubuntu desktop environment. The desktop has a dark purple background with a stylized animal head. On the desktop, there is a folder named "group41", a "Trash" icon, and a folder named "Group41Folder". The left sidebar shows the "Activities" panel with various application icons. The top status bar indicates the date and time as "Apr 10 03:30". The bottom panel shows system icons and a "Right Ctrl" button.

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 :

The screenshot displays a web-based interface for managing a cloud function. At the top, there's a 'Code source' section with an 'Info' link. Below this is a menu bar with 'File', 'Edit', 'Find', 'View', 'Go', 'Tools', and 'Window'. To the right of the menu are 'Test' and 'Deploy' buttons, with a green 'Changes deployed' badge next to 'Deploy'. A search bar labeled 'Go to Anything (Ctrl-P)' is positioned below the menu. On the left side, an 'Environment' panel shows a tree view with 'my-function - /' and 'index.js'. The main area is titled 'Execution results' and shows a 'Status: Succeeded' badge. It contains a 'Response' section with a JSON object:

```
{  "statusCode": 200,  "output": "Jane Doe"}
```

. Below this is a 'Function Logs' section with the following text:

```
START RequestId: 9ba3534e-368d-4fd0-9623-5e145aa4fe21 Version: $LATEST
END RequestId: 9ba3534e-368d-4fd0-9623-5e145aa4fe21
REPORT RequestId: 9ba3534e-368d-4fd0-9623-5e145aa4fe21  Duration: 3.58 ms   Billed Duration: 4 ms   Memory Size: 128 MB Max Memory Used: 65 MB   Init Duration: 131.15 ms
```

. At the bottom, a 'Request ID' section shows the ID: `9ba3534e-368d-4fd0-9623-5e145aa4fe21`.