

**David Pilato**

Developer | Evangelist

@dadoonet

# advanced search for your legacy app

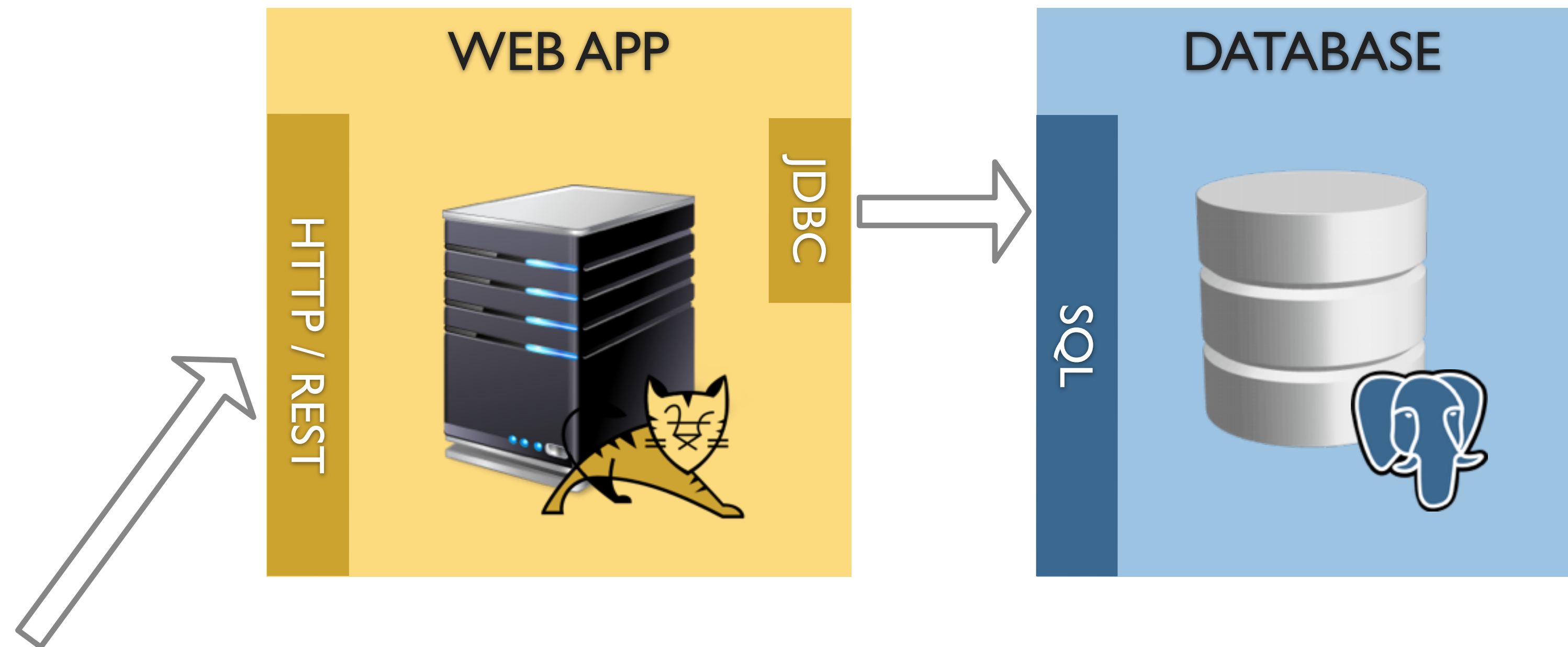
{codemotion}



# our use case



# our legacy platform



Contacts Search Advanced

Name... Country... City... Search

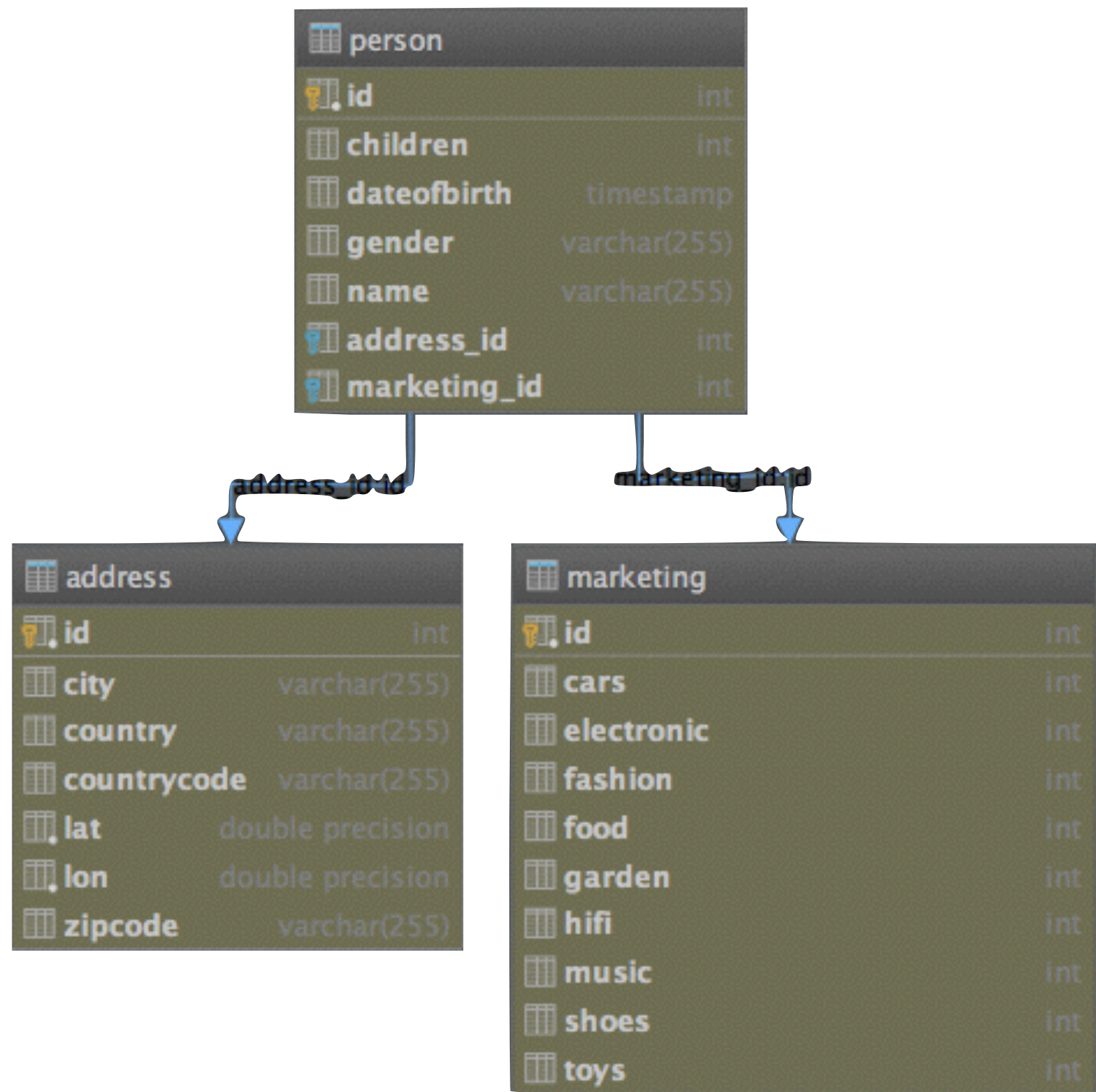
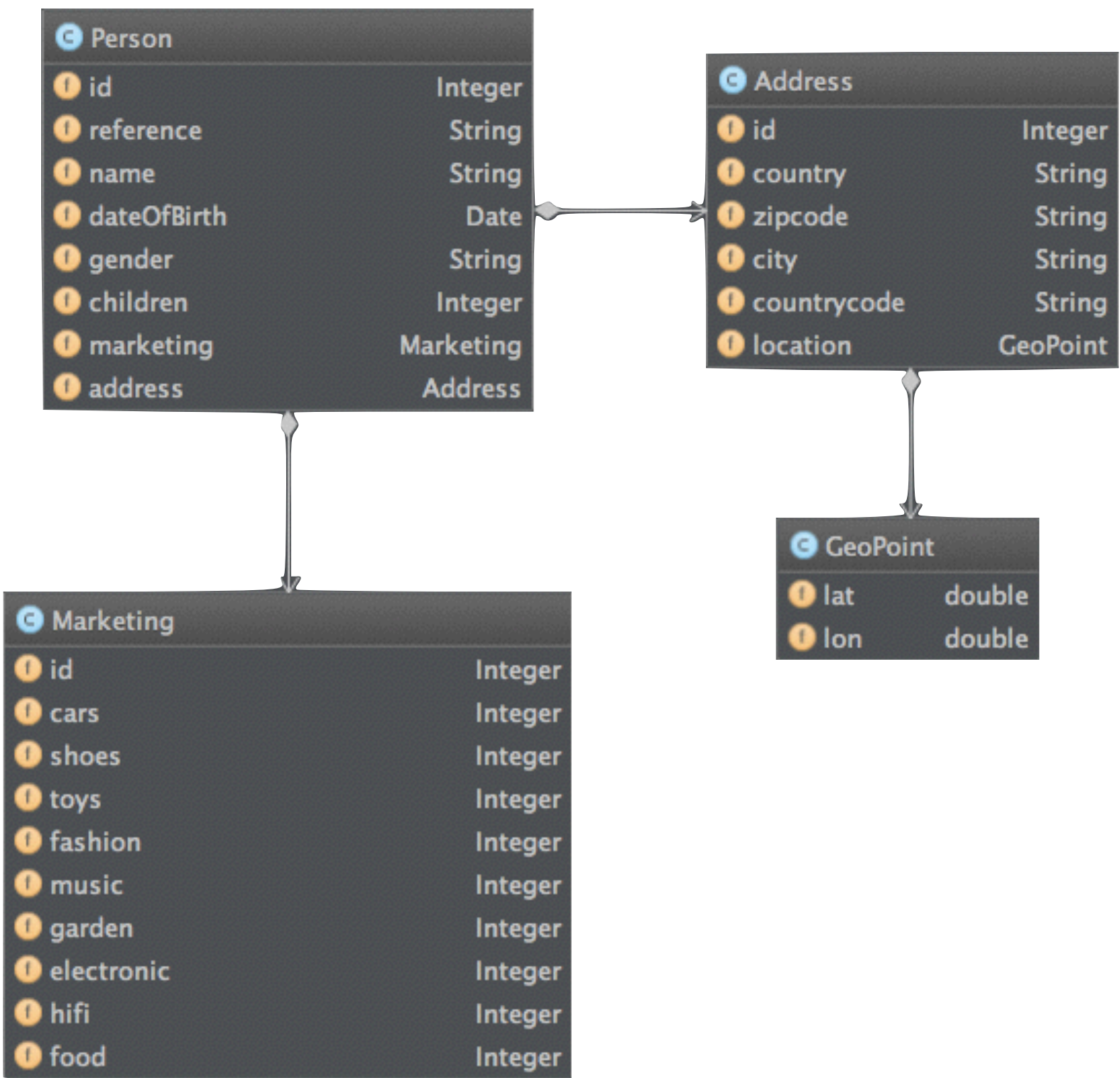
Found 100 hits in 35 ms

Id	Name	Date Of Birth	City
1	Joe Smith	1977-06-08	Turin
2	Samia Nour	1993-02-13	Turin
3	Eva Kenza	1964-08-26	Bonn





# our legacy domain / database



# demo time

## our legacy app



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

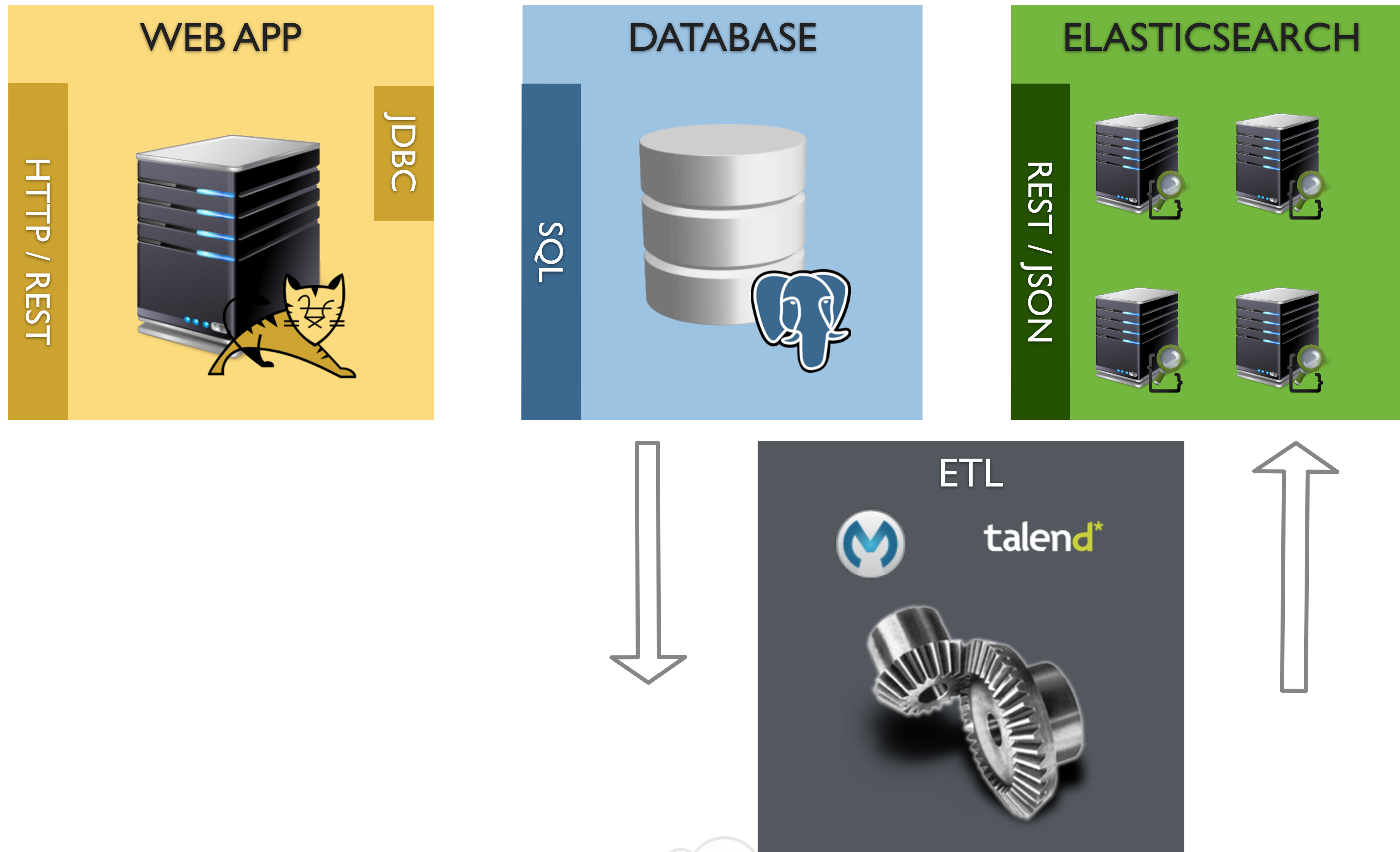


# connecting with our app architecture

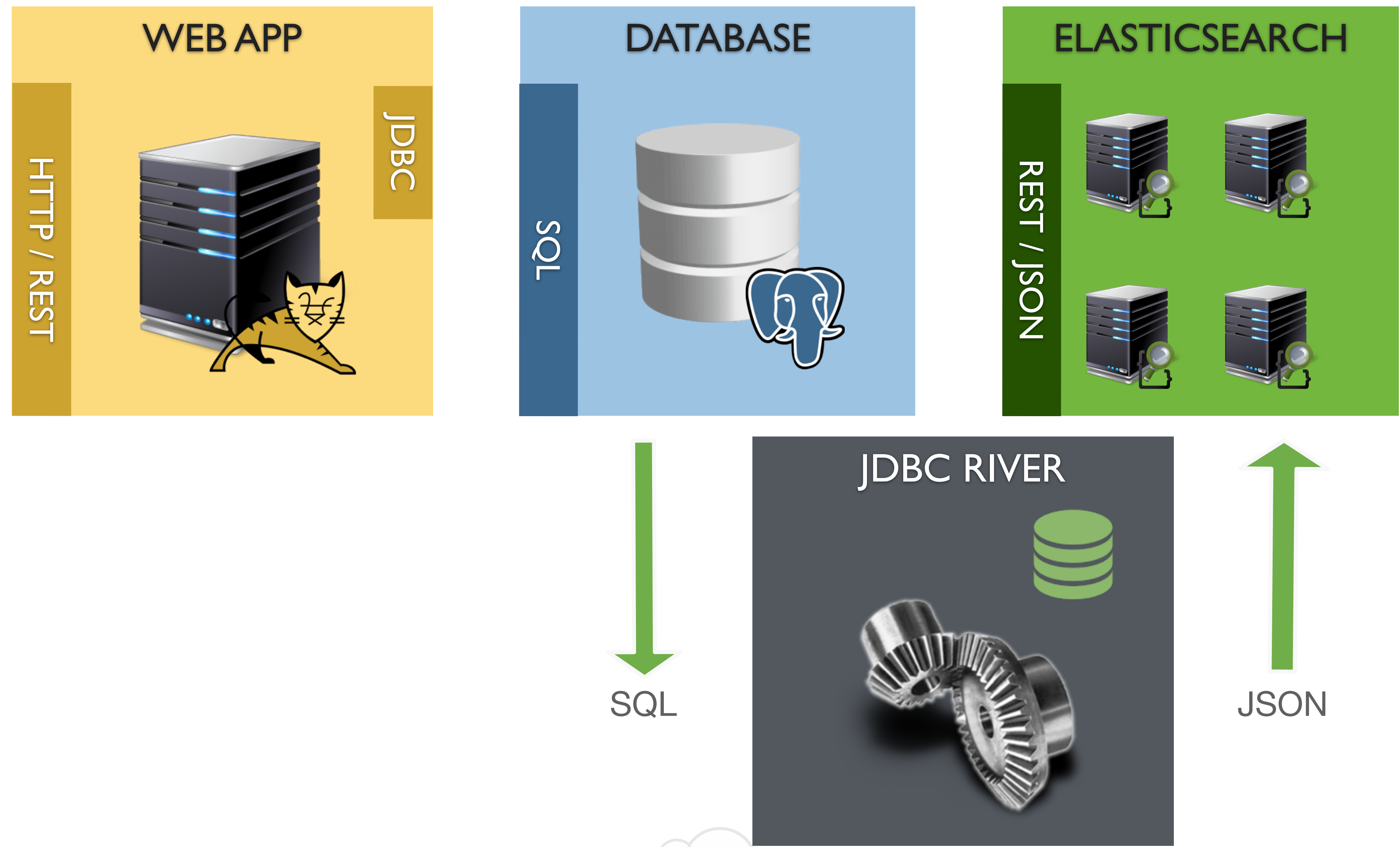




# using a ETL

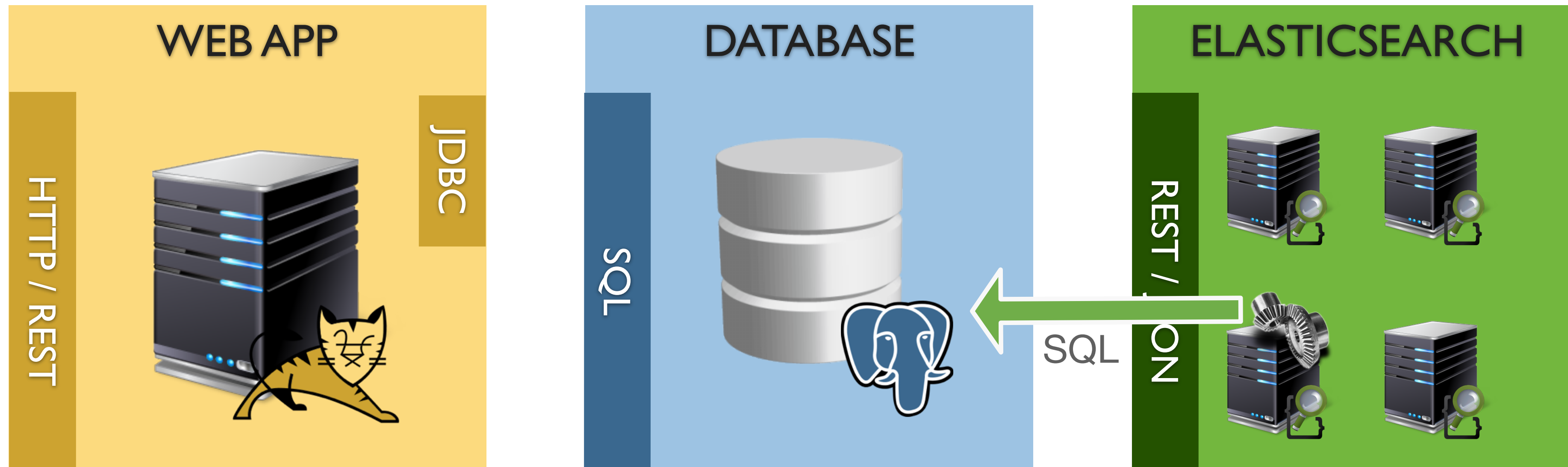


# JDBC river





# JDBC river



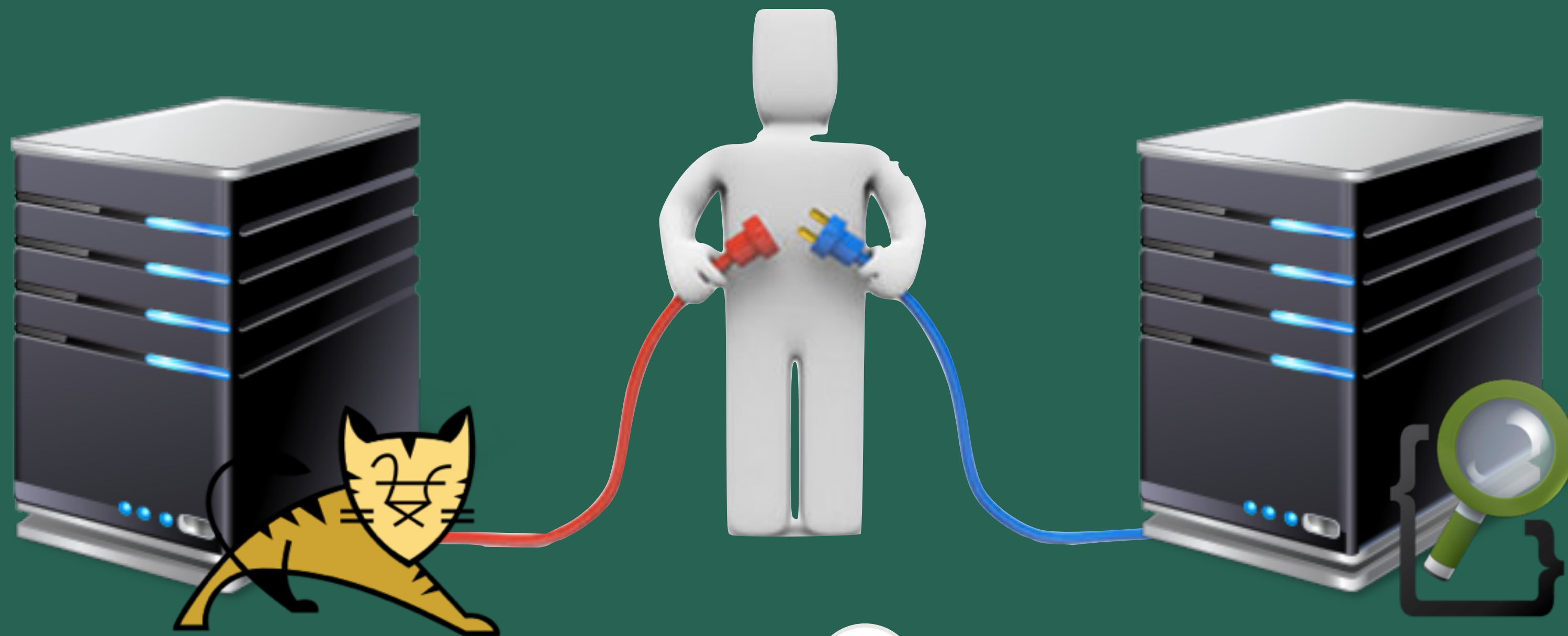






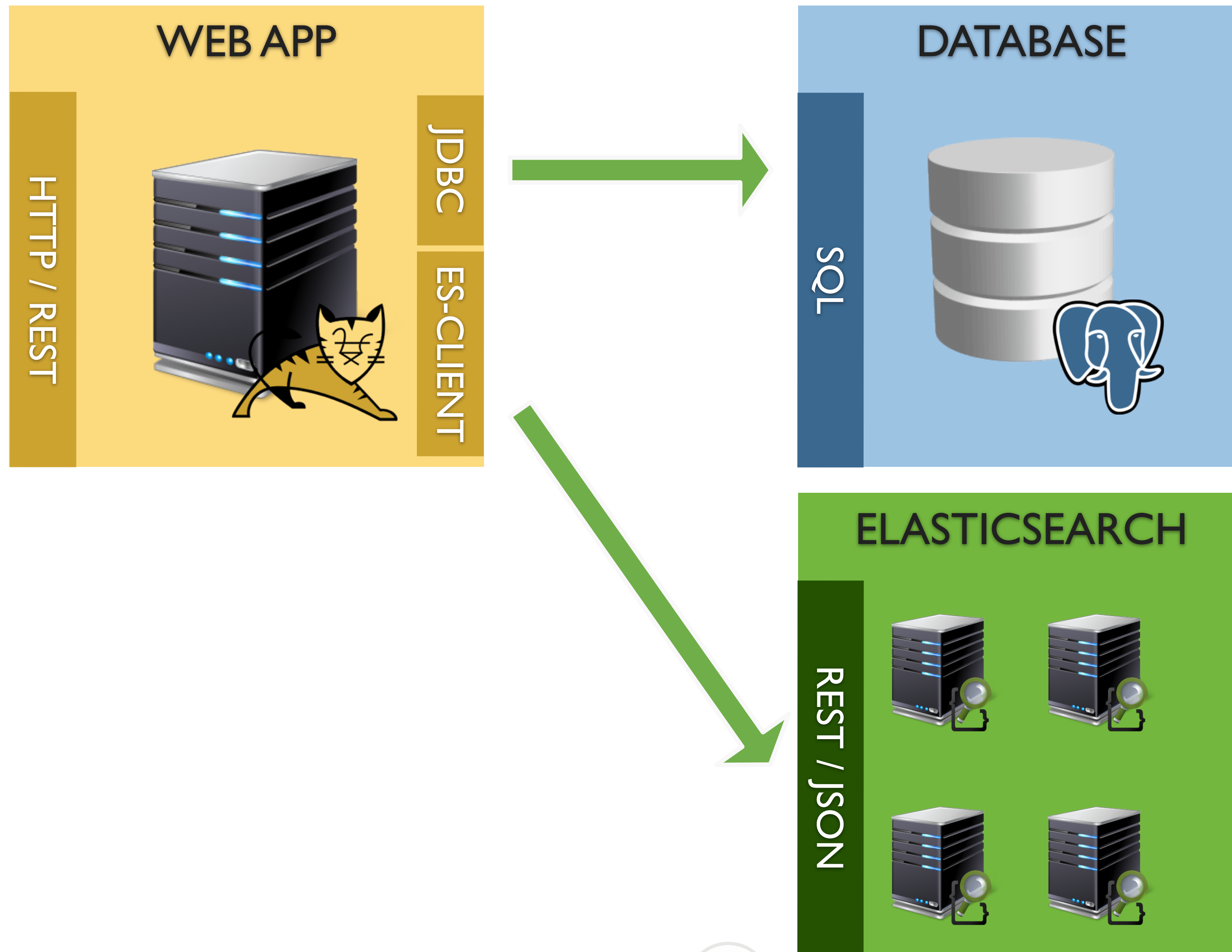
# Do It Yourself

## 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
  }
}
```



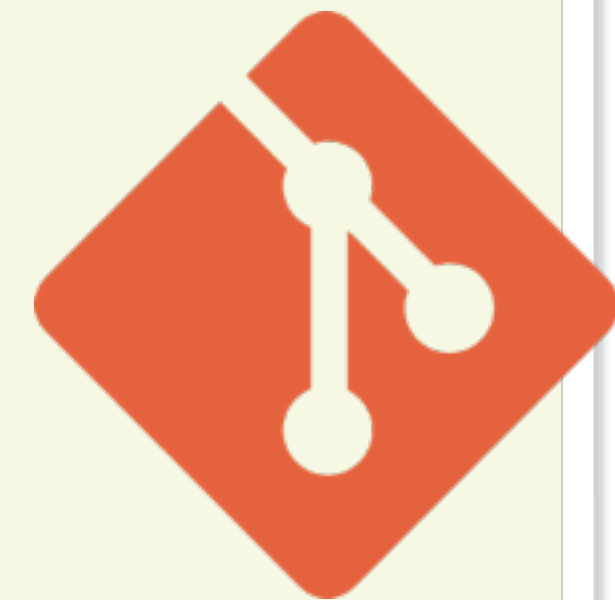


# demo time

# direct connection



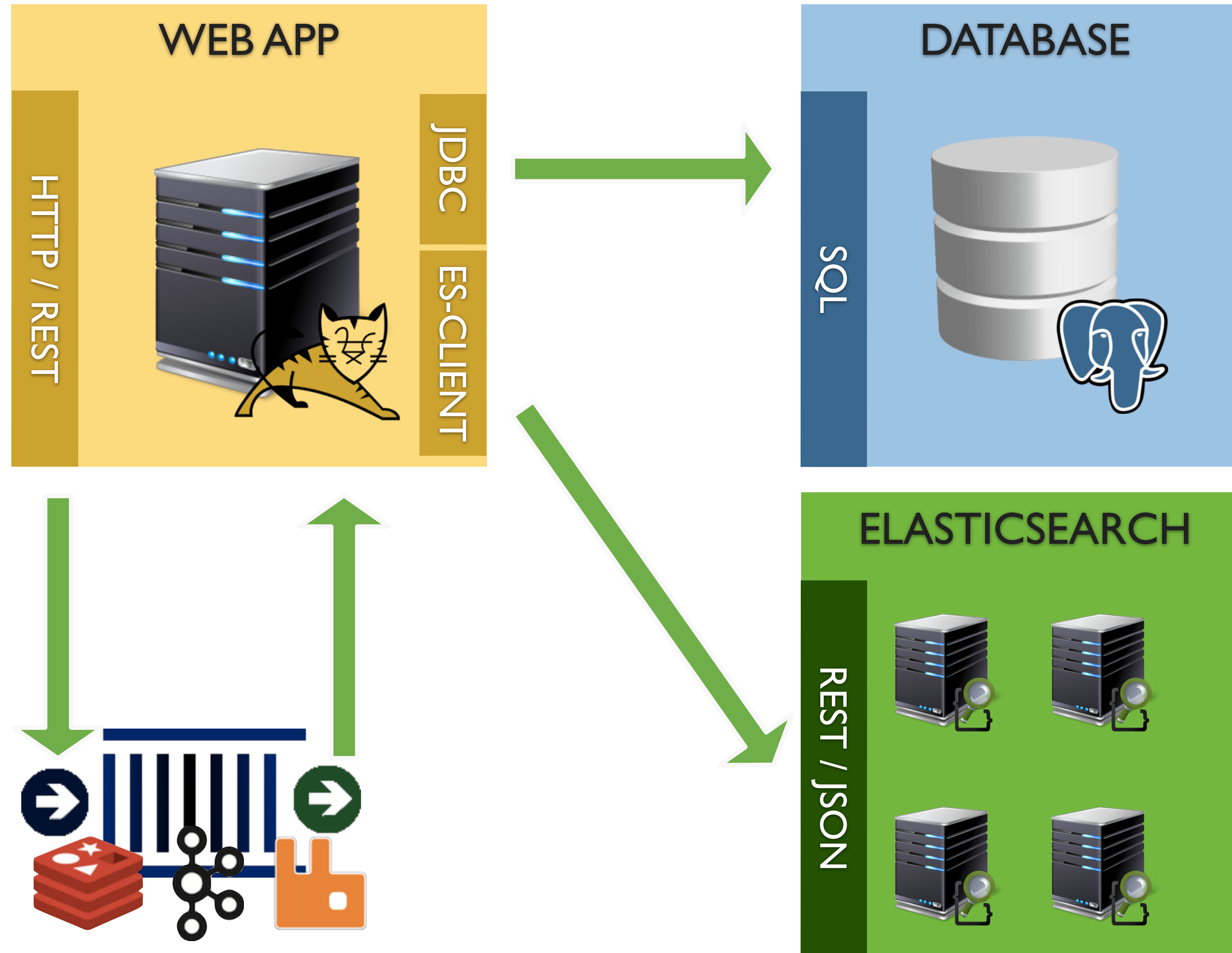
```
$ git checkout 01-direct  
$ git checkout 02-bulk  
$ git checkout 03-mapping  
$ git checkout 04-aggs  
$ git checkout 05-compute  
$ mvn clean install jetty:run  
$ cat README.markdown
```



# synchronous vs asynchronous

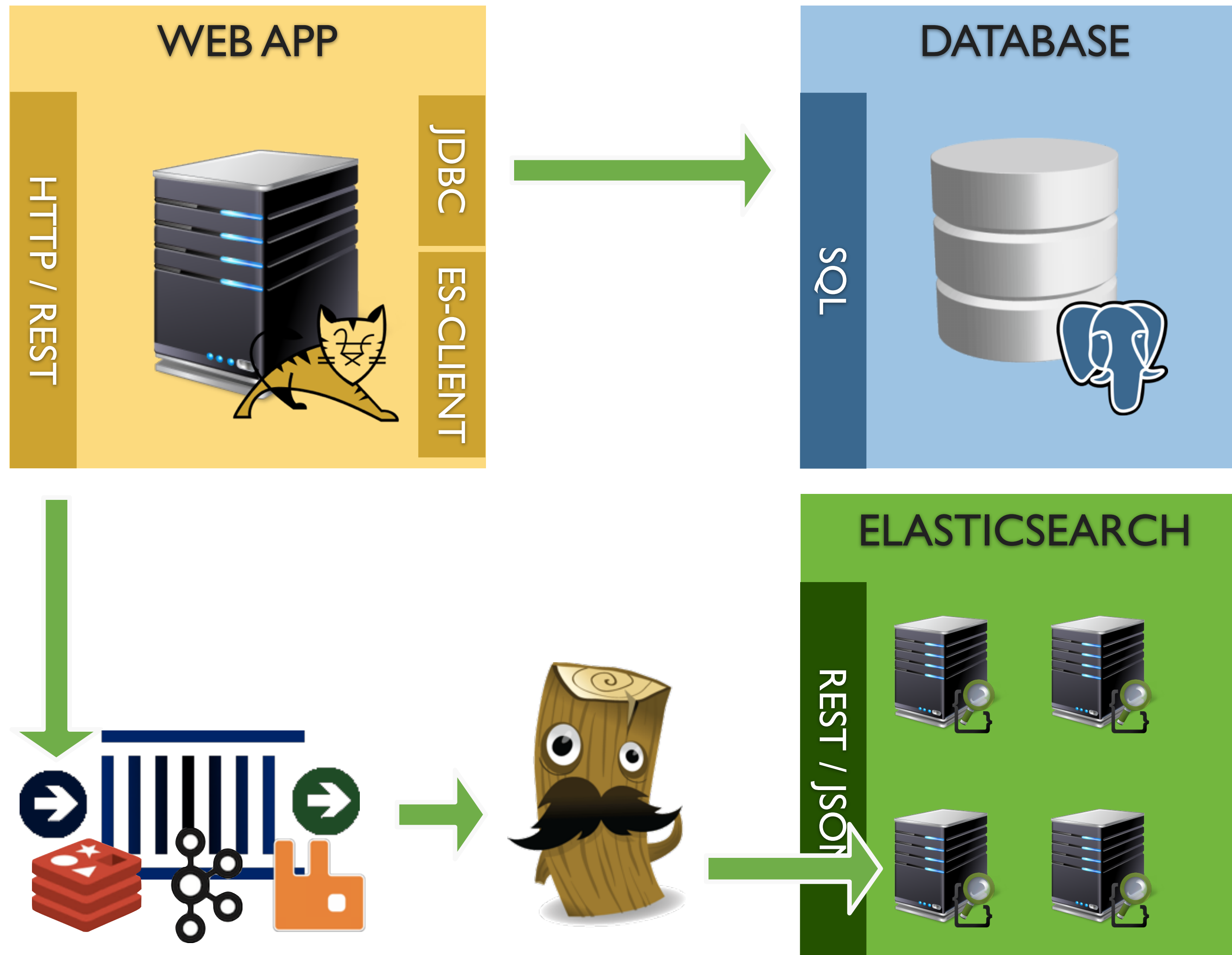


# using brokers

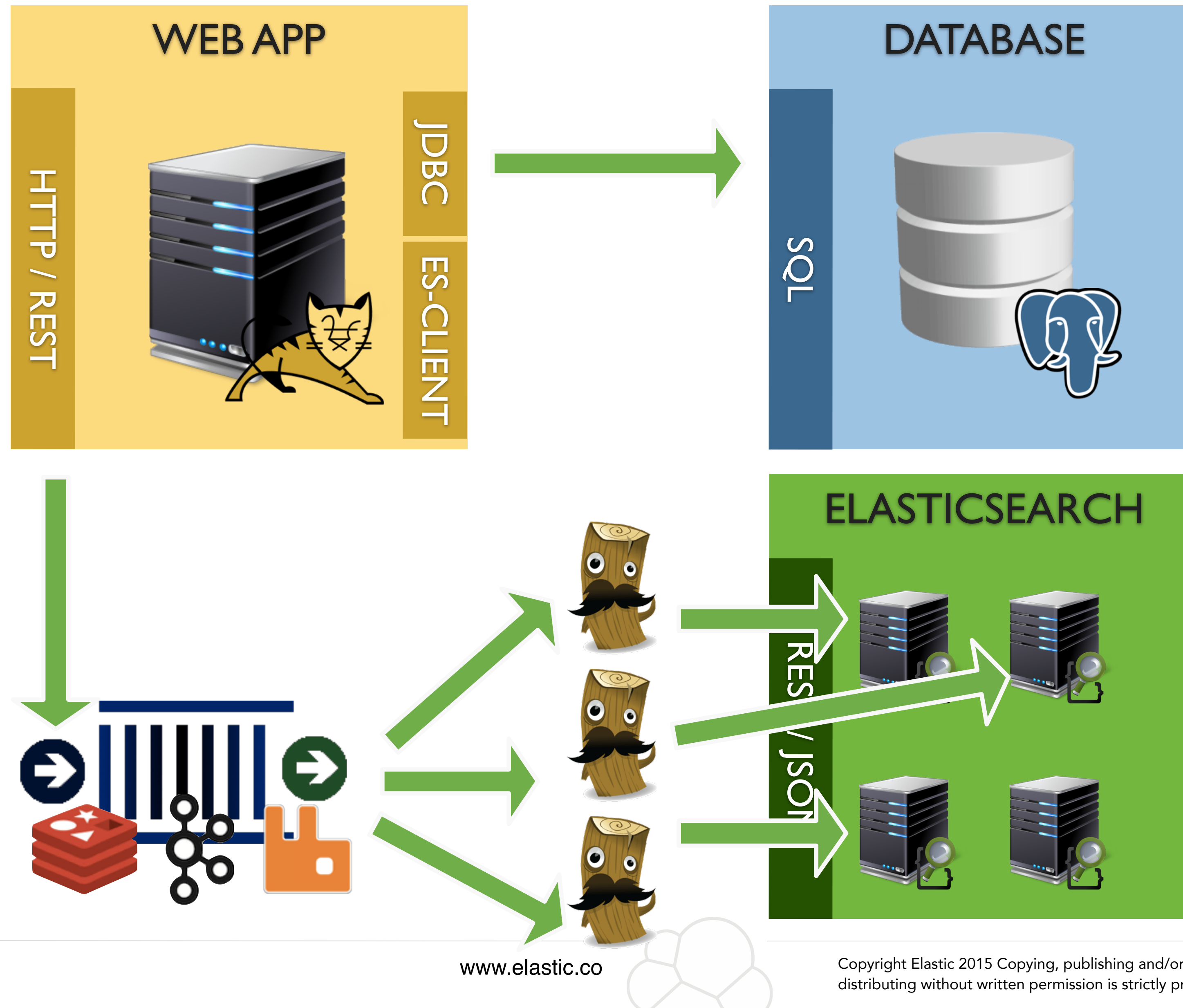




# using brokers



# using brokers





**COME TO THE DARK SIDE**

**WE HAVE COOKIES!**





K4



Help



## Marketing data demo

This demo shows marketing data generated randomly.

Per country and city



Legend

- Italy
- Germany
- France
- England
- Turin
- Ischia

Per gender



Legend

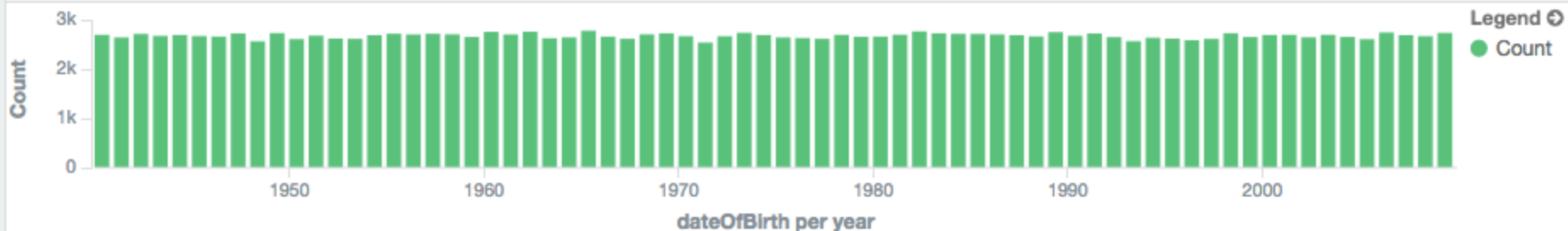
- female
- male

Children AVG

1.995

Average children

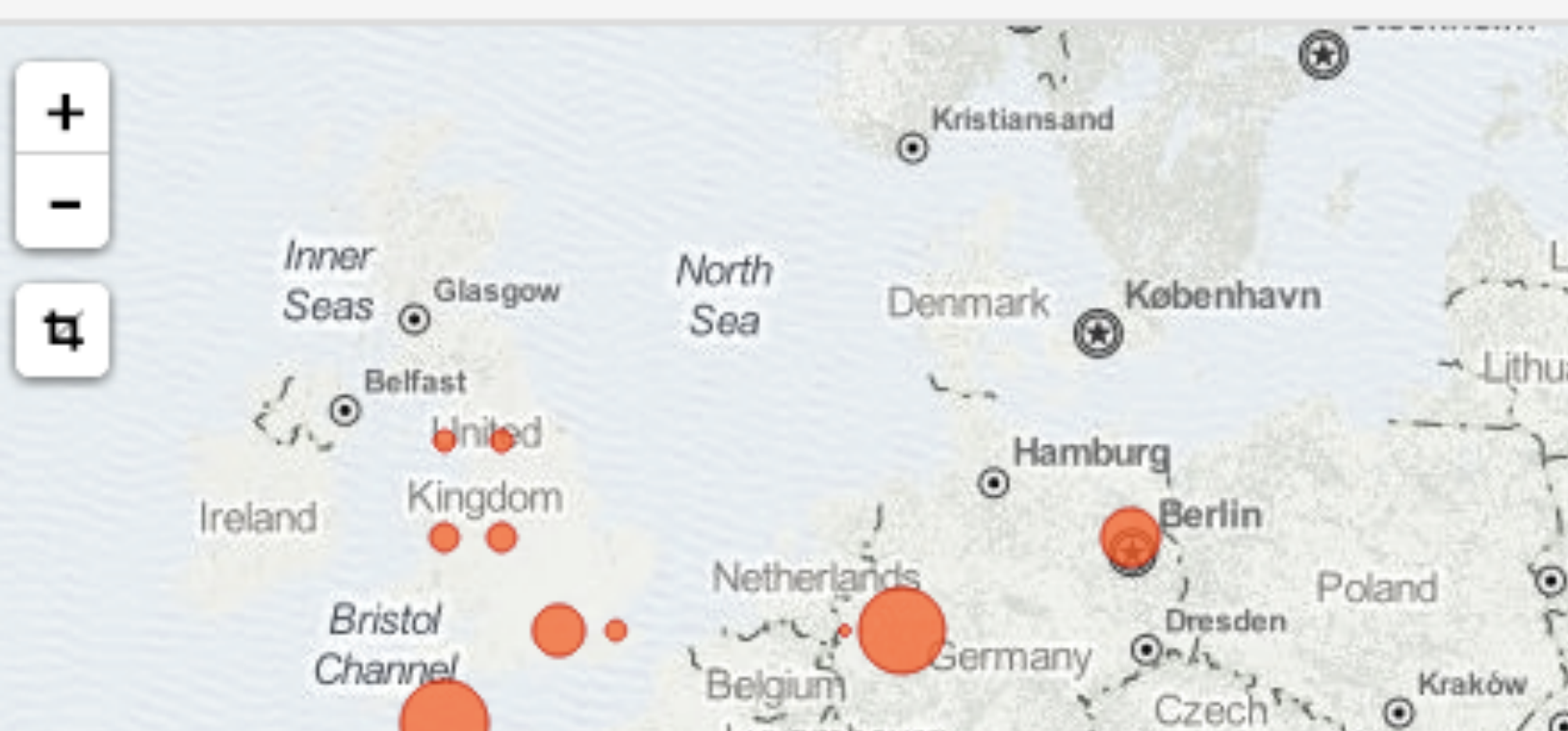
By year



Per country and gender



Localisation



Stats per gender and city

## Top 2 gender: female

Top 5 address.city	Count	Average children
Turin	11839	1.986
Bonn	11822	2.012
Nantes	11770	1.998
Plymouth	11760	2.001
Ischia	6005	1.986

Export: [Raw](#) [Formatted](#)

## Top 2 gender: male

Top 5 address.city	Count	Average children
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Grazie mille

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

