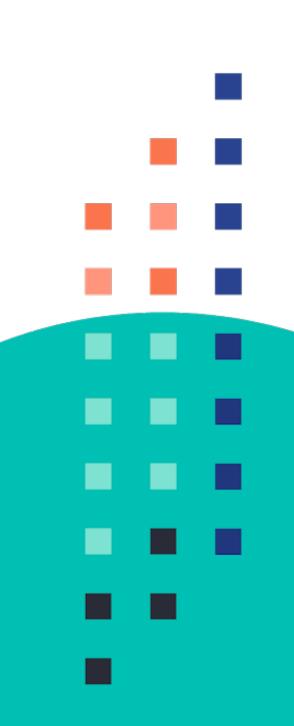


Elastic Stack Overview

Search. Observe. Protect.





Who?

```
| $ curl http://localhost:9200/speaker/ doc/dpilato
  "name": "David Pilato",
  "jobs" : [
    { "name" : "SRA Europe (SSII)", "date" : "1995" },
    { "name" : "SFR", "date" : "1997" },
    { "name" : "e-Brands / Vivendi", "date": "2000" },
    { "name" : "DGDDI (douane)", "date" : "2005" },
    { "name" : "elastic", "date" : "2013" }
  "motivations": [ "family", "job", "deejay" ],
  "blog" : "http://david.pilato.fr/",
  "twitter" : [ "@dadoonet", "@elasticfr" ],
  "email" : "david@pilato.fr"
```

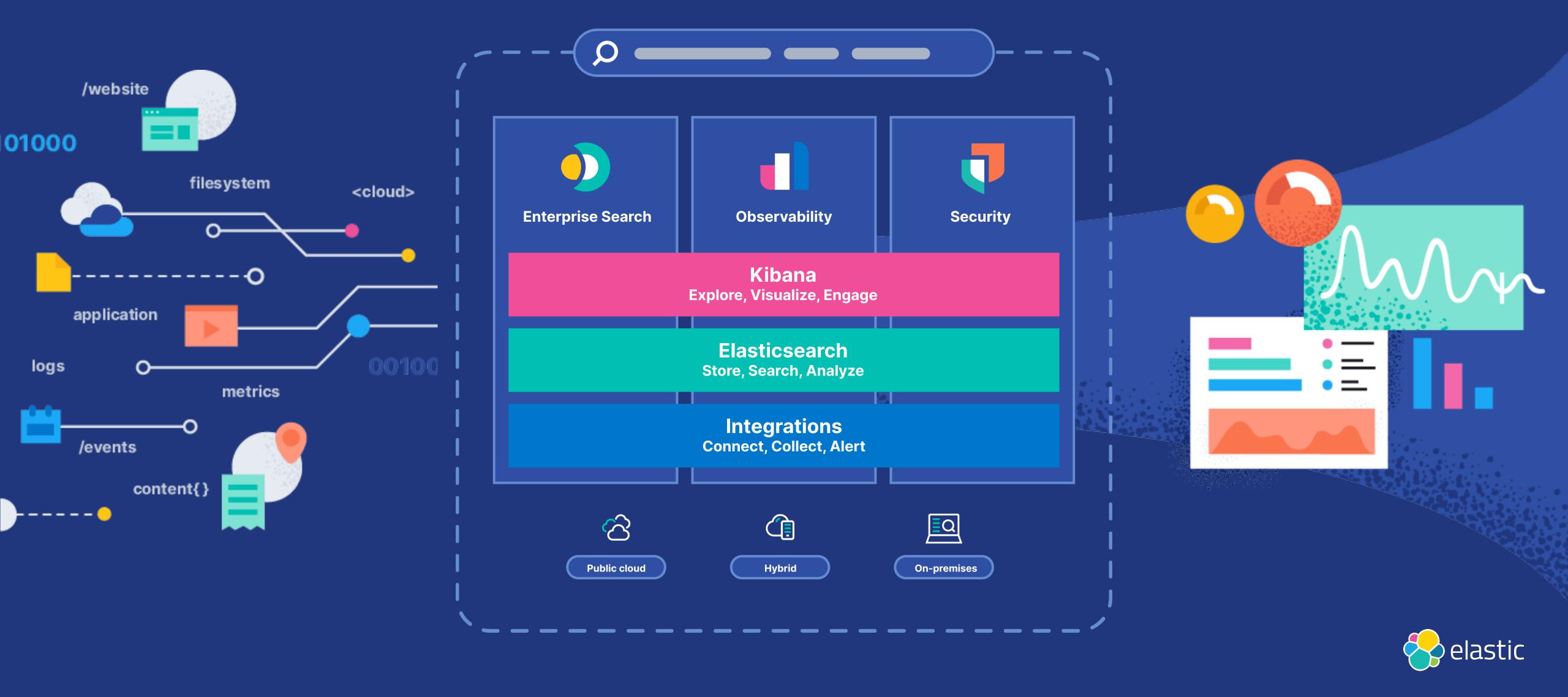


The Elastic Search Platform





The Elastic Search Platform



A typical search implementation...

```
CREATE TABLE user
(
   name VARCHAR(100),
   comments VARCHAR(1000)
);
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
```



Search on term

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
```

```
SELECT * FROM user WHERE name="David";
Empty set (0,00 sec)
```





Search like

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
SELECT * FROM user WHERE name LIKE "%David%";
                 comments
 name
 David Pilato
                 Developer at elastic
 David Gageot
                 Engineer at Doctolib
 David David
                 Who is that guy?
```



Search for terms

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
SELECT * FROM user WHERE name LIKE "%David Pilato%";
                 comments
 name
 David Pilato | Developer at elastic
```



Search with inverted terms

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');

SELECT * FROM user WHERE name LIKE "%Pilato David%";
Empty set (0,00 sec)
SELECT * FROM user WHERE name LIKE "%Pilato%David%";
Empty set (0,00 sec)
```



Search for terms

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that quy?');
SELECT * FROM user WHERE name LIKE "%David%" AND
                         name LIKE "%Pilato%";
                 comments
  name
 David Pilato | Developer at elastic
```



Search in two fields

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
SELECT * FROM user WHERE name LIKE "%David%" OR
                         comments LIKE "%David%";
                 comments
  name
  David Pilato
                 Developer at elastic
                 Worked with David at french customs service
 Malloum Laya
  David Gageot
                 Engineer at Doctolib
                 Who is that guy?
  David David
```





Search with typos

Empty set (0,00 sec)

```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
SELECT * FROM user WHERE name LIKE "%Dadid%";
```



Search with typos

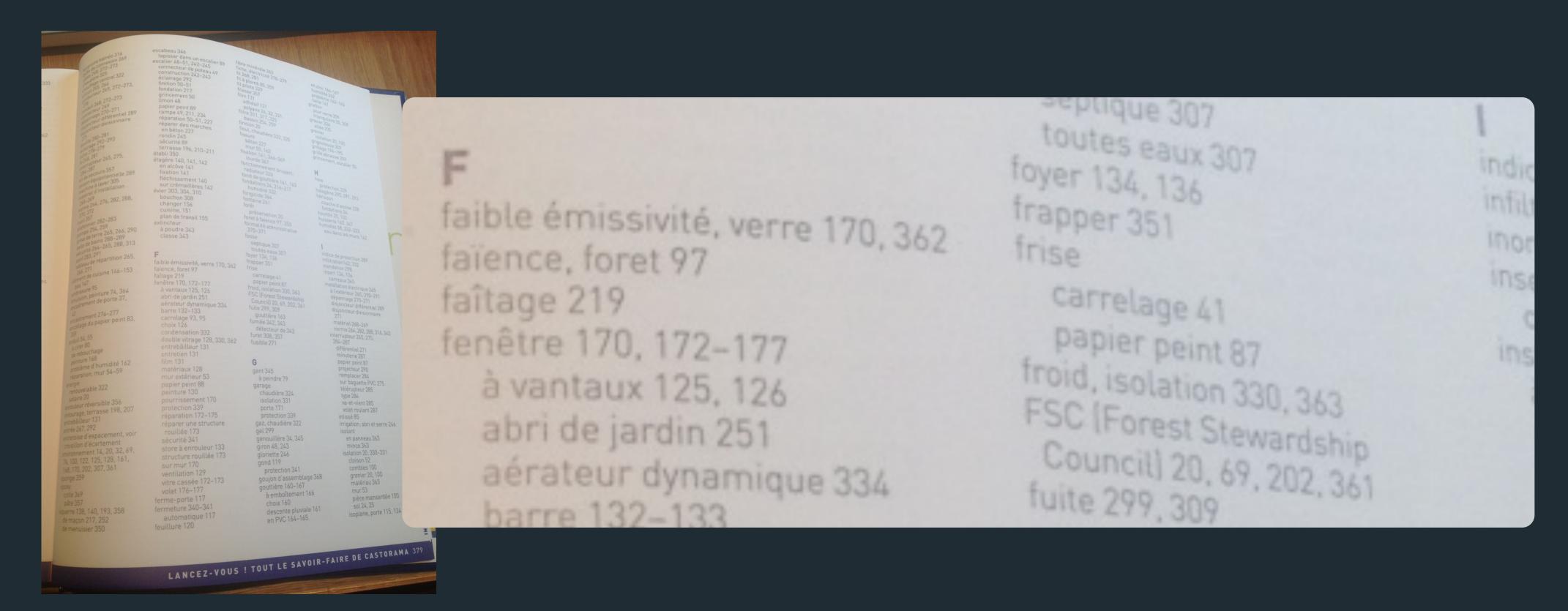
```
INSERT INTO user VALUES ('David Pilato', 'Developer at elastic');
INSERT INTO user VALUES ('Malloum Laya', 'Worked with David at
french customs service');
INSERT INTO user VALUES ('David Gageot', 'Engineer at Doctolib');
INSERT INTO user VALUES ('David David', 'Who is that guy?');
SELECT * FROM user WHERE name LIKE "% adid%" OR
                         name LIKE "%D did%" OR
                         name LIKE "%Da id%" OR
                         name LIKE "%Dad d%" OR
                         name LIKE "%Dadi %";
                 comments
  name
  David Pilato
                 Developer at elastic
                 Engineer at Doctolib
  David Gageot
 David David
                 Who is that guy?
```





What is a search engine?

Index engine (indexing documents)



Search engine (within the created indices)



Demo time!









