

1 of 2 4/21/20, 5:31 PM

```
export GCP_PROJECT_ID=<your project id>
Finally to run:
  yarn start
```

Backend Setup Guide

We tested the backend with both python3.7 and python3.6. For this setup, use the default Python3.6 that ships with Ubuntu18.04.

- Launch a new EC2 instance by choosing Ubuntu Server 18.04 LTS (HVM), SSD Volume Type ami-0fc20dd1da406780b (64-bit x86).
- Configure your security group so that SSH, HTTP (PORT 80) and HTTPS (PORT 443) are allowed.
- 2. SSH into the newly launched EC2 instance and update the system:
- > sudo apt update; sudo apt -y upgrade;
- 3. Copy backend folder into the EC2 instance (rsync or git clone) and run the following commands inside the directory (enter yes to all prompts):
- poppler-utils is required for a Python module used for converting PDFs to JPEGs.

```
sudo apt install -y gcc
sudo apt install -y python3-pip
sudo apt install -y poppler-utils
pip3 install --upgrade pip
pip3 install wheel
pip3 install -r requirements.txt
export FLASK_APP=app.py
export FLASK_ENV=production
```

4. Run the backend:

```
sudo python3 -m flask run --host=0.0.0.0 --port=<target port> > ~/log &
```

Google Dialogflow requires that the backend uses HTTP over TLS. You can either configure your EC2 instance to forward all HTTP requests to HTTPS after running the backend app on port 80 or directly run the python app on port 443. As a work around, you may also run ngrok which can forward all external traffic to our EC2 instance over HTTP/TLS

5. Make sure that "Webhook" fullfillment url on Dialogflow console is pointing to the url of this backend (please refer to the platform documentation).

2 of 2 4/21/20, 5:31 PM