How to install Facelock on Ubuntu

1. Source Code:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Amazon Ubuntu Instance Setup \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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1. cd /Users/zeboxiong/Desktop/AWS
2. ssh -i "facelock\_zebo.pem" ubuntu@ec2-18-222-110-11.us-east-2.compute.amazonaws.com
3. sudo apt install python2 /\*\* install python2 &3 \*\*/
4. sudo apt install python3
5. Which python2.7 🡪 /usr/bin/python2.7 /\*\* install pip2 & 3 \*\*/
6. wget <https://bootstrap.pypa.io/get-pip.py>
7. sudo python2.7 get-pip.py
8. sudo apt-get update /\*\* update \*\*/
9. sudo apt-get -y install python3-pip
10. sudo pip2 install cmake /\*\* install CMake \*\*/
11. sudo pip2 install dlib
12. Follow this link: <https://www.learnopencv.com/install-dlib-on-ubuntu/>
13. sudo pip2 install dlib
14. pip2 install Django
15. “sudo pip2 install cmake” (Action: install cmake)
16. Run “pip2 install face\_recognition”
17. Run “pip2 install opencv-python” (Action: Install openCv)
18. Run “sudo pip2 install --upgrade google-api-python-client” (Action: to configure google vision api)
19. Run “sudo pip2 install --upgrade google-cloud”
20. Run “sudo pip2 install --upgrade google-cloud-vision”
21. Run “sudo pip2 install **scipy**” (Action: Install scipy)
22. Run “**pip2 install PyHamcrest**”
23. Run “sudo pip2 install argparse”
24. From Local Mac Computer:

scp -i facelock\_zebo.pem facelock\_2.0.zip ubuntu@ec2-3-14-247-124.us-east-2.compute.amazonaws.com:facelock\_2.0.zip

scp -i facelock\_zebo.pem key.json [ubuntu@ec2-18-188-224-213.us-east-2.compute.amazonaws.com:key.json](mailto:ubuntu@ec2-18-188-224-213.us-east-2.compute.amazonaws.com:key.json)

1. sudo apt-get install unzip /\*\* install unzip software \*\*/
2. sudo apt-get install **lxde** -y /\*\* install GUI \*\*/
3. sudo apt-get install xRDP -y /\*\* remote (BUT it is for Windows) \*\*/
4. sudo systemctl enable xrdp /\*\* \*\*/
5. sudo apt-get install vinagre /\*\* 遠程操作client \*\*/
6. sudo apt-get install ubuntu-desktop /\*\*製作界面\*\*/
8. sudo apt install x11vnc
9. x11vnc -storepasswd /\*\* 設置密碼 \*\*/
10. x11vnc -usepw
12. [Solution](https://www.edyoda.com/watch/DE287FF9E60B105231FD5B6C067443176CE995B17B707DA151/) (Host Django on Amazon Ubuntu)
13. cd facelock\_2.0/facelock/facelock2/facelockproj/
14. python2 manage.py runserver 172.31.6.236:8787 Here is the Private IP

<http://18.188.224.213>:8787/ 🡪 connect using Public IP

2. Error one: “Invalid HTTP\_HOST header: **'3.14.247.124**:8000'. You may need to add u'3.14.247.124' to ALLOWED\_HOSTS.” 🡪 [Solution](https://stackoverflow.com/questions/40582423/invalid-http-host-header)
3. Update settings.py 🡪 update “Allowed Host”



1. 
2. <http://172.31.6.236:8000/> 🡪 Open the browser
3. set 🡪 check environment variable in Linux
4. echo "$HOME" 🡪 Check variable HOME ‘s value /\*\* 設置環境變量 \*\*/

export GOOGLE\_APPLICATION\_CREDENTIALS=/home/ubuntu/key.json

1. echo “$GOOGLE\_APPLICATION\_CREDENTIALS” 🡪 打印變量
2. You have to setup Google API billing to activate your key!!!

How to install Facelock on Windows

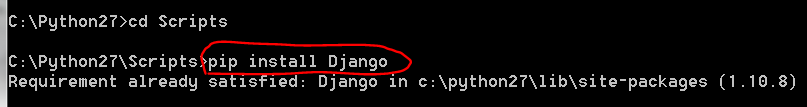
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1. Install Dlib Python API on Windows PC <https://www.youtube.com/watch?v=Q4_M8YTAPDg>

* Follow EVERY step in this video.

1. Install Python 2 (Such as Python 2.7.15 <https://www.python.org/downloads/release/python-2715/> )
2. Run this command: “pip install Django”



1. Run “pip install cmake” (Action: install cmake)
2. Run “pip install face\_recognition”
3. Run “sudo pip2 install opencv-python” (Action: Install openCv)

1. Run “pip install --upgrade google-api-python-client” (Action: to configure google vision api)

Rnu “pip install --upgrade google-cloud”

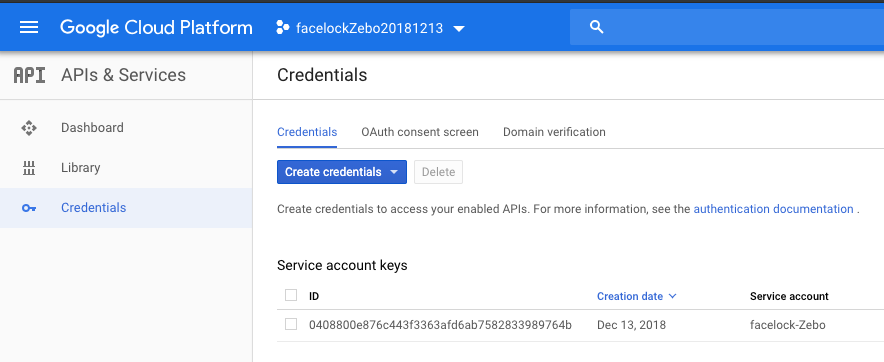
Run “pip install --upgrade google-cloud-vision”

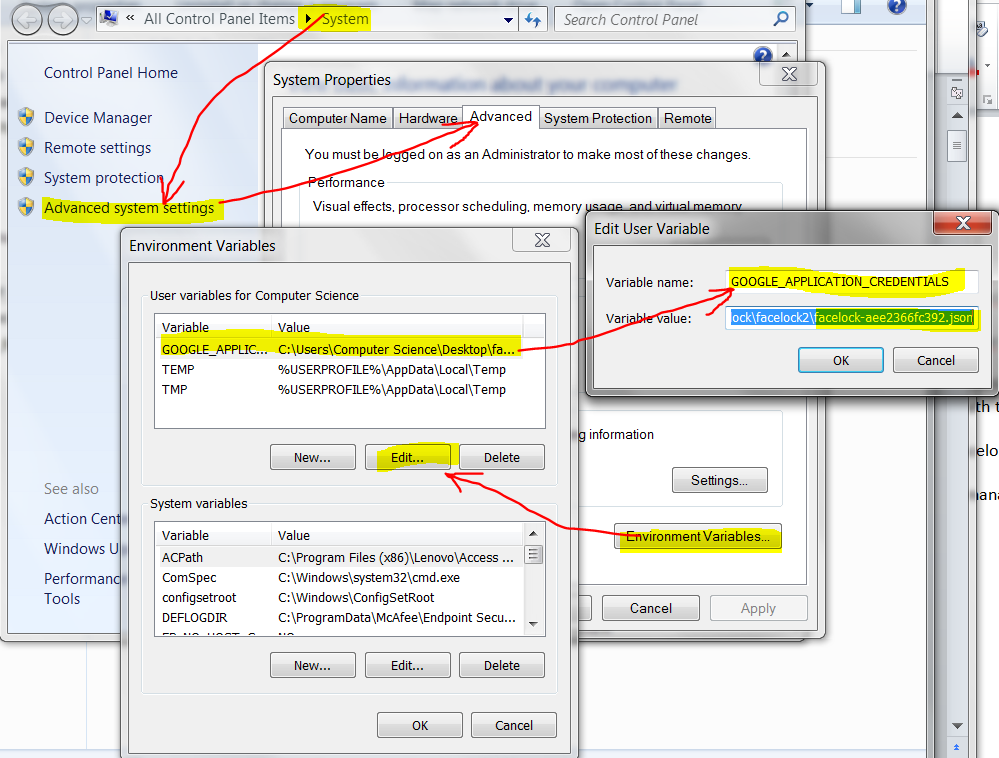
1. Run “pip install **scipy**” (Action: Install scipy)

1. Run “**pip install PyHamcrest**”

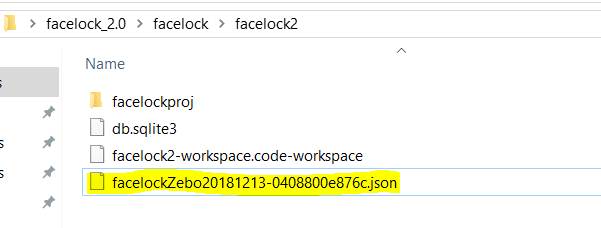
1. Run “pip install argparse”
2. Attention: above command must run at path: **C:\Python27\Scripts** (Not necessary Python27, but must be in Python **2** ), and using “**Anaconda Prompt**”
3. Add PATH (Google Cloud API)

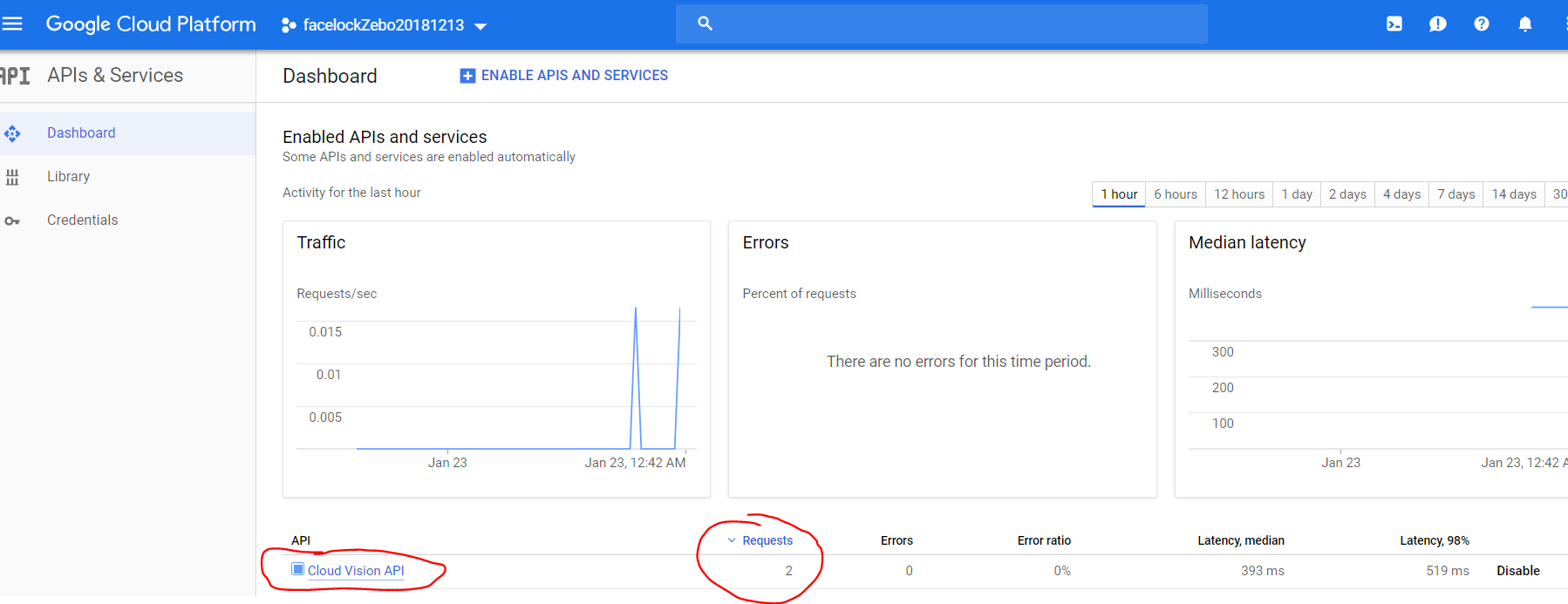
* GOOGLE\_APPLICATION\_CREDENTIALS
* facelock-aee2366fc392.json file

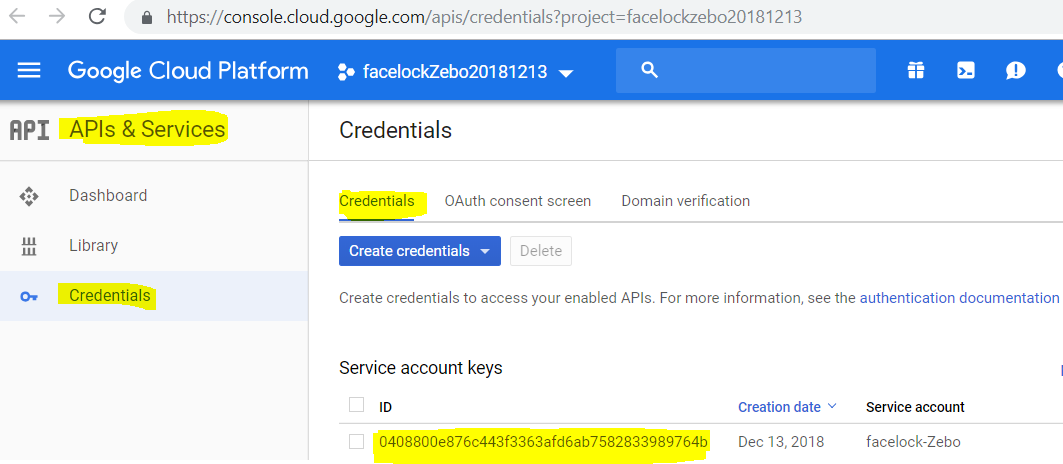


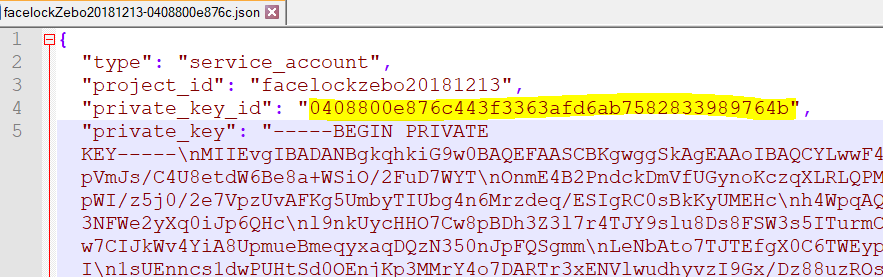


1. Keep below JSON file updated via Google Cloud Account.

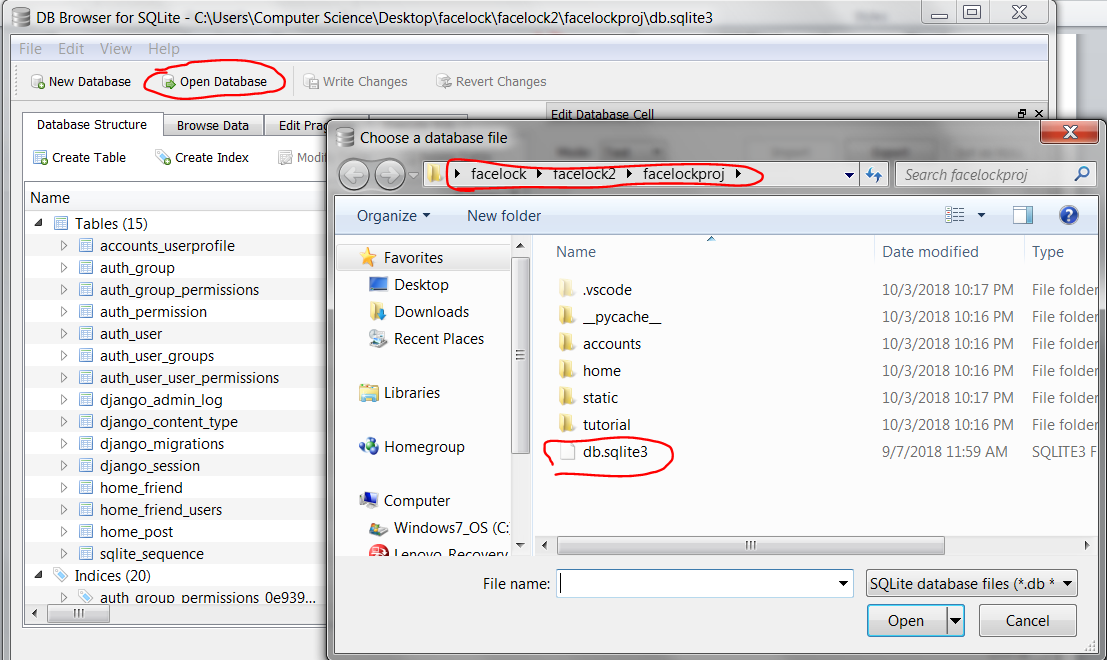




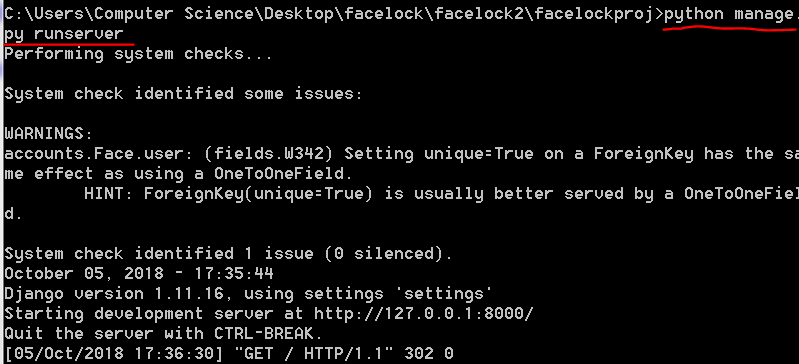




1. Install “DB Browser for SQLite” <https://sqlitebrowser.org/>



1. Run “python manage.py runserver”



1. Open webpage: <http://127.0.0.1:8000/> and login as:

* Donald Trump: Username: donald | Password: donalddonald
* MelaniaTrump: Username: melania | Password: melaniamelania
* Barack Hussein Obama: Username: obama | Password: obamaobama
* Michelle Obama: Username: michelle | Password: michellemichelle
* Hillary Clinton: Username: hillary | Password: hillaryhillary