# Architechture Diagram Stream Processing

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**demon to check if stream node is running** → Is running?
- Yes → Do nothing
- No → Trigger Streaming Node

**Streaming Node** → Open a Stream Socket → is Success
- No → retry (back to Open a Stream Socket)
- Yes → is this the first time?
  - Yes → Create the payload and start processing live tweets
  - No (Thread 1) → Trigger a batch job to fetch missed data
    - Retry → is success
      - Yes → update the DB and send email with logs
      - No / retry exhausted → update the DB with failure and send email with logs

store the raw json in hdfs/s3

Create the payload and start processing live tweets
- Thread2 → store stats and tweets data → mysql database → is success
  - Yes → keep fetching new tweets (back to Create the payload and start processing live tweets)
  - No → Update DB with stats and semd email with failutre logs → Database → **Terminator**