Instructions of Establishing the System

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Abstract

This is instruction for how to deploy our product in a new instance.

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1. Introduction

The purpose of this report is to lead users to deploy our final product in new system. Please follow the sections step by step. We are pleasure to take questions via email.

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The following table presents the lists of directories in our project with their functions. Please ensure there are not files lost.

Directory Name	Function Description
Basic Install	This is used to deploy the environment for our system
TweetsFetching	This includes tweets fetching program
WeatherFetching	This includes weather fetching program
Integration Program	This includes our integration program
Website	This includes our website
Supervisor	This includes supervisor files
Sentiment Analysis	This includes sentiment analysis program
Correlation Analysis Program	This includes correlation analysis program
Final product introduction video	This is a video to display our final product

2. Basic Install

- ***First,*** please make sure the system is running and the SSH service can be used.
- ***Second,*** going into the "basic install/ansible" changed the "ansible_hosts" with your IP address and key path
- ***Third,*** using below command in terminal to run the ansible
  $ansible-playbook –i ansible_hosts playbook.kml

- ***Fourth,*** created the DBs in your couch DB. Please put the file "creation_couchdb.py" in the "Basic Install/CouchDBcreation" into your system. Used below command to run:
  $ python creation_couchdb.py
  Then, all the DBs and corresponding views will be created.

- ***Fifth,*** Installed the open CV.
  - Put all the files in "/Basic Install/opencv" in your system
  - Using below command to run the shell file
    $chmod +X install_opencv.sh
    $./install_opencv.sh

3. Running Tweets Fetching Programs

- Created a directory named "tweetgetter" in your system
- Put all the files in the "TweetsFetching" directory into "tweetgetter"
- Put all the files in "/Supervisor/shell" into "tweetgetter"
- Follow the instruction PDF provided in the "Supervisor" directory to run the program

4. Running Weather Fetching Programs

- Put all files in the “WeatherFetching” directory into your system
- Use below commands to run the programs:

  $nohup python weather_8city_db.py

  $nohup python weather_melbourne_hourly.py

5. Running Integration Programs

- Make sure the DBs and View already be created
- Put all the files in “Integration Program” into your system
- Use following commend to run the program

  $nohup python cities_summary.py

  $nohup python melbourne_suburb_summary.py

6. Deploy the website

- Make sure the security group has been set in Nectar Cloud
- Go to the “WebSite/website page/share” then open “ip.js” and changed your couch DB’s IP address and Port there. Don’t use 127.0.0.1 to instead.
- Put all files in the ”WebSite/website page” into “/var/www/html” in your systems – or defined your directory yourself
- Put all files in the “WebSite/interaction” into your system
- Use following command to start interaction function

  $chmod +X php_python_new.py

  $nohup python php_python_new.py

According to 2 – 6 steps the website can be run successfully in your system! For other folders provided by us, there are corresponding readme.txt, which is used to introduce their function and instruction of how to use them.

Notice!! Our Website’ Display Video can be Seen at:
https://youtu.be/jzTMADmY4tY