Log Filtering

Project Presentation

About

- Safesquid a proxy server, generates logs for each and every access to internet.
- To interpret and analysis the N/W overview at particular instance is the aim of this project.
- We can summarize information such as frequent user, total data used, data used by user, who accessed what and when etc and can trace particular user to website and vice versa.
- And yes everyone wants results in a flip second, this project understand the needs and time of N/W administrator!

Technology and Tools Used

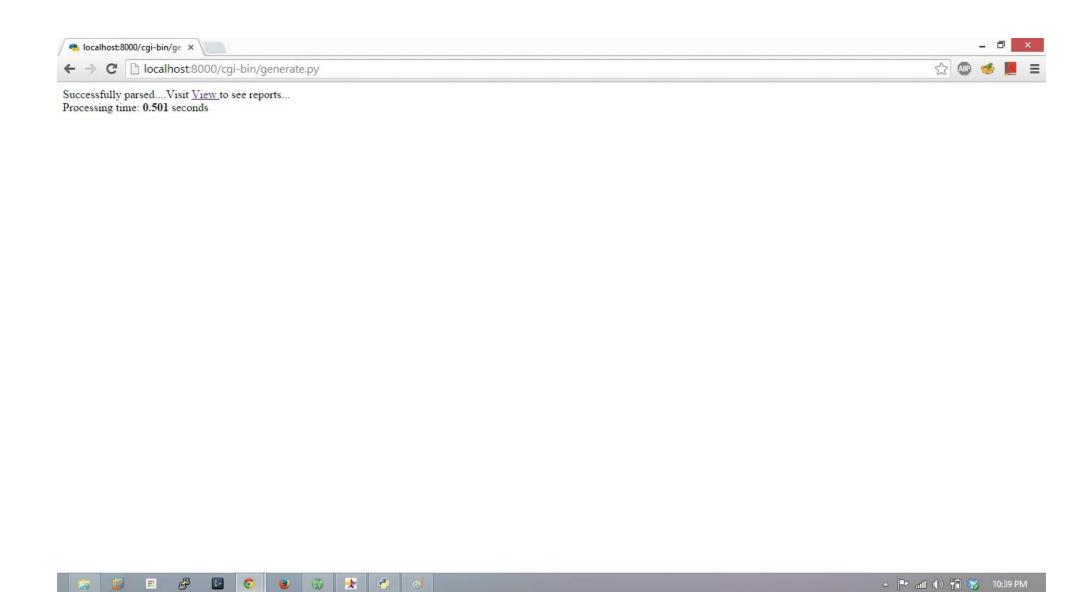
- Python 2.7
- MongoDB (NoSql Database)
- Ajax
- Jquery
- CGI Server

What changed from v1 to v2?

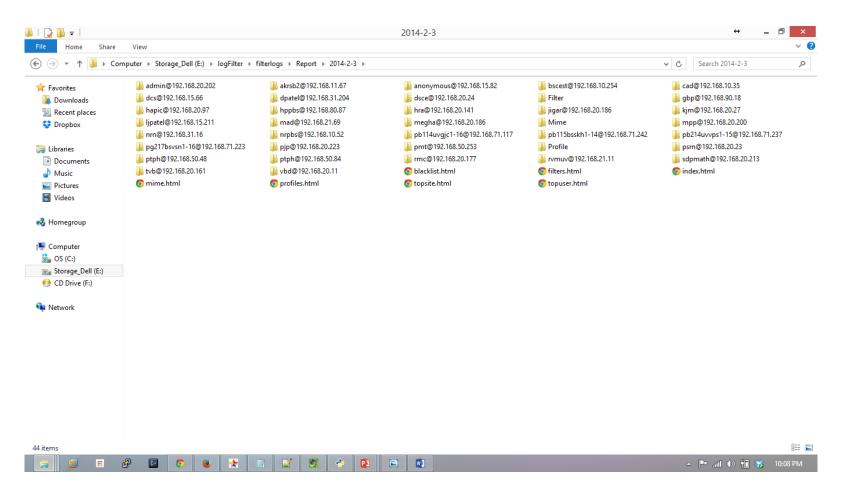
- Removed File I/O and introduced NoSql storage
- Improvised Regex and pattern matching
- Static Graphs to Dynamic Graphs on the go...
- Dynamic summary in tables
- User friendly UI
- Dynamic Graphs and Data summary
- Storage efficient and High performance

Performance & Features

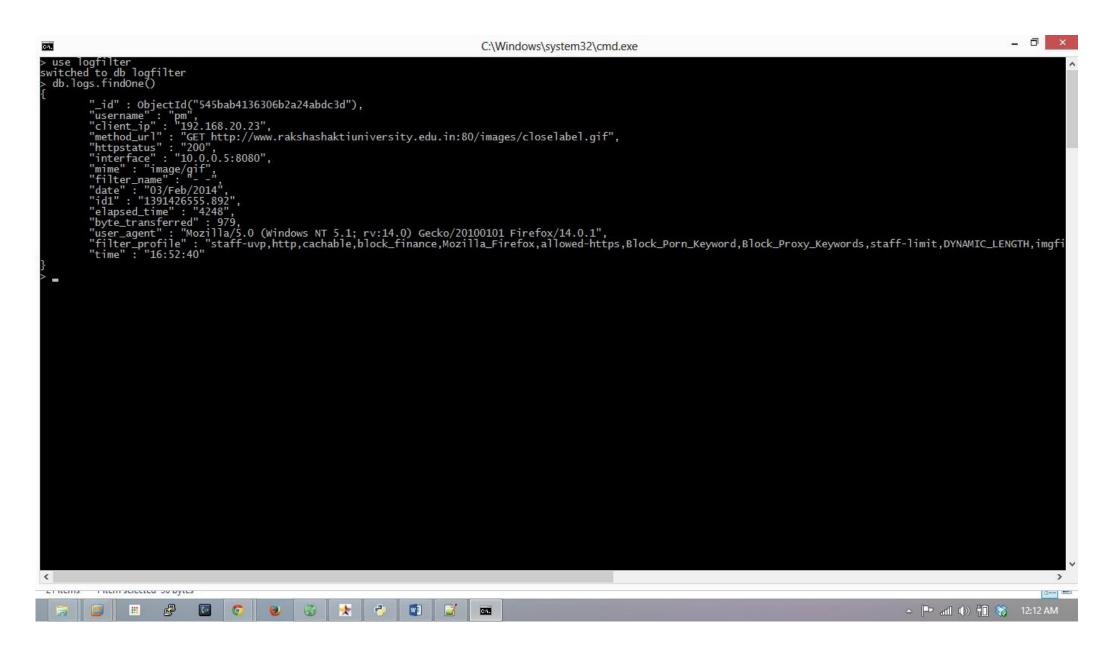
Version 1	Version 2
~ 1 minute to process 1 MB log file	~ 0.50 second to process 1 MB log file
Generates only static report	~ <1 second to query 600,000 logs
File Storage	Handles by MongoDb's underlying storage feature
No interactive UI	Dynamic UI
No search feature	Search by users, websites and data used
Can't provide summarized report of more than one logs files	Provide summarized report of more than one log files
Only Top 10 fields were displayed	Uptill Top 100 can be displayed



How data is stored?

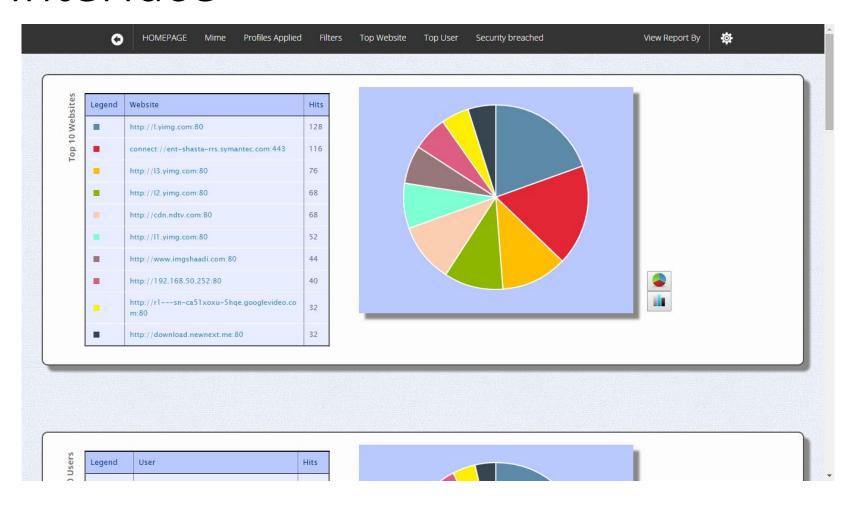


Version 1 - File System Storage

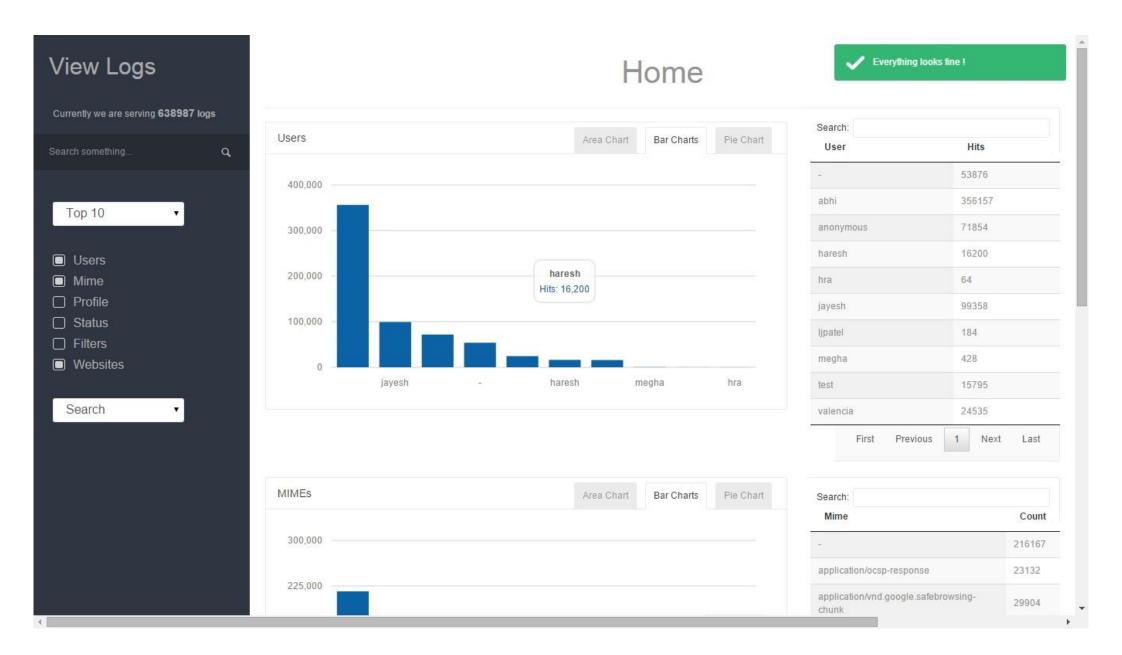


Version 2 – NoSql Document structure

User Interface

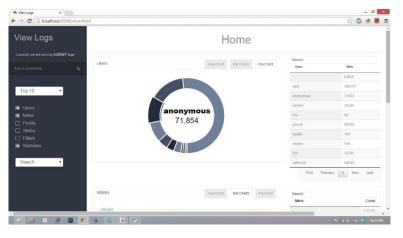


Version 1 - Static Interface

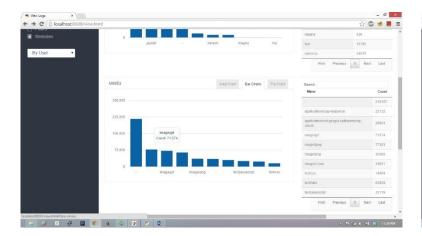


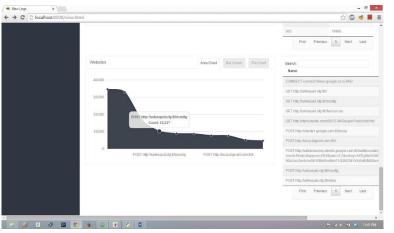
Version 2 – Dynamic Interface

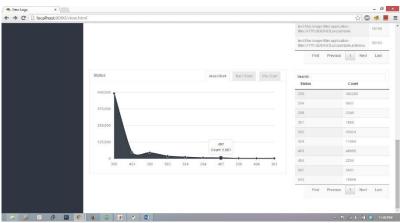
Dynamic Charts and Tables

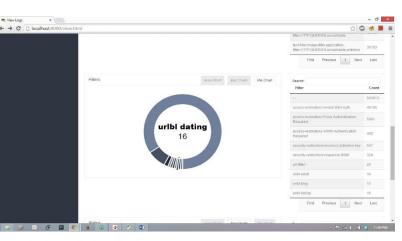




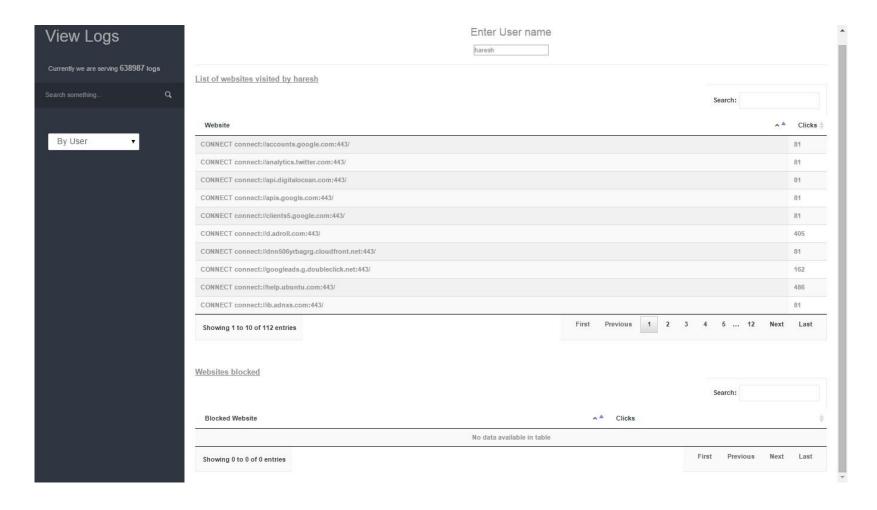




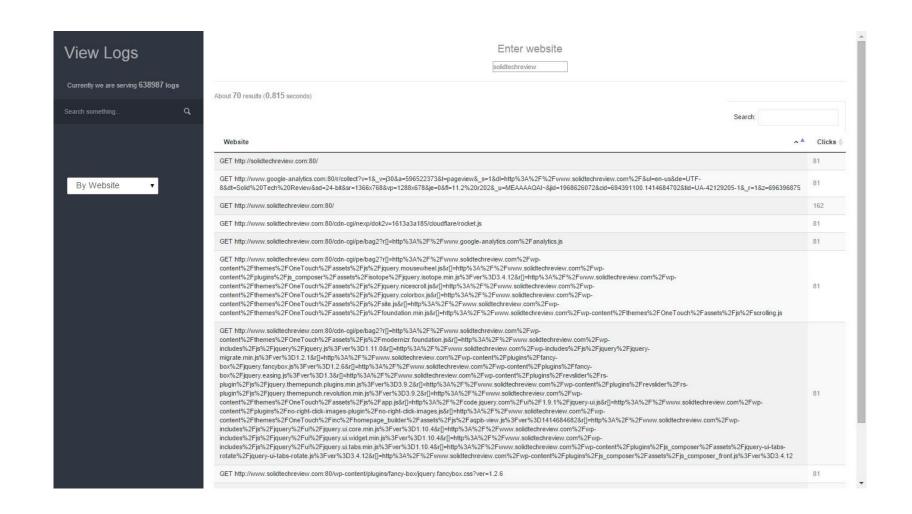




Search



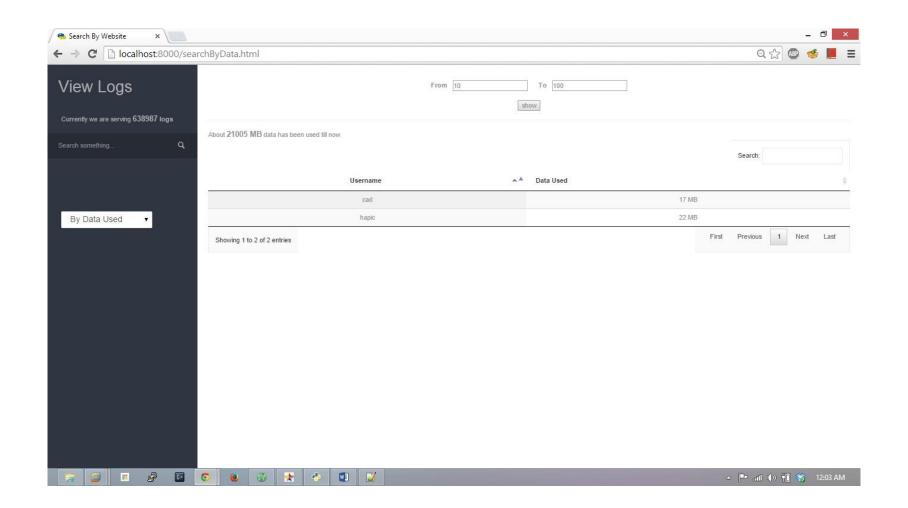
Search by user



Search by website



Website Details



Search by Data

MongoDB Query

Conclusion

- Extracting useful info from large dataset in no-time ensures admin that internet is used for right reasons.
- With various options and search features, admin can narrow down search fields.
- Fast processing and dynamic data, helps admin to get information without going through logs.
- NoSql database provides fast response with unstructured and complex data than any other relational DBs.