

Análise de Dados com Base em Processamento Massivo em Paralelo

Twitter Data Lake

André Perez
ICMC/USP

andre.marcos.perez@usp.br
[linkedin.com/in/andremarcosperez/](https://www.linkedin.com/in/andremarcosperez/)



Agenda

- Contexto
- Objetivo
- Arquitetura
- Links

Agenda

- Contexto
- Objetivo
- Arquitetura
- Links

Política dos EUA no Twitter



Rep. Paul Cook @RepPaulCook · Oct 2

I wish the @POTUS and @FLOTUS a swift recovery from COVID-19. The Coronavirus is a very real threat that our nation is still fighting to overcome. We must all continue to do our part in keeping each other safe and healthy.

11

3

20



Rep. Paul Cook @RepPaulCook · Sep 18

As the second female appointed to the Court and first Jewish woman, Justice Ginsberg, 87, served 27 years on the Supreme Court. A trailblazer & inspiration to many, she loomed large and her contributions to our justice system will live on. My condolences to her family and friends

8

6

36



Col. Paul Cook, USMC (ret.) @joinpaulcook · Sep 17, 2019

Reports that I will run for 1st District Supervisor in San Bernardino County are 100% accurate!

3

1

3



Col. Paul Cook, USMC (ret.) @joinpaulcook · Dec 3, 2013

Looking forward to putting my name on the ballot again in CD8 for the 2014 election. There's so much work left to do.

1

1



Congress Tweets Automator

```
{
  "name": "Paul Cook",
  "chamber": "house",
  "type": "member",
  "party": "R",
  "accounts": [
    {
      "account_type": "campaign",
      "screen_name": "joinpaulcook",
      "id": "57177310"
    },
    {
      "id": "1074412920",
      "screen_name": "RepPaulCook",
      "account_type": "office"
    }
  ],
  "id": {
    "bioguide": "C001094",
    "govtrack": 412513
  },
  "state": "CA"
}
```



Col. I
@joinp
Person
Superv

For offi
App
142 Fc
Not folk

COUNTY SUPERVISOR



Rep. Paul Cook ✓
@RepPaulCook

Twenty-six year retired @USMC Colonel serving as a United States Congressman from California's 8th Congressional District. Join the conversation #CA08 #Semperfi

Apple Valley, California cook.house.gov Joined January 2013

1,123 Following 19K Followers

Not followed by anyone you're following

Congress Tweets

```
{
  "id": "1315057755430977539",
  "screen_name": "RepJacobs",
  "user_id": "1276232539510919168",
  "time": "2020-10-10T18:32:56-04:00",
  "link": "https://www.twitter.com/SPECNewsBuffalo",
  "text": "RT @SPECNewsBuffalo The Challenger Learr",
  "source": "Twitter for iPhone"
}
```

Rep. Chris Jacobs Retweeted



Spectrum News BUF @SPECNewsBuffalo · Oct 10

The Challenger Learning Center in Lockport uses space exploration as a theme to get kids interested in science, technology, engineering, and math.



Challenger Learning Center Wish Fulfilled With New Flag
The flag previously flown over the U.S. Capitol.
spectrumlocalnews.com

1

1

3



Agenda







- Contexto
- Objetivo
- Arquitetura
- Links

Construir um pipeline de dados
que ingere dados diariamente
em um data lake
para armazenamento e exploração.

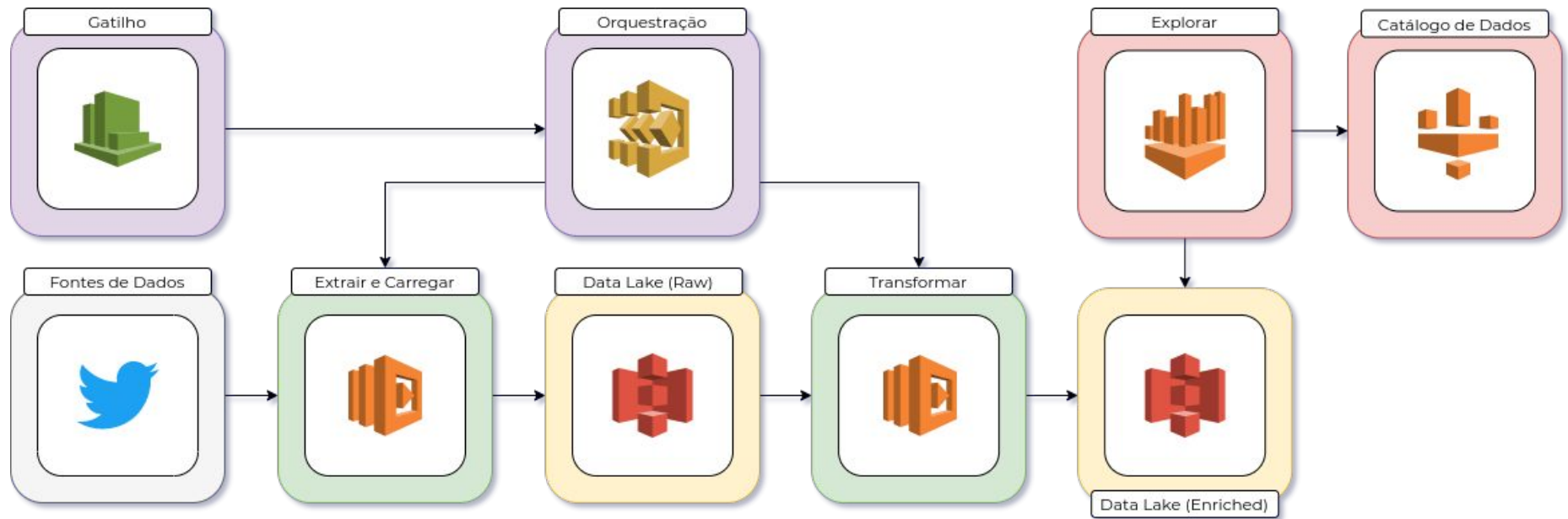
Agenda

- Contexto
- Objetivo
- Arquitetura
- Links

Arquitetura: Elementos

ELT	Data Lake	Motor de Consulta	Orquestração
			
AWS Lambda	AWS s3	AWS Athena	AWS Step Functions
			
		AWS Glue	AWS CloudWatch

Arquitetura: Pipeline



Agenda

- Contexto
- Objetivo
- Arquitetura
- Links

Fonte de dados

- [Congress Tweets Automator](#)
- [Congress Tweets](#)

Amazon Web Services

- [AWS Service Docs](#)
- [AWS Simple Calculator](#)
- [AWS Newest Calculator](#)
- [AWS to Azure \(Microsoft\) Map](#)
- [AWS to GCP \(Google\) Map](#)

Repositório de códigos

- [Data Science MBA @ ICMC-USP](#)

Artigos

- [Demystify Hadoop Data Formats: Avro, ORC, and Parquet](#)
- [New in Hadoop: You should know the Various File Format in Hadoop](#)