

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.

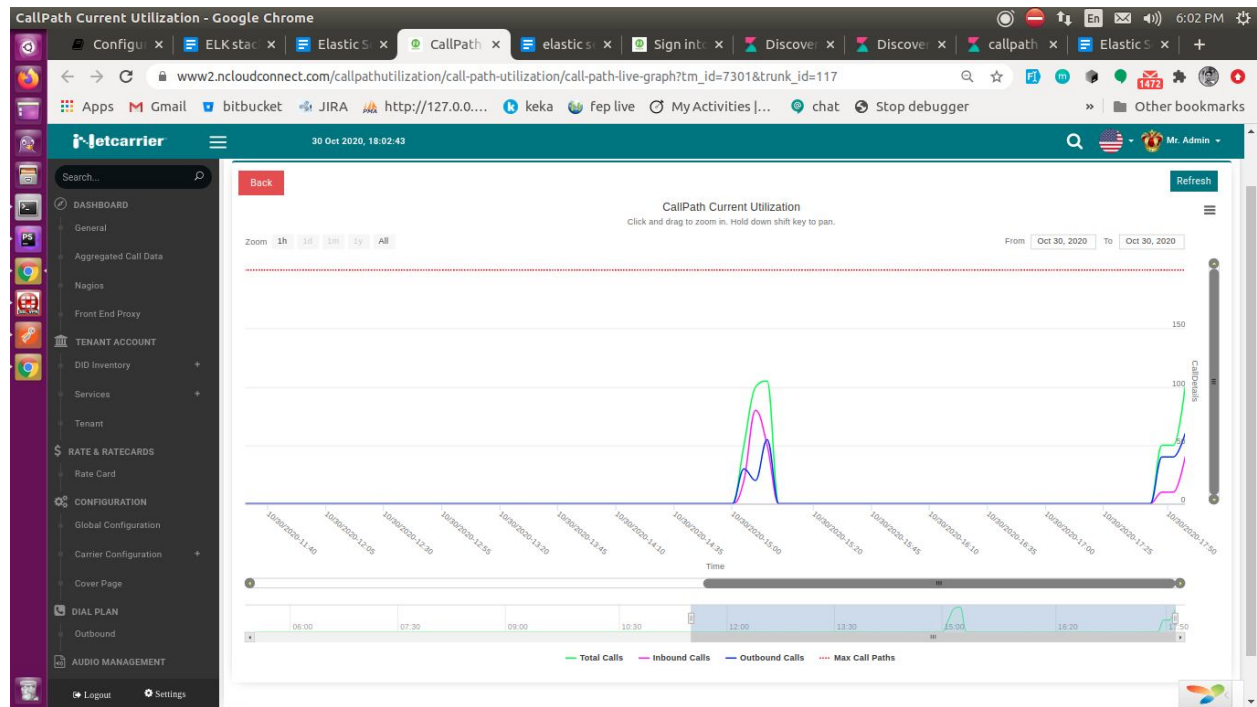
- We can also use **kibana** along with ES to view all kind of logs if we want to use ELK stack , kibana provides at most features for that to view logs with ease.

- 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)

Call Path Alerts - Google Chrome

Configu x ELKsta x ElasticS x Call Path x elasticS x Sign int x Discover x Discover x callpath x ElasticS x

www.2ncloudconnect.com/callpathutilization/call-path-utilization/call-path-alerts

30 Oct 2020, 18:03:18

Search...

DASHBOARD

- General
- Aggregated Call Data
- Nagios
- Front End Proxy

TENANT ACCOUNT

- DID Inventory
- Services
- Tenant

RATE & RATECARDS

- Rate Card

CONFIGURATION

- Global Configuration
- Carrier Configuration
- Cover Page

DIAL PLAN

- Outbound

AUDIO MANAGEMENT

- Logout
- Settings

Call Path Alerts

Search

Call Path Alerts Refresh

Search 100

Tenant	Trunk	Inbound Calls	Outbound Calls	Total Calls	Call Path Limit	Utilization Percentage	Time
-	-	0	0	0	200	0%	10/29/2020 17:15:01
-	-	0	0	0	0	0%	10/29/2020 17:15:01
-	-	0	0	0	0	0%	10/29/2020 17:15:01
-	-	0	0	0	1	0%	10/29/2020 17:15:02
-	-	0	0	0	5	0%	10/29/2020 17:15:02
-	-	0	0	0	5	0%	10/29/2020 17:15:02
-	-	0	0	0	10	0%	10/29/2020 17:15:02
-	-	0	0	0	8	0%	10/29/2020 17:15:02
-	-	0	0	0	0	0%	10/29/2020 17:15:02
-	-	0	0	0	0	0%	10/29/2020 17:15:02
-	-	0	0	0	30	0%	10/29/2020 17:15:02
-	-	0	0	0	7	0%	10/29/2020 17:15:02

Showing 1-100 of 14,650 items.

Installation Documentation

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