

Elasticsearch

Schema-less
example

The real
power

Logstash

Kibana

Conclusion

Elasticsearch presentation

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Conclusion

- it's a database

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- it's a database
- it's also a search engine (optimized for text)

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- it's a database
- it's also a search engine (optimized for text)
 - boolean search
 - phrase search / proximity search
 - wildcard queries
 - term weighting
 - aggregation

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- it's a database
- it's also a search engine (optimized for text)
 - boolean search
 - phrase search / proximity search
 - wildcard queries
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 - aggregation
- implemented in java, on top of lucene
- incredibly fast
- RESTful (libraries are available e.g. for Python)
- no-sql → schema-less → example

The Pokemon Example

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```
1 {  
2   "name": "Charmander",  
3   "type": "Fire",  
4   "height": "0.6",  
5   "region": "Kanto",  
6   "generation": "1"  
7 }
```

(a) Charmander pokedex entry

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(a) Charmander pokedex entry

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```
1 {  
2   "name": "Zigzagoon",  
3   "pokedex number": "#263",  
4   "type": "Normal",  
5   "height": "0.4",  
6   "region": "Hoenn",  
7   "generation": "3",  
8   "stats":  
9     {  
10      → "HP": "38",  
11        "Attack": "30",  
12        "Defense": "31",  
13        "Sp.Atk": "30",  
14        "Sp.Def": "31",  
15        "Speed": "60",  
16        "Total": "240"  
17    }  
18 }
```

(a) Zigzagoon pokedex entry

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18 }
```



(a) Zigzagoon pokedex entry

ELK Stack

Elasticsearch

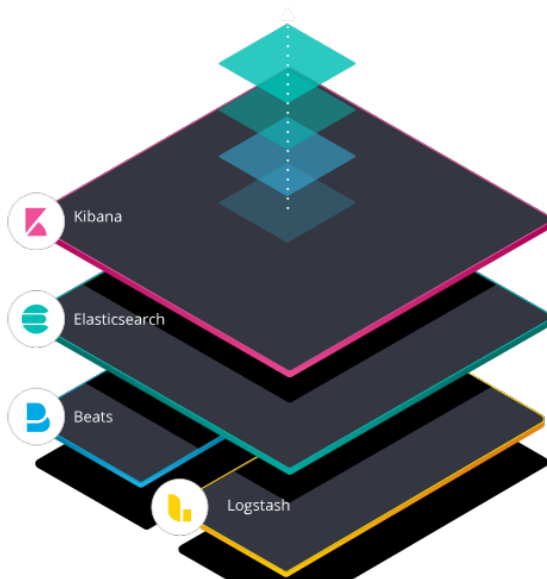
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Logstash

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- ① Logstash is a preprocessing tool
- ② I need to insert parts of my config file here and compare it to the python code

Kibana

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Kibana demo

Conclusion

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Conclusion

- ① don't confuse it with a NLP tool, it's not
- ② not recommended for PROD → not stable
- ③ fast changes (e.g. deprecations) with releases → careful with old tutorials
- ④ remarkable → get insights into data in not time