

REST API and Flask Guide

Step 0: Preliminaries

Mount EBS volume and start Hadoop and PostgreSQL Database:

```
mount -t ext4 /dev/xvdf /data  
  
/root/start-hadoop.sh  
  
sudo -u postgres pg_ctl -D /data/pgsql_project2/data -l /data/pgsql_project2/logs/pgsql.log start
```

Step 1: Setting up environment for API

Set up Project folder and create virtual environment:

```
su - w205  
  
mkdir project_api  
  
cd project_api/  
  
virtualenv api  
  
source api/bin/activate
```

Install the requirements into the environment:

```
pip install -r requirements.txt  
  
[The file contains:  
  
flask  
  
flask-restful  
  
sqlalchemy  
  
psycpg2  
  
requests  
  
]
```

Step 2: Start the REST API Serving Script

```
python api_building_app.py
```

Step 3: Configure Flask Application

Replace the XX-XX part with your EC2 instance hostname in Script Flask App.py under

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And Run

Python Falsk App

Step 4: Launch Web Application in browser

Type in below address in the web browser:

`http://localhost:5000/`

You can now type in Keywords to search on-time data!

Welcome to the OnTime Data Center!

[Home](#)

Please input Airport Code

GO

Please input Manufacturer Name

GO

Please input Airline Code

GO

Please input Airport for Weather

GO

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