Elastic Stack Overview

Search. Observe. Protect.

```
$ 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" : "https://david.pilato.fr/",
  "twitter" : [ "@dadoonet", "@elasticfr" ],
  "email" : "david@pilato.fr"
}
```

elastic

The Elastic Search Platform

elastic

Elastic pricing

The best way to consume Elastic is Elastic Cloud, a public cloud managed service available on major cloud providers. Customers who want to manage the software themselves, whether on public, private, or hybrid cloud, can download the Elastic Stack.

Try free | Estimate your costs

Standard

A great place to start

- Core Elastic Stack features, including security
- Kibana Lens, Elastic Maps, and Canvas
- Alerting and in-stack Actions

SECURITY

- Alerting including detection engine and prebuilt rules for SIEM and endpoint

Gold

Everything in Standard plus:

- Reporting
- Third-party Alerting Actions
- Watcher[2]
- Multi-stack monitoring

SECURITY

- Optimized workflows including third-party incident response workflows

Platinum

Everything in Gold plus:

- Advanced Elastic Stack security features
- Machine learning - anomaly detection, supervised learning, 3rd-party model management
- Cross-cluster replication

SECURITY

- Machine learning anomaly detection and prebuilt jobs for SIEM

Enterprise

Everything in Platinum plus:

- Searchable snapshots
- Support for searchable cold and frozen tiers
- Elastic Maps Server

SECURITY

- Searchable snapshots for longer retention of security-related data

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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?');
```

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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)
```

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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%";
+--------------+----------------------+
| name         | comments             |
+--------------+----------------------+
| David Pilato | Developer at elastic |
| David Gageot | Engineer at Doctolib |
| David David  | Who is that guy?     |
+--------------+----------------------+
```

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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%";
+--------------+----------------------+
| name         | comments             |
+--------------+----------------------+
| David Pilato | Developer at elastic |
+--------------+----------------------+
```

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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)
```

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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%" AND
                         name LIKE "%Pilato%";
+--------------+----------------------+
| name         | comments             |
+--------------+----------------------+
| David Pilato | Developer at elastic |
+--------------+----------------------+
```

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%";
+--------------+-----------------------------------------+
| name         | comments                                |
+--------------+-----------------------------------------+
| David Pilato | Developer at elastic                    |
| Malloum Laya | Worked with David at french customs service |
| David Gageot | Engineer at Doctolib                    |
| David David  | Who is that guy?                        |
+--------------+-----------------------------------------+
```

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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 "%Dadid%";
Empty set (0,00 sec)
```

elastic

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_%";
+--------------+----------------------+
| name         | comments             |
+--------------+----------------------+
| David Pilato | Developer at elastic |
| David Gageot | Engineer at Doctolib |
| David David  | Who is that guy?     |
+--------------+----------------------+
```

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User Interface

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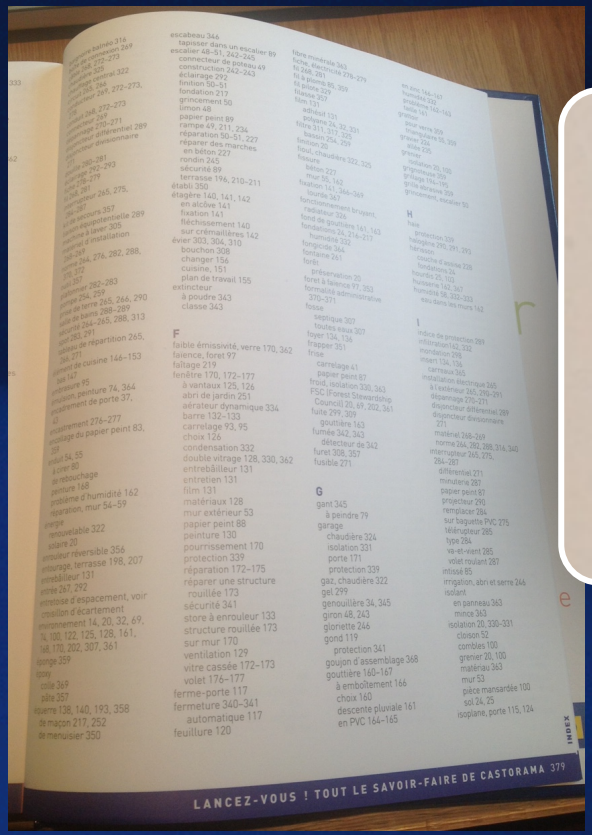
What is a search engine?



- **Index engine** (indexing documents)
- **Search engine** (within the created indices)

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Demo time!

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The Elastic Search Platform

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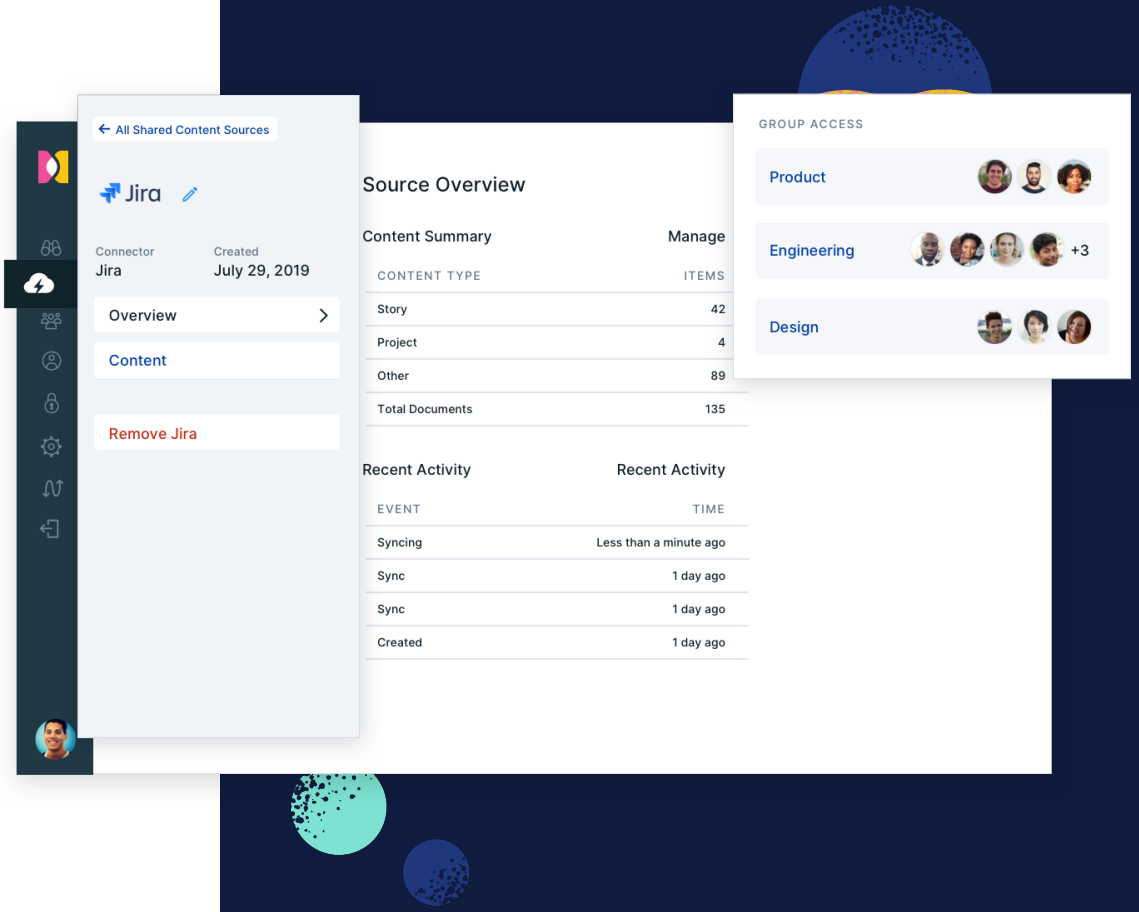
Search

Search everything, anywhere

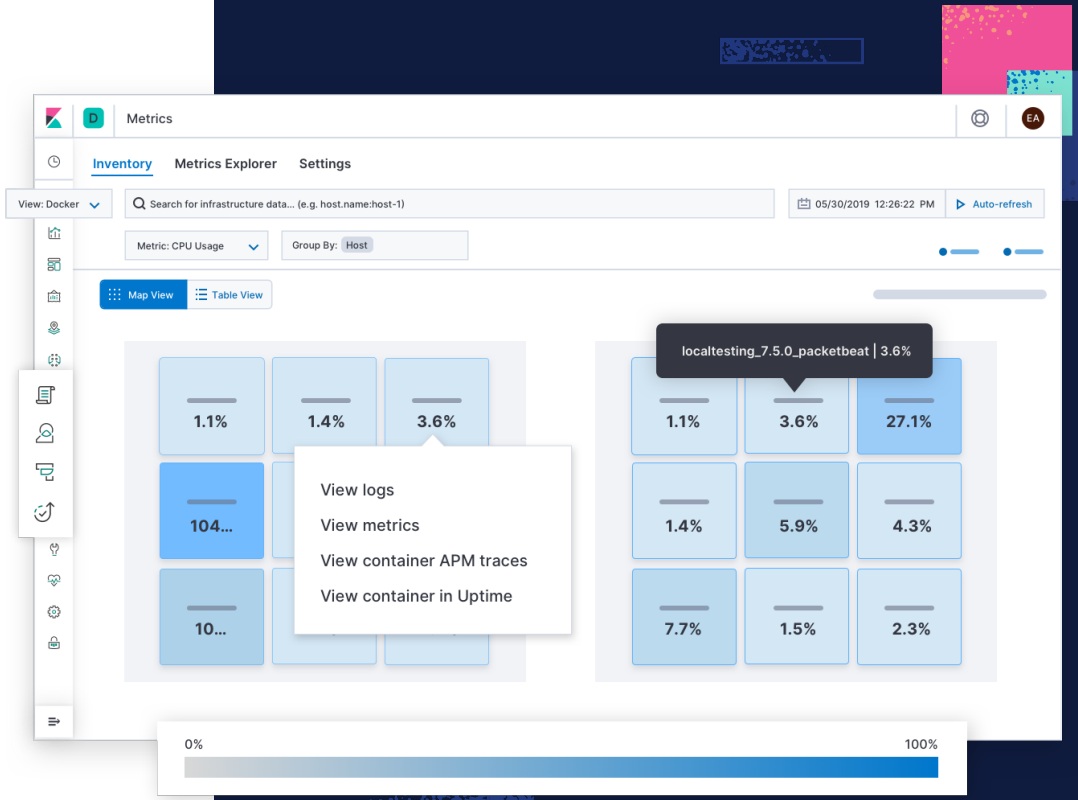
Easily implement powerful, modern search experiences across your website, app, or digital workplace. Search it all, simply.



Observability

Unified visibility across your entire ecosystem

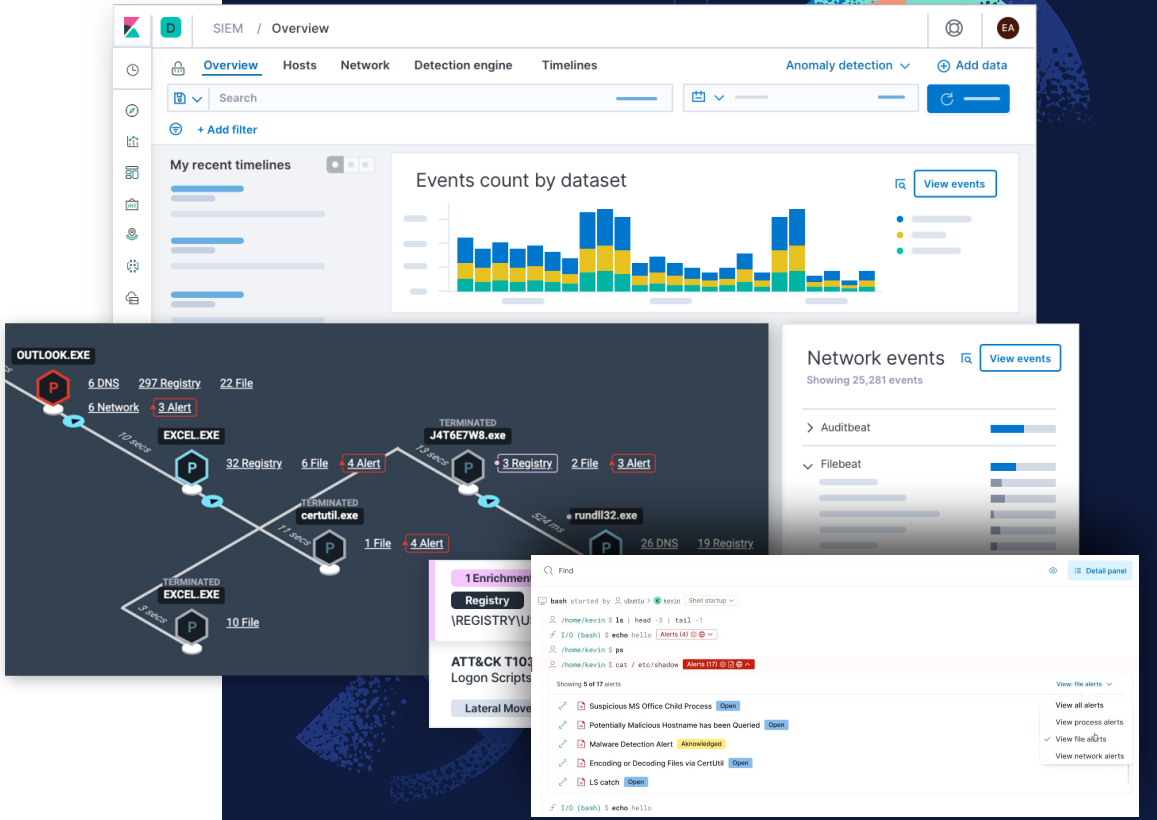
Bring your logs, metrics, and traces together into a single stack so you can monitor, detect, and react to events with speed.



Security

Security how it should be: open

Elastic Security integrates endpoint security and SIEM to give you prevention, collection, detection, and response capabilities for unified protection across your infrastructure.

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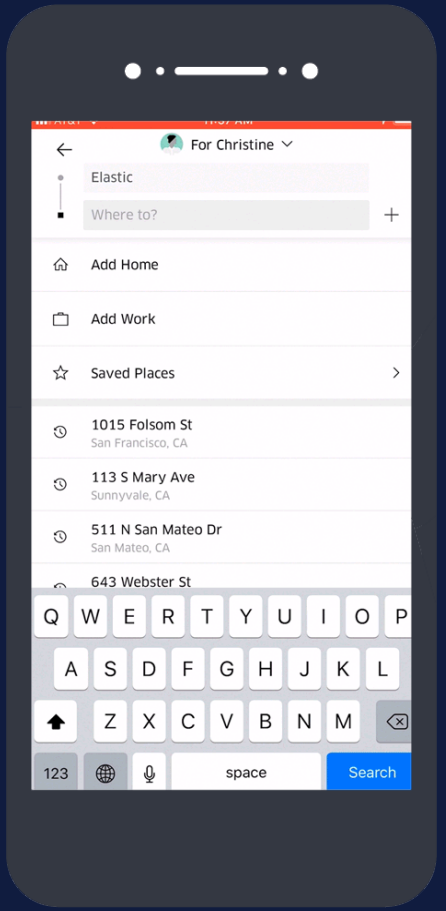
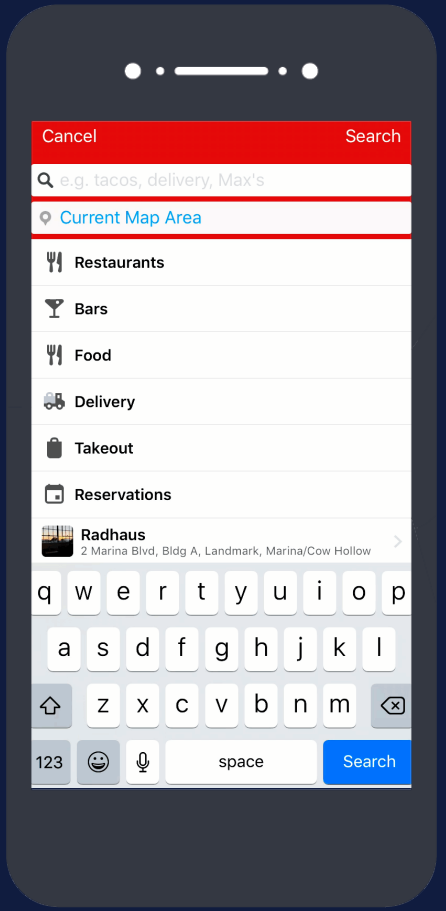
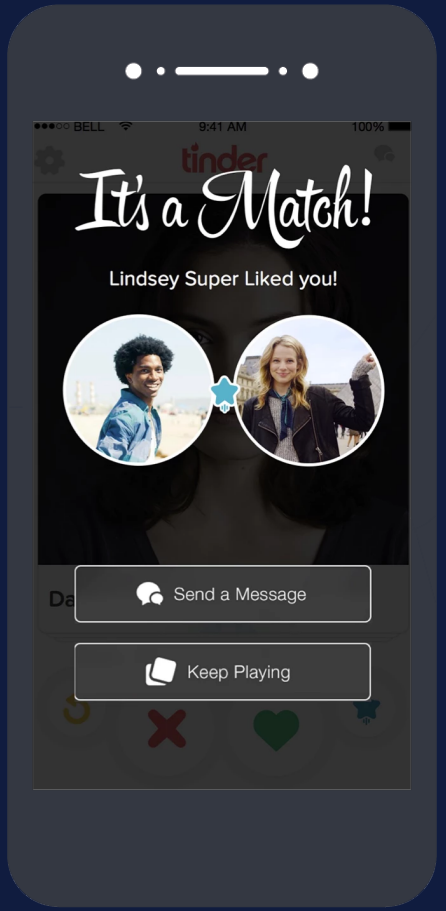
Searching for **Rides**



Searching for **Restaurants**



Searching for **Love**

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elastic User Group

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