Exercises

Download and start elasticsearch

- Download elasticsearch from http://elastic.co
- Unpack
- Start elasticsearch using bin/elasticsearch.bat
- See that it started by accessing http://localhost:9200

Download and start Kibana

- Download Kibana from http://elastic.co
- Unpack
- Start Kibana using bin/kibana.bat
- Access the console on http://localhost:5601

Configure Filebeat to read access log

- Download filebeat for your OS from http://elastic.co
- Unpack
- Configure in filebeat.yml
 - o prospector path pointing to your file
 - o if necessary configure elasticsearch output
- Run filebeat

filebeat.exe -c filebeat.yml

• Make sure the log events are in elasticsearch. In DevTools submit the request:

GET /filebeat-*/_search

See the structure of the events

Configure Logstash

- Stop the filebeat process
- Delete the registry file in the beats data dir (data/registry for .tar.gz and .zip, /var/lib/filebeat/registry for DEB and RPM packages)
- Delete the filebeat-* index in elasticsearch (in DevTools: DELETE filebeat-*)

Dev Tools

Console

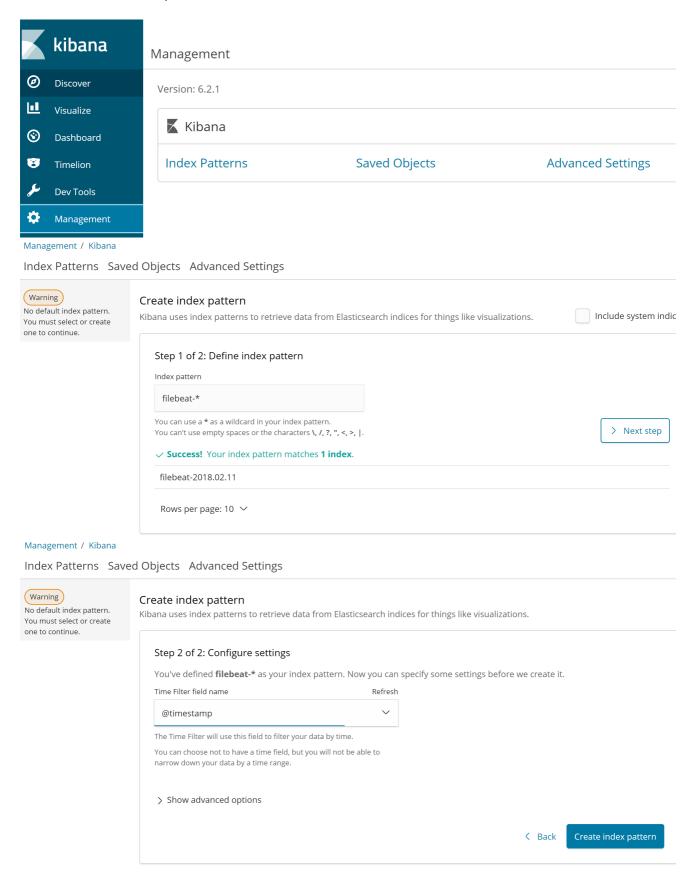
- · Create a logstash configuration that pipes the logs to elasticsearch
 - Filters: One grok filter for COMBINEDAPACHELOG
- Configure filebeat output to send events to Logstash
- Start logstash

```
logstash.bat -f logstash.conf
```

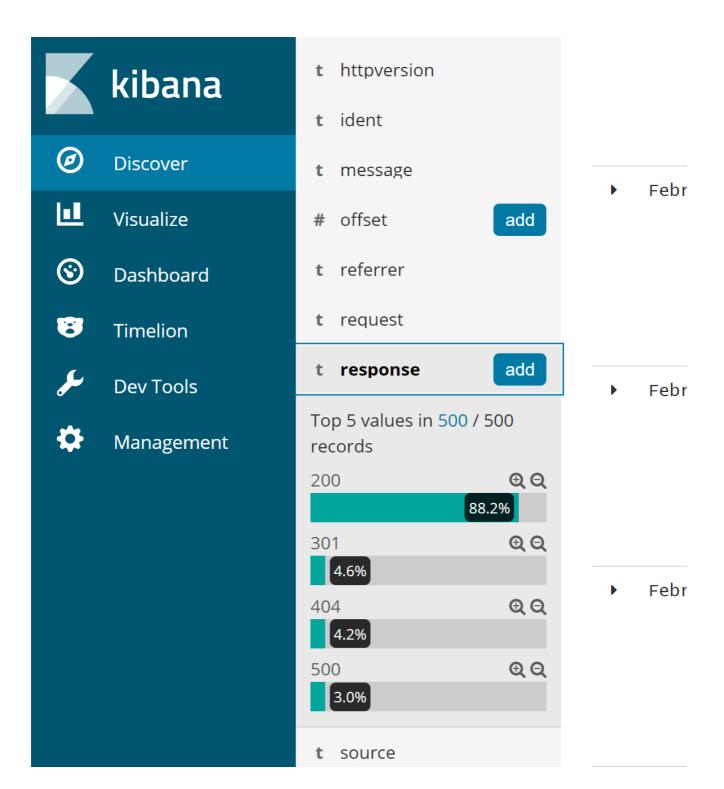
- Start filebeat
- Check the structure of the documents in Kibana

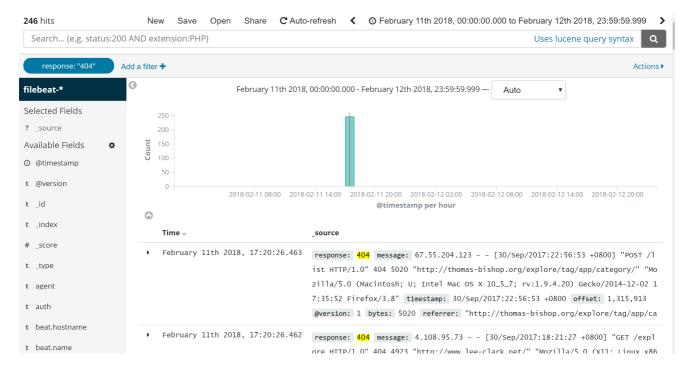
Kibana

Create an index pattern for filebeat-*

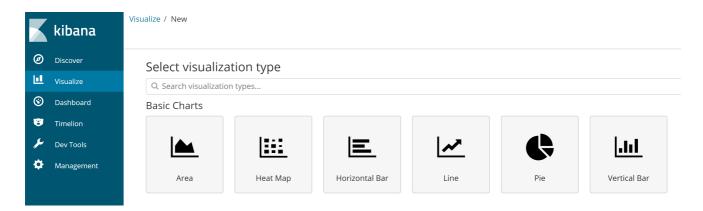


• Using Discover, filter the documents to display only the 404 responses.





- Create a new visualization
- Select bar chart



• Display the count of documents per Verb

