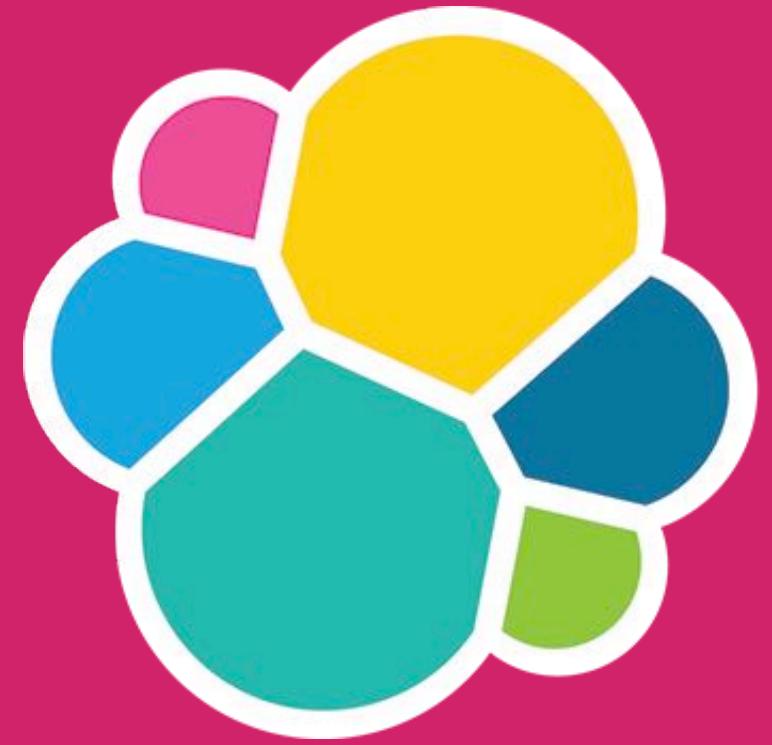


VISUALIZE YOUR THREATS

Philipp Krenn

@xeraa





elastic

Infrastructure | Developer Advocate

meetup

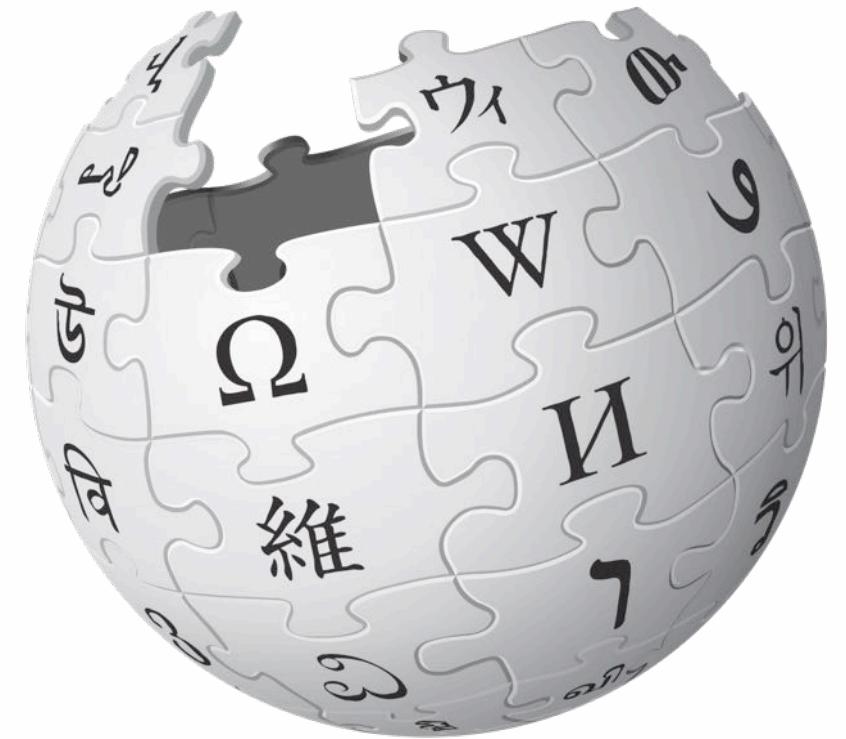
ViennaDB
Papers We Love Vienna





elasticsearch.

You Know, for Search



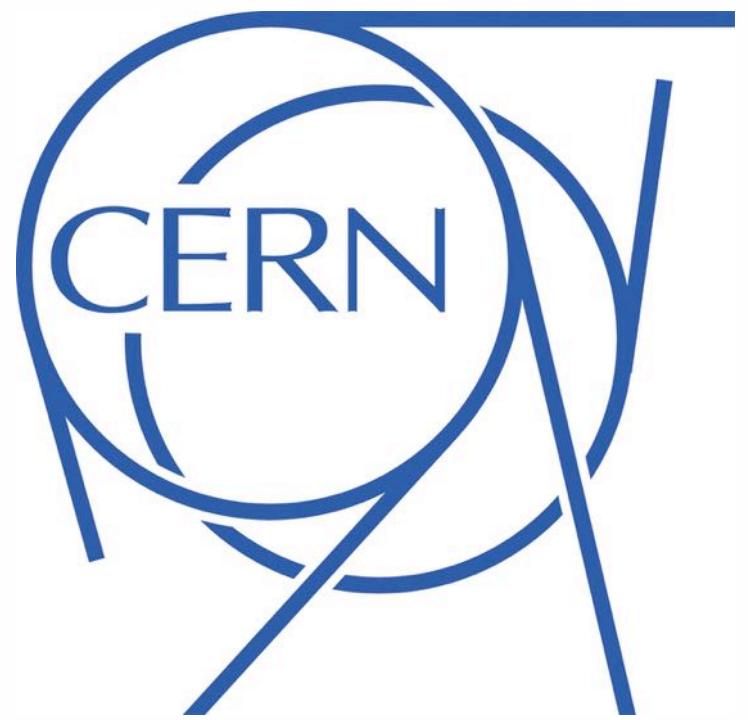
kibana



logstash

ELK STACK



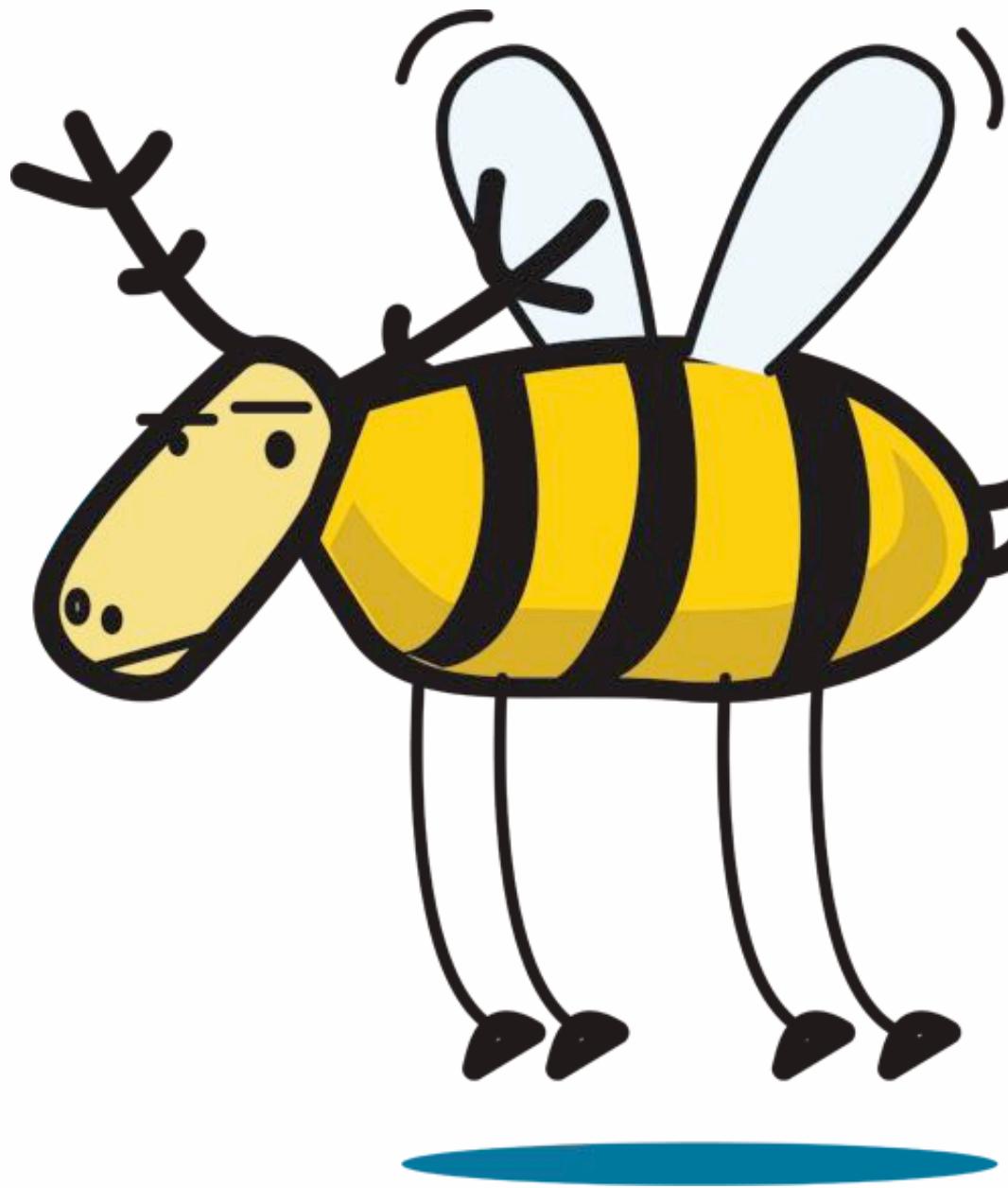




elastic

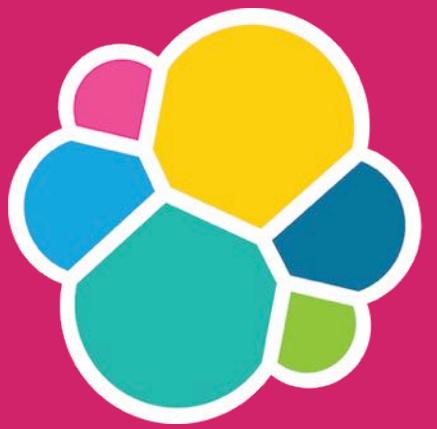


 elastic



elastic

ELASTIC STACK



elastic



Kibana



Elasticsearch



Logstash



Beats

WHAT ABOUT SECURITY?

Once upon a time...



Honeypot

Dataset

https://github.com/tcrug/marx_data

Condensed into one day

2016-01-12

Enriched

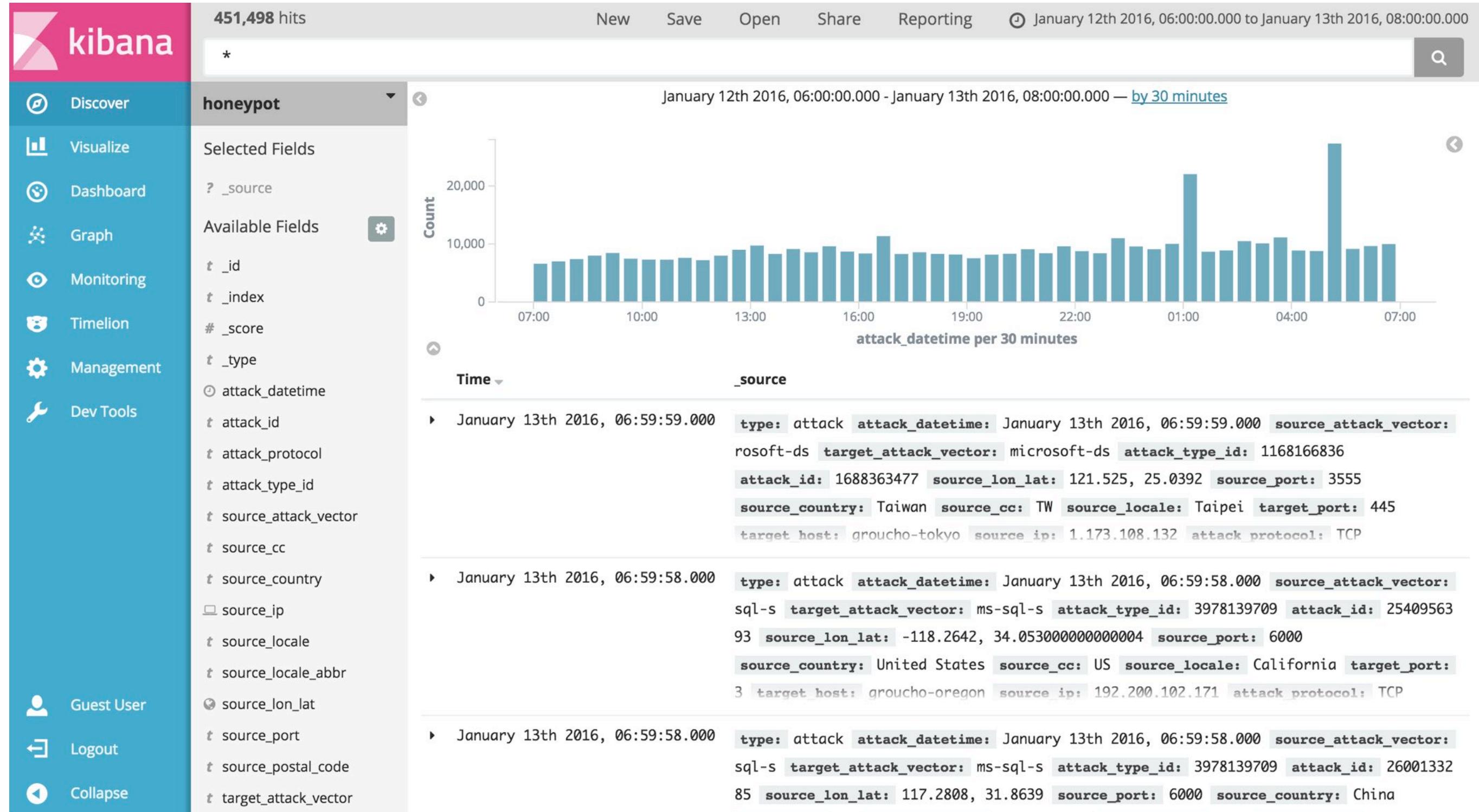
Port numbers, unique attack types, individual attacks, GeolP

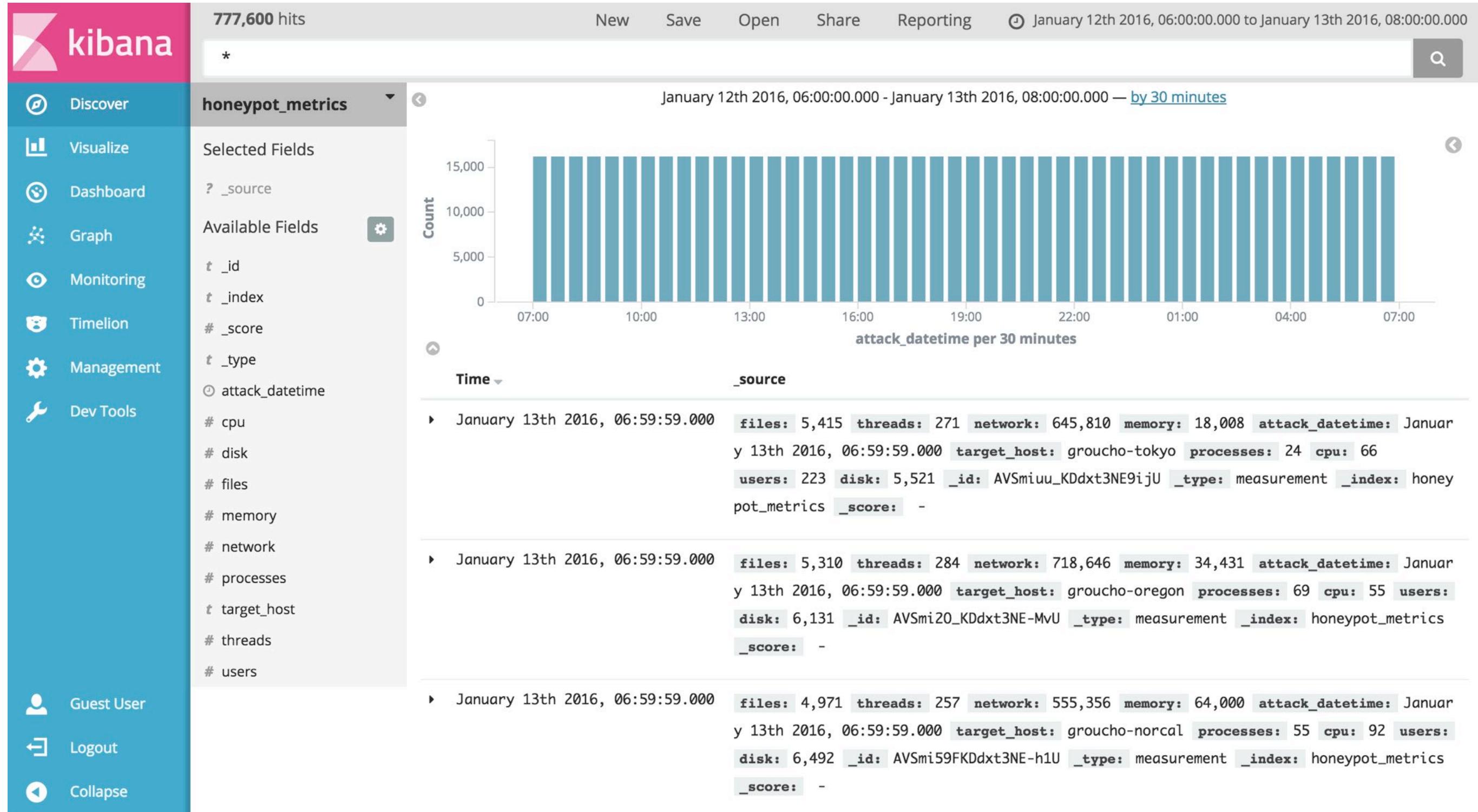
Metrics

Generated

DISCOVER





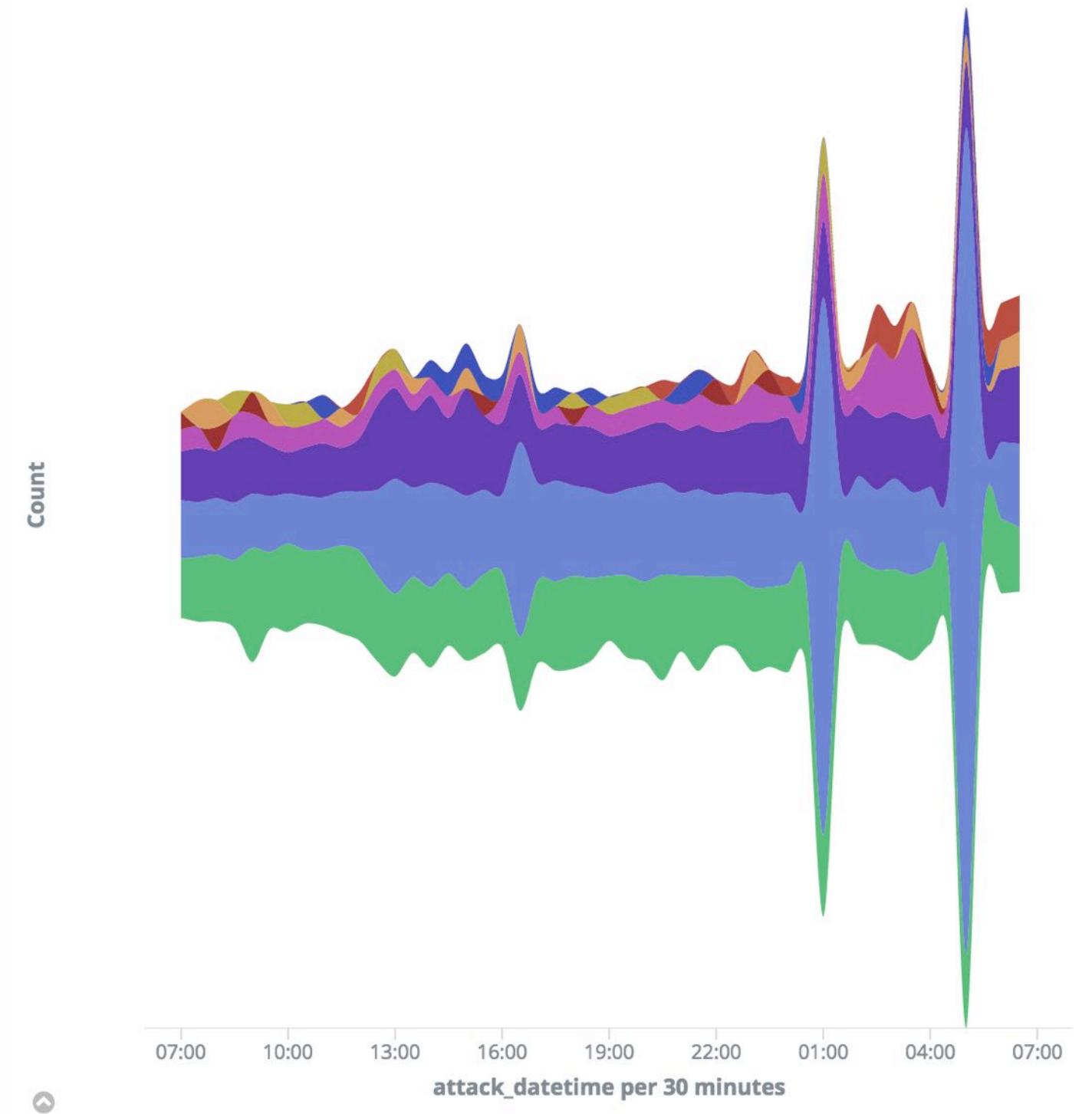


VISUALIZE



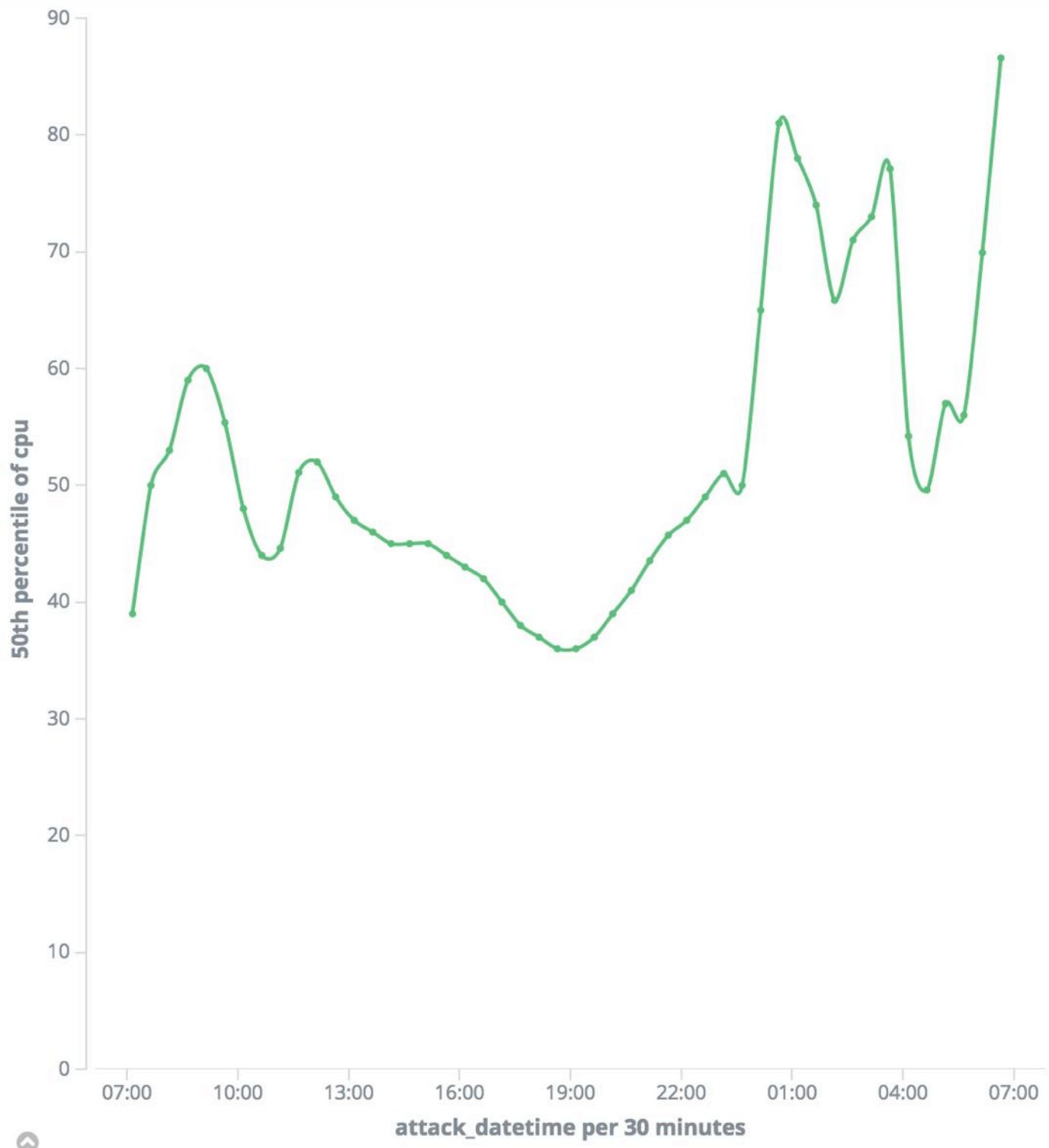
elastic

Attacks by host and time

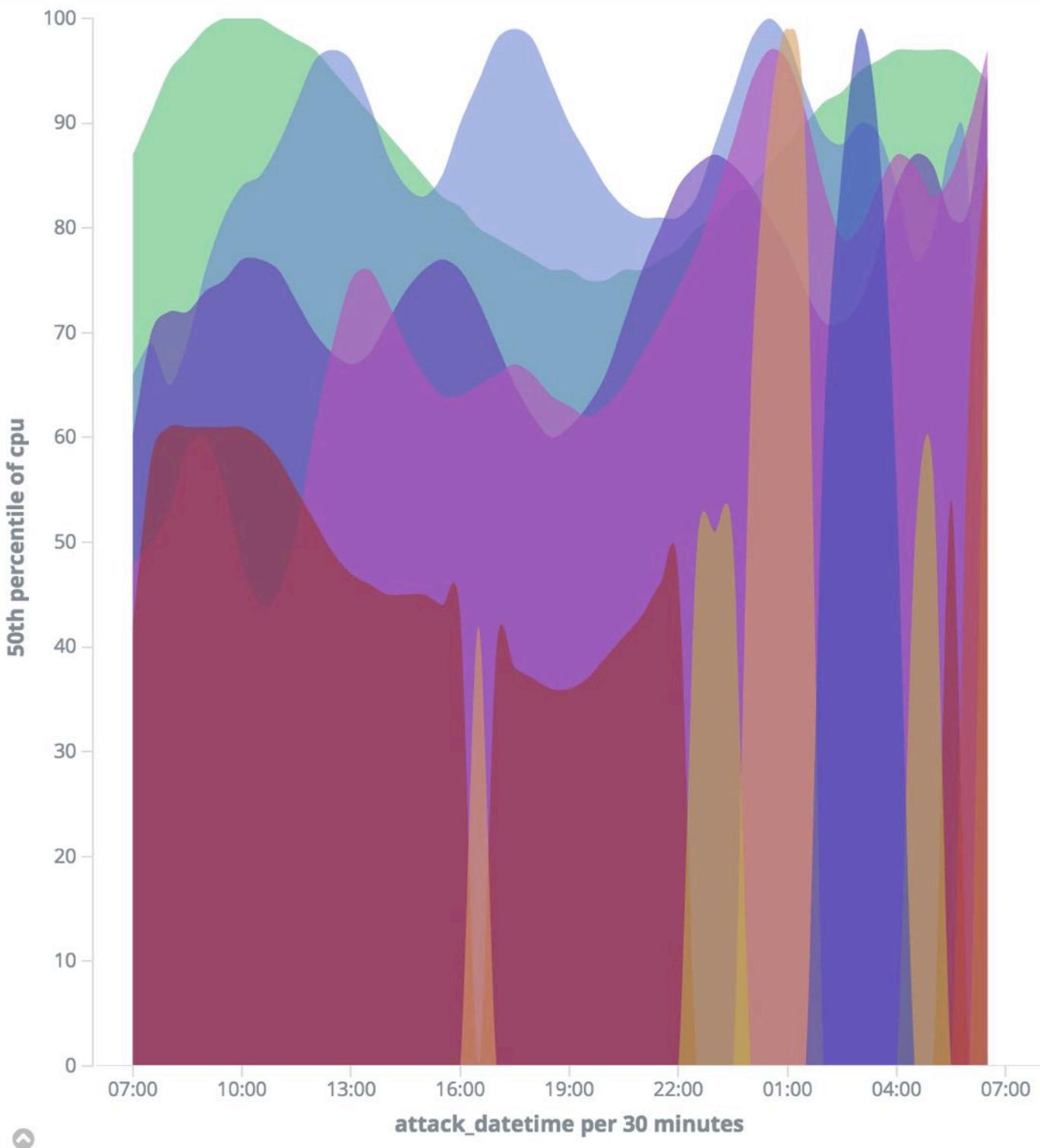


elastic

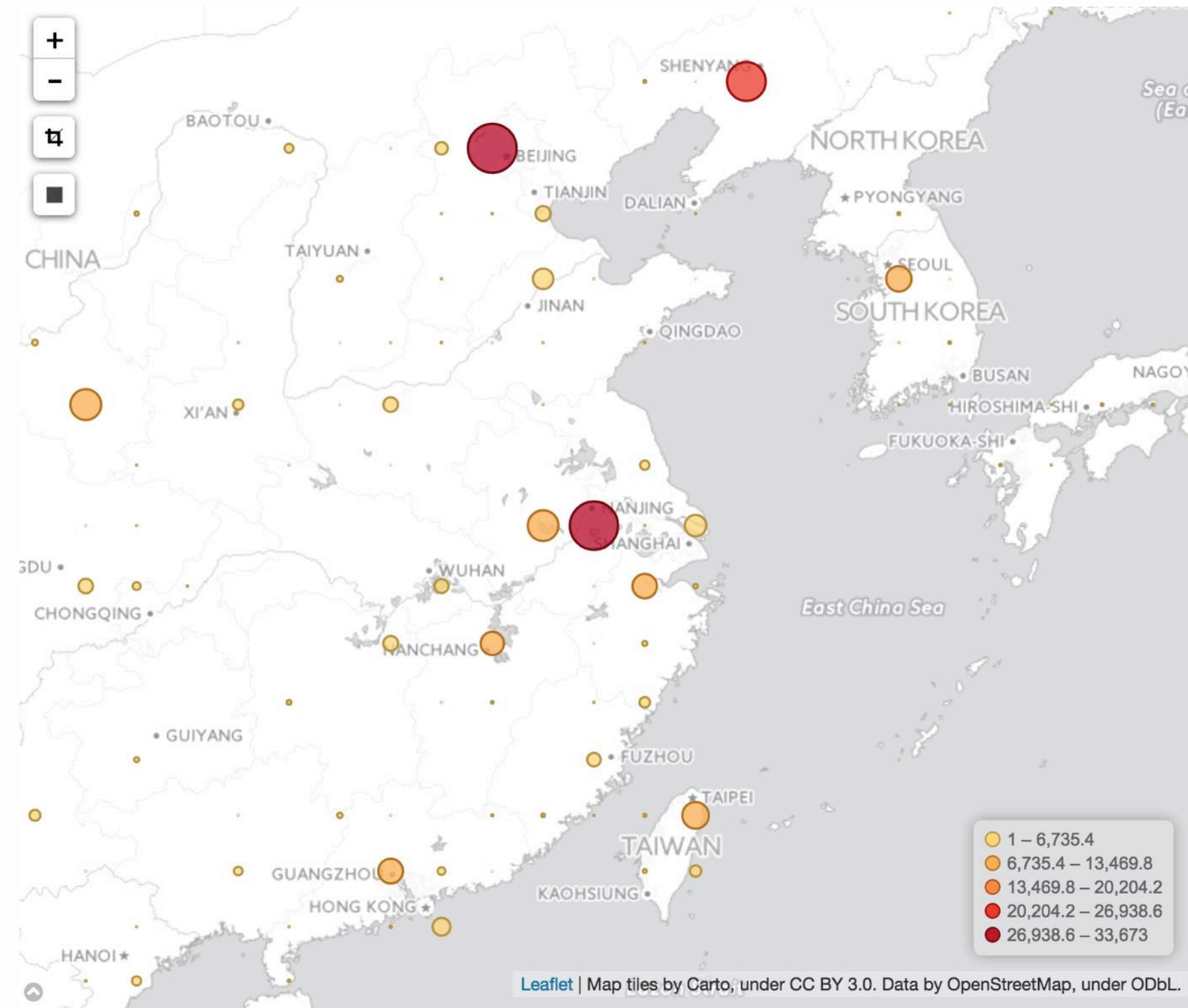
CPU over time



CPU over time by host



Geolocation of attacks



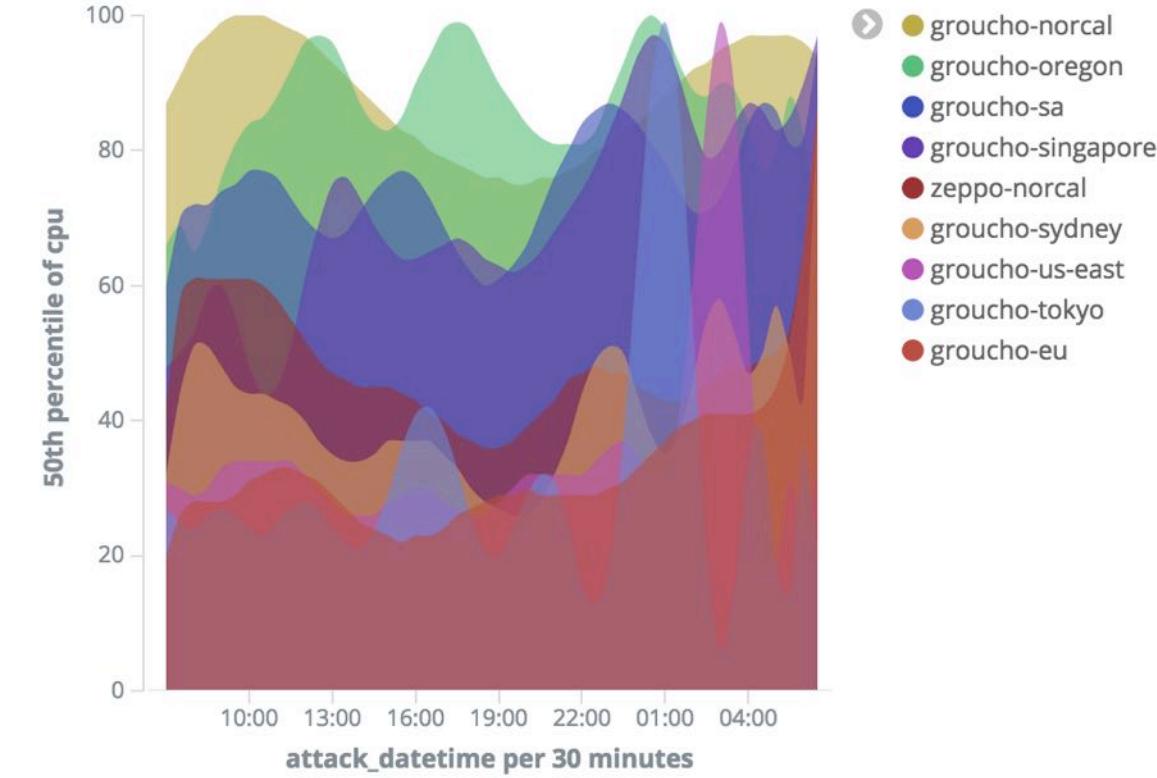
DASHBOARD

Putting it together

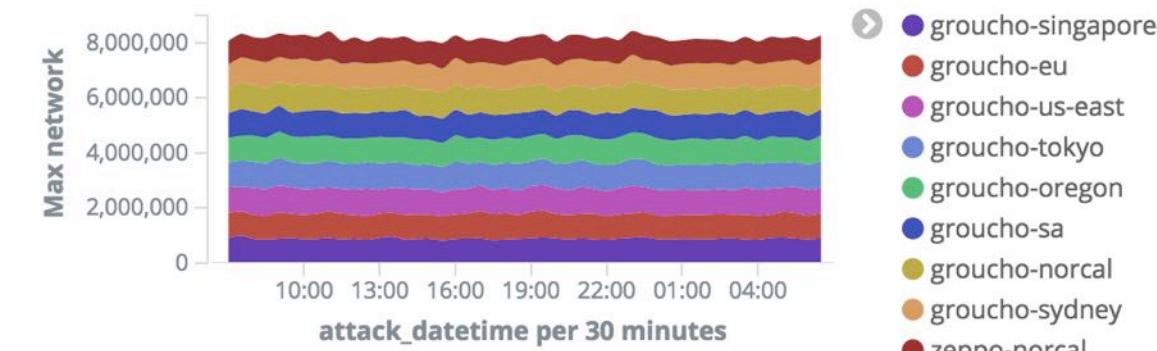
Attacks by Host and Time



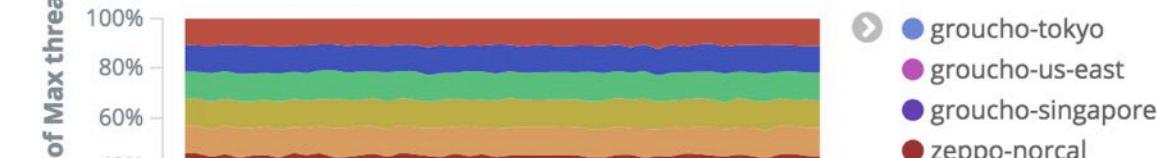
CPU Overlap by Host and Time



Network Percentage by Host and Time



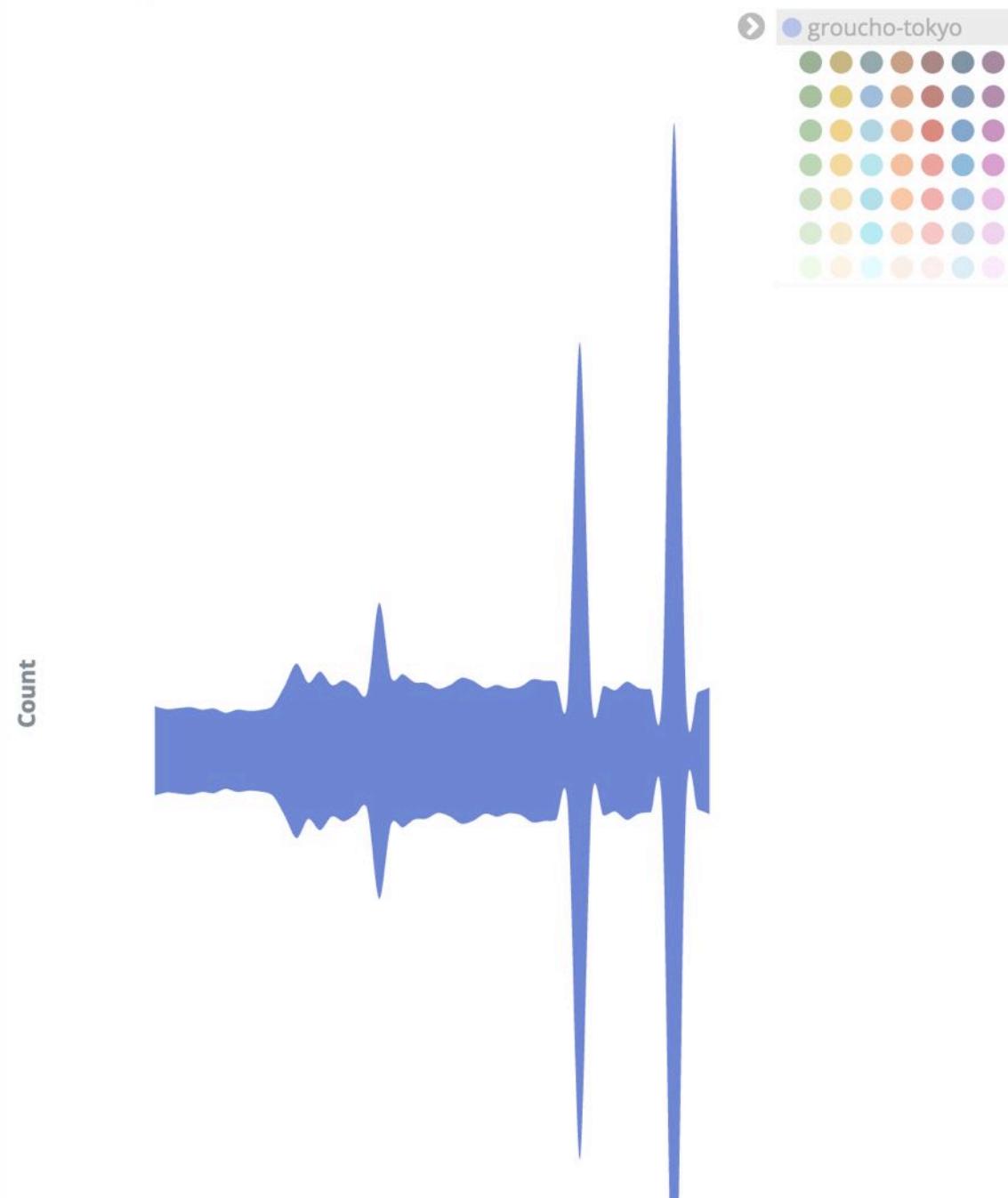
Threads Percentage by Host and Time



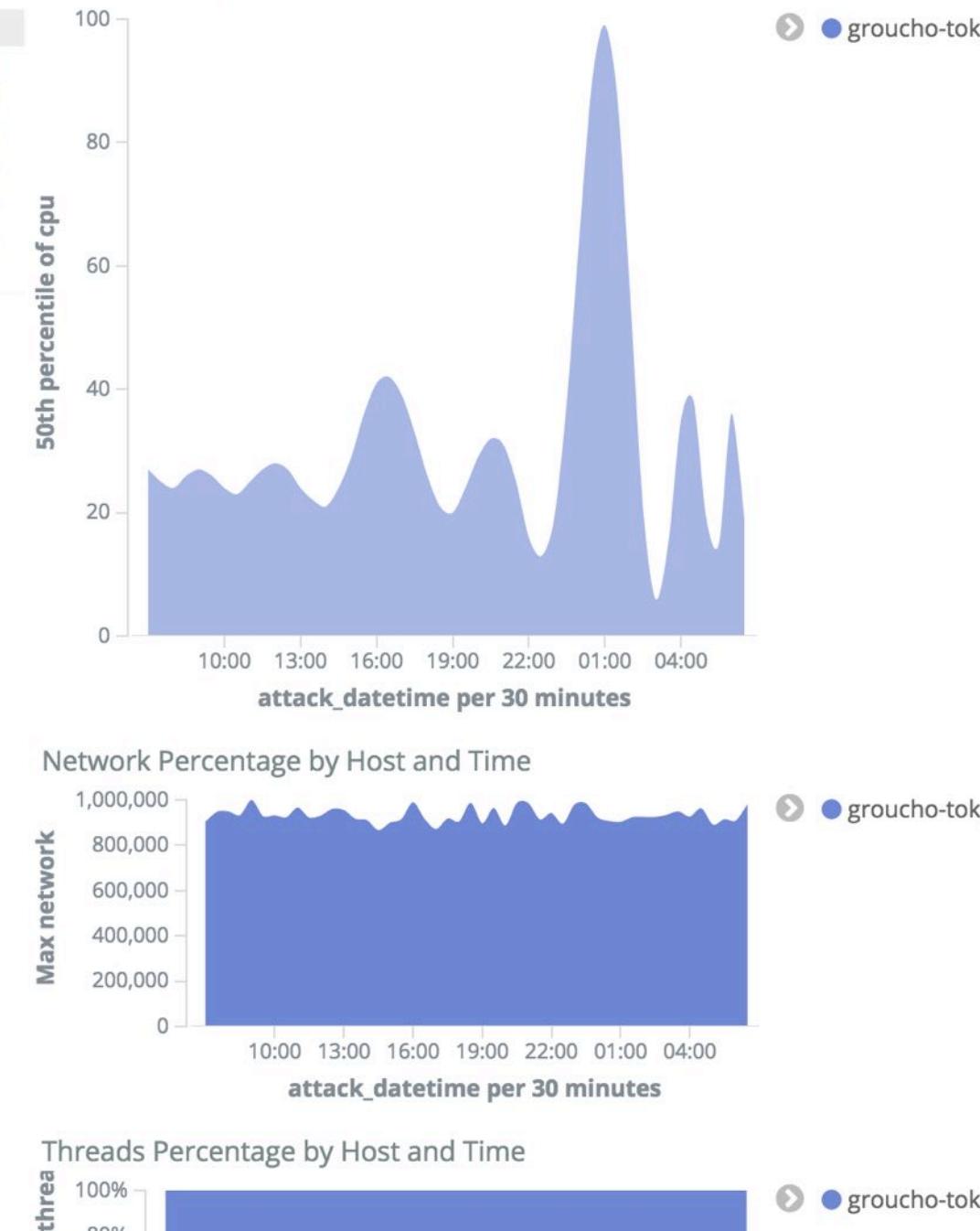
target_host.raw: "groucho-tokyo"

Actions ▾

Attacks by Host and Time



CPU Overlap by Host and Time



Network Percentage by Host and Time



Threads Percentage by Host and Time

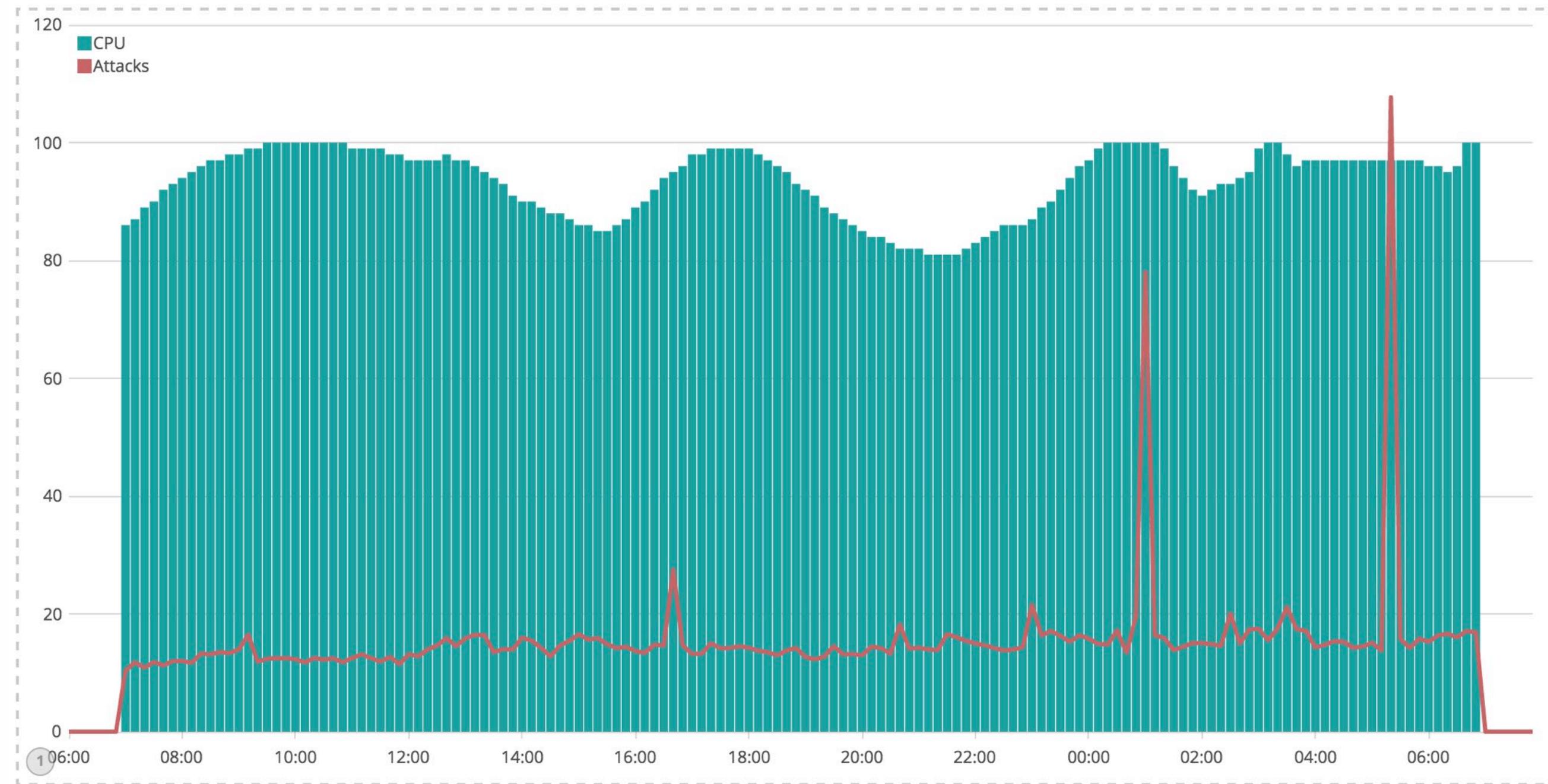


TIMELION

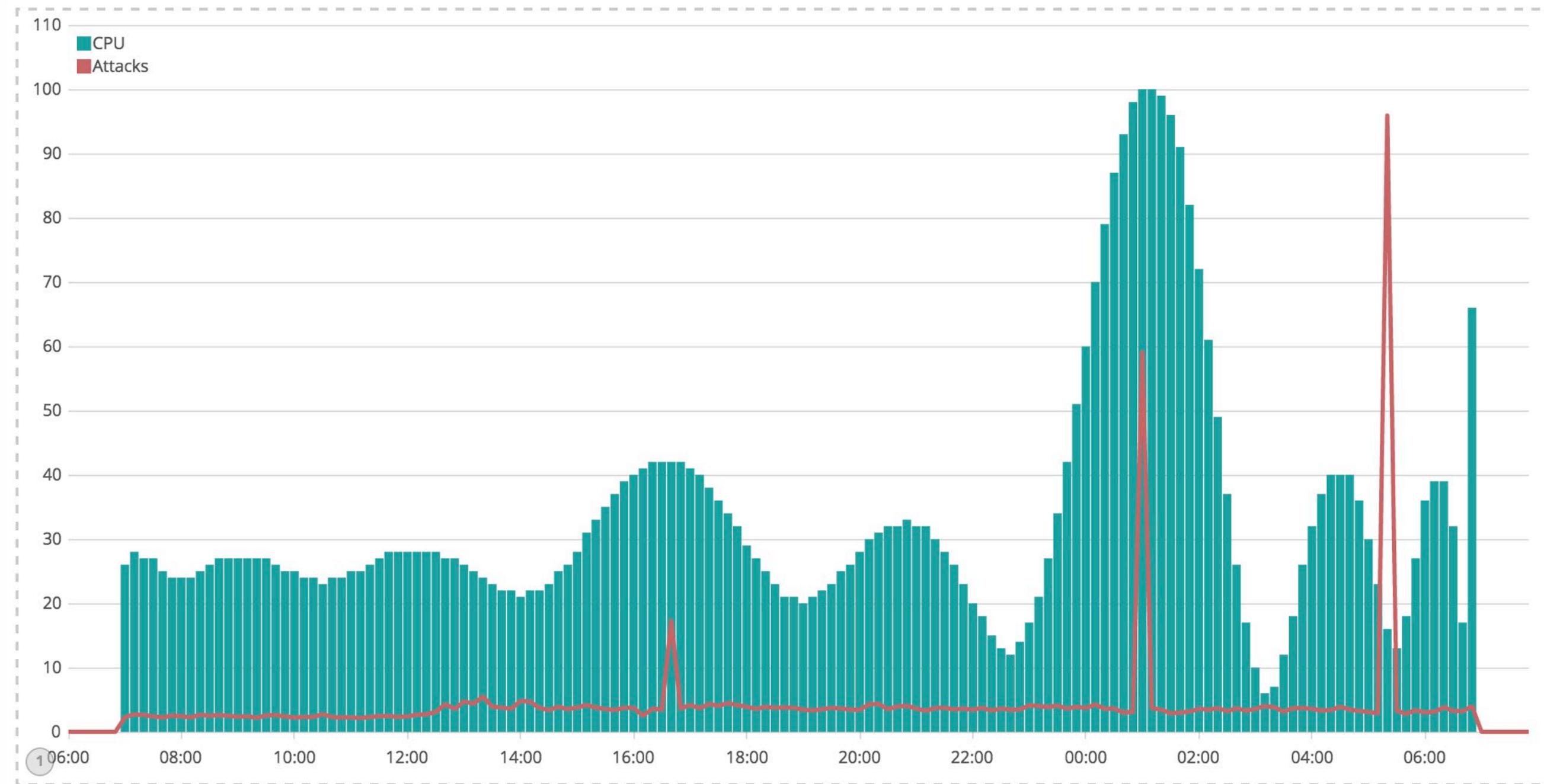


elastic

Compare honey data and metrics



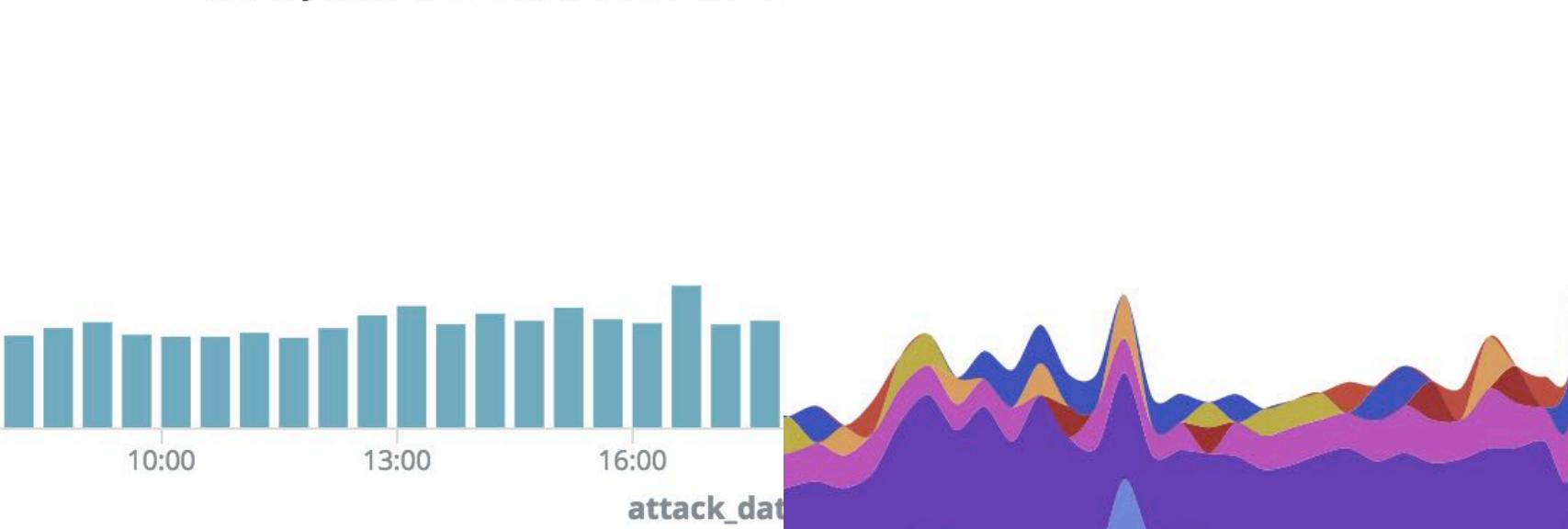
Compare honey data and metrics for Tokyo



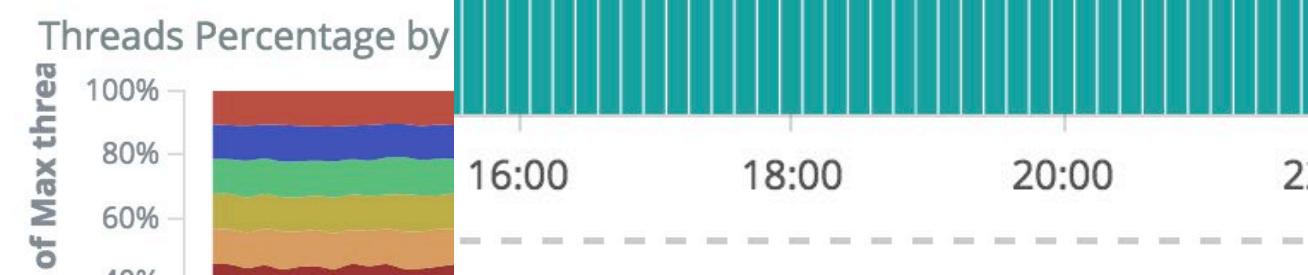
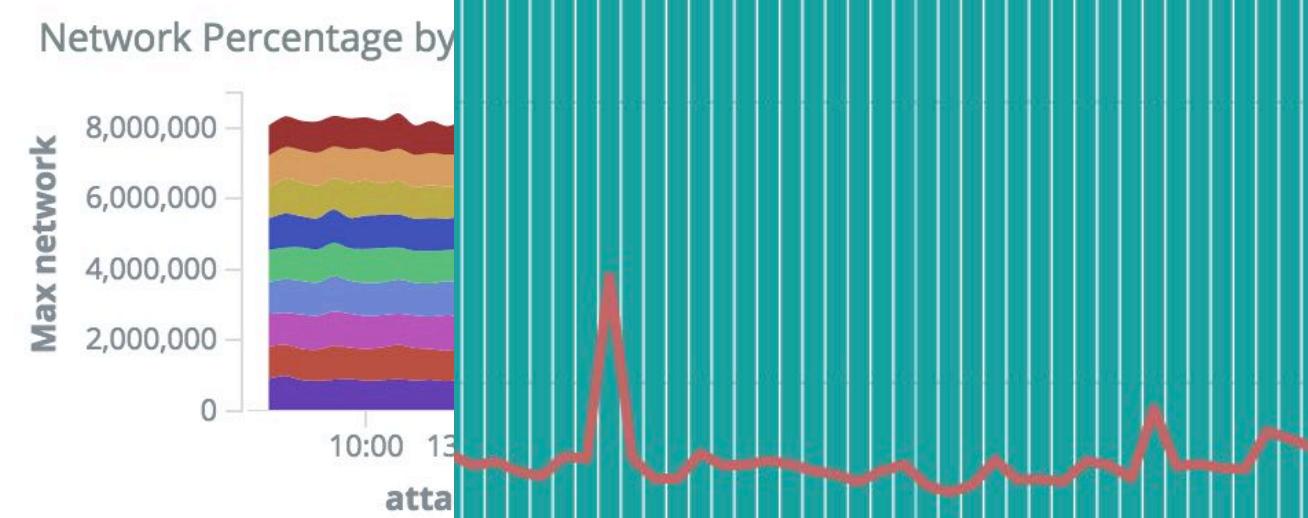
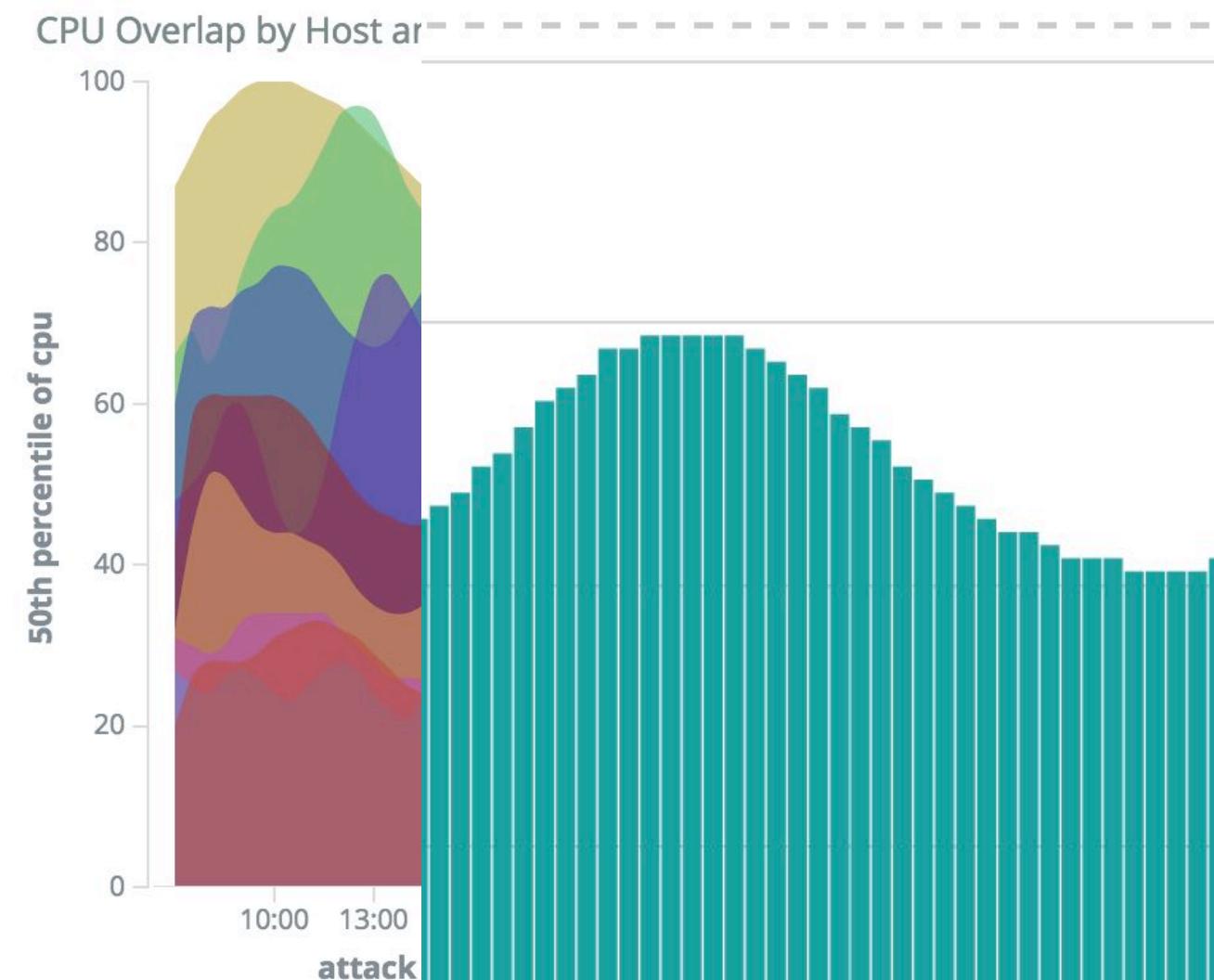
CONCLUSION

Visualize all the things

January 12th 2016, 06:00:00.000 - Janua

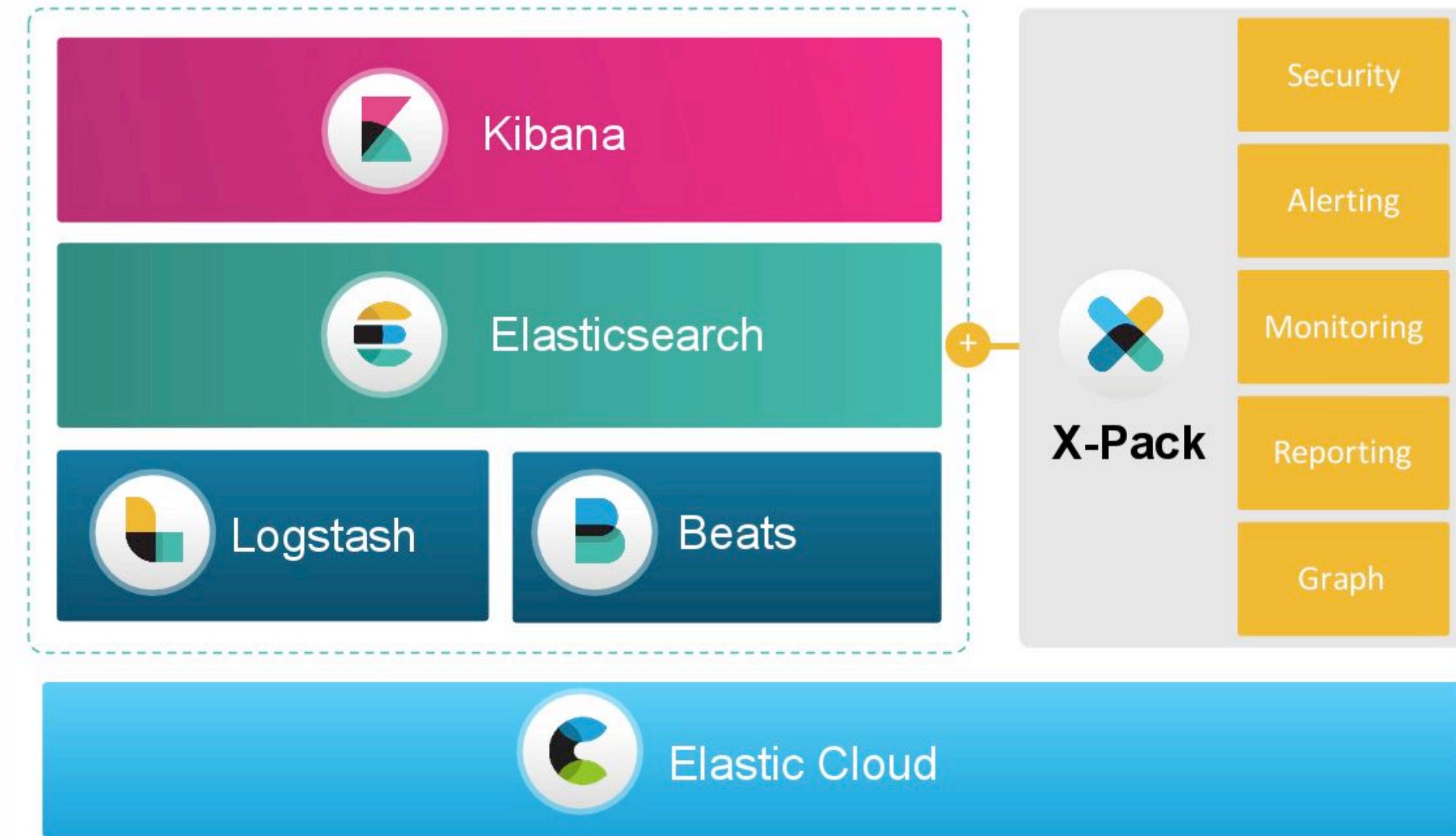


- groucho-oregon
- groucho-tokyo
- groucho-singapore
- groucho-us-east
- zeppo-norcal
- groucho-sydney
- groucho-norcal
- groucho-sa
- groucho-eu



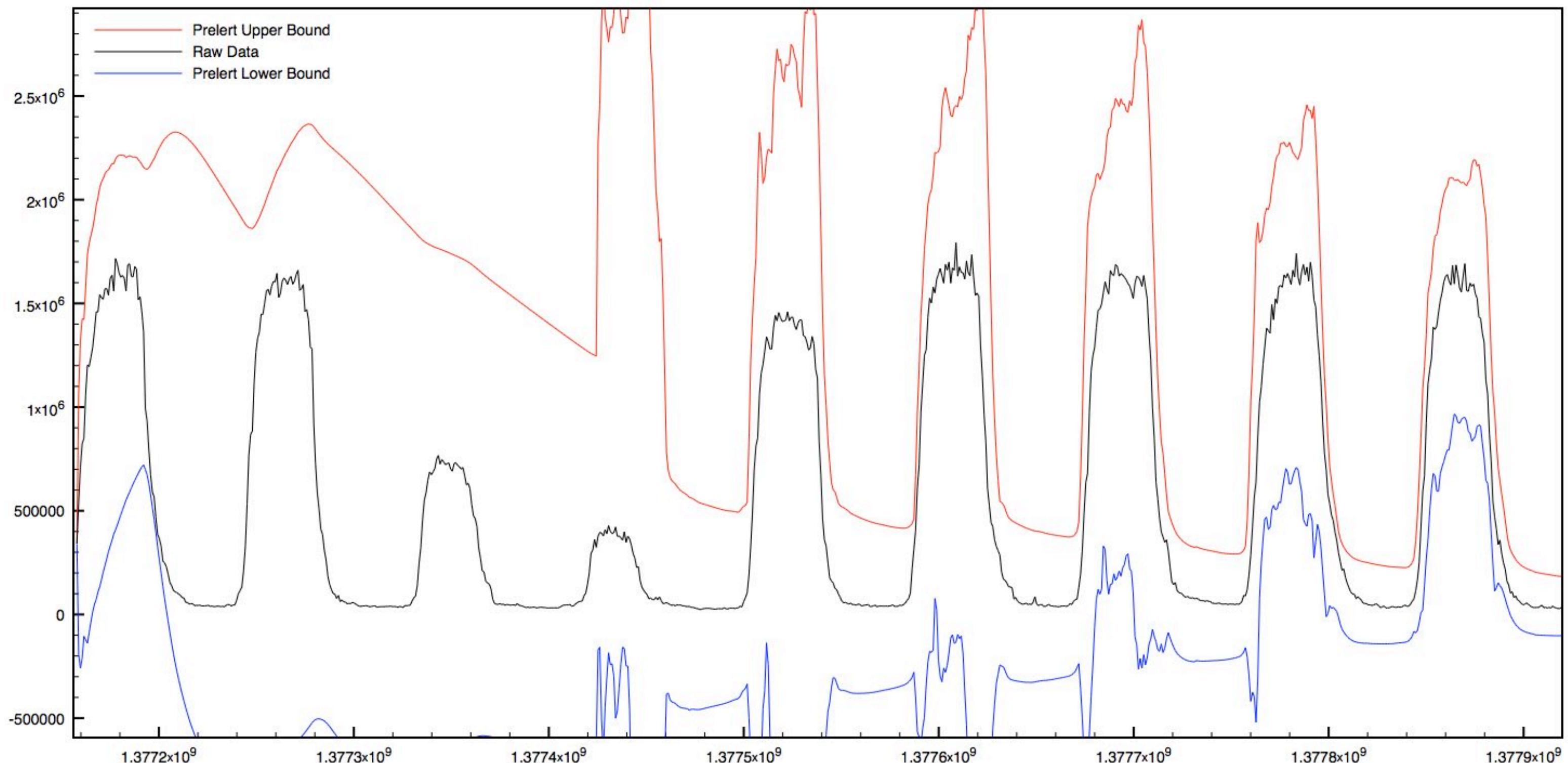
elastic

But wait, there is more



Prealert is coming





Try it

<https://github.com/xeraa/vagrant-elastic-stack>



QUESTIONS?

Philipp Krenn

@xeraa

PS: Sticker