

The figure above depicts the use of kafka to implement Linked In user profile experience. The mormal operations possible here are login, update profile information, add silcill set, add new job, etc.

> We create 2 topice here for

Example.

1) Events topic

This will service all the requests for profile updates or operations. As shown in figure there are separate partitions for weeks, which a sends see different requests from earne user to the same partition.

This topic is basically for event logging and ingesting data into Hadoop for analytics.

As shown in the figure as soon as user sends a request by performing an action, it goes to the measest server first which them creates can event and adde into Kafka.

> The events gets processed in

events topic. In each server there is a publisher which publishes events & there is consumer which takes responses. If All the log data, these consumer sends to Alerts topic where there can be another consumer to take those log and add into HDFS for analytics.

> Since kafka in Scalable, this design is highly scalable

Twitter streaming Elastie seanch -> As shown in the figure the twittes streaming API will be used to fetch the oceal time flask web app to download tweets using twoites streaming > This Flask App will keep adding tweets into katka as events. Katka will then publish to a topic which a consumor no on a server will keep consuming and ingest the data into HDFS.

streaming will run, i.e.

stake input in batches, for

example every I minute

ox I hour depending on

the loud of data incoming

extract the hart-tage, and

do the analytic

> Finally the tweets will be stored in elostic search.

> links = # PPP of (url, reighbors)
This will contain all the
uxls and its meighbors
i.e. A, C = A > C

> ranks = # R DD of Curl, rank)
This will contain the rank
of each url.

> Turl, Elinks, vank J= pair settern [(dest, vank/lenllinks)) for dest in links]

> On each iteration, have page P send a contribution of rank (P) / num-of-neighbors(P) to its reighbors.

> Contribse links. join (ranks). flat Map Comput-contrib

-> ranks = contribs. reduceBykey Clambda x, y: x+y) maplables Clambda x:0.15+0.85 vanks. Some As Text File (...) > Set each page's rank to 0.15 + 0.85 x Contributions peceived -> Then save the result in text file. The RPP generated ranks = (url, rank).