

CSC3331

Assignment#5 –Message brokers

100 points

In this assignment, you are to deploy Kafka broker and use it to stream log entries.

1. Explain in your own words the function of Kafka message broker (Not Kafka stream processor).
2. Provide a 1 page Table comparison of Kafka broker with other message brokers and pub/sub systems. Careful attention should be given to comparison criteria.
3. Installation Kafka broker and give relevant configuration parameters with screen snapshots. The screenshots should show the date, time of the day, and machine name where the tool was installed. Show that it works by creating a topic and using it through the command line producer/consumer provided with Kafka.
4. Write a Python/Java producer and Consumer for streaming and reading Nginx access log files.
5. **Bonus (extra 10pts).** Redo Q4 for consumer groups in Fanout and Load balancing and show outcome.