

Multi Person Face Recognition Docker Inferencing Guide

STEP 1) Pull python image

```
docker pull python:3.8-slim-buster
```

STEP 2) Start the docker container

```
docker run --rm -v
```

```
/path/to/Multi_Person_Face_Recognition:/workspace -it  
-p8000:5000 python:3.8-slim-buster
```

STEP 3) Move inside workspace to access project files

```
cd Multi_Person_Face_Recognition/
```

STEP 4) Upgrade pip

```
pip3 install --upgrade pip
```

STEP 5) Install additional libraries to work on videos

```
sudo apt update -y && sudo apt install ffmpeg libsm6 libxext6 -y
```

STEP 6) Install additional libraries for dlib and face_recognition

```
sudo apt install cmake libboost-all-dev -y
```

```
sudo apt install build-essential -y
```

STEP 7) Install project required libraries

```
pip3 install -r requirements.txt
```

STEP 8) Install Gmail APIs for sending email alerts

```
pip3 install --upgrade google-api-python-client
```

```
google-auth-http2 google-auth-oauthlib
```

STEP 9) For generating embeddings

```
python src/dlib_face_embeddings.py
```

STEP 10) Run the project

```
python -m flask --app src/app.py run --host=0.0.0.0
```