Server Credentials

Server Username: visage

Server Password: v!sage@123

Server Ip: 192.168.0.23

Anydesk Id: 396624792

Anydesk Password: v!sage@123

Install OpenSSH Server

Steps to install Python, Apache and MQTT in ubuntu server

1. Install python 3.6.8

1. lzma should be installed before python installation

1. sudo apt-get install liblzma-dev

2. sudo apt-get install lzma

2. sudo apt-get update

3. sudo apt-get upgrade

4. Install build essentials

1. sudo apt-get install -y make build-essential libssl-dev zlib1g-dev \

libbz2-dev libreadline-dev libsqlite3-dev wget curl llvm \

libncurses5-dev libncursesw5-dev xz-utils tk-dev

5. sudo wget https://www.python.org/ftp/python/3.6.8/Python-3.6.8.tgz ////Download link python 3.6.8

6. sudo tar xvf Python-3.6.8.tgz ////Unzip tar file

7. cd Python-3.6.8

8. sudo ./configure --enable-optimizations

9. sudo ./configure --enable-optimizations --with-ensurepip=install

10. sudo make

11. sudo make altinstall

Django API hosting using Apache and Ubuntu

1. In the linux server we need a non-root user with sudo privileges configured

2. Install python3.6.8

3. Run the following commands in the terminal

1. sudo apt-get update

2. sudo apt-get install python3-pip apache2 libapache2-mod-wsgi-py3

3. sudo apt-get install libpq-dev

4. Create a folder in /home/visage/facedetection

5. Delete existing env folder

6. Create virtual environment in the folder

1. sudo python3.6 -m venv env

7. Set read write permission for the folder

1. sudo chmod -R 777 env

8. Activate environment

1. source env/bin/activate

9. Install all requirement files

1. pip install -r requirements.txt

MQTT Installation

1. Link for the installation. Follow the link

https://medium.com/@eranda/setting-up-authentication-on-mosquitto-mqtt-broker-de5df2e29afc

https://www.youtube.com/watch?v=IenXQvOcj54

1. sudo mosquitto\_passwd -c /etc/mosquitto/passwd 'user'

2. sudo nano /etc/mosquitto/mosquitto.conf

3. Add folowwing two entries in thw file

1. password\_file /etc/mosquitto/passwd

2. allow\_anonymous false

4. mosquitto -c /etc/mosquitto/mosquitto.conf

5. Command to start mosquitto connection

sudo service mosquitto start

6. Command to stop mosquitto connection

sudo service mosquitto stop

10. Please give full permission for the document root(face\_detection\_dev or face\_detection\_qa) using the

following command

1. sudo chmod -R 777 directory\_name

11. Now configure the Apache. To configure the WSGI pass, we’ll need to edit the default virtual host

file. Using any editor open the configuration file.

1. sudo nano /etc/apache2/sites-available/000-default.conf

12. We can keep the directives that are already present in the file. We just need to add some additional

items.

13. Add the following in the configuration file. The path used should be the actual path here. That is

/home/sammy should be replaced with the proper values. Replace all the path specified in the

configuration with actual path. Please refer the virtual host created for dev environment

<VirtualHost \*:80>

. . .

<Directory /home/sammy/face\_detection/face\_detection>

<Files wsgi.py>

Require all granted

</Files>

</Directory>

WSGIDaemonProcess face\_detection python-home=/home/sammy/face\_detection/facedetectionenv

python-path=/home/sammy/face\_detection

WSGIProcessGroup face\_detection

WSGIScriptAlias / /home/sammy/face\_detection/face\_detection/wsgi.py

</VirtualHost>

Please visit the following link for reference

https://www.digitalocean.com/community/tutorials/how-to-serve-django-applications-with-apache-and-mod\_wsgi-on-ubuntu-16-04

14. Add the required ports in /etc/apache2/ports.conf which is used in the virtual host.

15. Save and close the file and restart the apache server using the following command

1. sudo systemctl restart apache2

16. sudo apache2ctl configtest to test any syntax error in virtual host configuration

Reference:-

<http://blog.dscpl.com.au/2012/10/requests-running-in-wrong-django.html>

17. Please make ensure that the python version in apache and virtual environment is same.

18. Set the path in the default.conf and ports.conf file. For example:

1. sudo nano /etc/apache2/sites-available/000-default.conf

2. sudo nano /etc/apache2/ports.conf

Examples:

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<VirtualHost \*:8090>

ServerAdmin sijoy.co@naicoits.com

DocumentRoot /home/visage/visage/facedetection/facedetection\_dev/face\_detection

ErrorLog /home/visage/visage/facedetection/facedetection\_dev/error.log

CustomLog ${APACHE\_LOG\_DIR}/access.log combined

<Directory /home/visage/visage/facedetection/facedetection\_dev/face\_detection/face\_detection>

<Files wsgi.py>

Require all granted

</Files>

</Directory>

WSGIDaemonProcess facedetection\_dev python-home=/home/visage/visage/facedetection/facedetection\_dev/env python-path=/home/visage/visage/facedetection/facedetec>

WSGIProcessGroup facedetection\_dev

WSGIScriptAlias / /home/visage/visage/facedetection/facedetection\_dev/face\_detection/face\_detection/wsgi.py

WSGIPassAuthorization On

</VirtualHost>

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Listen 80

Listen 8090

Listen 8091

Listen 8092

Listen 8093

<IfModule ssl\_module>

Listen 443

</IfModule>

<IfModule mod\_gnutls.c>

Listen 443

</IfModule>

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