



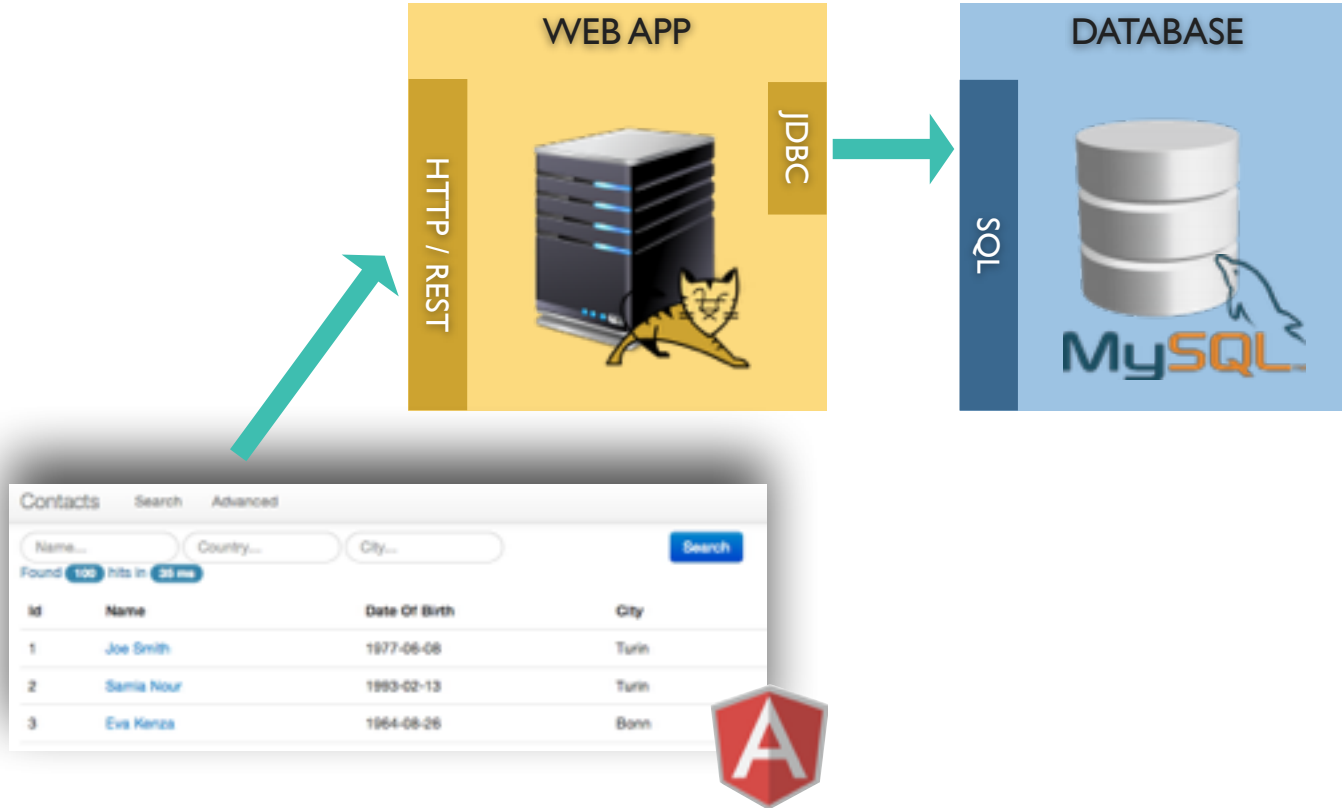
David Pilato
Developer | Evangelist
@dadoonet

Advanced search for your legacy application

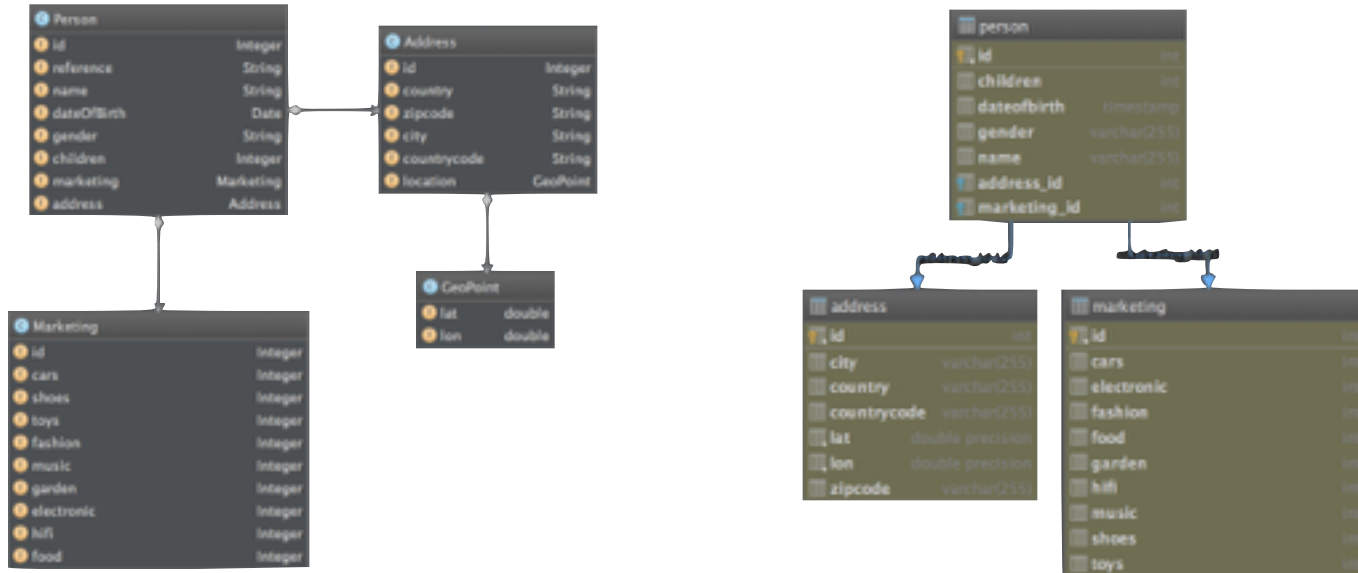




our legacy platform



our legacy domain / database



demo time

our legacy application



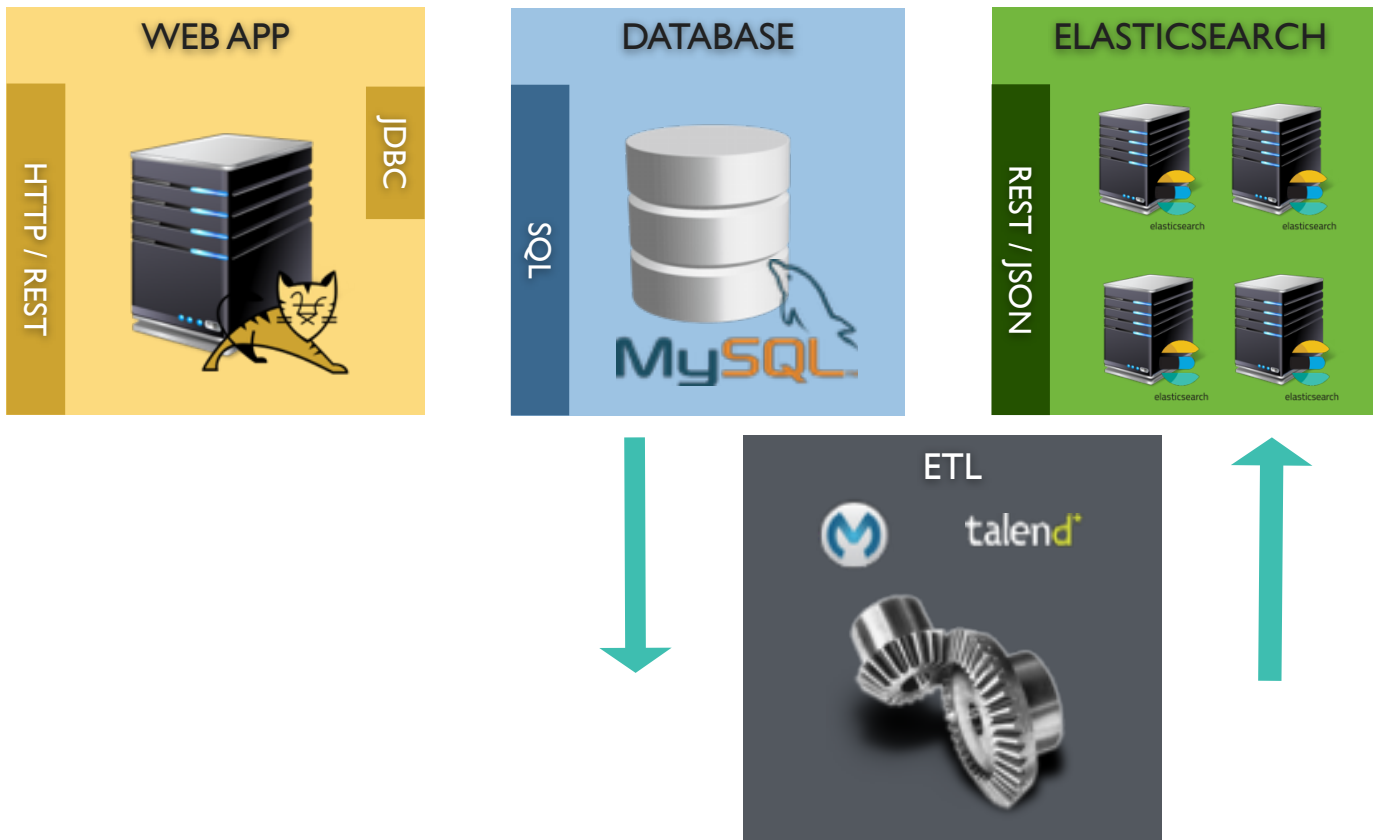
```
$ git clone https://github.com/dadoonet/legacy-search.git  
$ git checkout 00-legacy  
$ mvn clean install jetty:run
```



Connecting with our app Architecture



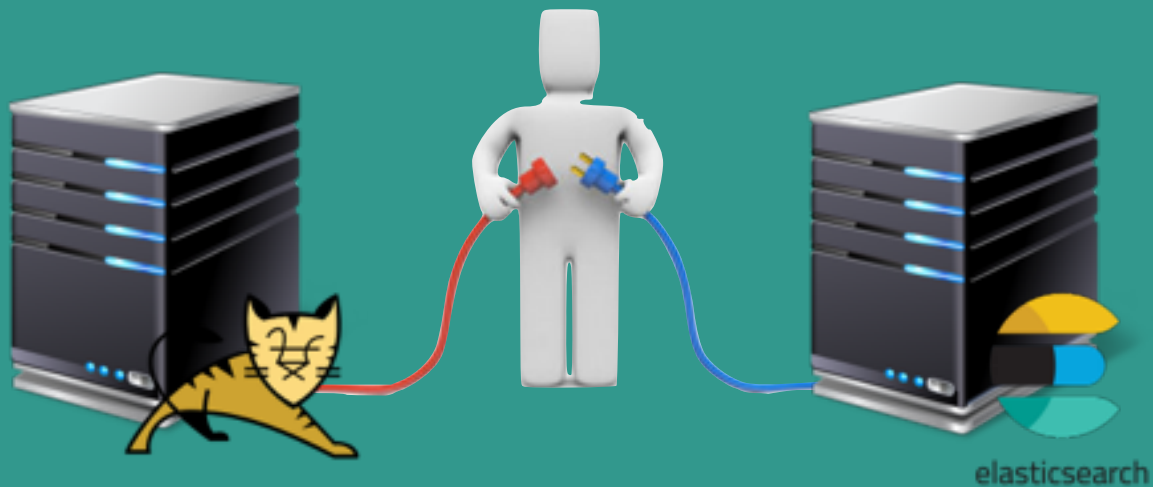
using a ETL



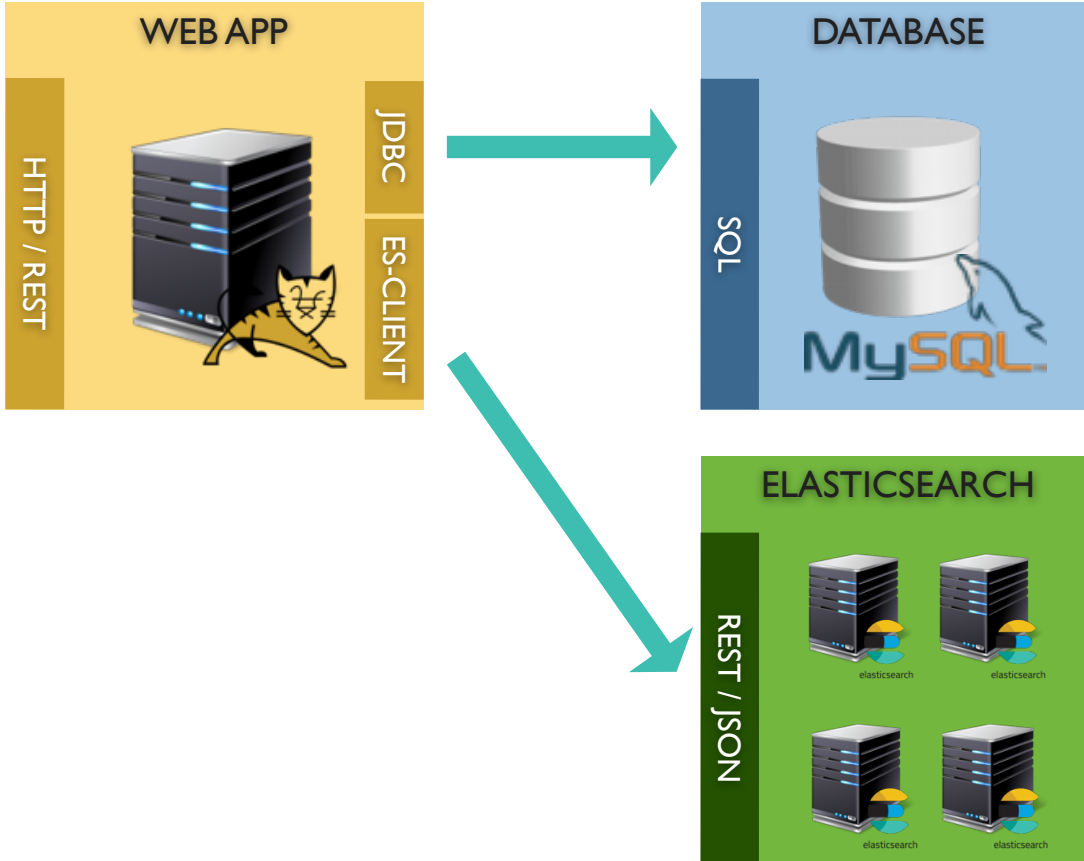
**ROAD
ENDS IN
WATER**



Do It Yourself Direct Connection



direct connection





JSON document design

person	
id	int
children	int
dateofbirth	timestamp
gender	varchar(255)
name	varchar(255)
address_id	int
marketing_id	int

address	
id	int
city	varchar(255)
country	varchar(255)
countrycode	varchar(255)
lat	double precision
lon	double precision
zipcode	varchar(255)

marketing	
id	int
cars	int
electronic	int
fashion	int
food	int
garden	int
hifi	int
music	int
shoes	int
toys	int

```
PUT /person/person/1
{
  "name":"Joe Pink",
  "dateOfBirth":"1971-12-26",
  "address_id":"2",
  "marketing_id":"3"
}
```

```
PUT /person/address/2
{
  "city":"Paris",
  "country":"France"
}
```

```
PUT /person/marketing/3
{
  "cars":1000,
  "food":1500
}
```



JSON document design

person	
id	int
children	int
dateofbirth	timestamp
gender	varchar(255)
name	varchar(255)
address_id	int
marketing_id	int

address	
id	int
city	varchar(255)
country	varchar(255)
countrycode	varchar(255)
lat	double precision
lon	double precision
zipcode	varchar(255)

marketing	
id	int
cars	int
electronic	int
fashion	int
food	int
garden	int
hifi	int
music	int
shoes	int
toys	int

```
PUT /person/person/1
{
  "name":"Joe Pink",
  "dateOfBirth":"1971-12-26",
  "address":{
    "city":"Paris",
    "country":"France"
  },
  "marketing":{
    "cars":1000,
    "food":1500
  }
}
```

demo time

direct connection

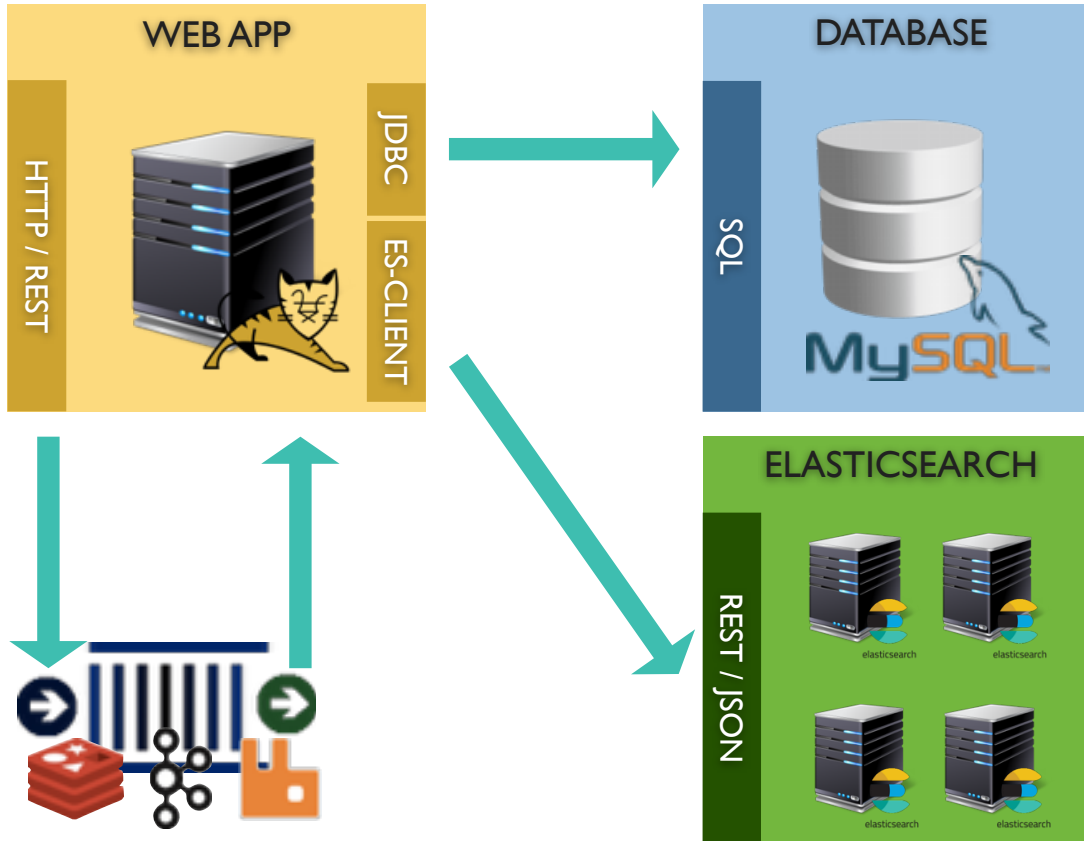


```
$ git checkout 01-direct  
$ git checkout 02-bulk  
$ git checkout 03-mapping  
$ git checkout 04-aggs  
$ git checkout 05-compute  
$ mvn clean install jetty:run  
$ cat README.markdown
```

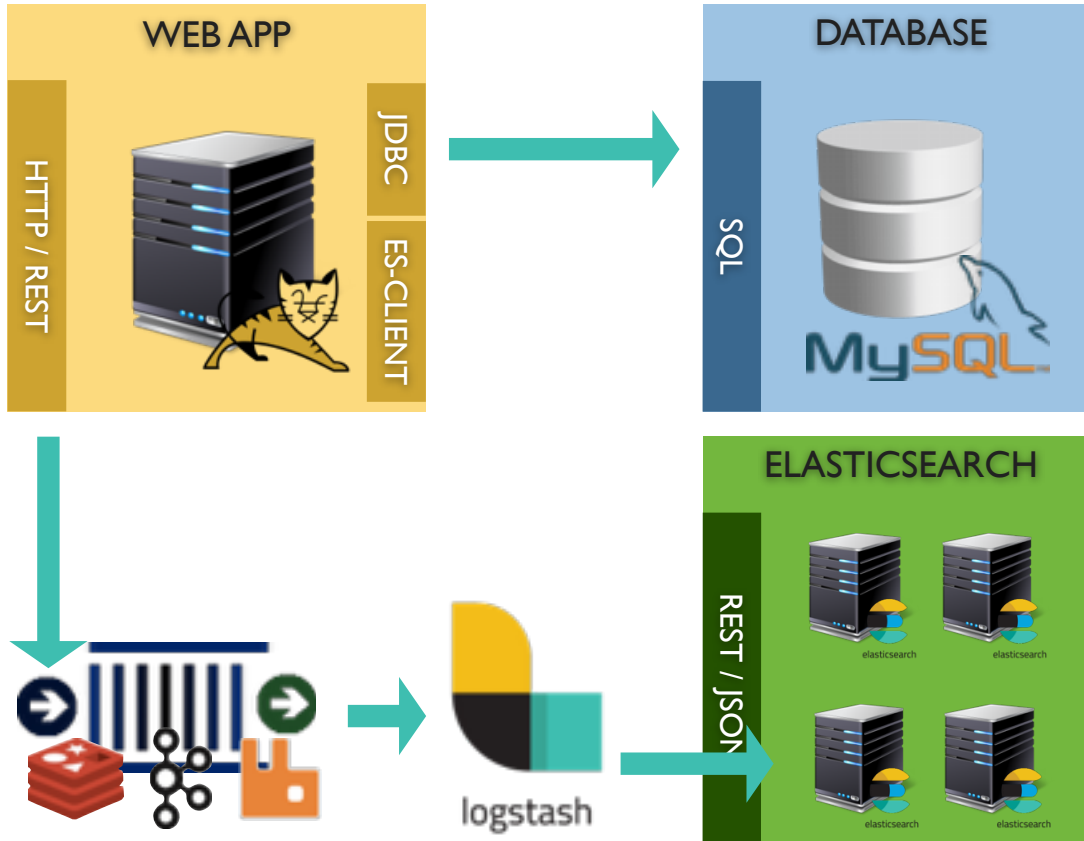


synchronous vs asynchronous

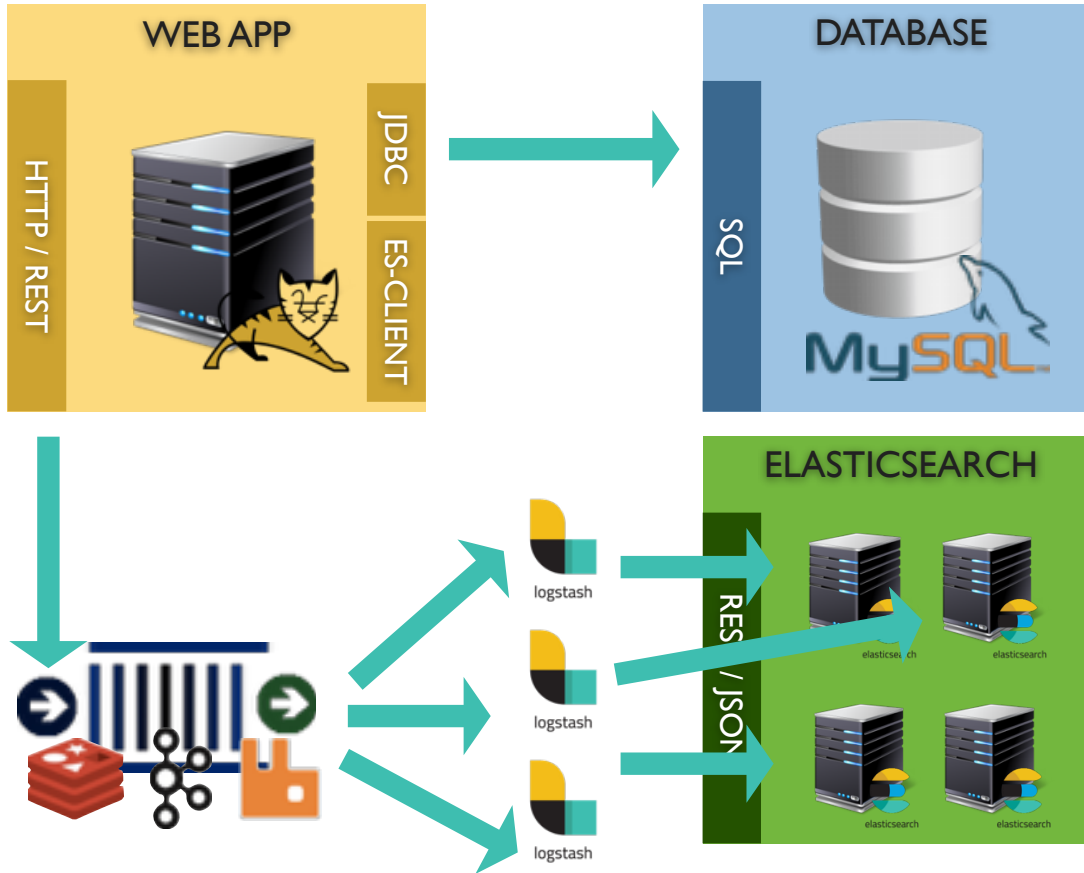
using brokers



using brokers



using brokers



COME TO THE DARK SIDE

WE HAVE COOKIES!



Count

1,000,000

Count

Children

2.001

Average children

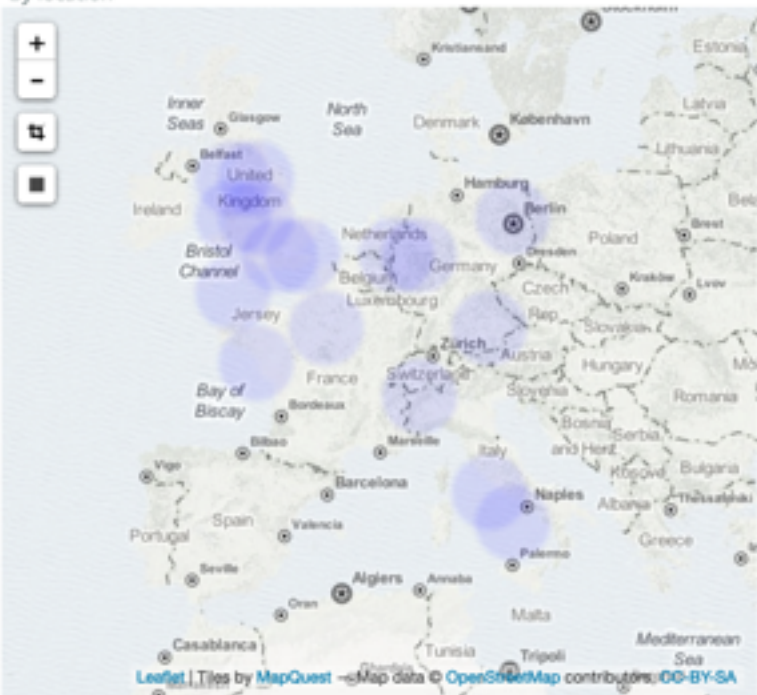
By gender



By date gender and avg children



By location



By country and city



Percentile ranks

23.381%

Percentile rank 500 of "marketing.cars"

48.434%

Percentile rank 1,000 of "marketing.cars"

73.562%

Percentile rank 1,500 of "marketing.cars"

98.531%

Percentile rank 2,000 of "marketing.cars"

- Germany
- France
- Italy
- England
- Bonn
- Munich
- Berlin
- Nantes
- Cergy
- Paris
- Turin
- Rome
- Ischia
- Plymouth

All persons

Time	name	gender	children	address.country	address.city
December 28th 2009, 01:00:00.000	Anouk Sasha	female	1	Italy	Turin
December 28th 2009, 01:00:00.000	Maxime Line	male	2	Germany	Munich



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thanks!

<https://www.elastic.co/subscriptions>