Project: Twitter Stream Collector and Reporting System (TWCR)

GIT:

TW_Collector: https://github.com/afigueroa14/tw_collector.git
TW_REST: https://github.com/afigueroa14/tw_rest.git

Summary

The TWCR System is designed base on distributed architecture (Figure 1). There are two applications that compose the TWCR system. The first application (Twitter Collector) collects the Twitter Data, and second application (Twitter Rest) allows the user to query for the information. Both applications are connected using the Apache Ignite, which allows data to pass between different nodes on the Application Cluster. The Twitter Collector uses the SPARK Big Data Engine to manage the high volume of Twitter Stream.

Application Architecture

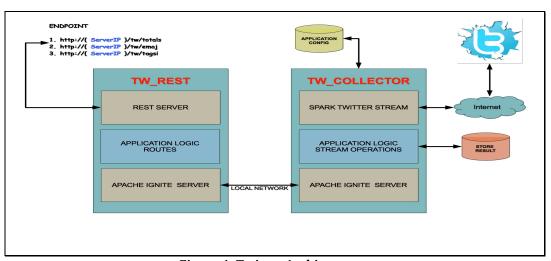


Figure 1. Twitter Architecture

TW-REST EndPoints that allows the user accesses the Information.

Requirements	Rest EndPoint - For Full Request	Condition
Version	http://{ ServerIP }/tw/version	
Total Number of Tweets Received	http://{ ServerIP }/tw/totals	
Average Tweets per	http://{ ServerIP }/tw/totals	
hour/minute/second		
Top emojis in Tweets	http://{ ServerIP }/tw/emoji	?maxvalue=###
Percent of Tweets that Contains	http://{ ServerIP }/tw/totals	
Emojis		
Top HashTags	http://{ ServerIP }/tw/hashtags	?maxvalue=###
Percent of Tweets that Contain a url	http://{ ServerIP }/tw/totals	
Percent of Tweets that contain a	http://{ ServerIP }/tw/photo	?maxvalue=###
photo url		
Top Domains of Url in Tweets	http://{ ServerIP }/tw/domaintop	?maxvalue=###
URL on Tweets	http://{ ServerIP }/tw/urltop	?maxvalue=###