Problem : problem With existing case is with Large amount of data, portal faces some issues in loading data from MongoDb

Soultion : **Elasticsearch** allows you to store, search, and analyze huge volumes of data quickly.
ElasticSearch is capable to handle queries through REST API and this is its advantage over MongoDB.

Flat documents can easily be stored and without degrading the performance of the entire database. In addition to this, ElasticSearch is capable to handle data through filters.
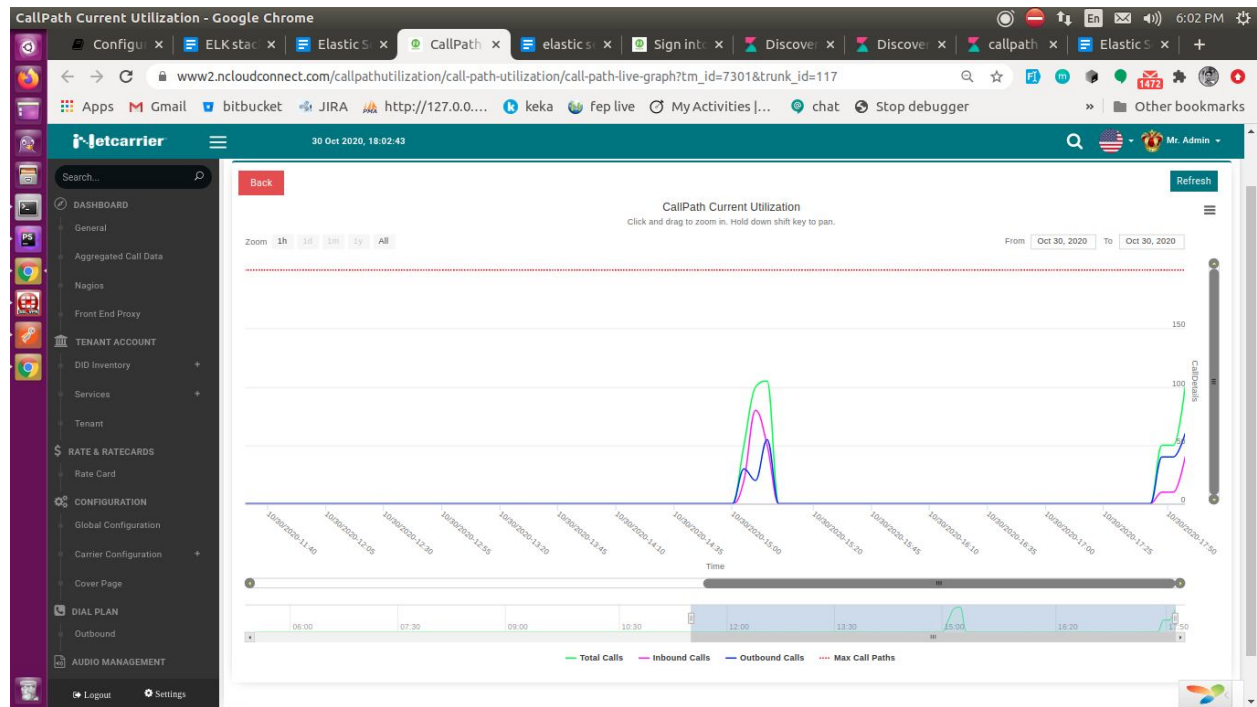

- We can also use **kibana** along with ES to view all kind of logs if we want to use ELK stack , kibana provides at most features for that to view logs with ease.

  - implement mongodb replication of available data in ElasticSearch index for that
  We have used Monstache(https://github.com/rwynn/monstache) plugin written in GO
   to replicate available data in Mongodb and insert in Elastic **index** and use it instead of existing mongodb collections to generate reports (graphs as of now)

  For now we have setup ES in staging (sc2) server and have implemented it for callpath graph and callpath alerts and used data of sc4 as input to elasticsearch ,

  (The graph will not work other than given link below due to sc4 data for now while call path alerts will be real time as given in sc4)

  https://www2.ncloudconnect.com/callpathutilization/call-path-utilization/call-path-live-graph?tm_id=7301&trunk_id=117

https://www2.ncloudconnect.com/callpathutilization/call-path-utilization/call-path-alerts

(tenant ,trunk will be missing as data belongs to SC4)

Installation Documentation

https://docs.google.com/document/d/1grO9goUIq9nsdATwUWYgo0iFROQ-JPTWPmrsLCDuc1c/edit