Server project: documentation

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# Aim of the project

* set up a server
* find a database
* write python script to read from database to file
* profit?

# Create the droplet

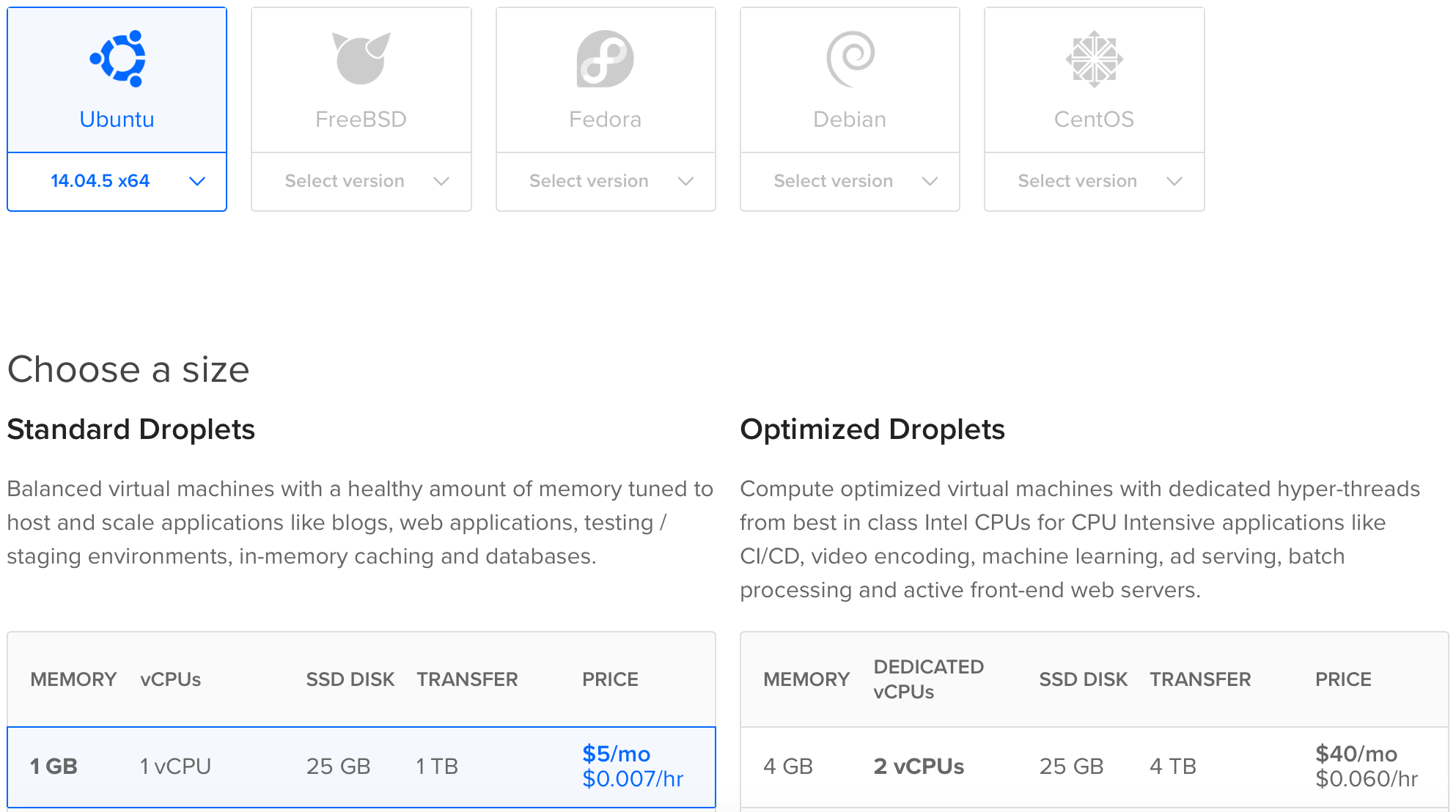
Prior

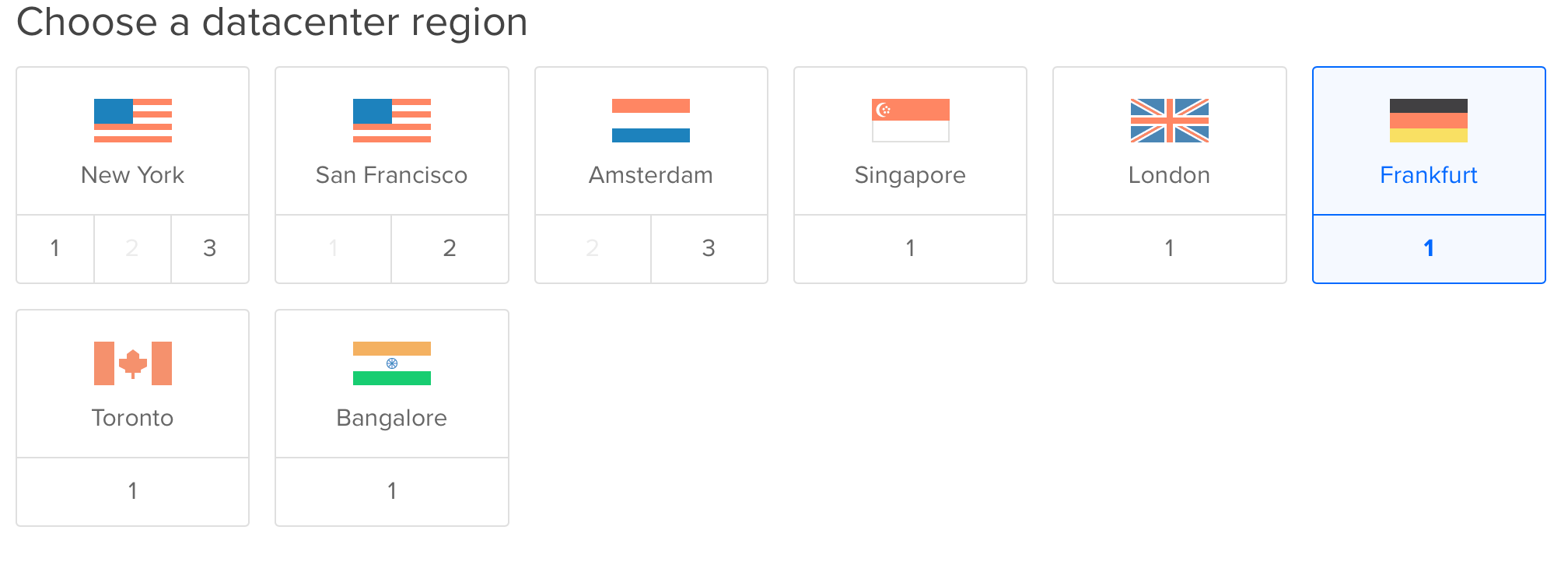
* Make Github account, apply for education pack and look up code for DigitalOcean
* Make DigitalOcean account
* Insert the Github code in your DigitalOcean profile (‘Settings’ > ‘Billing’) to receive $50 credit.

Tutorials used

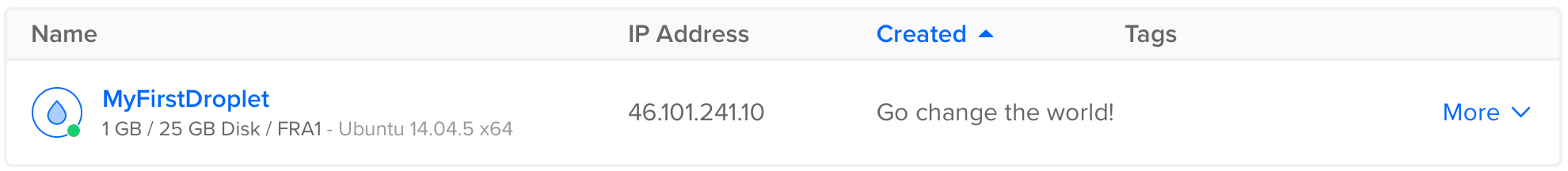
* <https://www.digitalocean.com/community/tutorials/how-to-create-your-first-digitalocean-droplet>
* <https://www.digitalocean.com/community/tutorials/how-to-use-ssh-keys-with-digitalocean-droplets>
* <https://www.digitalocean.com/community/tutorials/initial-server-setup-with-ubuntu-16-04>

Screenshots of settings





# The result

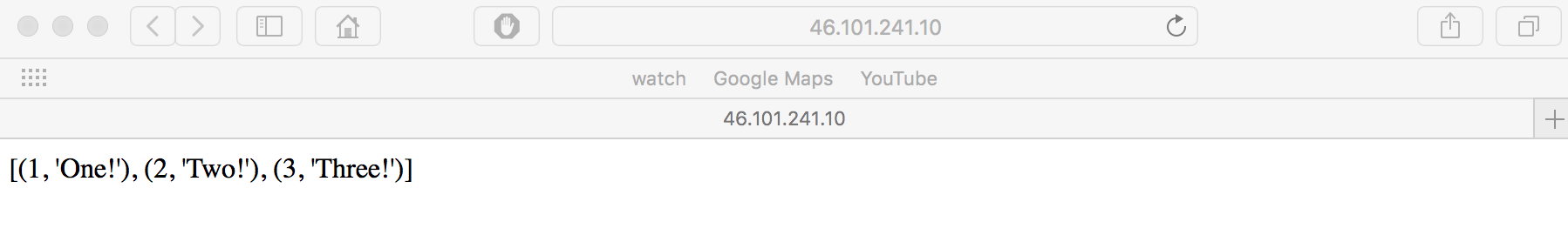


# apache, mysql, python

Tutorials used

* <https://www.digitalocean.com/community/tutorials/how-to-install-python-3-and-set-up-a-local-programming-environment-on-ubuntu-16-04>
* <https://www.digitalocean.com/community/tutorials/how-to-set-up-an-apache-mysql-and-python-lamp-server-without-frameworks-on-ubuntu-14-04>
  + Skip step 1
  + In step 5, *#!/usr/bin/python* should be replaced by *#!/usr/bin/python3* (first line of the python script)

Screenshot

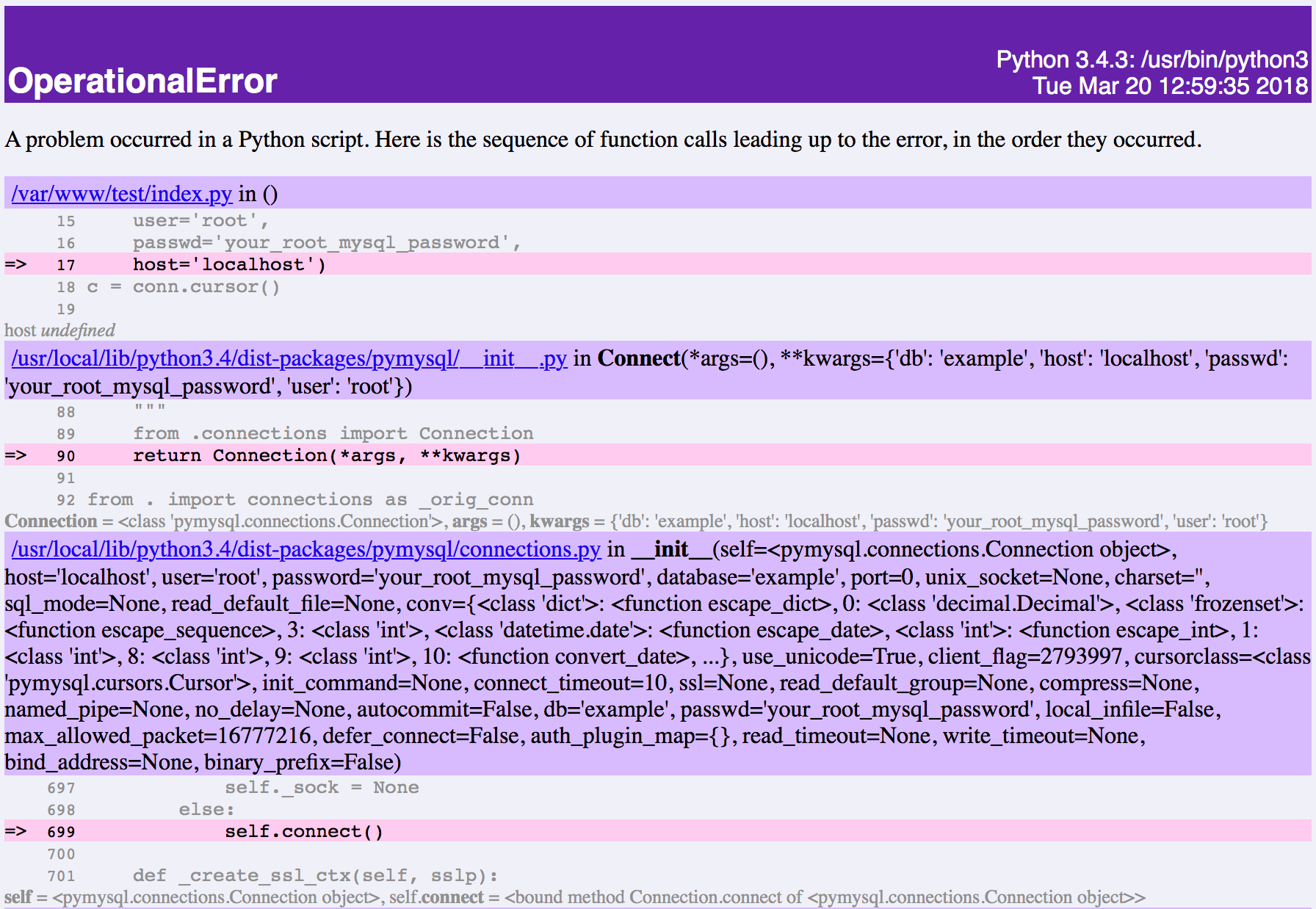


# Database set-up

general info:

<https://www.digitalocean.com/community/tutorials/how-to-create-and-manage-databases-in-mysql-and-mariadb-on-a-cloud-server>

# Winner of “most beautiful error” competition



# To Do

These are the next steps we came up with for this project. Please share updates regularly: if everyone does something similar (e.g. uses the same tutorials or scripts), we can easier solve problems:

* understand the tutorials we followed in the beginning (see above)
* read through Mao’s tutorial: <https://www.digitalocean.com/community/tutorials/how-to-create-a-table-in-mysql-and-mariadb-on-an-ubuntu-cloud-server>
* make a python file that inputs data into a mysql database (e.g. try to input a row [1 2 3]) (\*)
* show a data table in a nice way
* figure out how to read data from an online database using python (\*)
* both (\*) together make the reading and writing of the data to the server
* add a “Download” button to the visual representation that lets you download an csv

understand mysql

set up server to have tables ready and add button to download

write python file

crone demon

understand mysql

need to download an csv file, add button

to type sql commands directly through terminal (open mysql first)

# possible Future projects

Compare our retrieved price data with predicted prices by a model