

Milestone 5

For Milestone 5, I created a dashboard with some of the visualizations that would be needed for the NSF reports. The overall purpose of this milestone was to find a solution that we could use to consolidate all of the visualizations we needed. I went through some possible solutions, from Kibana to a self-created portal, and eventually came across Grafana. After playing around with Grafana, it became apparent that it was the perfect solution for our needs; it had the ability to query different databases, annotate visualizations, display descriptions to explain each visualization, and open up dashboards to the public.

So far, in the dashboard I have created, the visualizations are using the data that we have collected from Elasticsearch and Zabbix. From Elasticsearch, I used the data to create visualizations on daily traffic, top 10 source AS numbers, top 10 destination AS numbers, and packet collection rate. Using the data from Zabbix, I was able to create visualizations on incoming and outgoing traffic on various interfaces of our Brocade switches.

After using this in the test environment, I went ahead and moved everything over to our production server and will have to monitor its progress over the next couple of days. This will also give me time to work on my next milestone, which will be to create the rest of the visualizations that we need.