

CS 4287

Professor Gokhale

Team 10

Zhitao Shu, Duke Jiang

Teamwork:

For the local VM1, Shu setup that on his local machine using VirtualBox running Ubuntu. Jiang created a github repo and Shu pulled the producer file from the repo and ran that on his local VM1.

Jiang setup VM3 on the Chameleon cloud and Shu setup VM2. Jiang setup Kafka server on VM3 using this tutorial:

<https://tecadmin.net/install-apache-kafka-ubuntu/>

and Shu did the same with VM2.

Jiang then setup couchdb on VM3 using this tutorial:

<https://linuxize.com/post/how-to-install-couchdb-on-ubuntu-18-04/>

And Shu did the same with VM2

We worked on the consumer.py file together and Shu later solved the “no broker” issue by 1.modifying security group on the Chameleon cloud. 2.turnning off the firewall on VM2 and VM3.

Jiang then created a database on couchdb called “test” using this tutorial:

https://www.tutorialspoint.com/couchdb/couchdb_creating_a_database.htm

We then started producer, turned on Kafka server on VM2 and VM3, and ran producer.py and consumer.py. We were able to receive data from VM1, process and parse into JSON format on VM2, and saved that data onto VM3's database

Teamwork distribution: Shu 50%, Jiang 50%