



elastic

The Search
AI Company

BBL at



Université
de Limoges



```
$ curl -XPOST https://localhost:9200/speaker/_doc -d '{
  "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" ],
  "bluesky" : [ "@pilato.fr" ],
  "email" : "david@elastic.co"
}' -H 'Content-Type: application/json'
```

So Many New Features One Search AI Platform

Build Your Own



Elasticsearch

Out-of-the-Box Solutions



Observability



Security

Search AI Platform



Ingest



Process



Storage &
Replication



Search



AI & ML
Analysis



Visualization



Workflow
Automation

Search AI Lake

start-local

Elasticsearch — the most widely deployed vector database

Copy to try locally in two minutes

```
curl -fsSL https://elastic.co/start-local | sh
```



[Read docs](#) →

OR

Deploy for production

[Start free cloud trial](#)

Or, [download on-prem](#)

Elastic pricing

The best way to consume Elastic is Elastic Cloud, a public cloud managed service. Elastic Cloud is available on your preferred cloud provider — AWS, Azure, or Google Cloud. Customers who want to manage the software themselves, whether on public, private, or hybrid cloud, can download the Elastic Stack.

[Start free trial](#)[Estimate costs →](#)

Standard

As low as
\$95 per month¹

[Try free](#)

A great place to start

- ✓ Core Elastic Stack features, including security
- ✓ Discover, field statistics, Kibana Lens, Elastic Maps, and Canvas
- ✓ Alerting and in-stack action

Gold

As low as
\$109 per month¹

[Try free](#)

Everything in Standard plus:

- ✓ Reporting
- ✓ Third-party alerting actions
- ✓ Watcher
- ✓ Multi-stack monitoring

Platinum

As low as
\$125 per month¹

[Try free](#)

Everything in Gold plus:

- ✓ Advanced Elastic Stack security features
- ✓ Machine learning (ML) – anomaly detection, supervised learning, third-party model management
- ✓ Cross-cluster replication

Enterprise

As low as
\$175 per month¹

[Try free](#)

Everything in Platinum plus:

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

serverless

General purpose

Best for general search use cases across various data types.

[Try for free](#)

Vector search

Best for semantic search use cases using vectors with near-real-time retrieval.

[Try for free](#)

Time series

Best for retention and analysis of high volume time series data, such as logs of other data streams.

Coming soon

Ingest Ingest VCUs for indexing data	\$0.14 Per VCU-hour	\$0.14 Per VCU-hour	Coming soon
Search Search VCUs for querying data	\$0.09 Per VCU-hour	\$0.09 Per VCU-hour	Coming soon
Machine Learning Machine Learning VCUs for trained models and ML jobs	\$0.07 Per VCU-hour	\$0.07 Per VCU-hour	Coming soon
Storage Persistent storage in Search AI Lake	\$0.047 Per GB-month	\$0.047 Per GB-month	Coming soon
Egress Data transfer out of project 50 GB monthly allowance per organization	\$0.05 Per GB	\$0.05 Per GB	Coming soon

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%";
```

name	comments
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%";
```

name	comments
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 guy?');
```

```
SELECT * FROM user WHERE name LIKE "%David%" AND
name LIKE "%Pilato%";
```

name	comments
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%";
```

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?





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)
```



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?



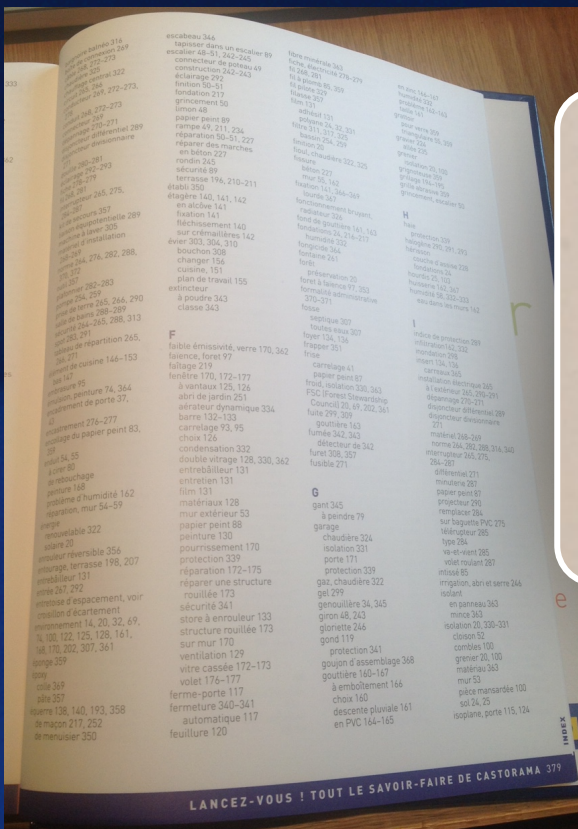


User Interface

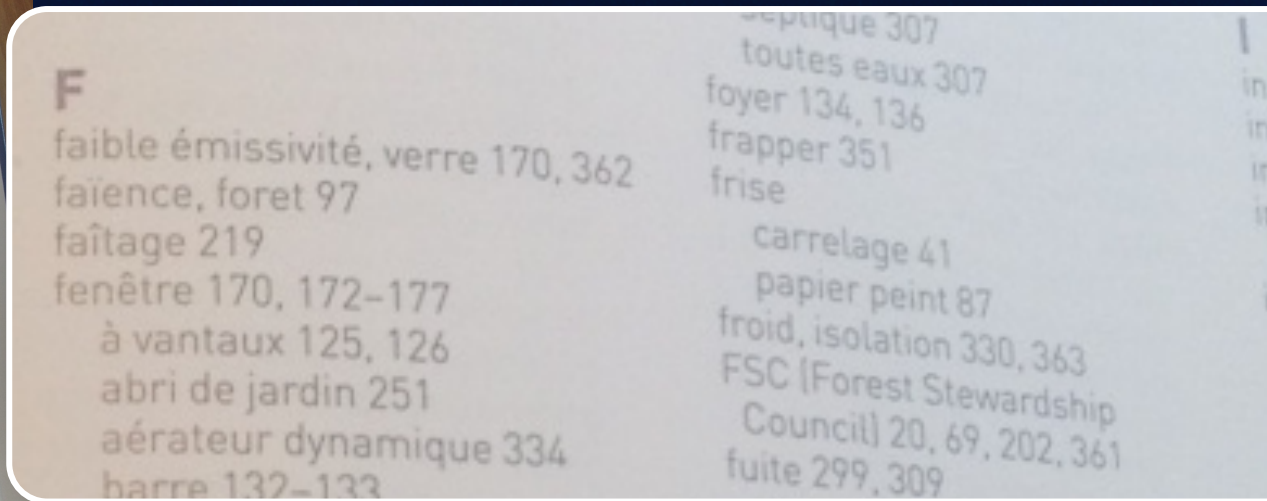
Power Search:

ID Number	<input type="text"/>
Web Title	<input type="text"/>
Url	<input type="text"/>
Category	Select
Web Description	<input type="text"/>
Keywords	<input type="text"/>
Contact Name	<input type="text"/>
Contact Email	<input type="text"/>
Featured Links 🍌	Select ▾
Cool Links 🌟	Select ▾
Bold Links	Select ▾
Icon	<input type="radio"/> ⚠️ <input type="radio"/> 😄 <input type="radio"/> 📄 <input type="radio"/> 📄 <input type="radio"/> ✍️ <input type="radio"/> 🗣️
Rating Average ★★★★★	Select ▾
Number of Votes	between <input type="text"/> and <input type="text"/>
Total Hits	between <input type="text"/> and <input type="text"/>
Hits Today	between <input type="text"/> and <input type="text"/>
IP Address	<input type="text"/>
Submission Software Name	<input type="text"/>

What is a search engine?



- Index engine (indexing documents)



- Search engine (within the created indices)



Demo time!



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Elasticsearch

Out-of-the-Box Solutions



Observability



Security

Search AI Platform



Ingest



Process



Storage &
Replication



Search



AI & ML
Analysis



Visualization



Workflow
Automation

Search AI Lake



www.meetup.com/ElasticFR



@elasticfr



discuss.elastic.co



Thank You

