



Studio d'innovation digitale, en mode Agile

Comment on a « overengineer » la Nuit de l'Info ?



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DEUX FOIS

# Qui suis-je ?

ITERACODE

**Charles Fourdrignier**  
Lead Dev

<https://github.com/Charlynux/presentations>



# Iteracode ?

ITERACODE

**Studio d'innovation digitale**  
Depuis Août 2015

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ITERACODE

**Studio d'innovation digitale**  
Depuis Août 2015



**CakePHP**

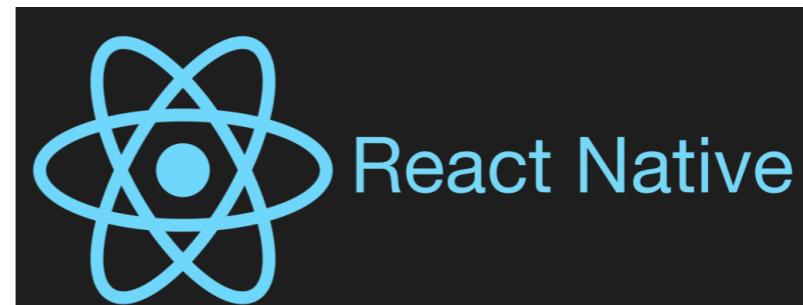
# Iteracode ?

ITERACODE

**Studio d'innovation digitale**  
Depuis Août 2015



**CakePHP**



**Ceci n'est pas un talk sérieux !**



RTL9

**NE FAITES PAS ÇA CHEZ VOUS,  
À L'ÉCOLE OU N'IMPORTE OÙ!**

RTL9



NE FAITES PAS ÇA CHEZ VOUS  
À L'ÉCOLE OU EN PROD

# QUESTIONS



# Naissance de la Nightcode



# Un événement national



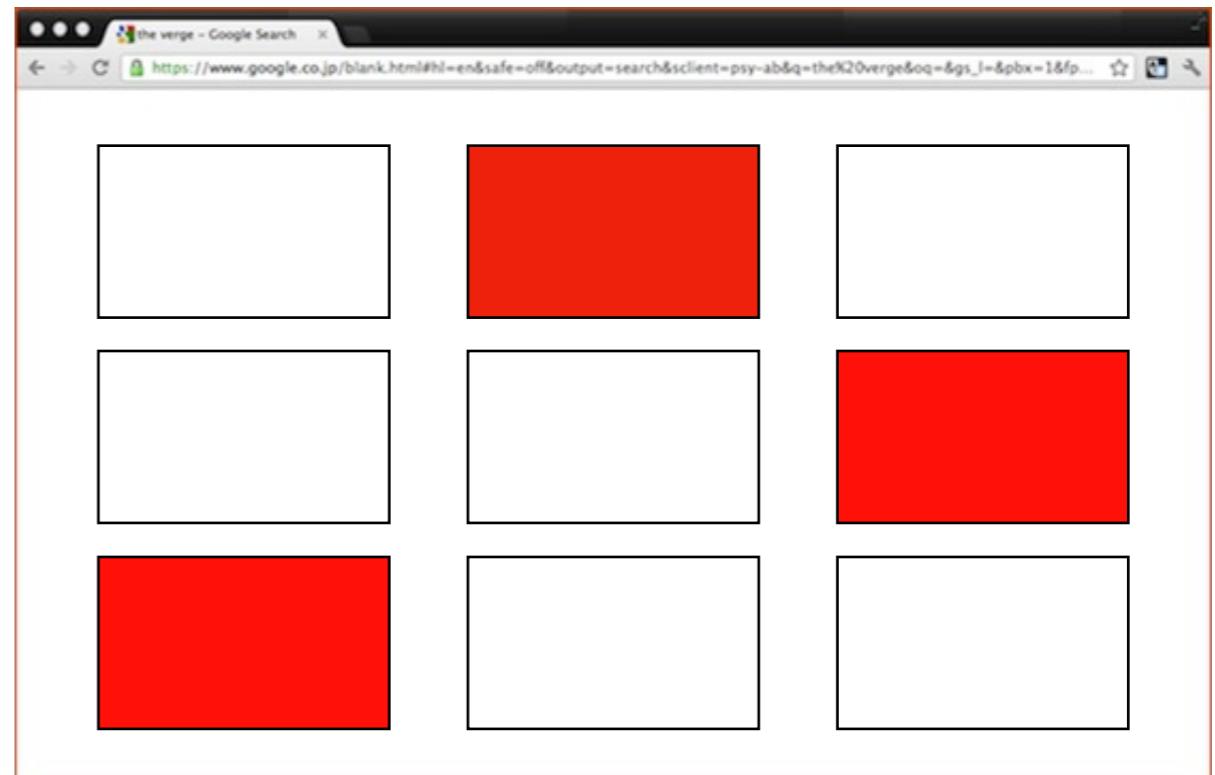
# Un événement national



- **Une nuit de code**
- **Sujet "Web" et fun**
- **Guider et accompagner**

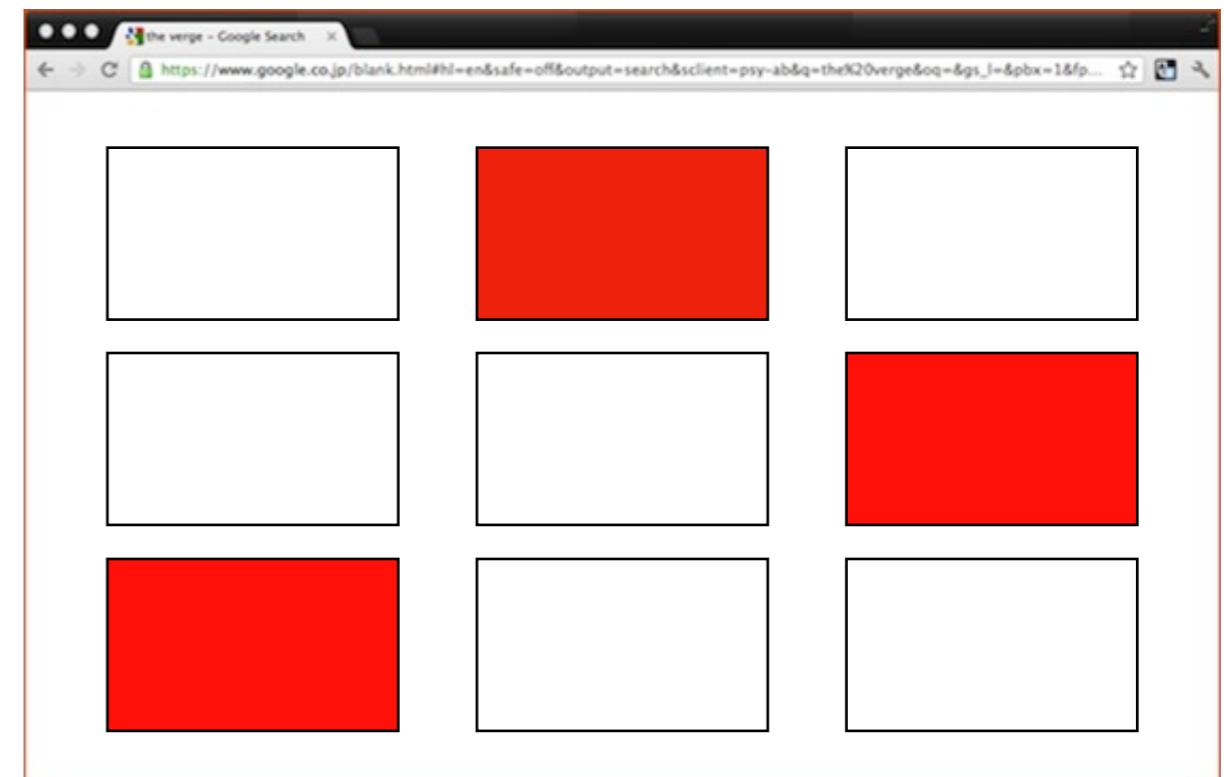
# Comment ?

# Dashboard V0



# Dashboard V0

```
<html>
  <body>
    <iframe src='urlEquipe1' />
    <iframe src='urlEquipe2' />
    <iframe src='urlEquipe3' />
    <iframe src='urlEquipe4' />
    <iframe src='urlEquipe5' />
    <iframe src='urlEquipe6' />
    <iframe src='urlEquipe7' />
    <iframe src='urlEquipe8' />
    <iframe src='urlEquipe9' />
    <script>
      setTimeout(function () {
        window.location.href = window.location.href;
      }, 60000)
    </script>
  </body>
</html>
```



# Dashboard V0 - Défauts

**Visuels non-contractuels**

**Aucune notion « métier »**

# Dashboard V0 - Défauts

**Visuels non-contractuels**

**Screenshots**

**Aucune notion « métier »**

# Dashboard V0 - Défauts

**Visuels non-contractuels**

**Screenshots**

**Aucune notion « métier »**

**Tests automatisés**

# Screenshots



Sketchy



# Sketchy

Sketchy uses:

[Flask](#)

[Gunicorn](#)

[Nginx](#)

[Celery](#)

[Redis](#)

[PhantomJS](#)



Sketchy uses:

[Flask](#)

[Gunicorn](#)

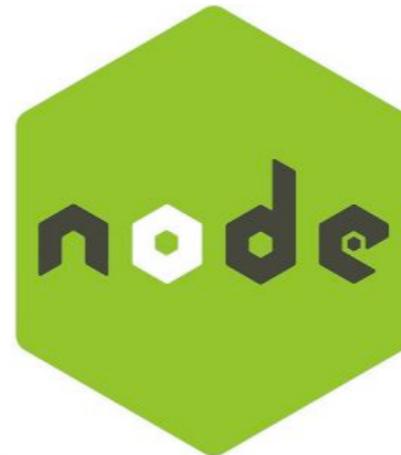
[Nginx](#)

[Celery](#)

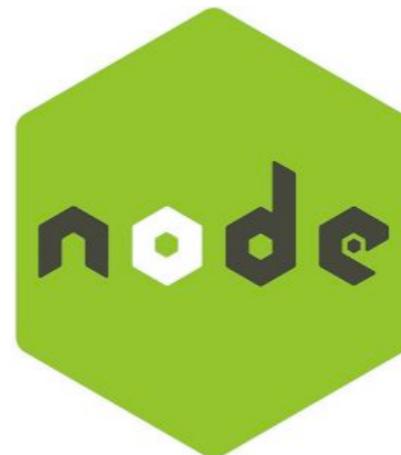
[Redis](#)

[PhantomJS](#)

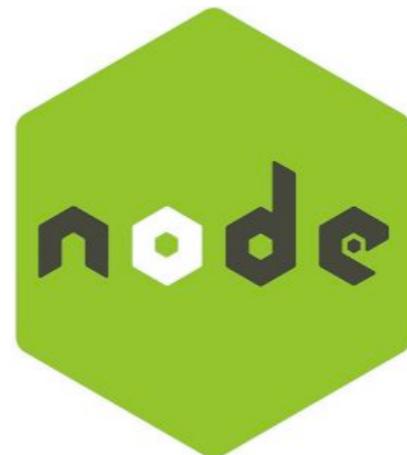
# Comment prendre des screenshots ?



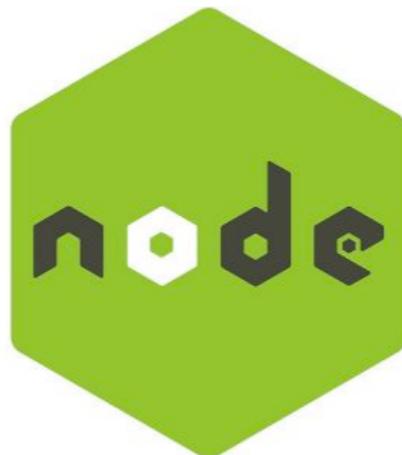
# Comment prendre des screenshots ?



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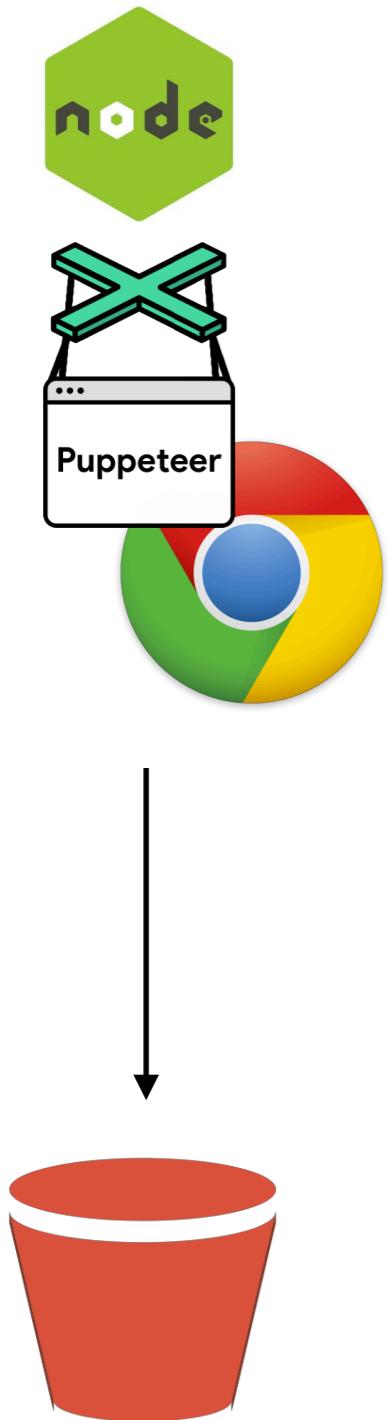
⚠ Migrate PhantomJS to Headless Chrome [help wanted](#)  
#40 opened on 13 Apr 2017 by sbehrens

5

# Screenshots - Implémentation



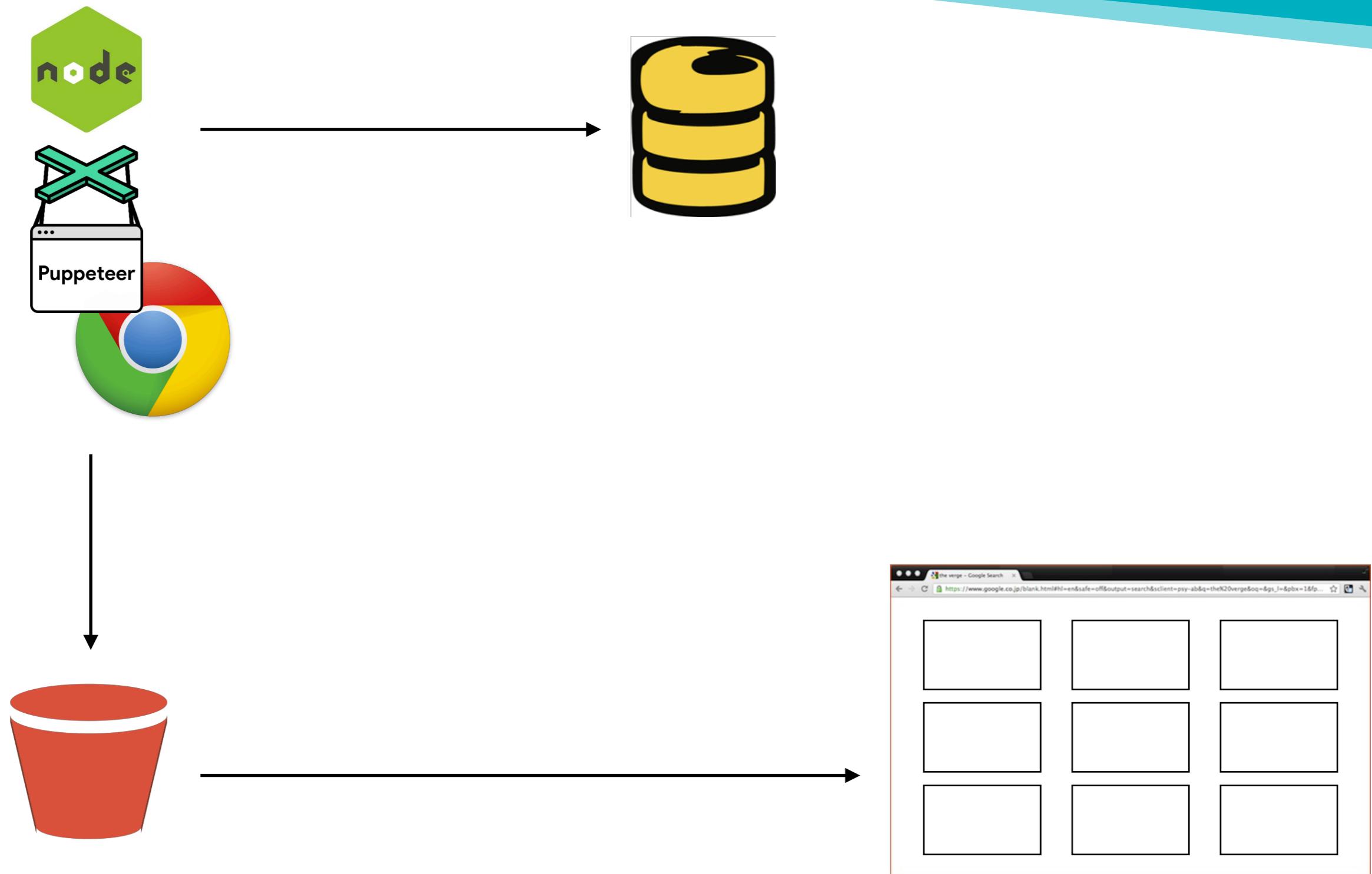
# Screenshots - Implémentation



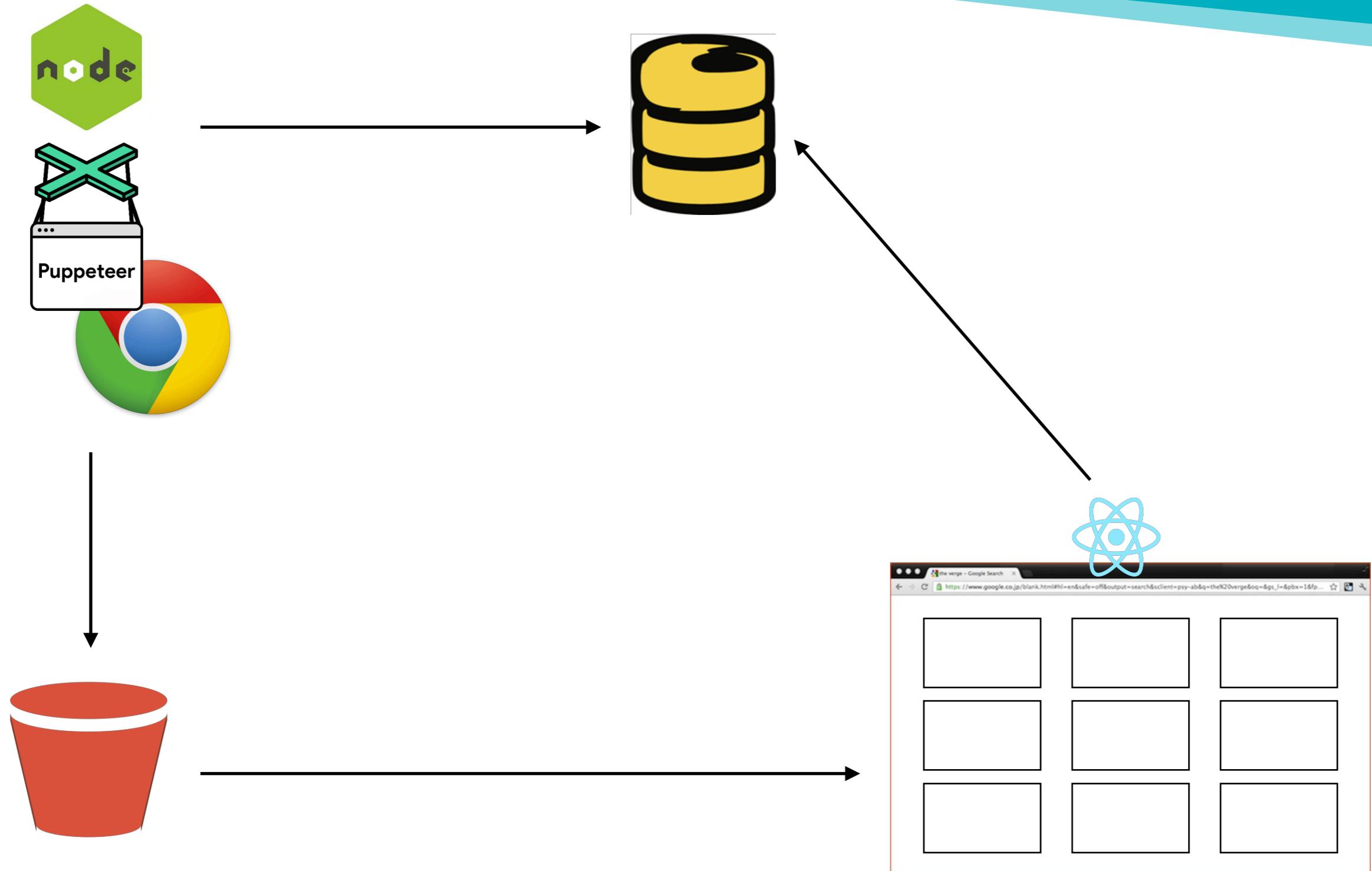
# Screenshots - Implémentation



# Screenshots - Implémentation



# Screenshots - Implémentation



# Tests



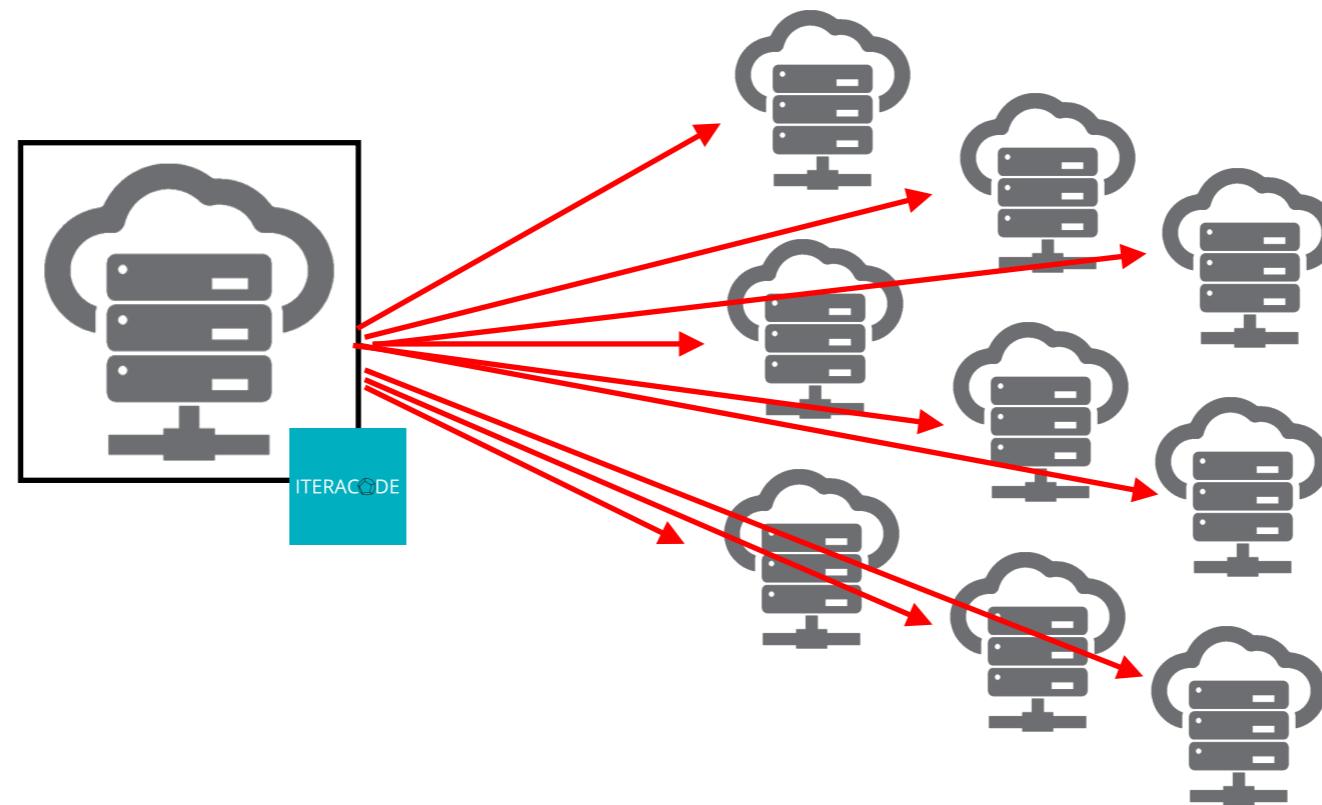
# Xebia

## Code Elevator

<https://blog.xebia.fr/2013/07/15/techevent-code-elevator-un-concours-de-programmation/>



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<https://blog.xebia.fr/2013/07/15/techevent-code-elevator-un-concours-de-programmation/>

# Tests automatisés

**System under test**

# Tests automatisés

**Inputs      Expectations**

**System under test**

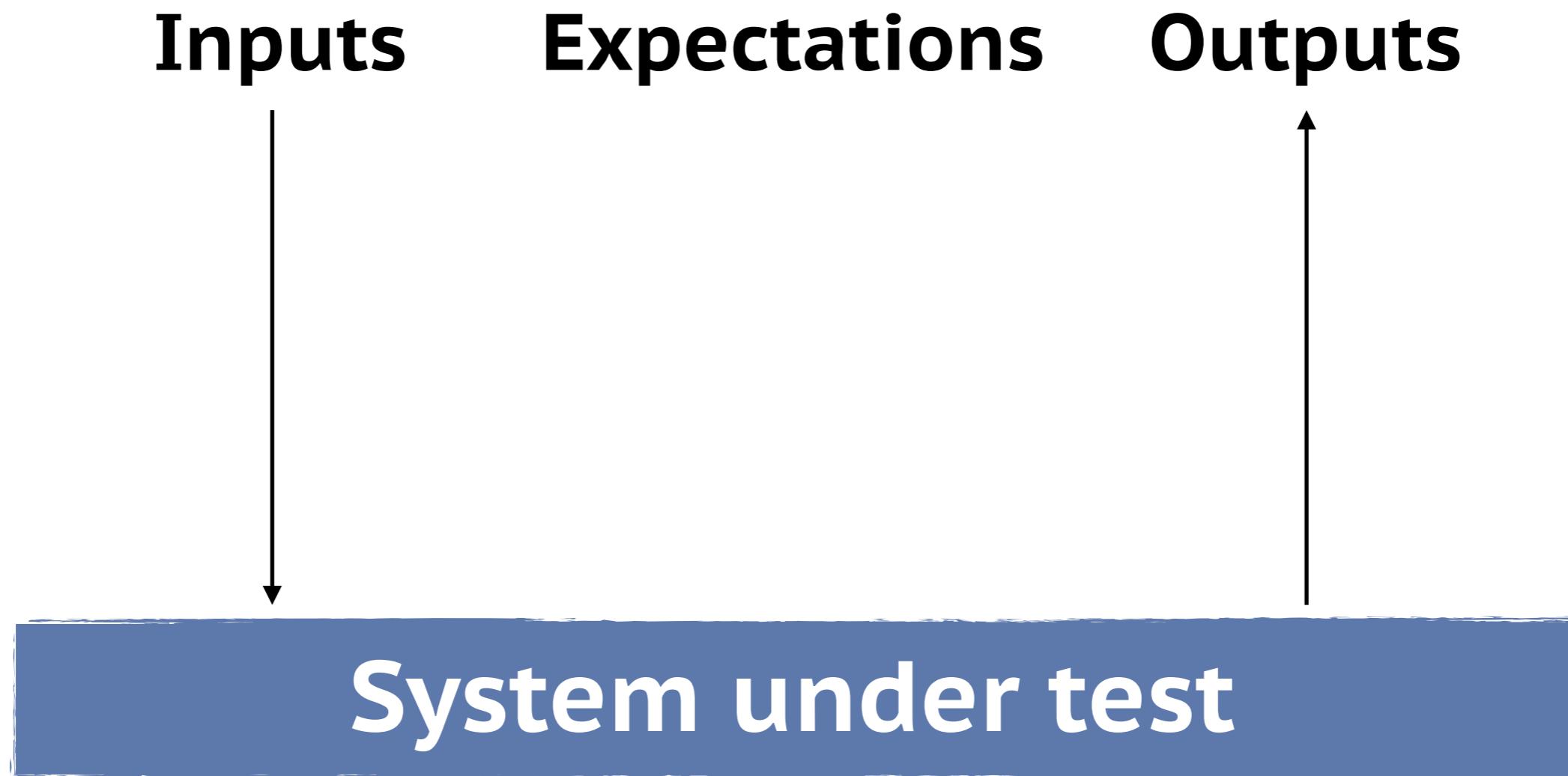
# Tests automatisés

**Inputs      Expectations**

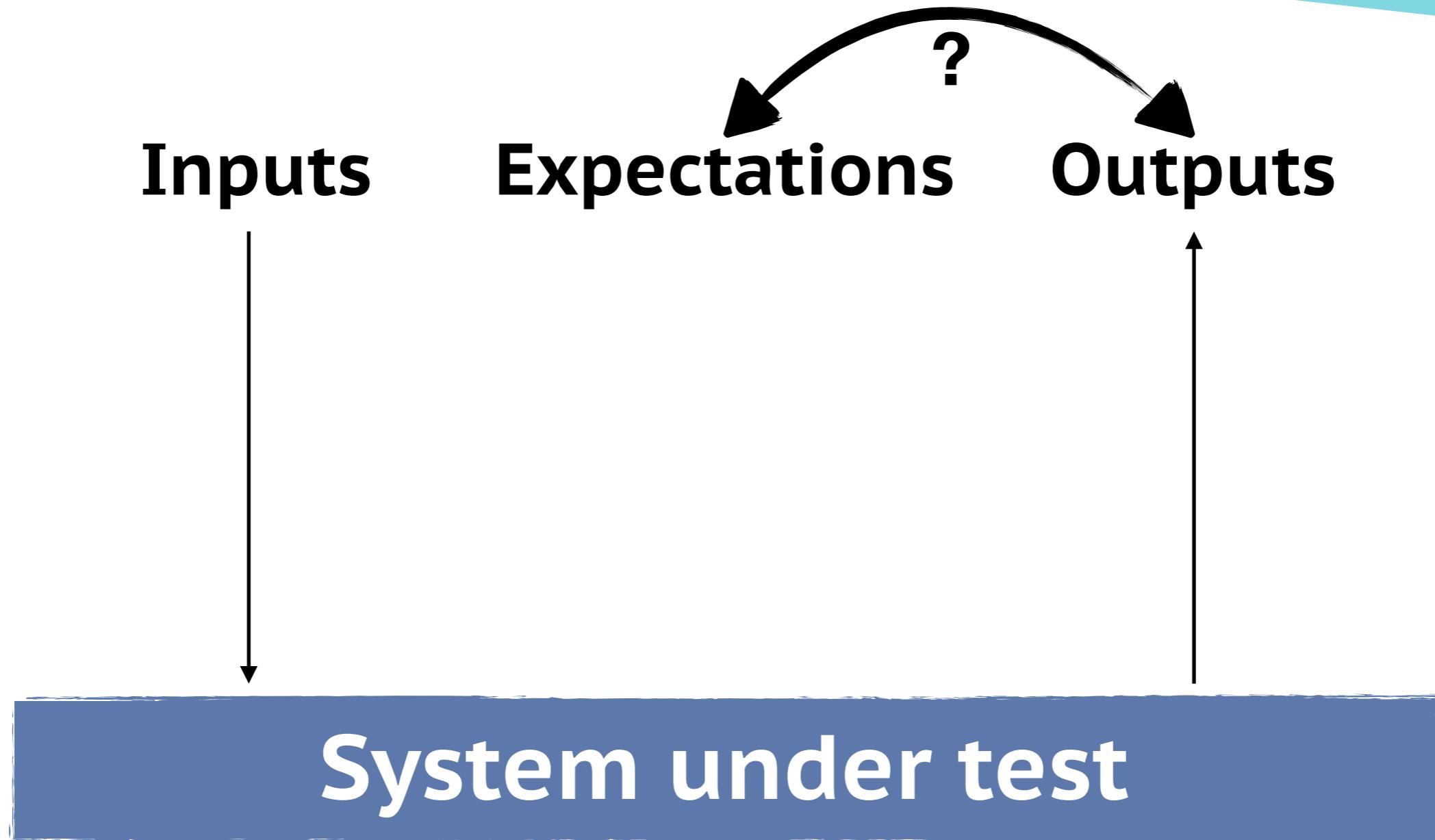


**System under test**

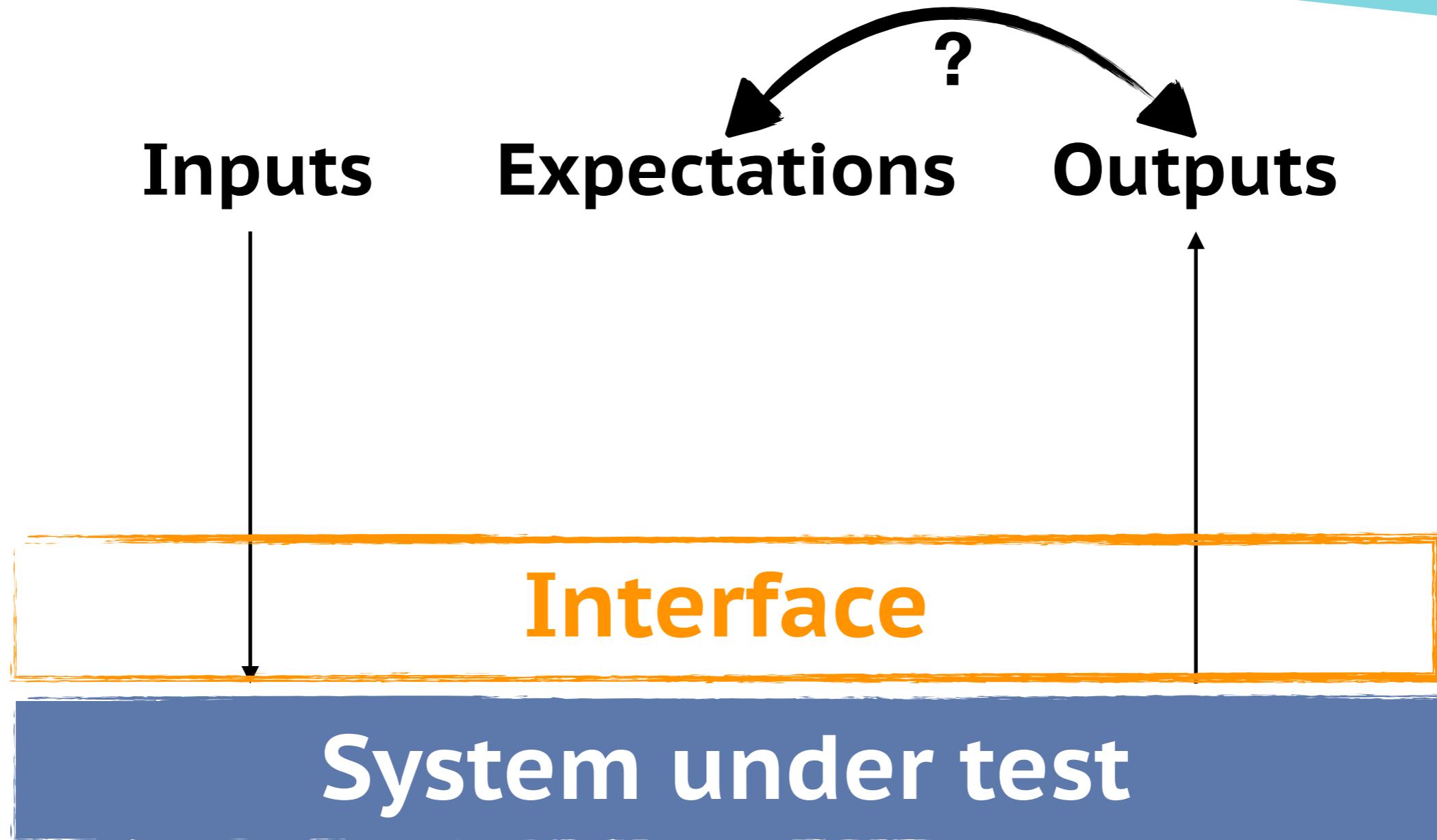
# Tests automatisés



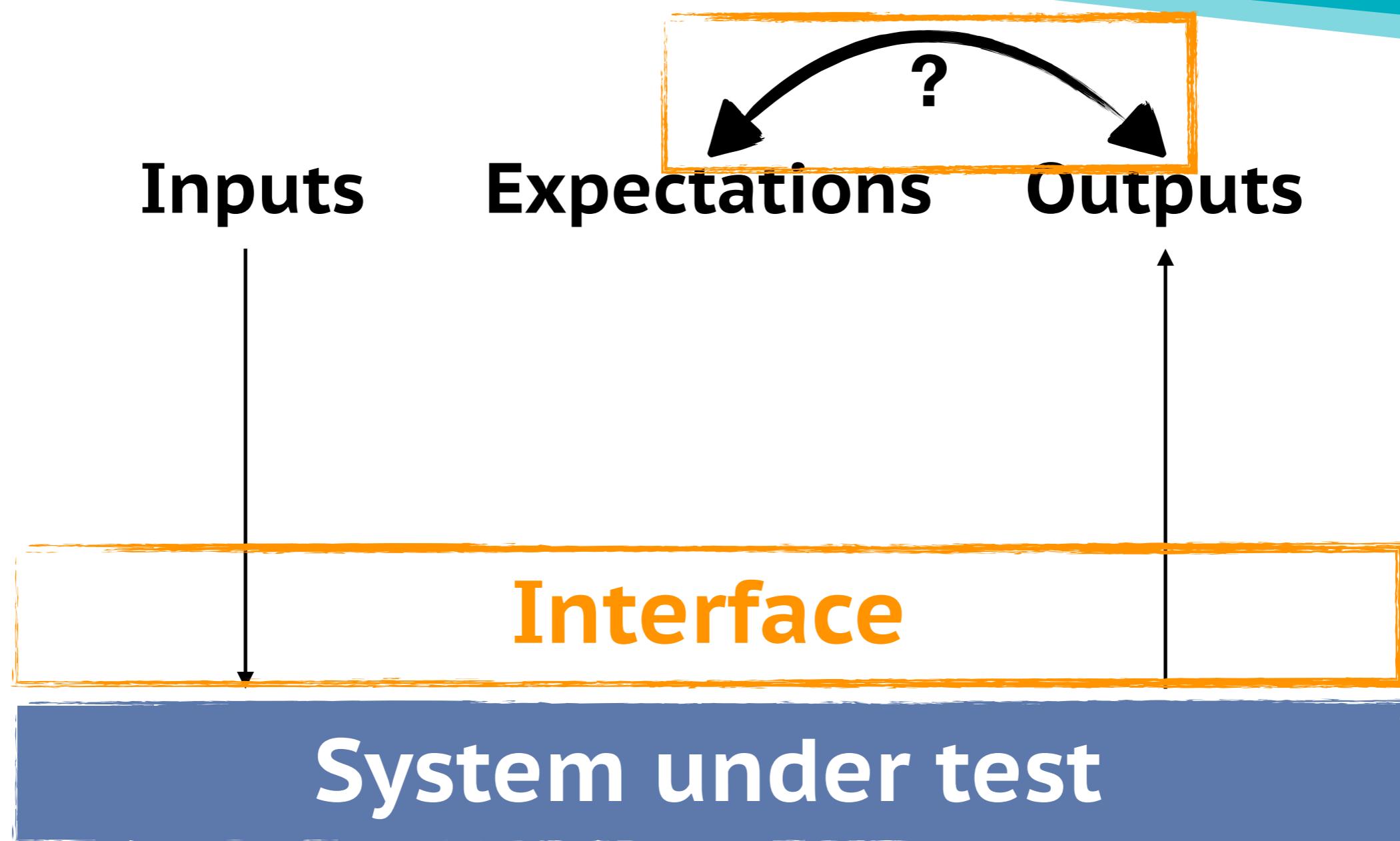
# Tests automatisés



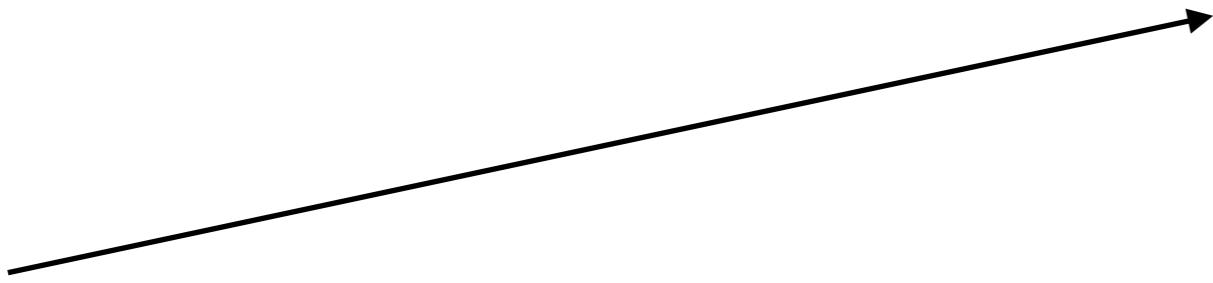
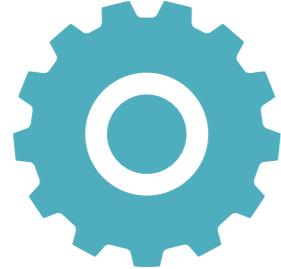
# Tests automatisés



# Tests automatisés



# Interface



**Sign Up**  
It's free and always will be.

---

First Name:

Surname:

Your Email:

Re-enter Email:

New Password:

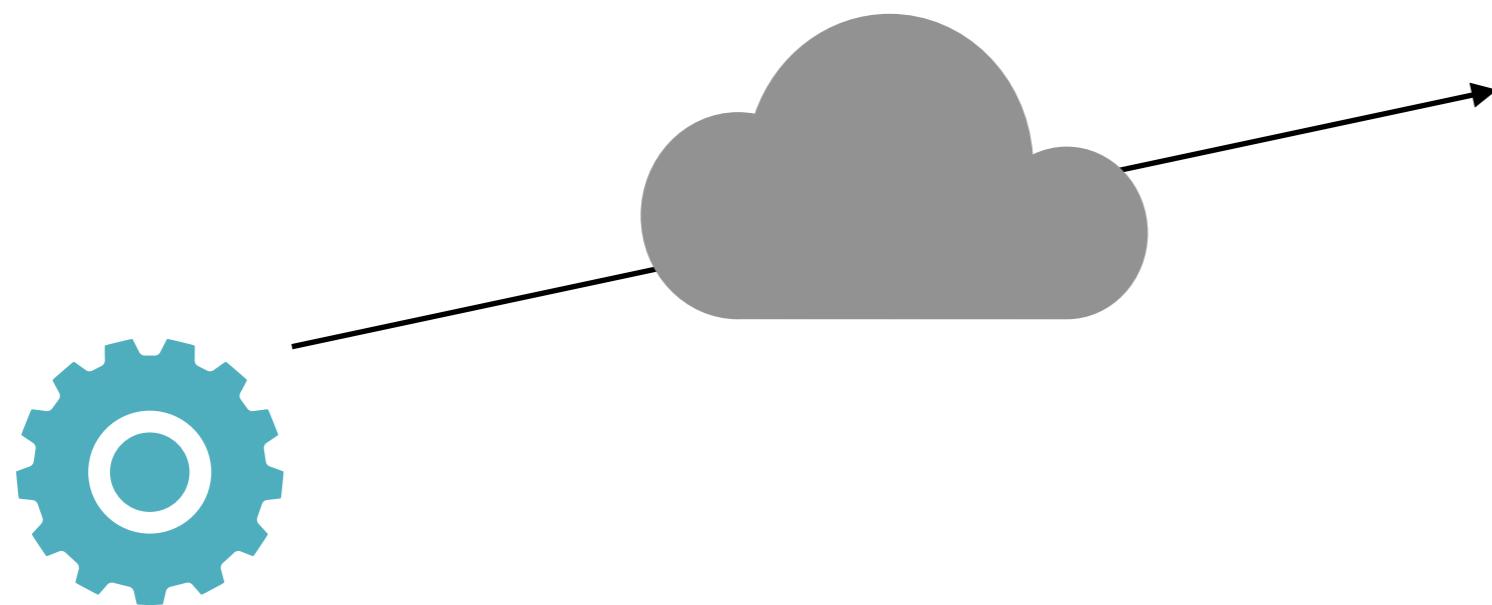
I am:

Birthday:

Why do I need to provide my date of birth?

By clicking Sign Up, you agree to our Terms and that you have read our Data use policy, including our Cookie Use.

# Interface



**Sign Up**  
It's free and always will be.

---

First Name:

Surname:

Your Email:

Re-enter Email:

New Password:

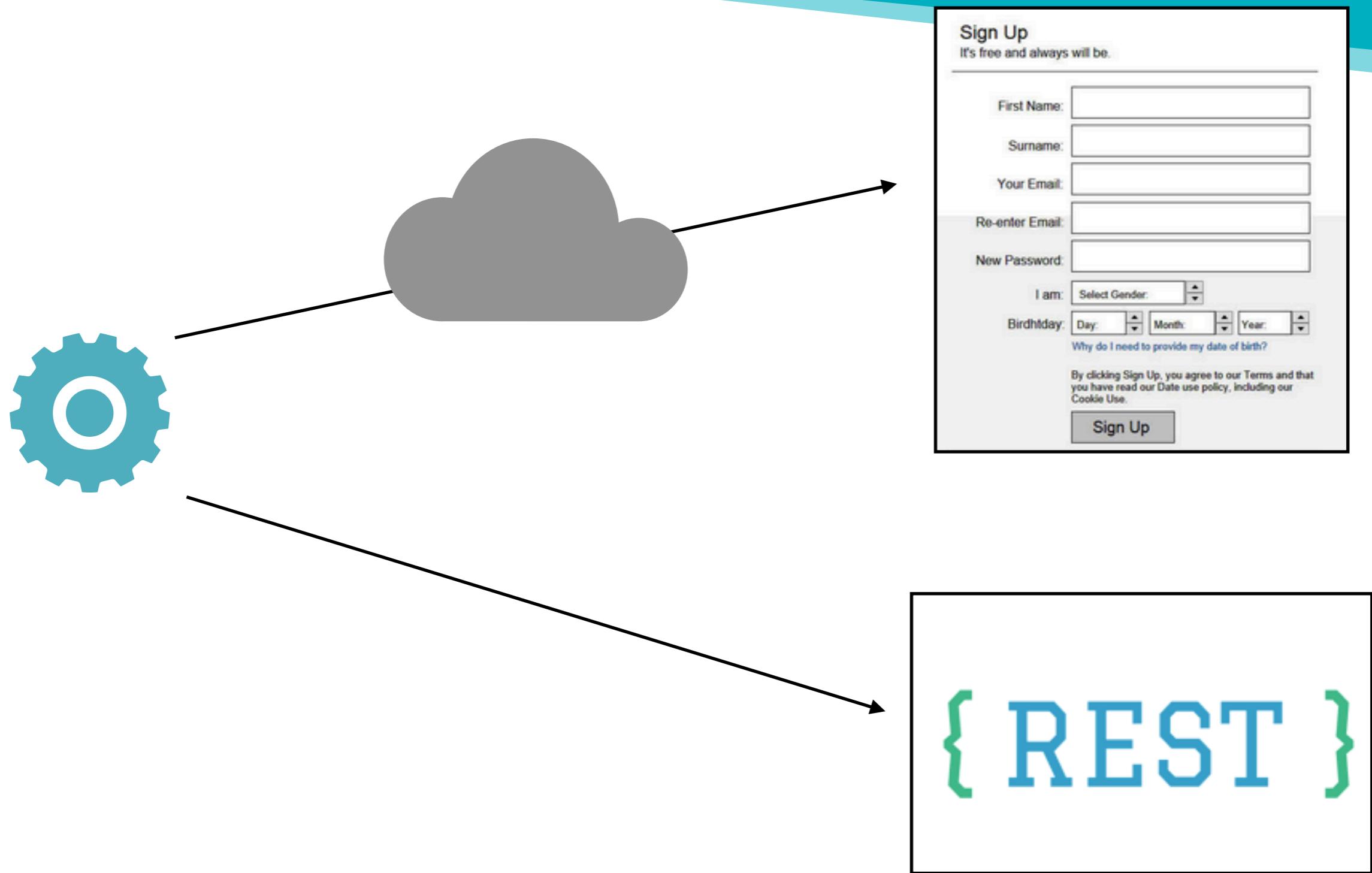
I am:

Birthday:

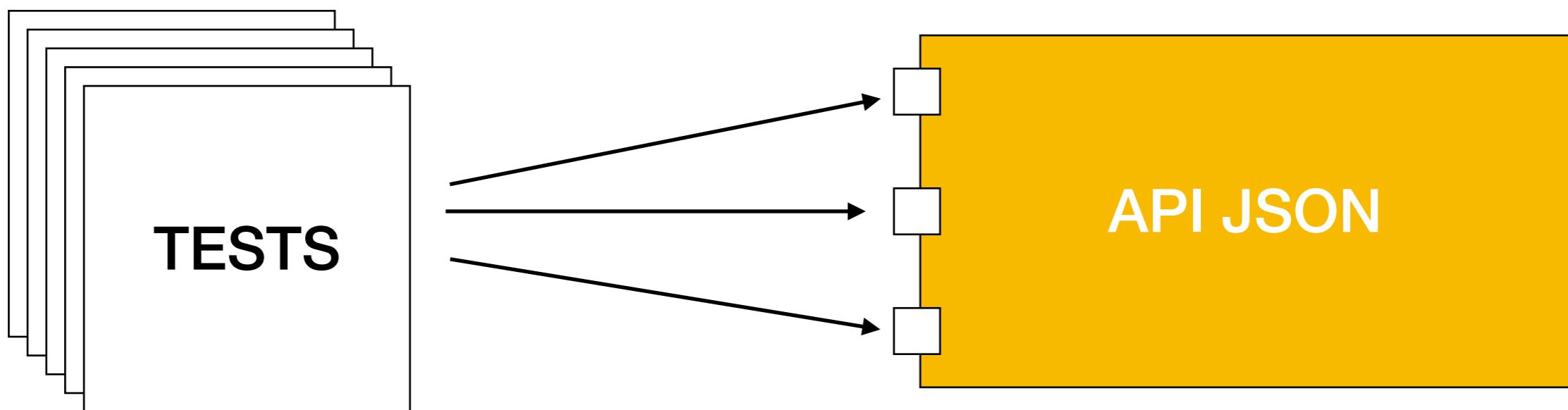
Why do I need to provide my date of birth?

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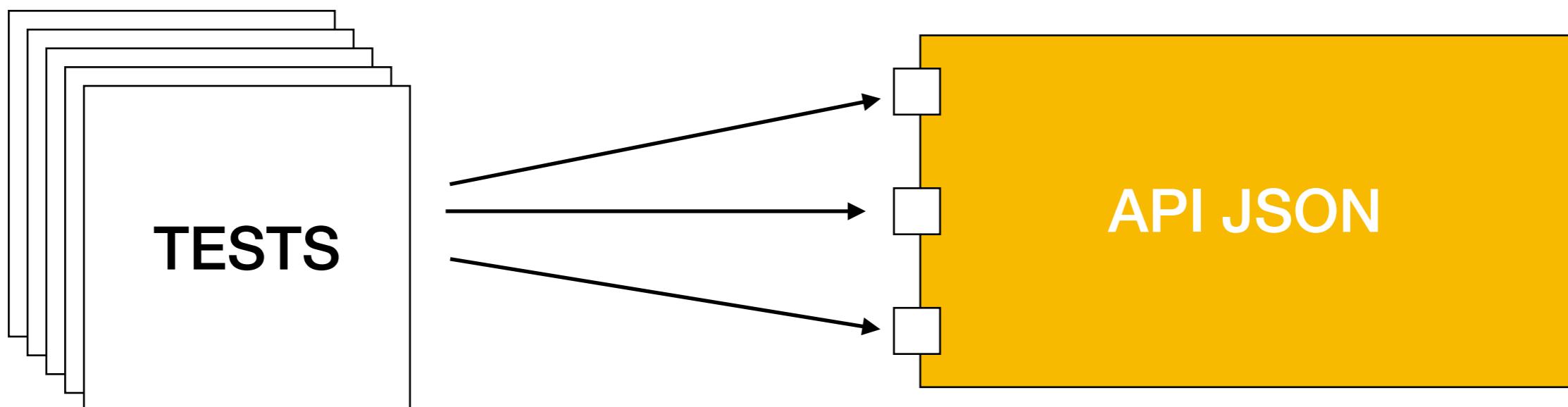
# Interface



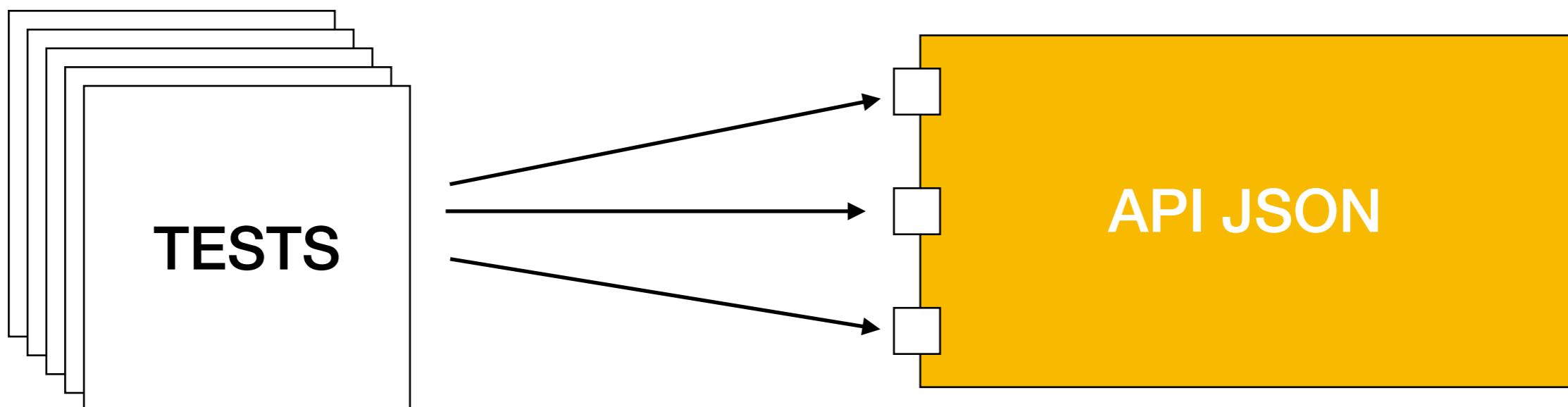
# Tester une API JSON



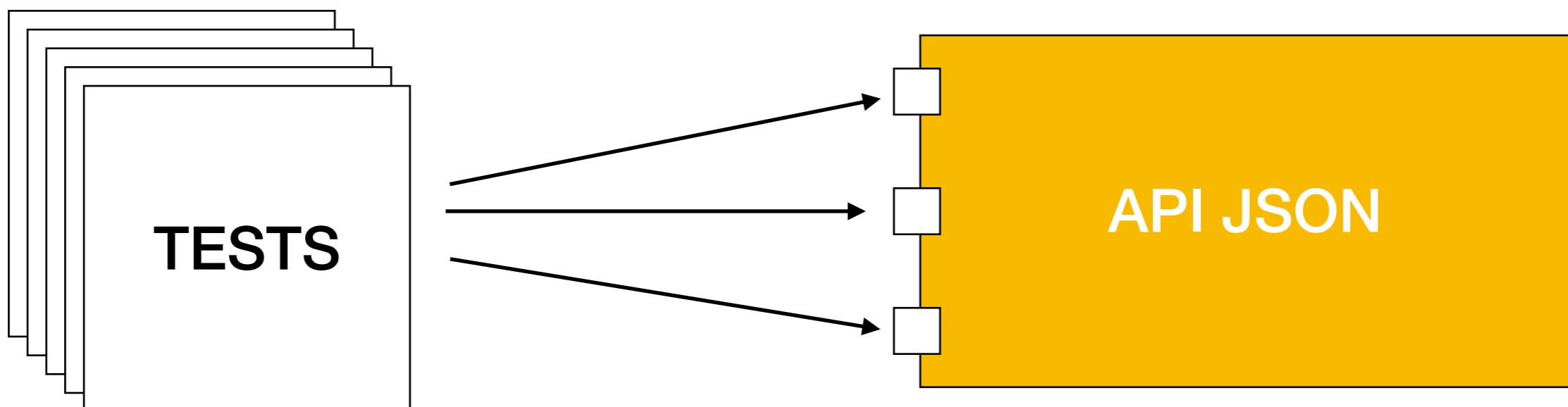
# Tester une API JSON



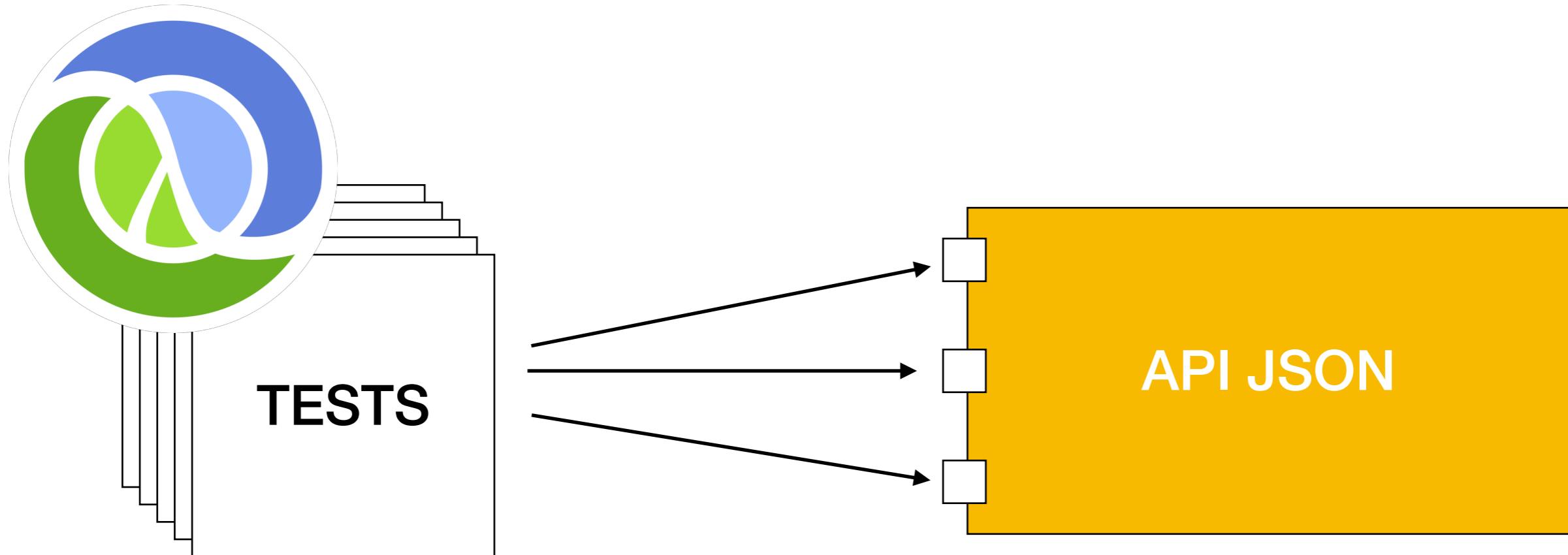
# Tester une API JSON



# Tester une API JSON



# Tester une API JSON



# Clojure Spec

```
(s/def ::non-empty-string (and string? #(not=empty %)))  
  
(s/def ::title ::non-empty-string)  
(s/def ::content ::non-empty-string)  
(s/def ::priority (s/int-in 0 100))  
  
(s/def ::message (s/keys  
                   :req-un [::title ::content]  
                   :opt-un [::priority]))
```

# Clojure Spec

```
(s/def ::non-empty-string (and string? #(not=empty %)))  
  
(s/def ::title ::non-empty-string)  
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(s/def ::priority (s/int-in 0 100))  
  
(s/def ::message (s/keys  
                   :req-un [::title ::content]  
                   :opt-un [::priority]))
```

Validation

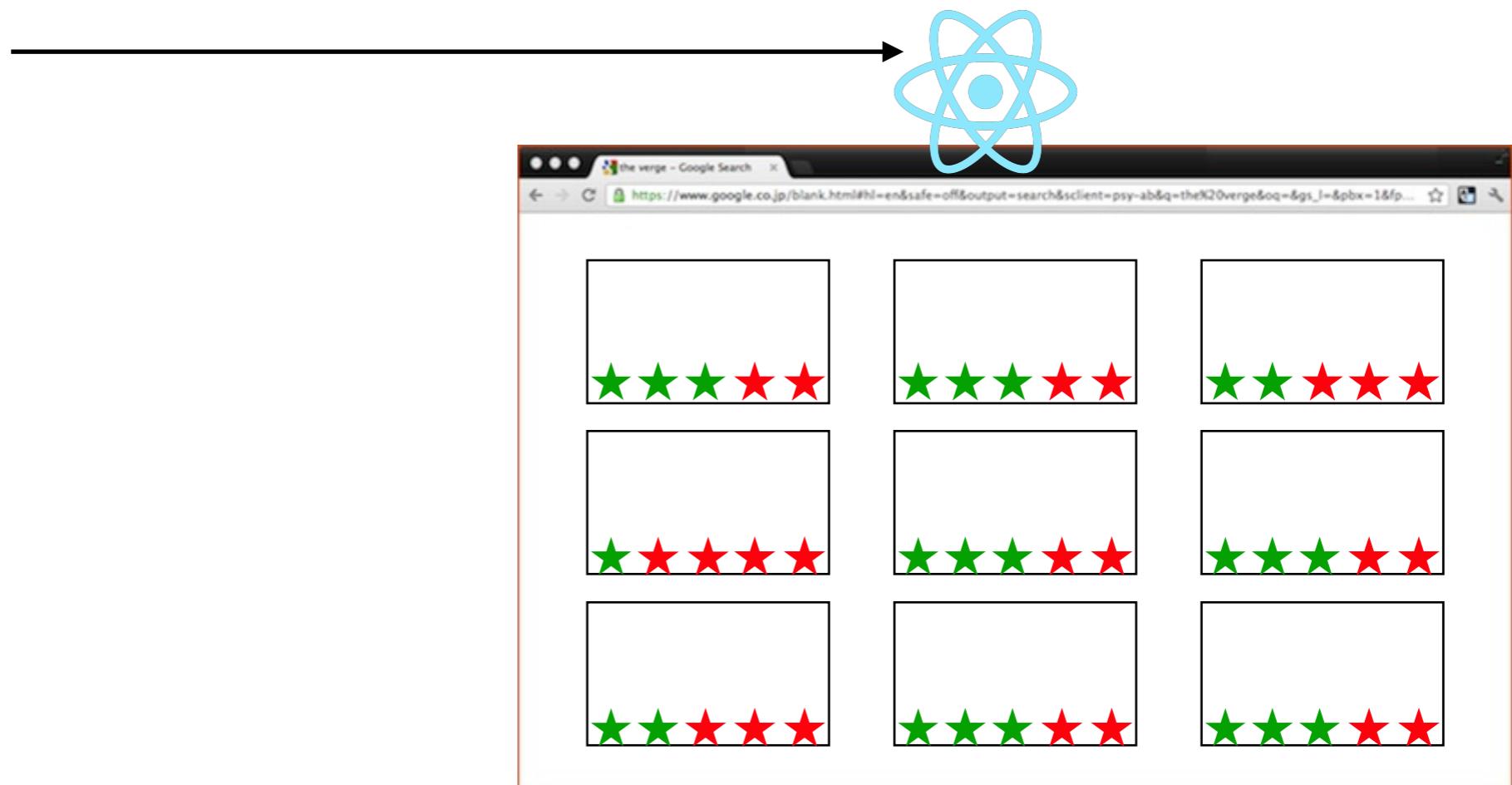
# Clojure Spec

```
(s/def ::non-empty-string (and string? #(not-empty %)))  
  
(s/def ::title ::non-empty-string)  
(s/def ::content ::non-empty-string)  
(s/def ::priority (s/int-in 0 100))  
  
(s/def ::message (s/keys  
                   :req-un [::title ::content]  
                   :opt-un [::priority]))
```

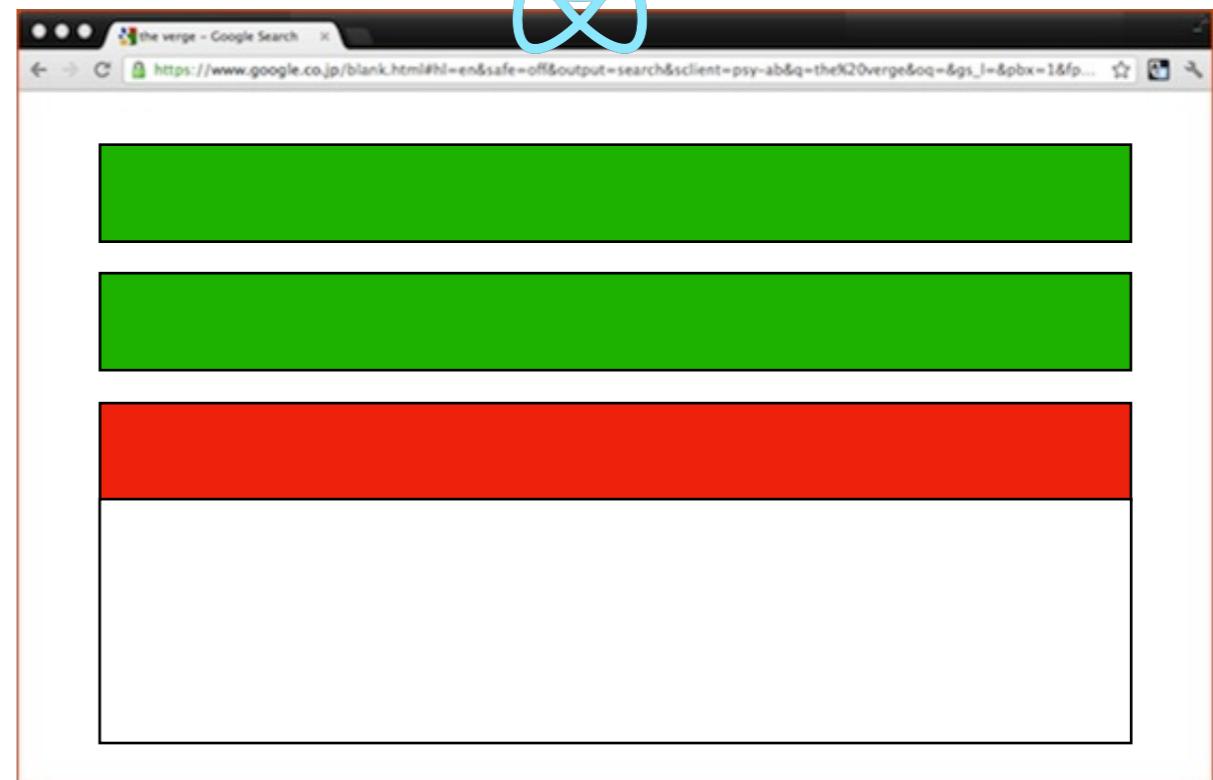
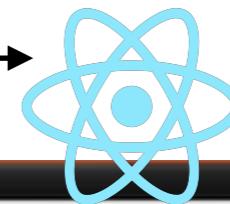
Validation

Génération

# Dashboard (bis)



# Détail des tests

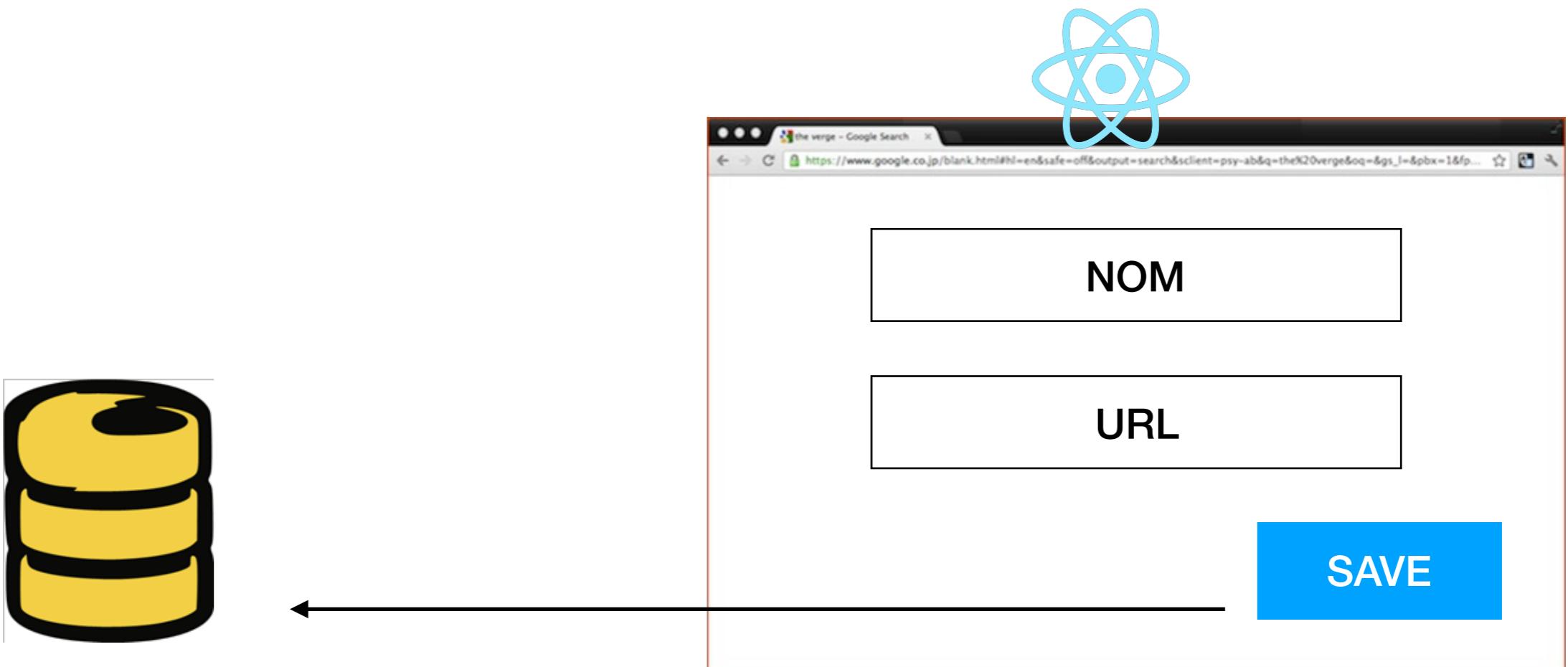


# Urls des équipes

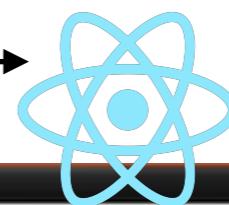
# Configuration des équipes



# Configuration des équipes



# Configuration des équipes

A screenshot of a web browser window titled "the verge - Google Search". The URL bar shows a blank page. The main content area contains two input fields: one labeled "NOM" and another labeled "URL". To the right of these fields is a large blue button labeled "SAVE".

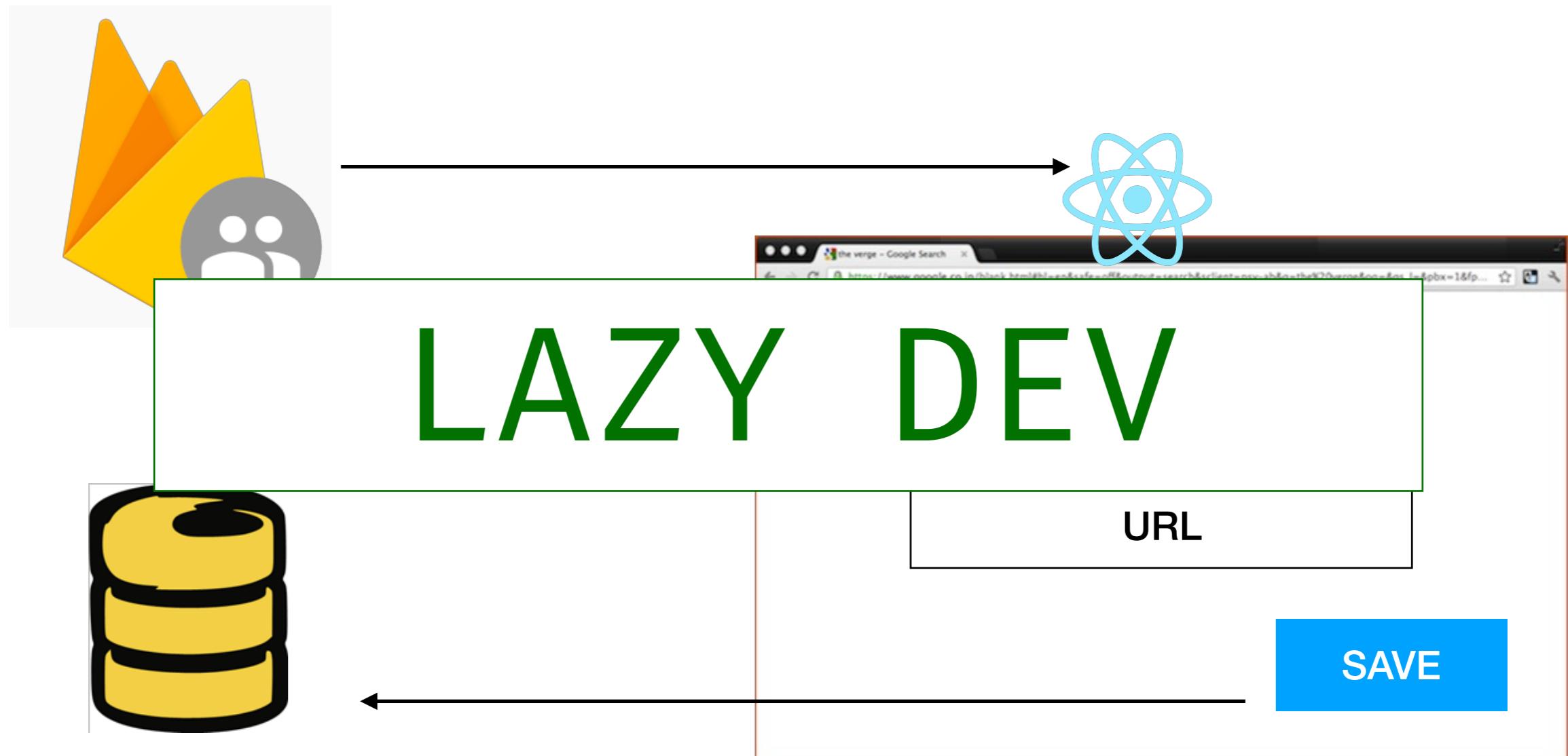
NOM

URL

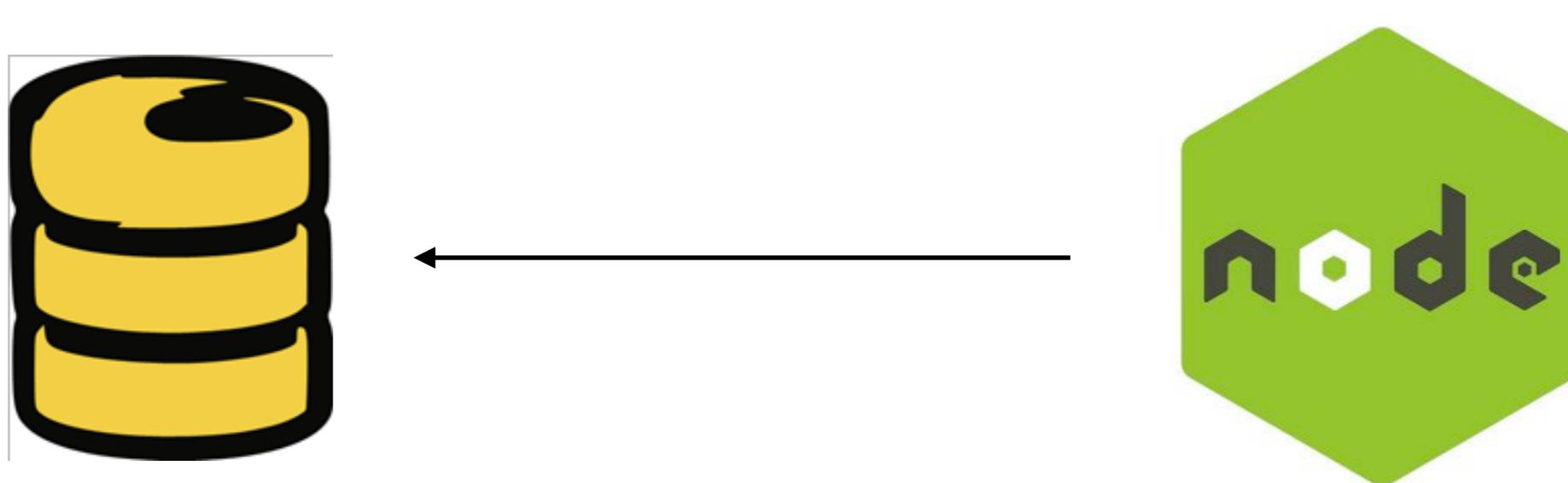
SAVE



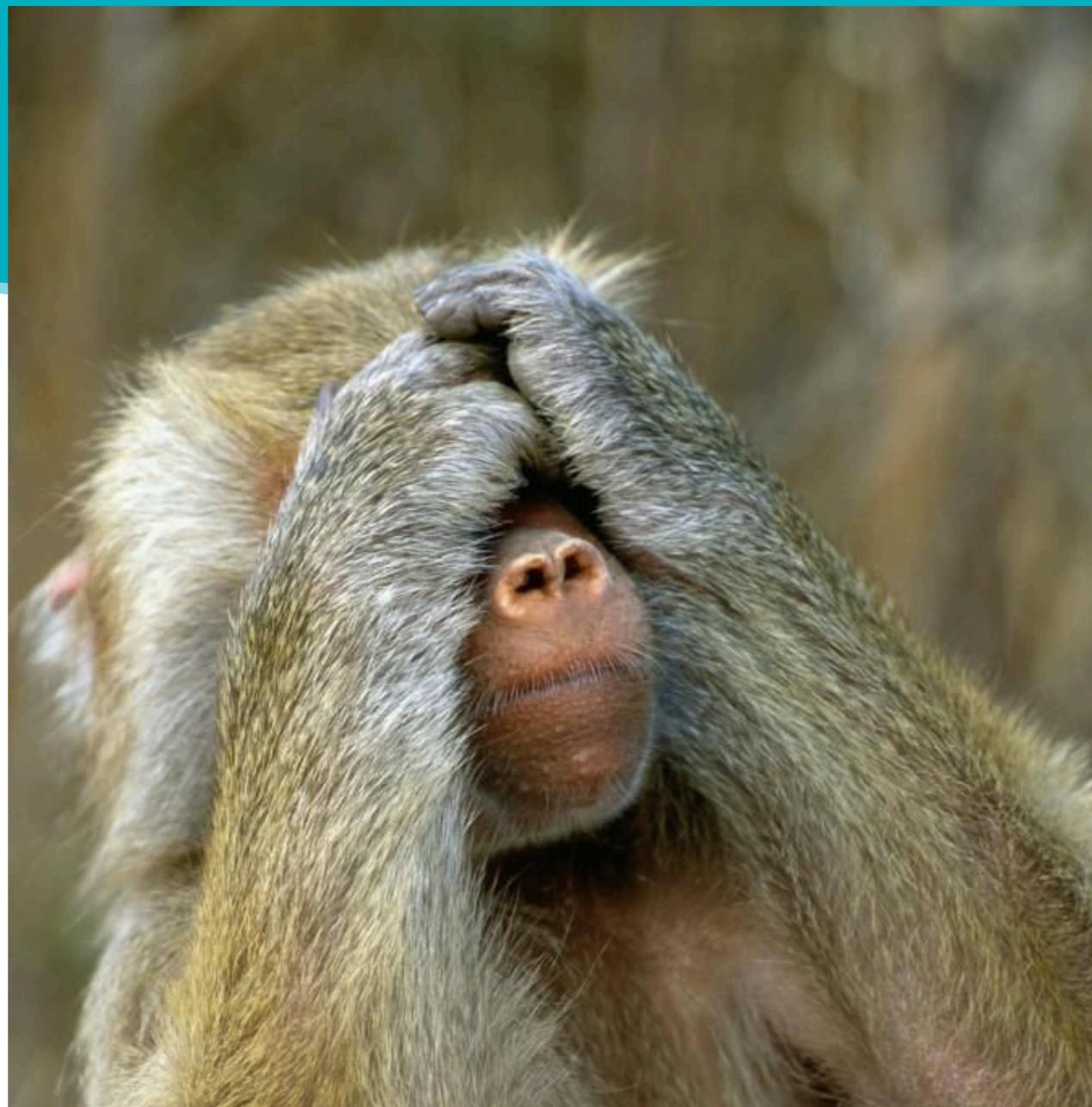
# Configuration des équipes



# Simple script



# Et le déploiement ?



# Le Front, c'est facile !

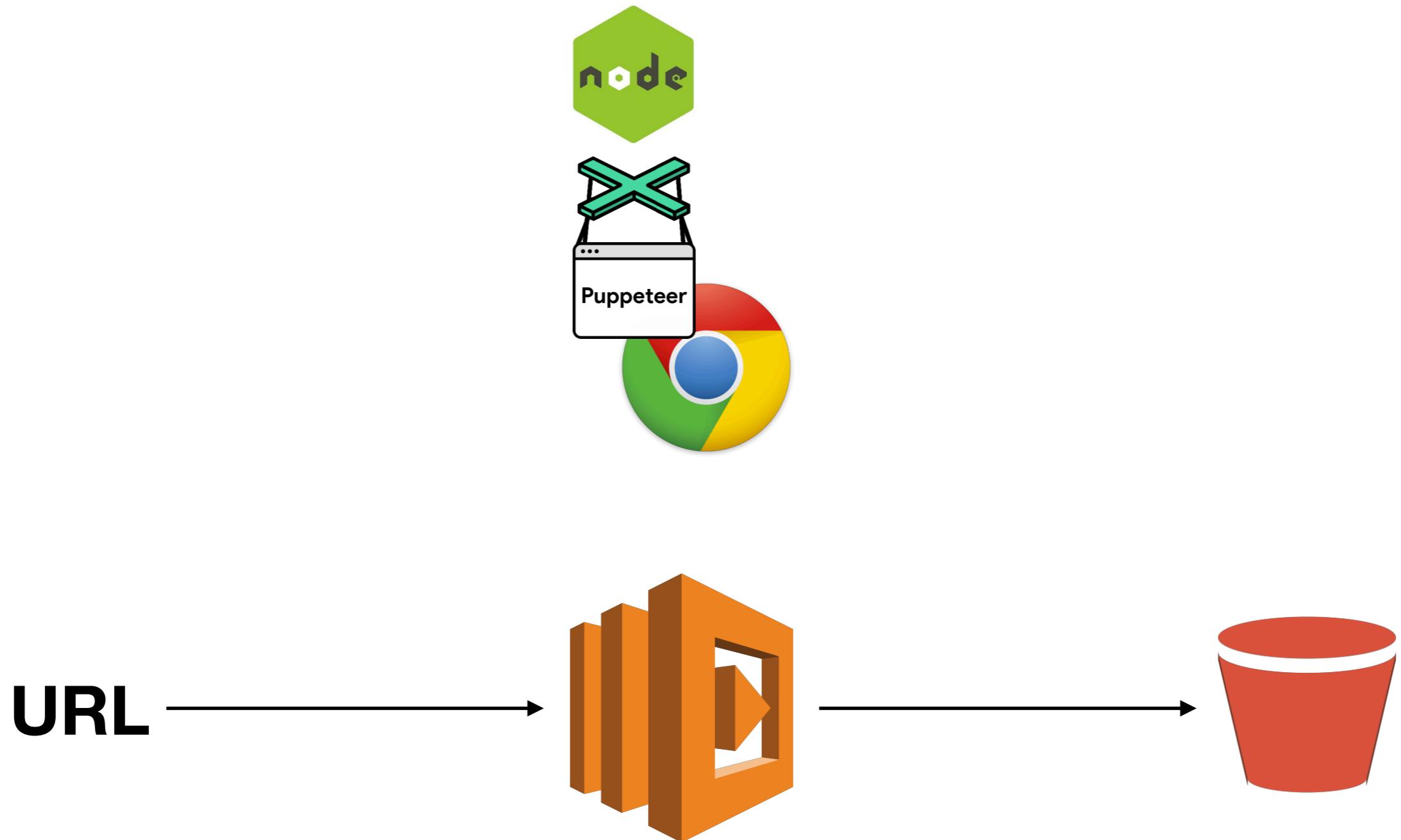
firebase  
deploy

# Le Front, c'est facile !

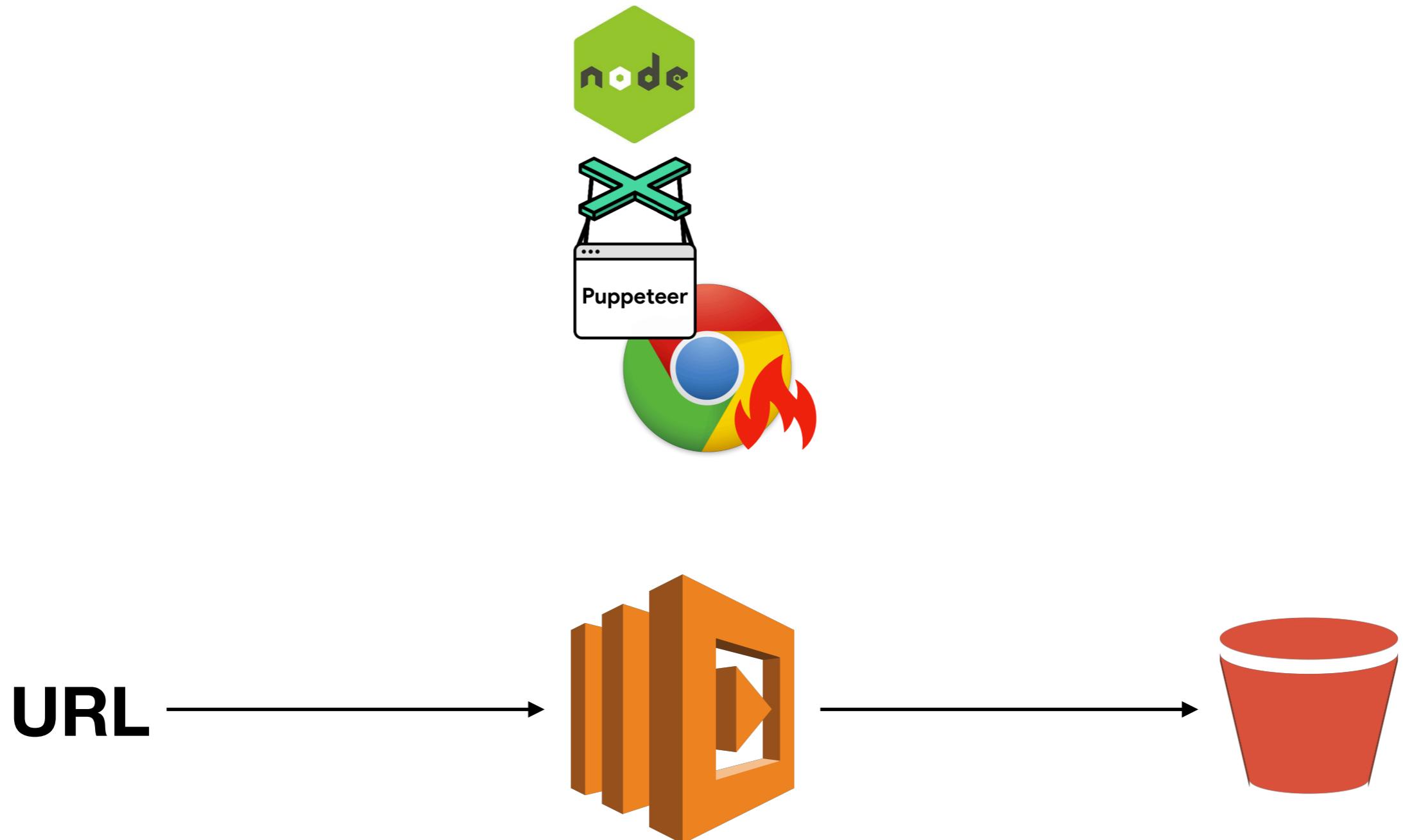
firebase  
deploy



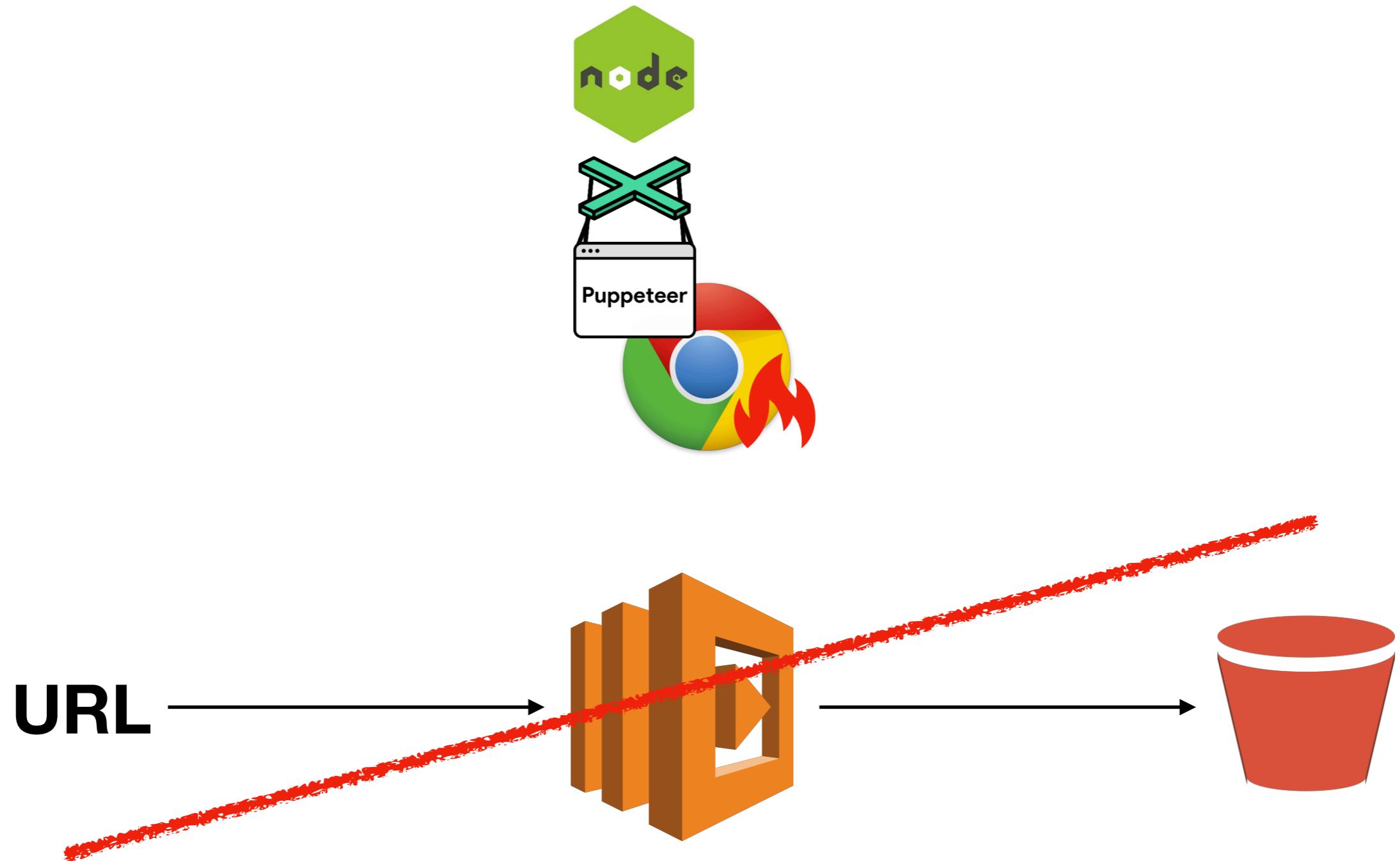
# Screenshot Lambda



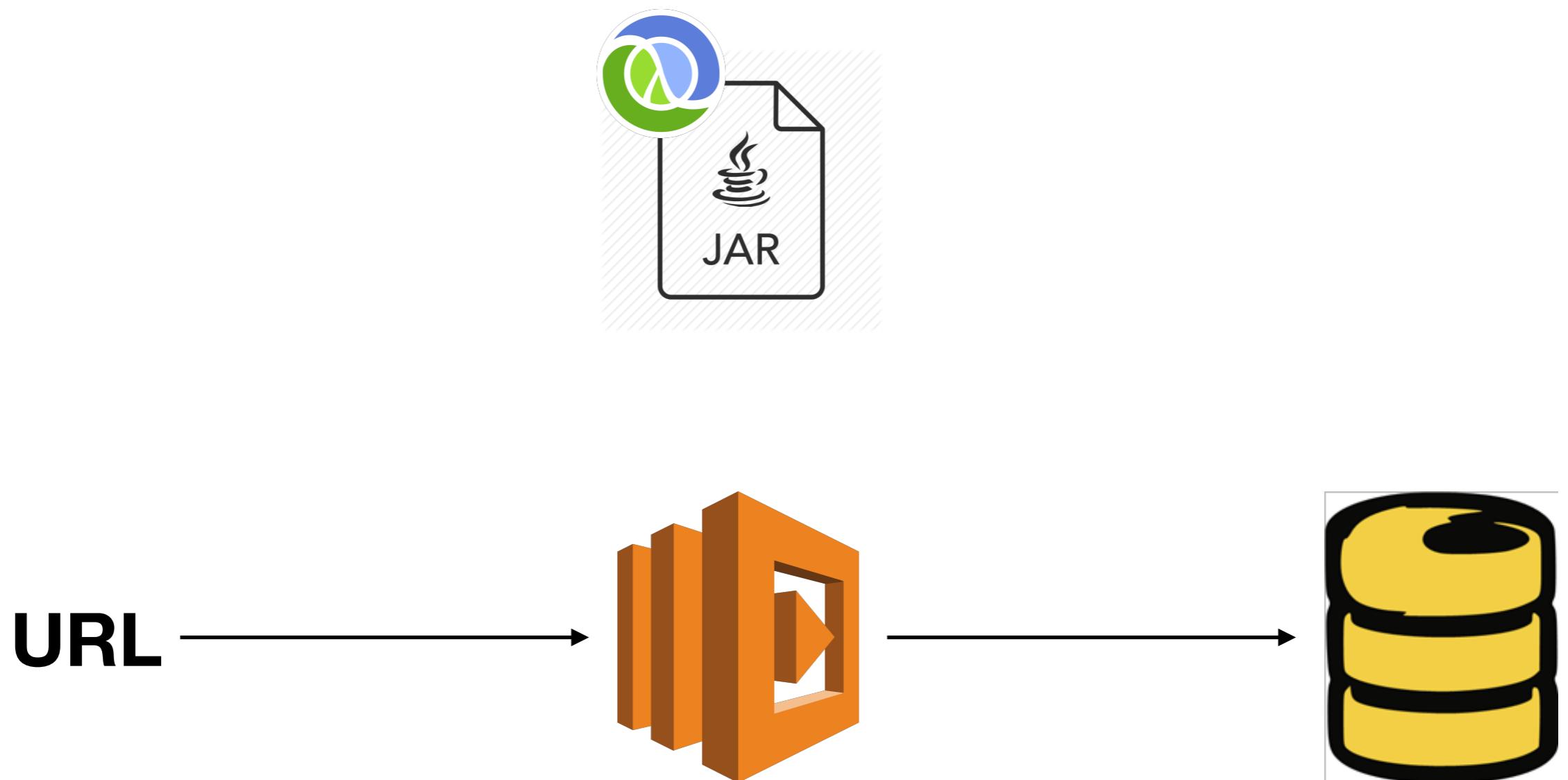
# Screenshot Lambda



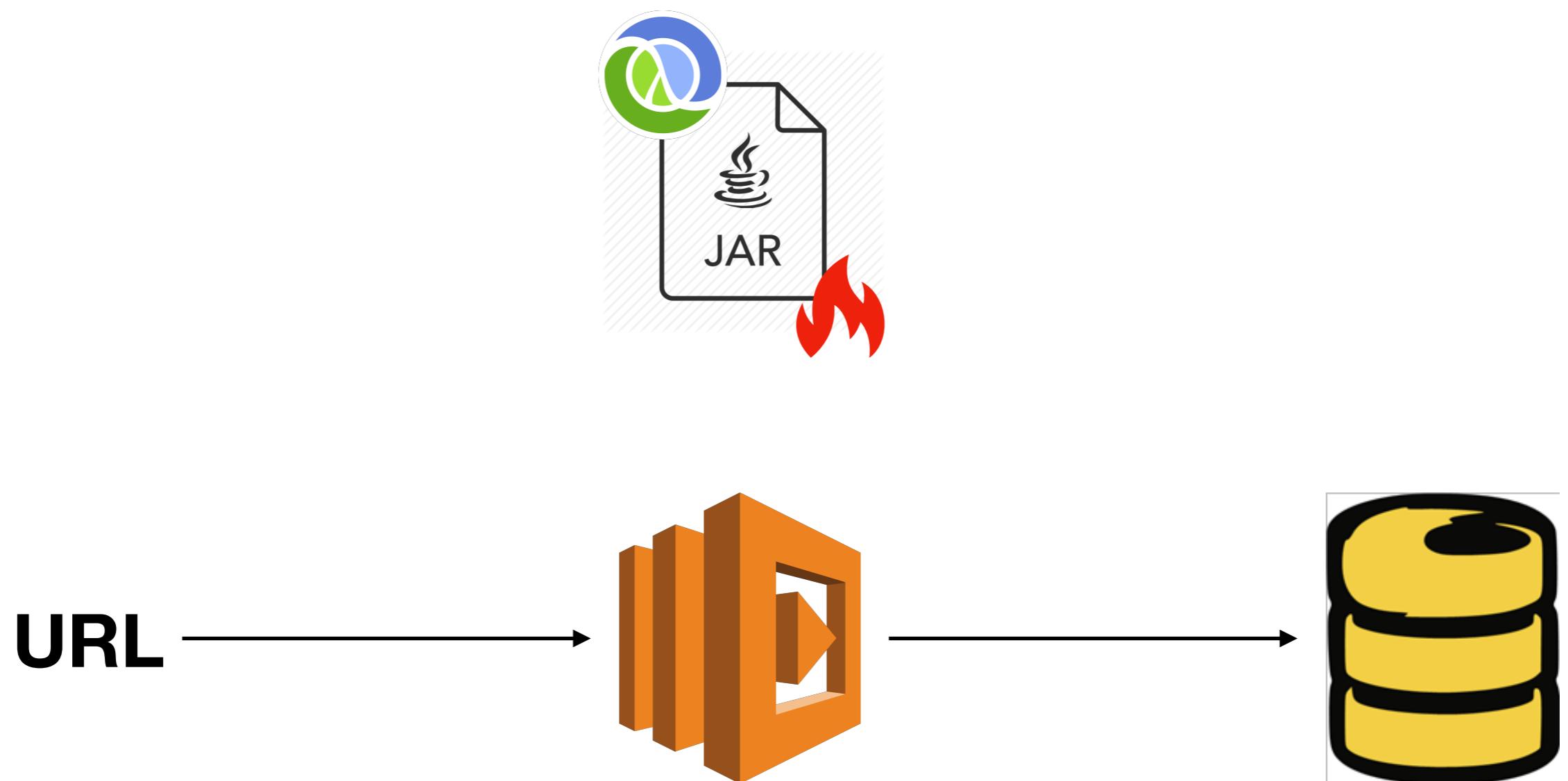
# Screenshot Lambda



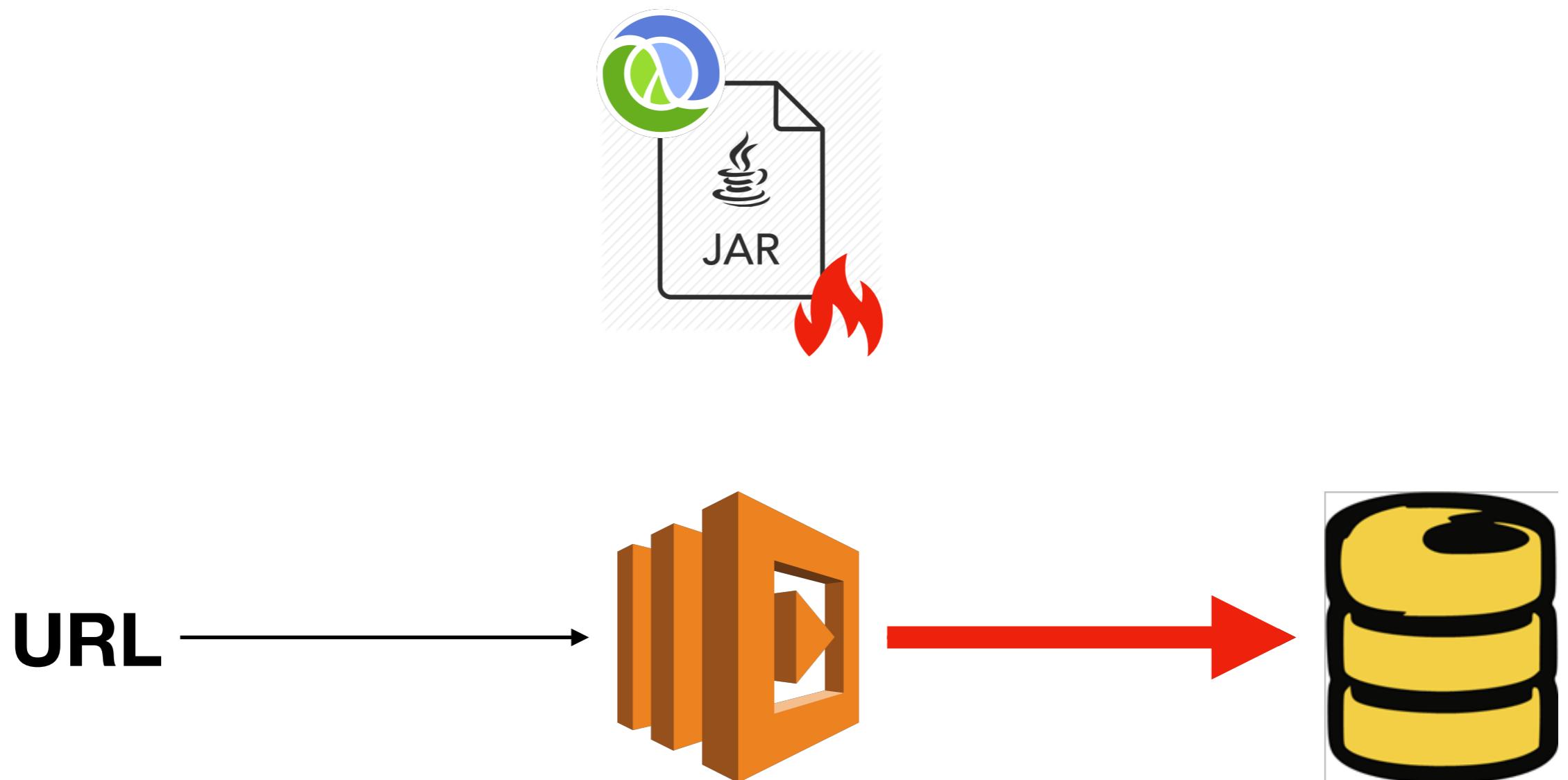
# Lambda Tester



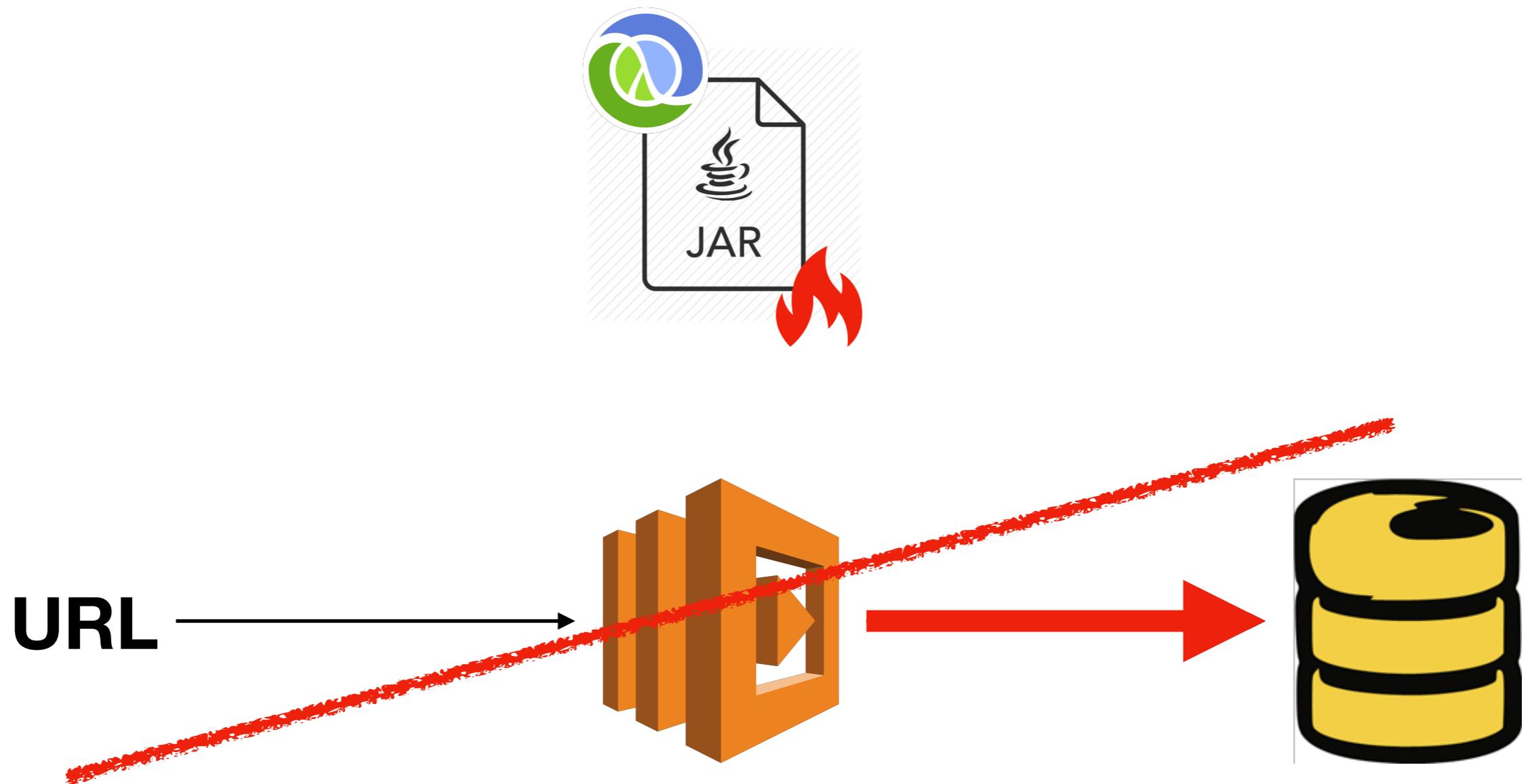
# Lambda Tester



# Lambda Tester



# Lambda Tester



# La solution

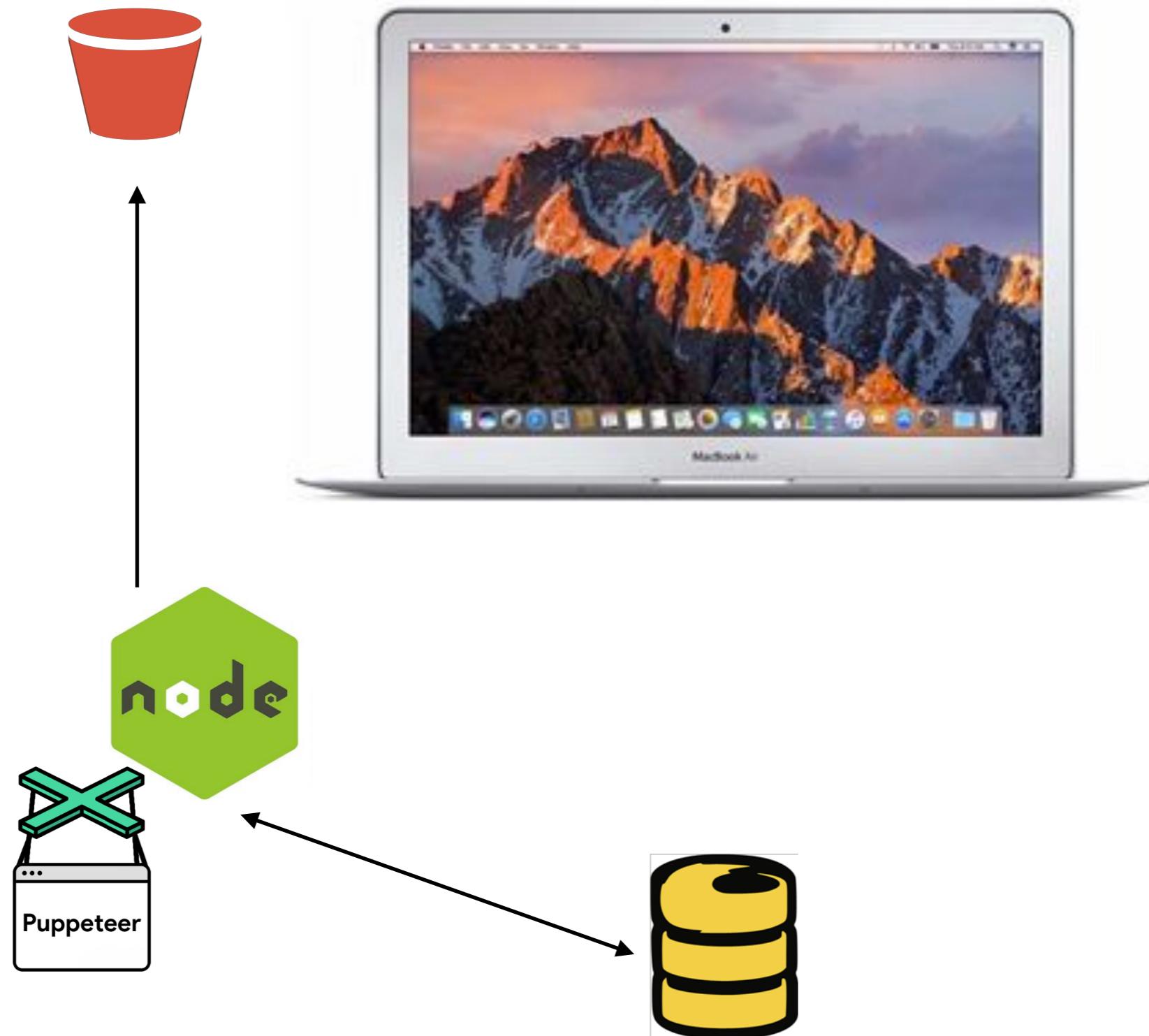
# La solution

Iteracode / Nightcode / nightcode  
**nightcode-so-sorry**

# MacBook « Cloud »



# MacBook « Cloud »



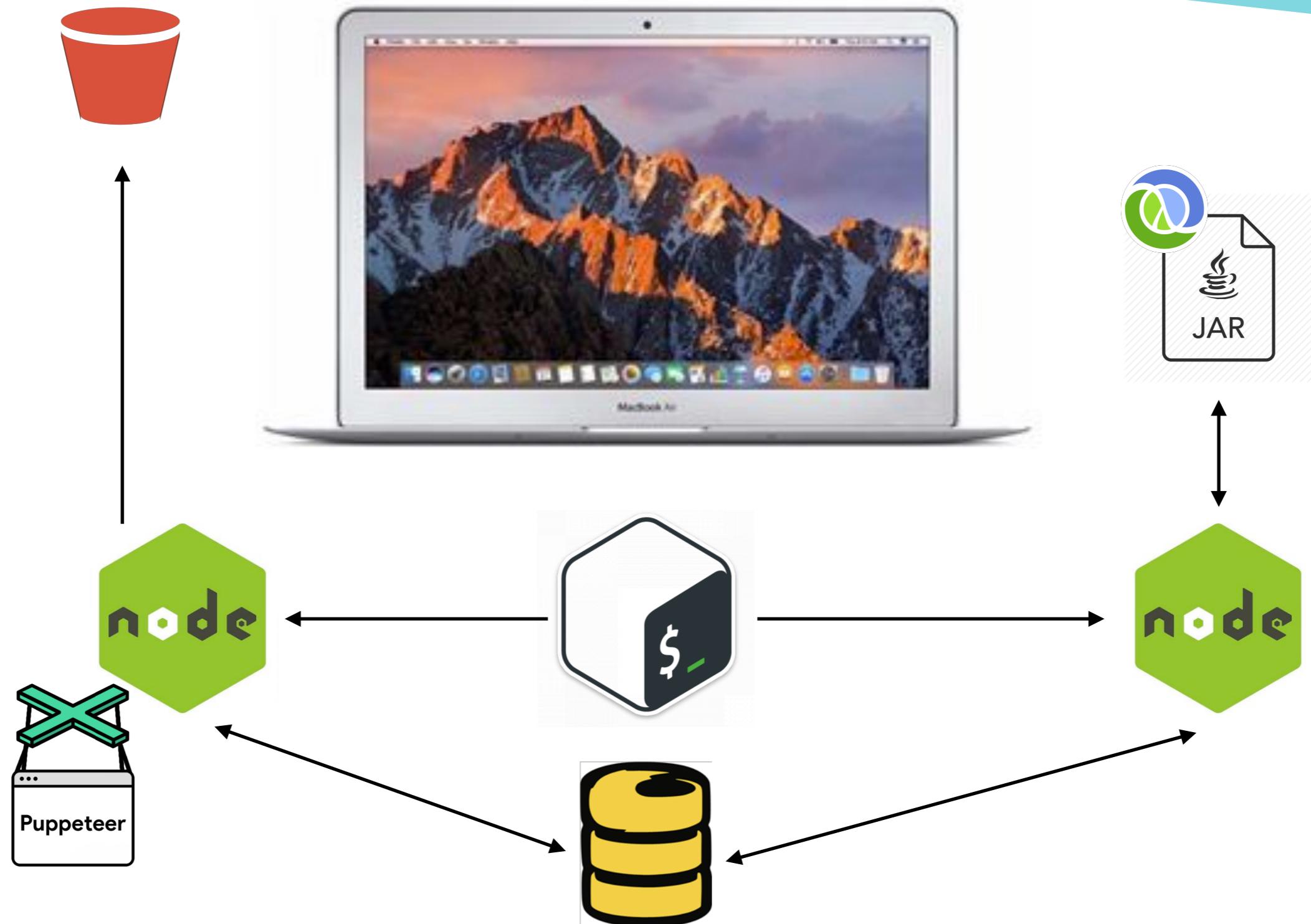
# MacBook « Cloud »



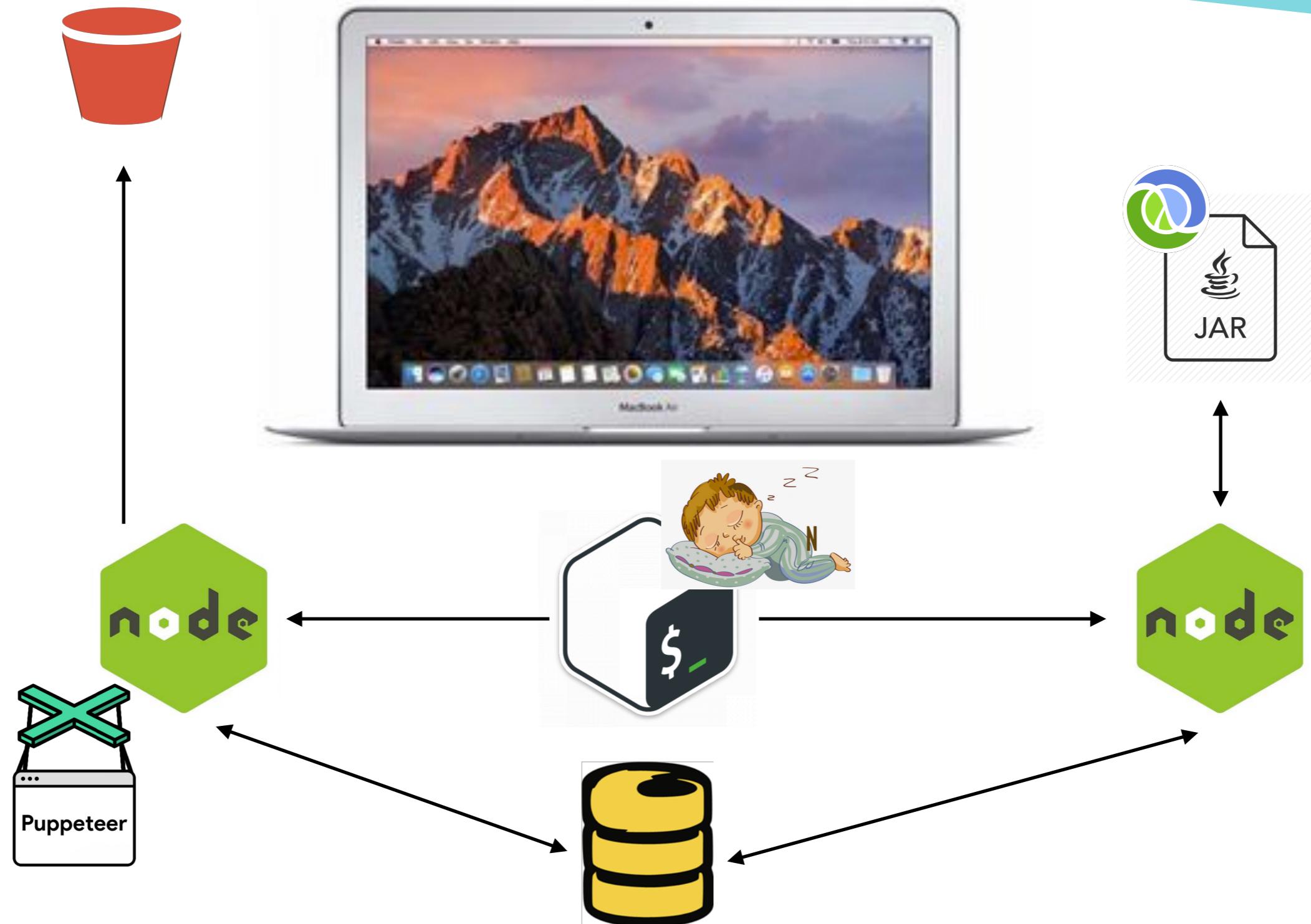
# MacBook « Cloud »



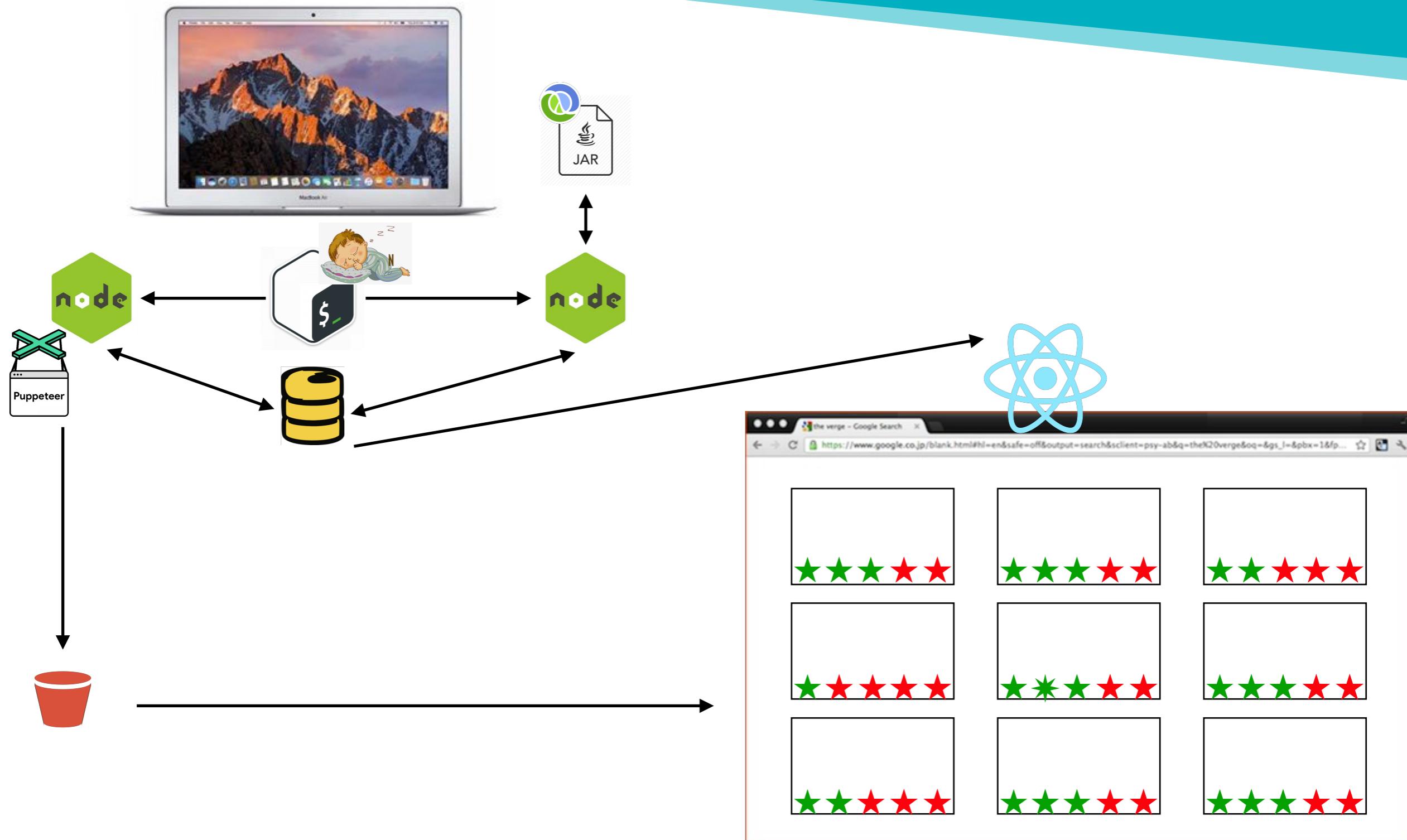
# MacBook « Cloud »



# MacBook « Cloud »

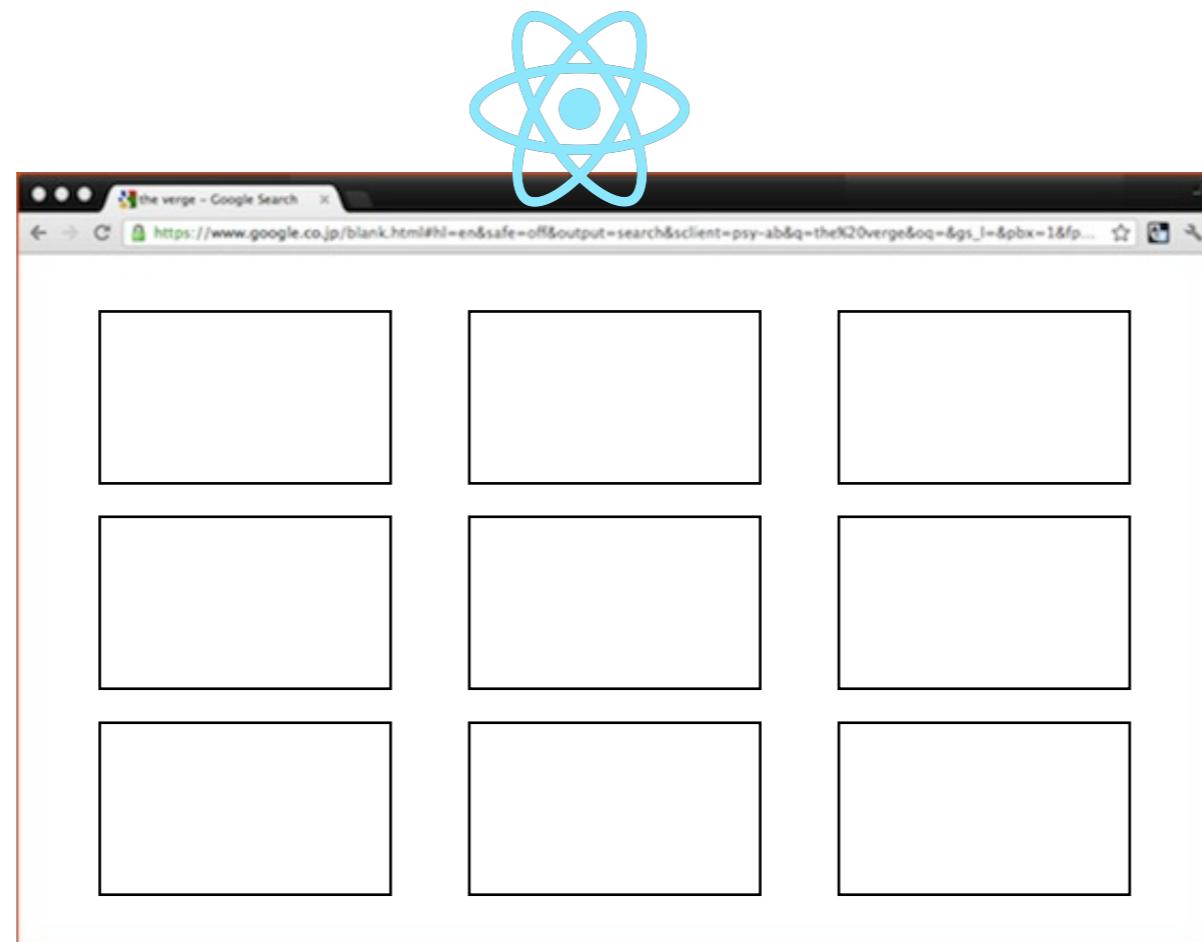


# Nightcode 2018 - Full

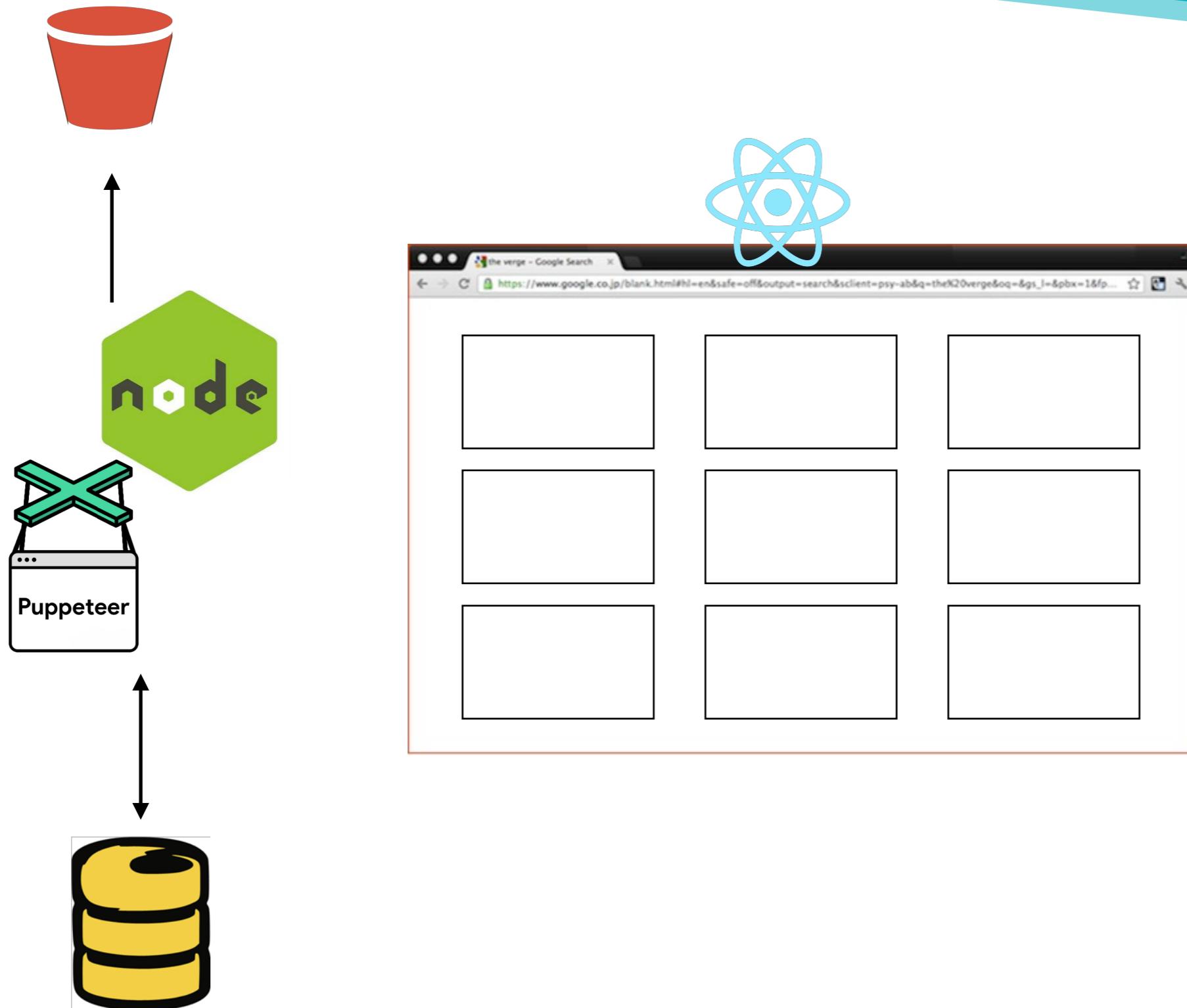


# Un an plus tard

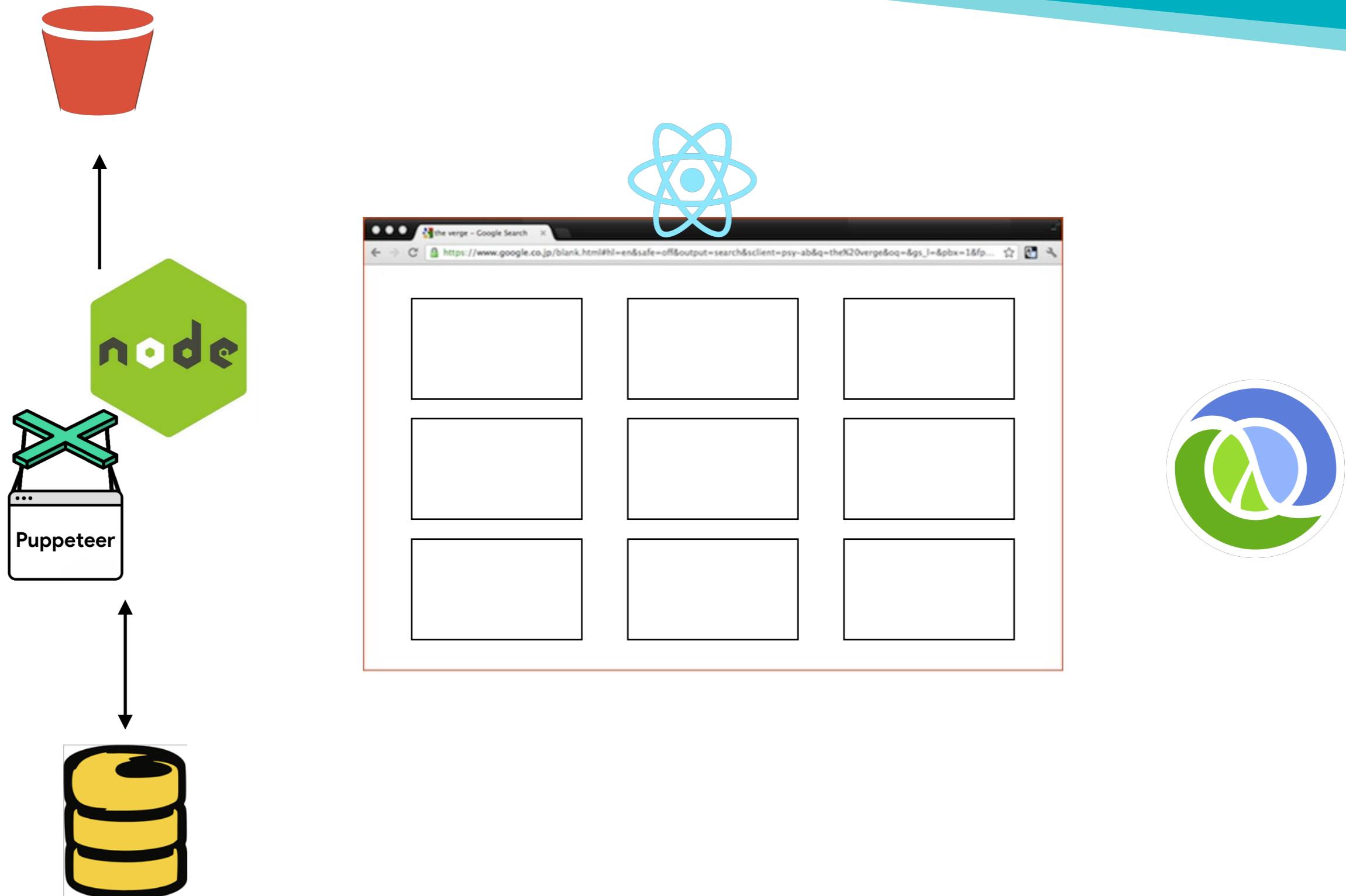
# Legacy



# Legacy



# Legacy

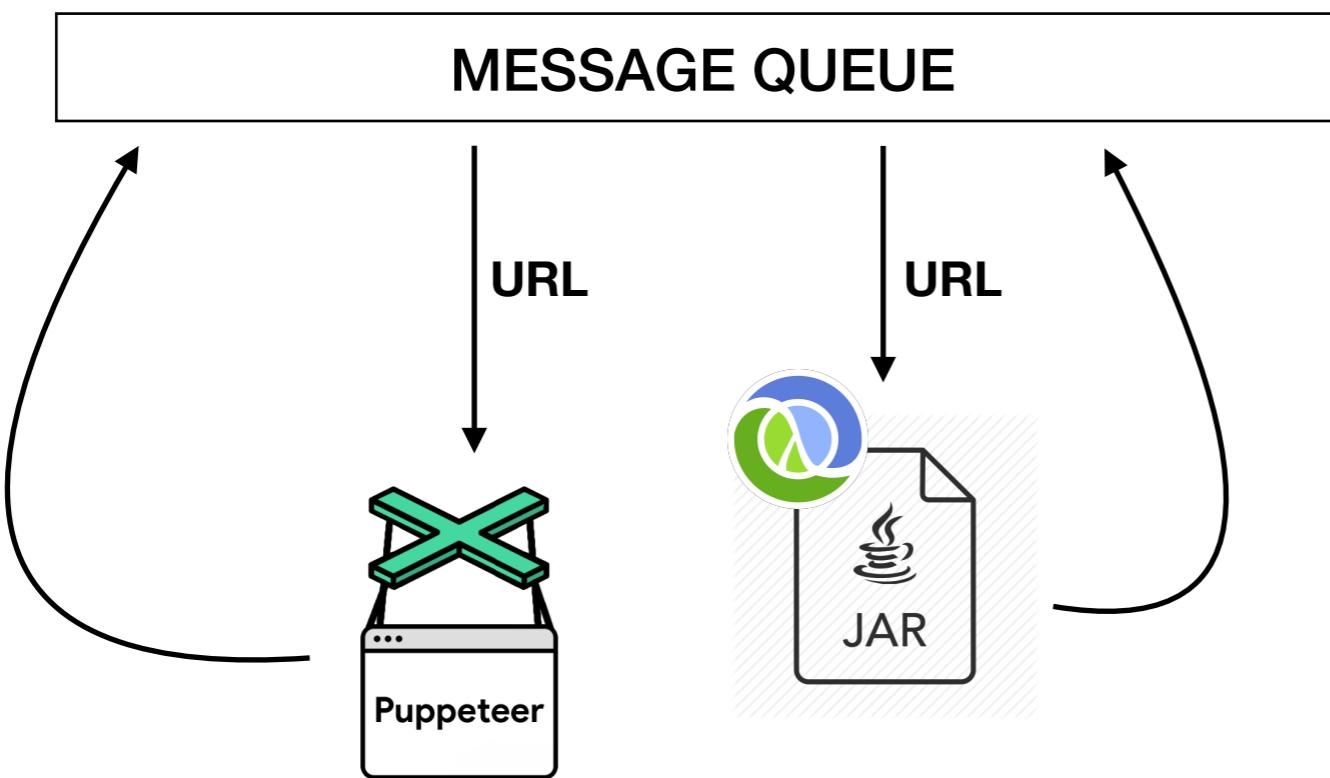


# Lazy Coupling

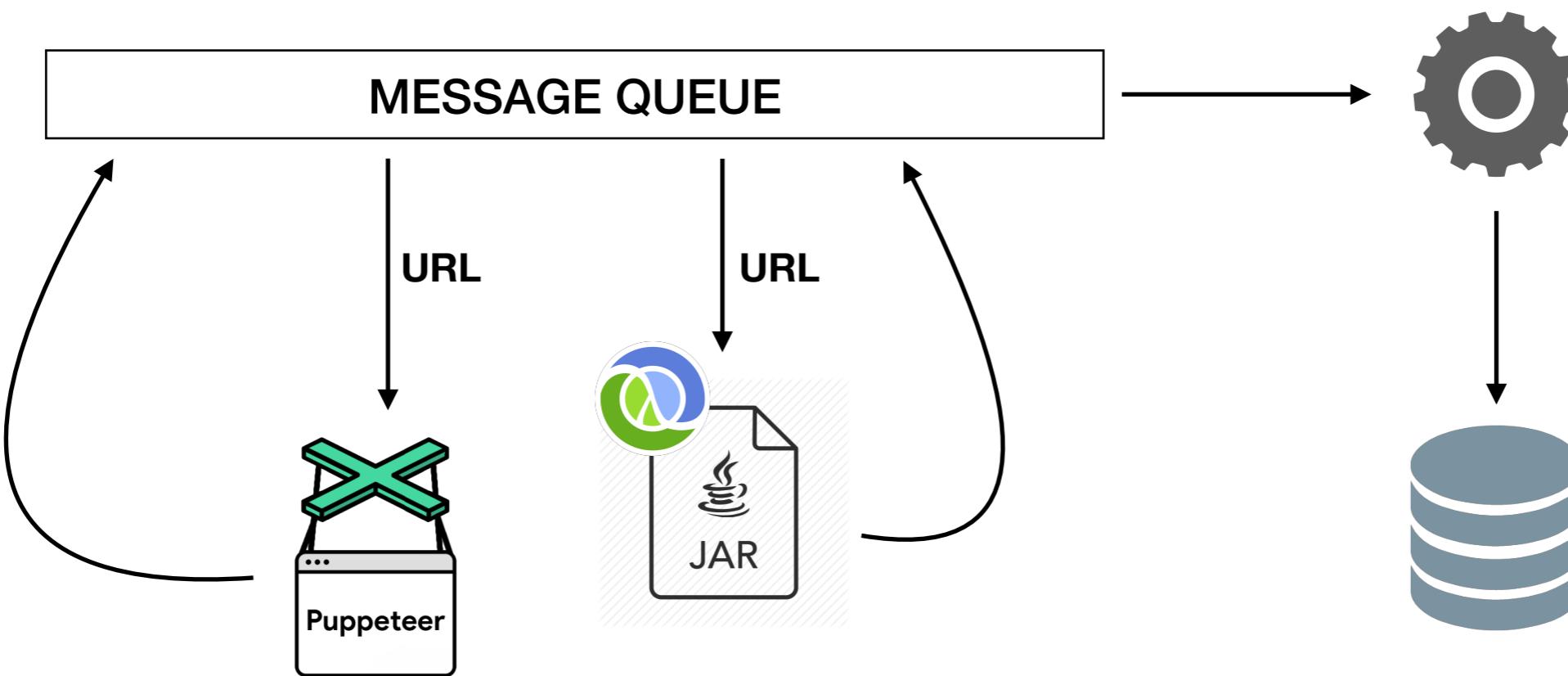


**MESSAGE QUEUE**

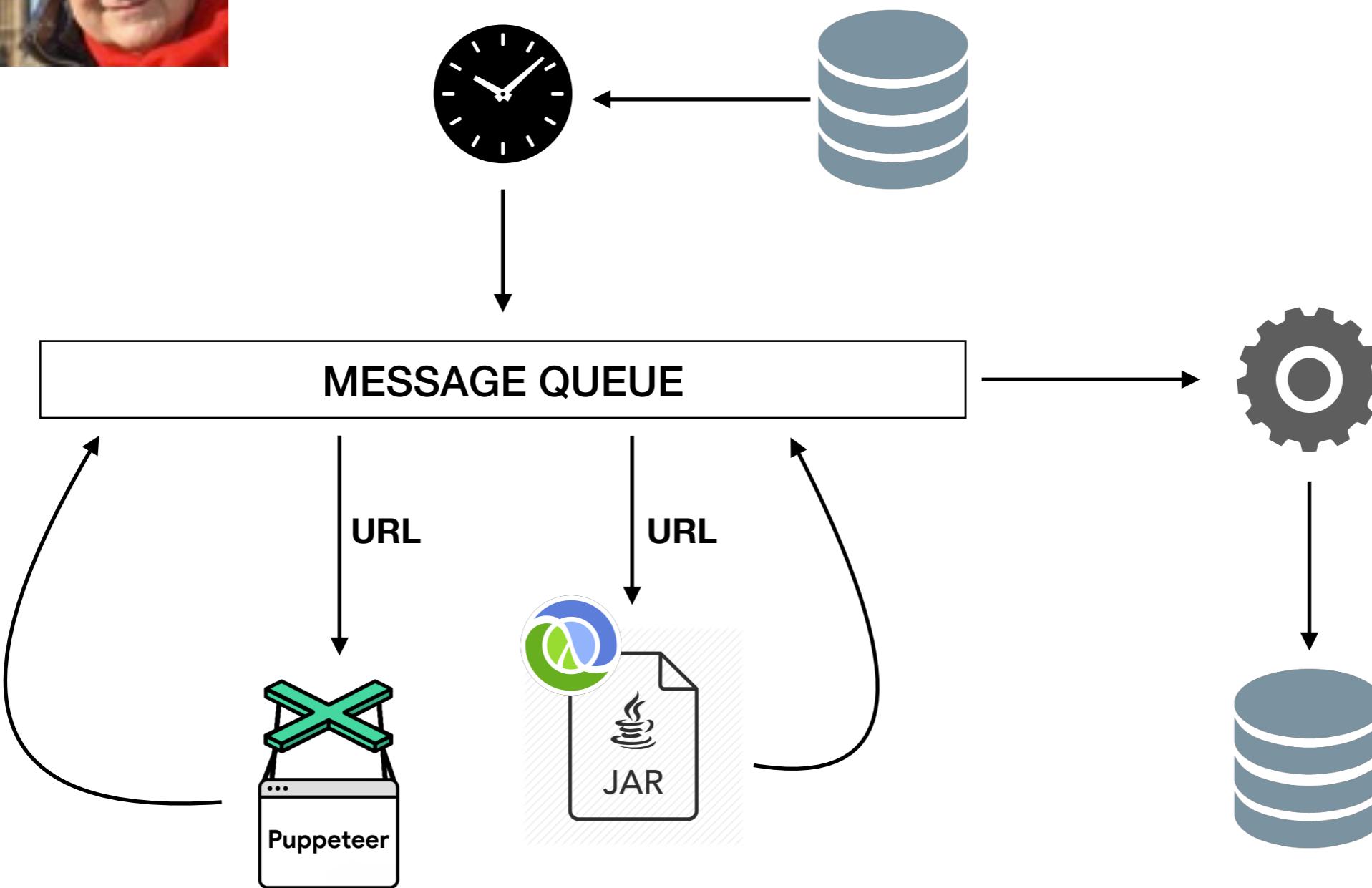
# Lazy Coupling



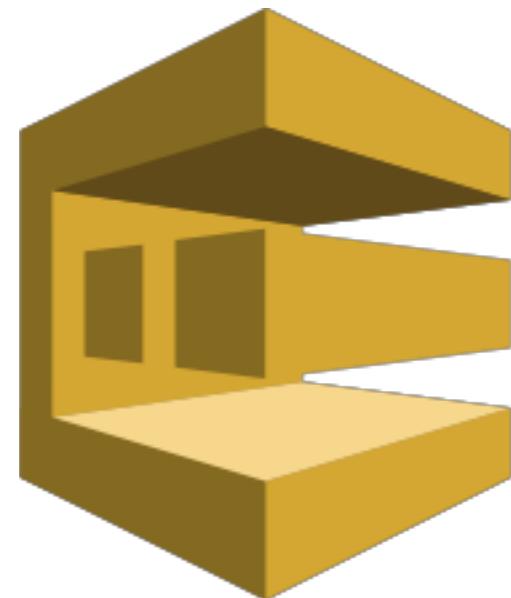
# Lazy Coupling



# Lazy Coupling

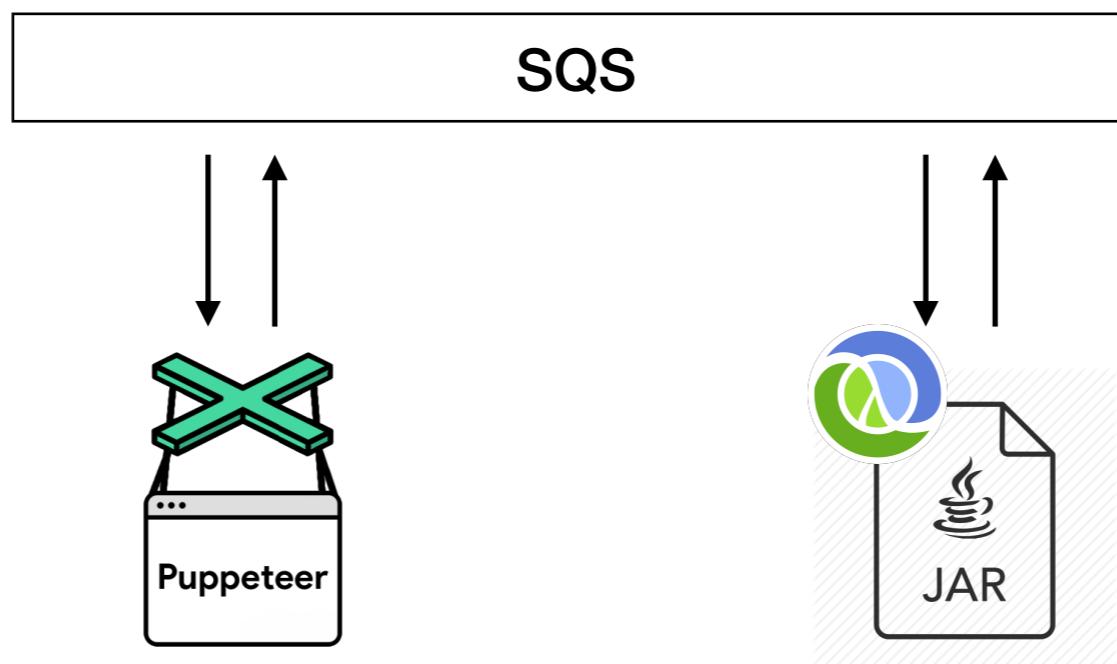


AWS ?

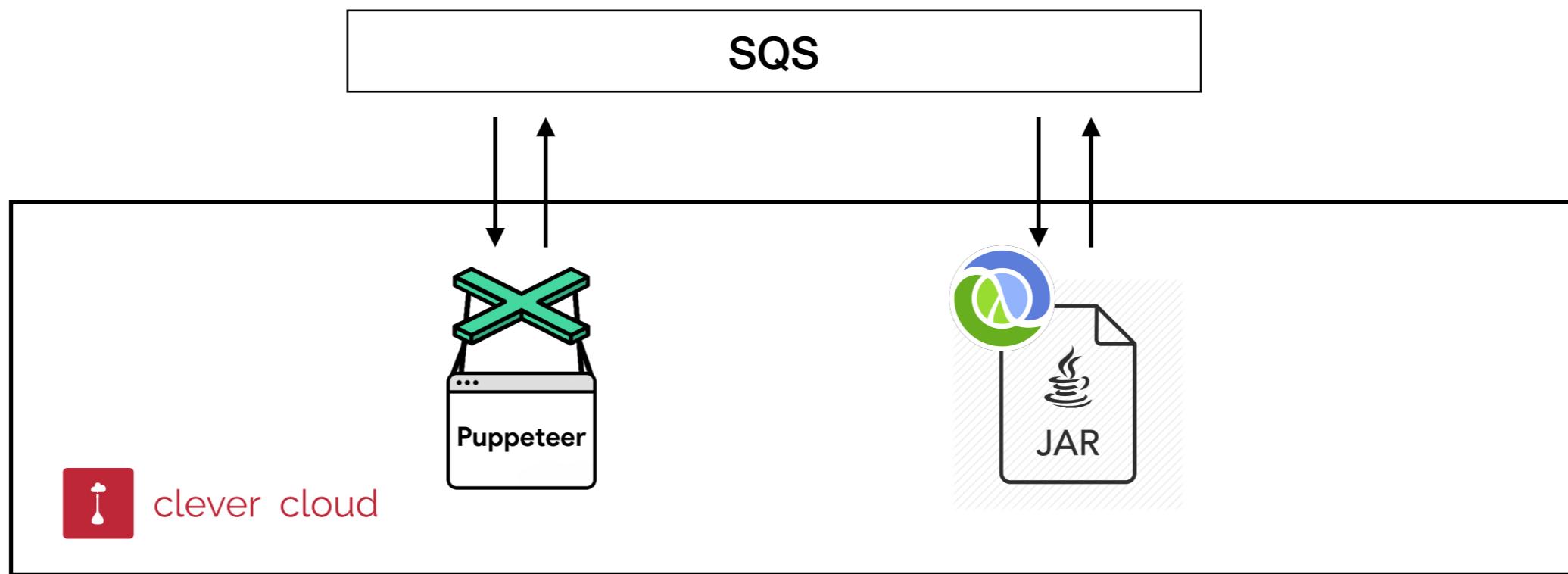


amazon  
SQS

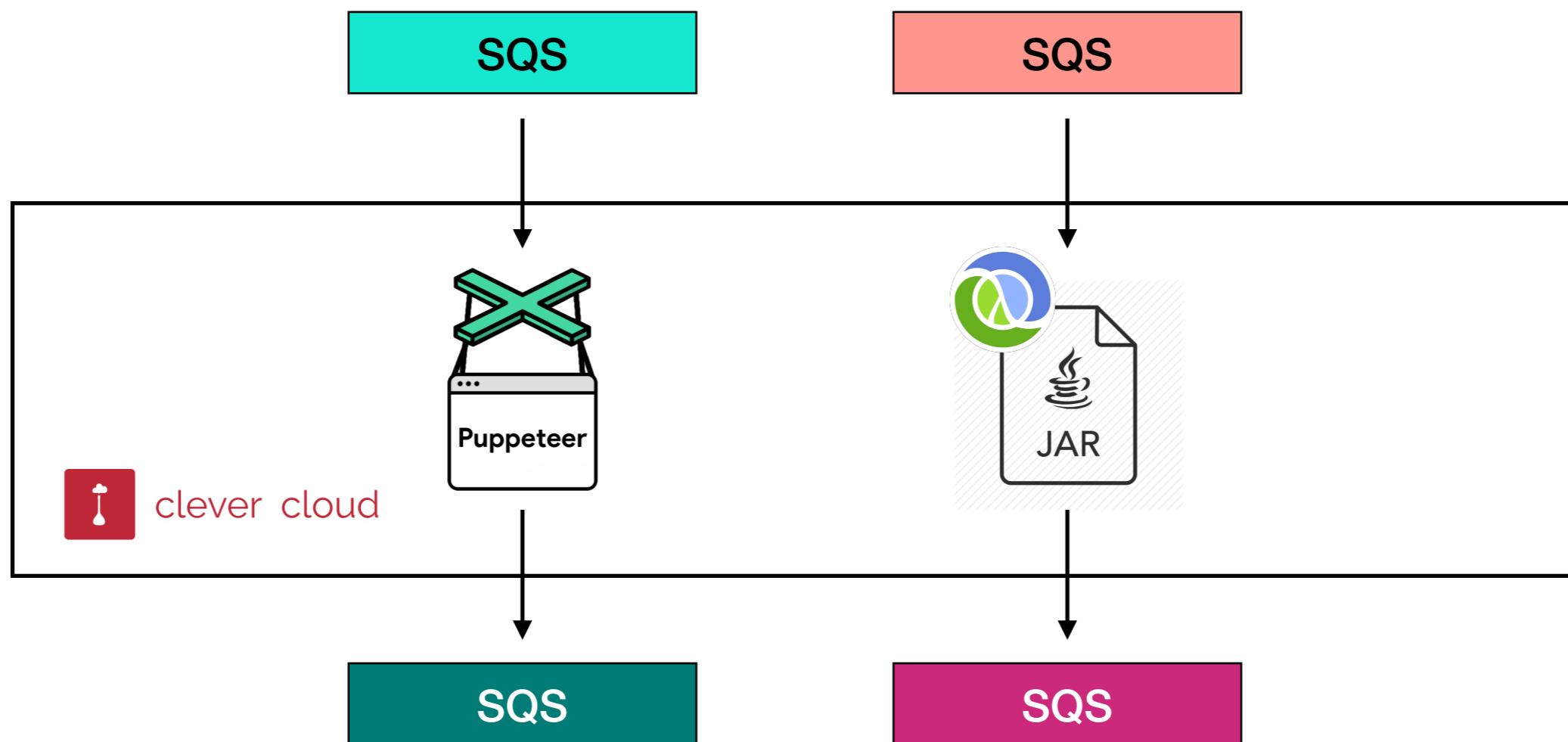
# Déployer !!!



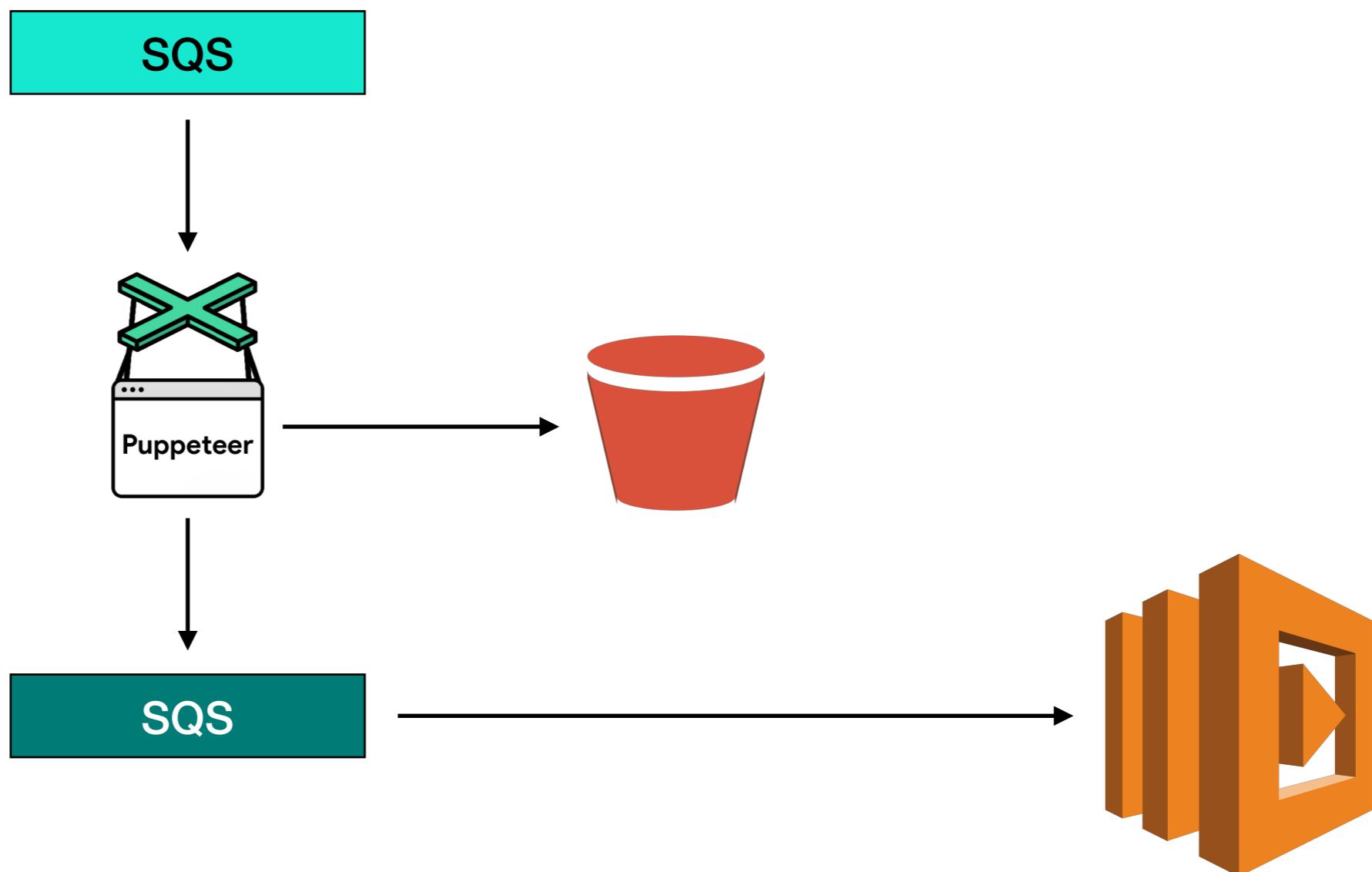
# Déployer !!!



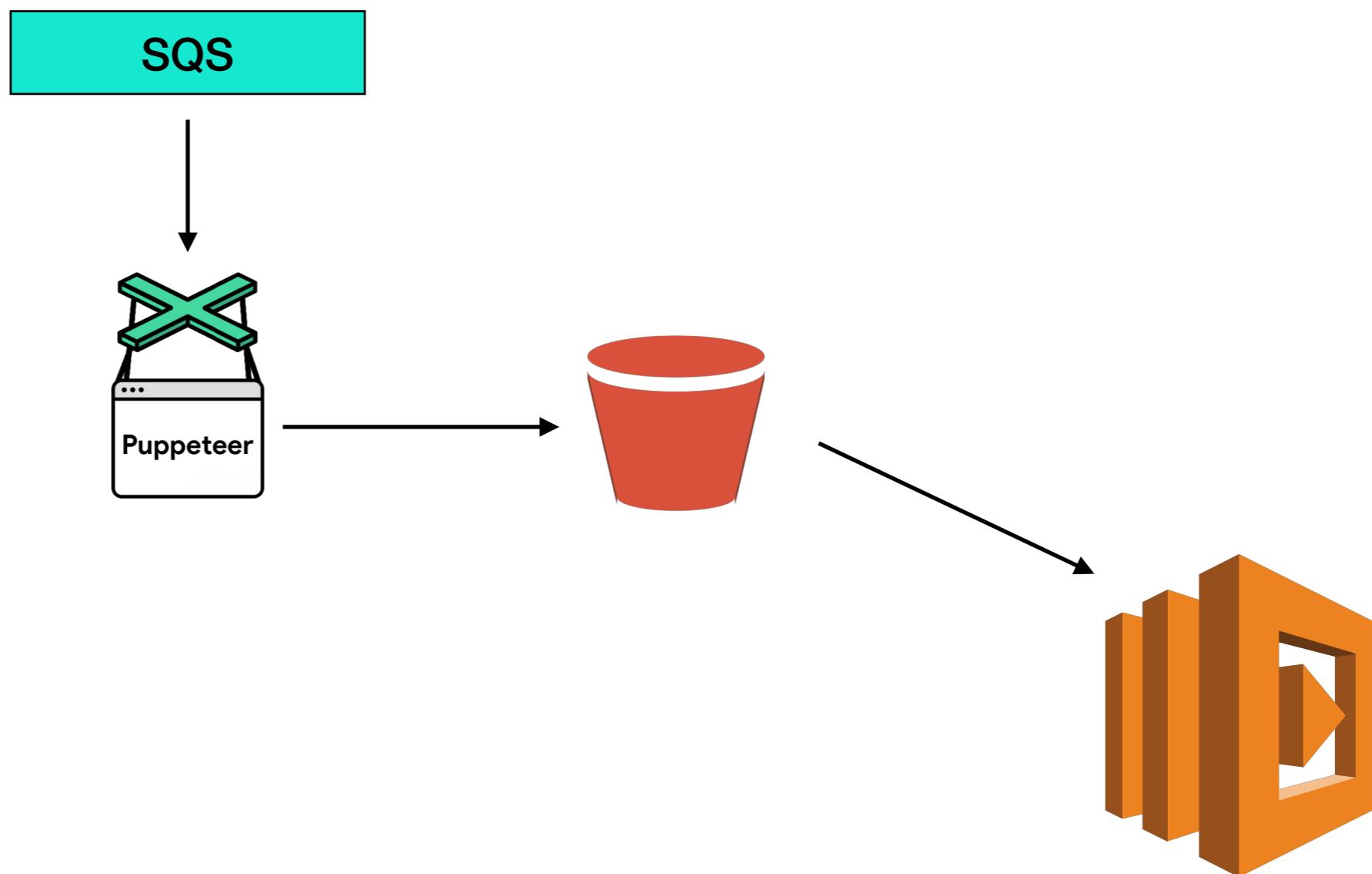
# La réalité



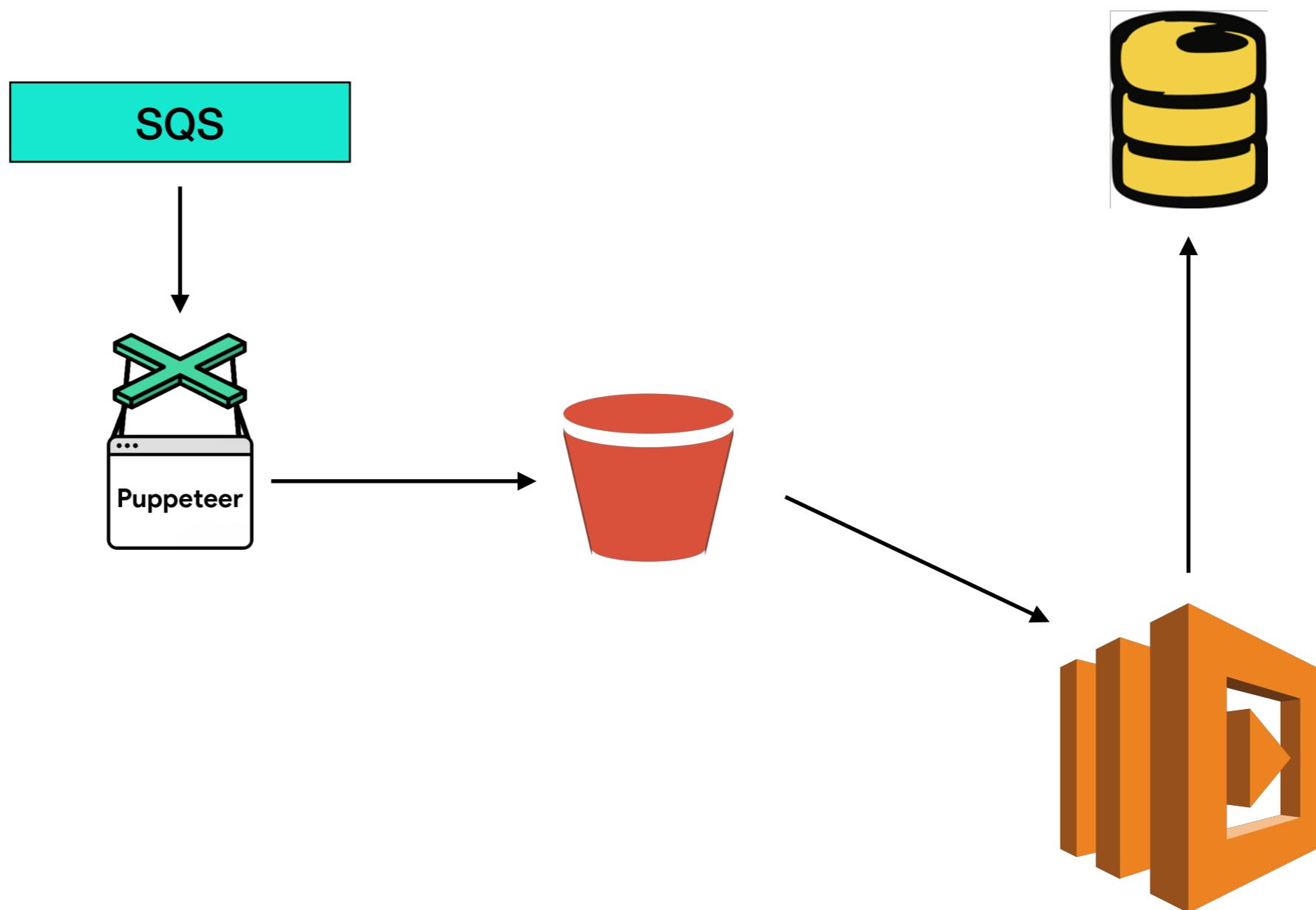
# Screenshoter



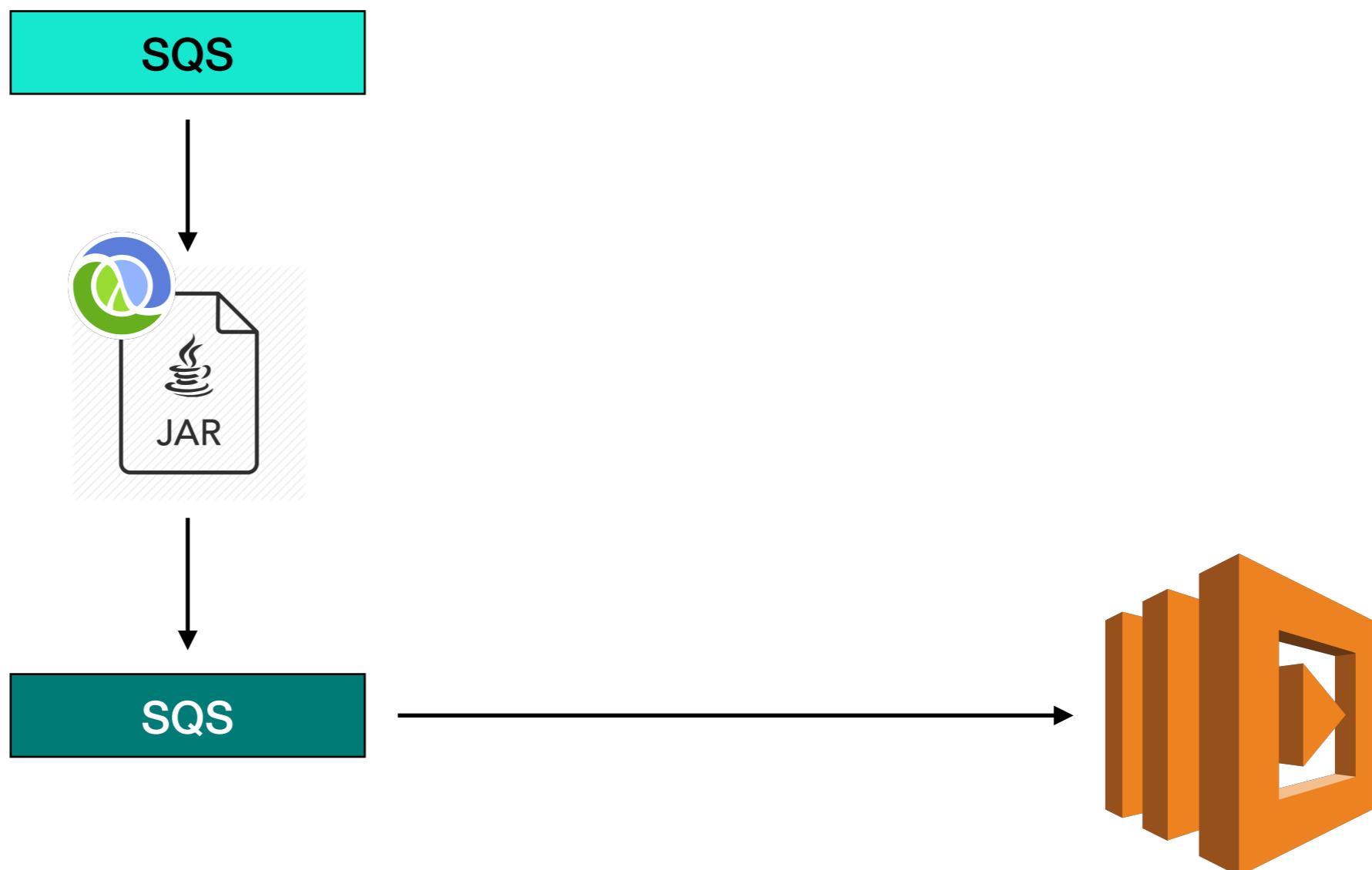
# Screenshoter



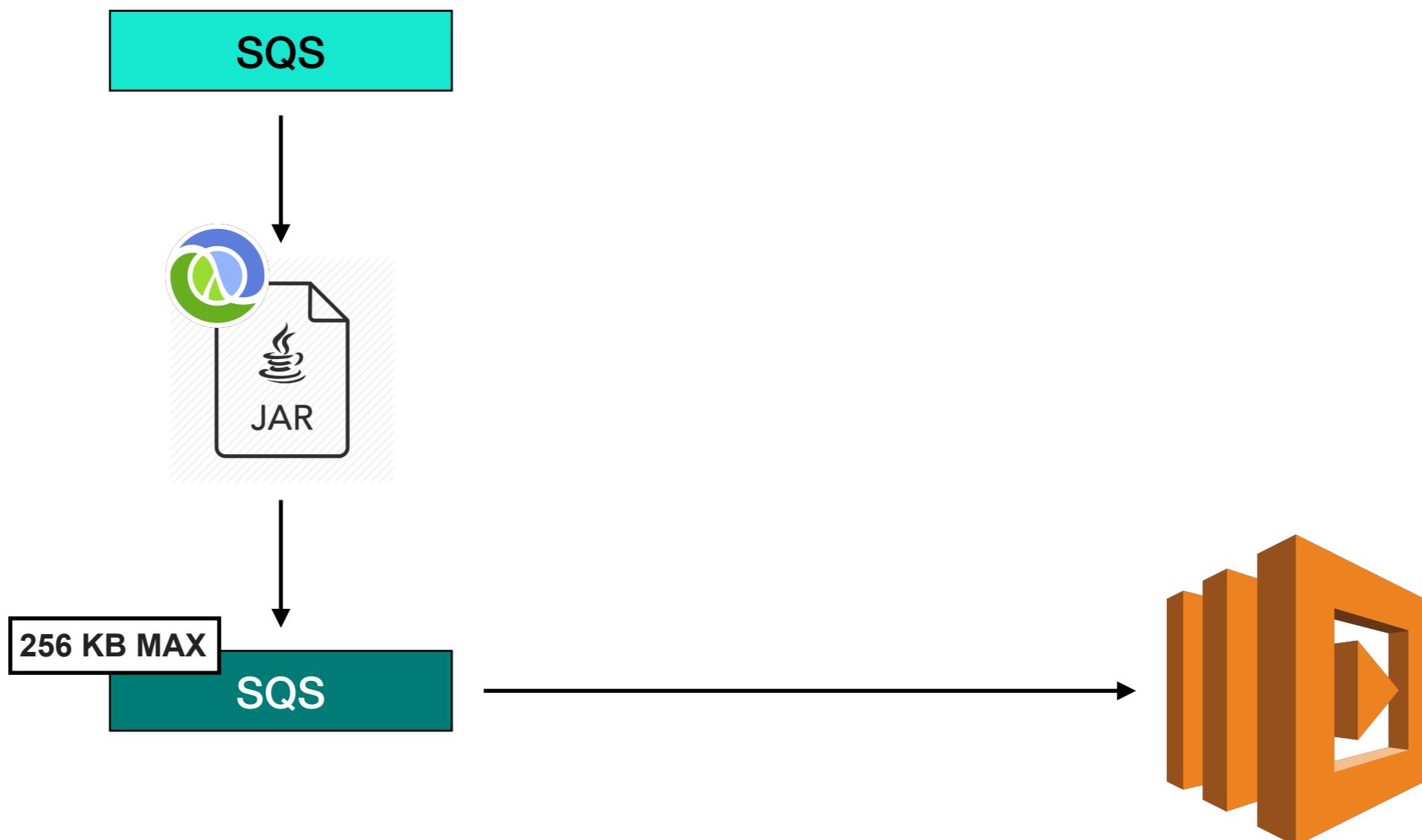
# Screenshoter



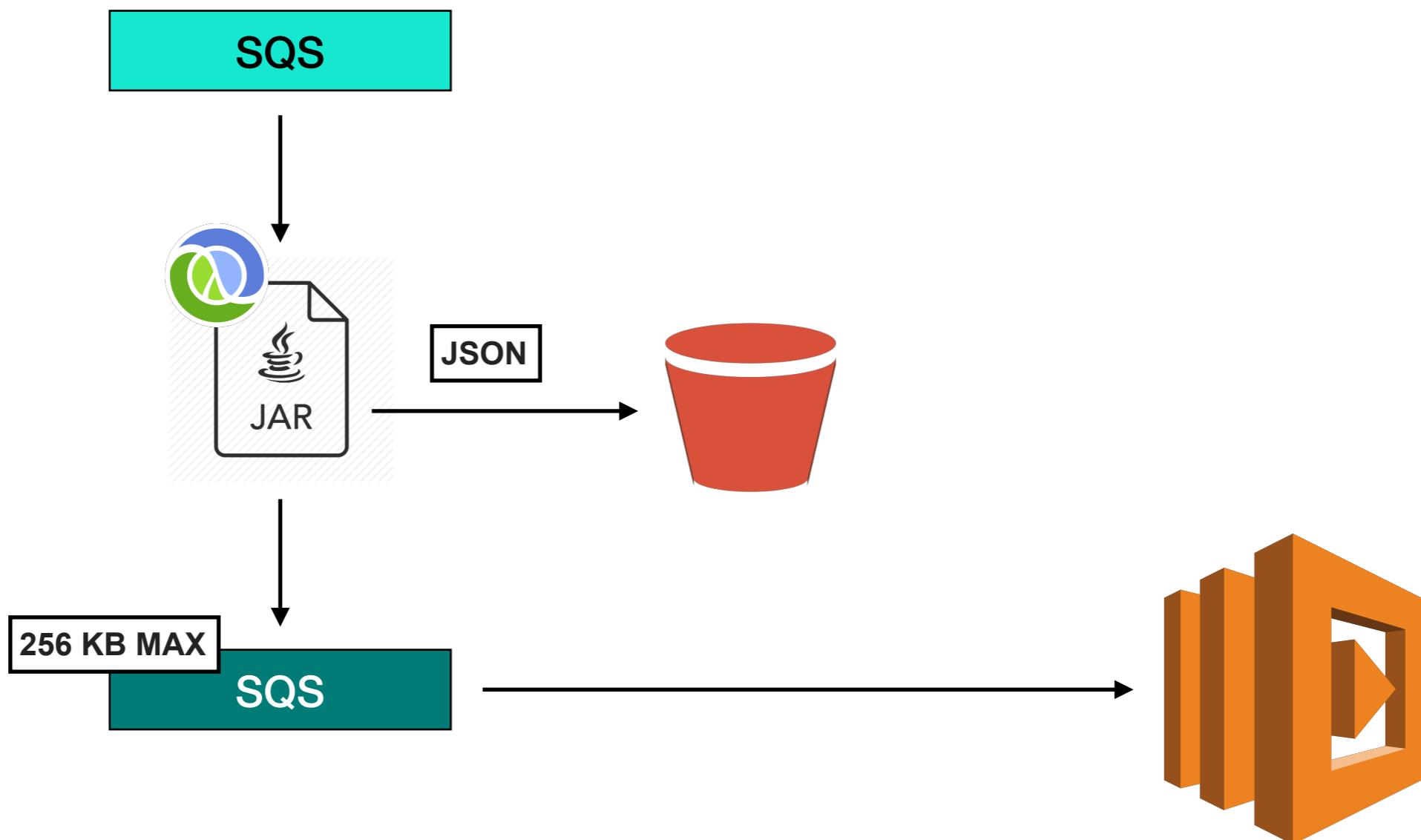
# Pathfinder



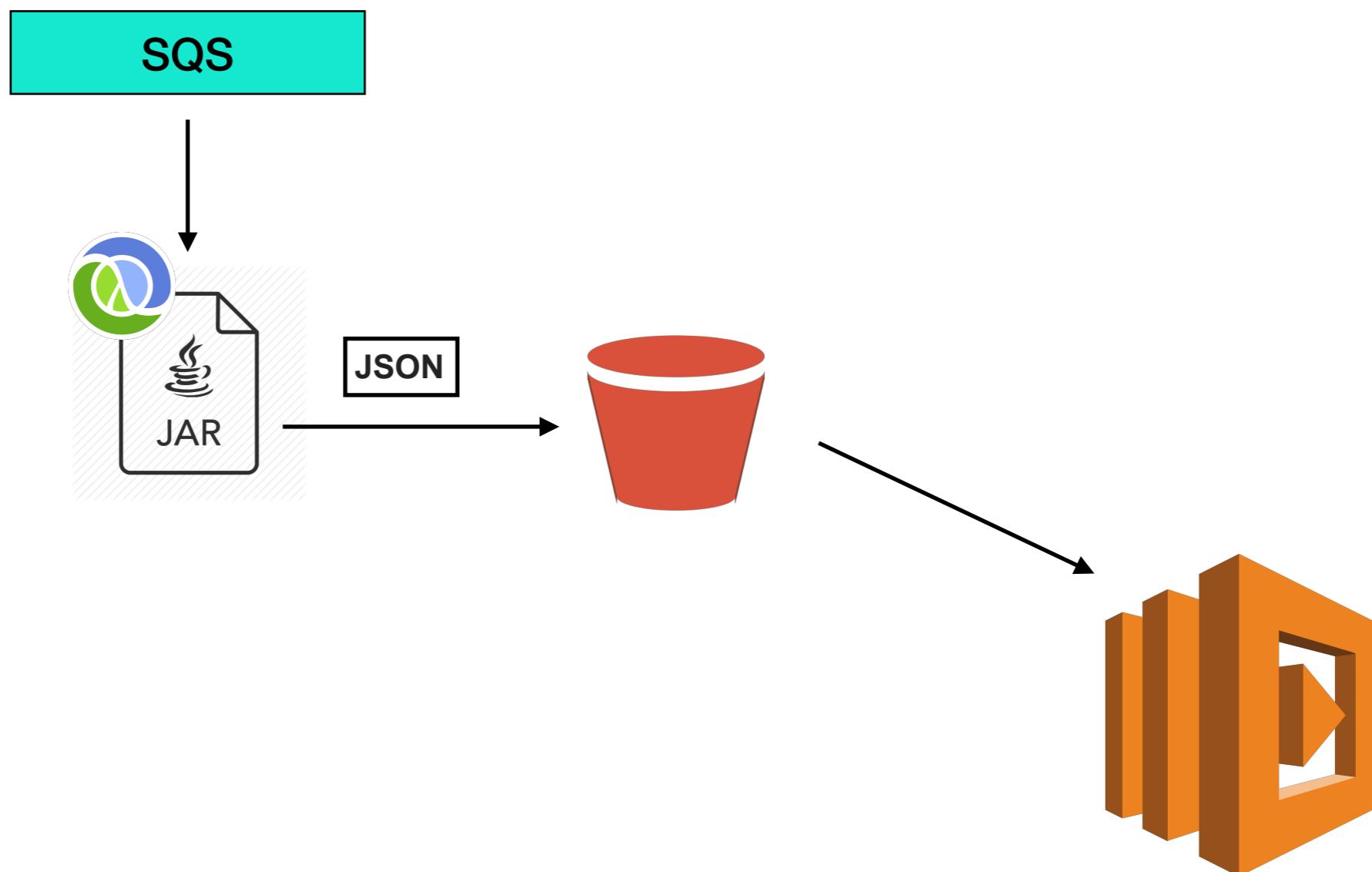
# Pathfinder



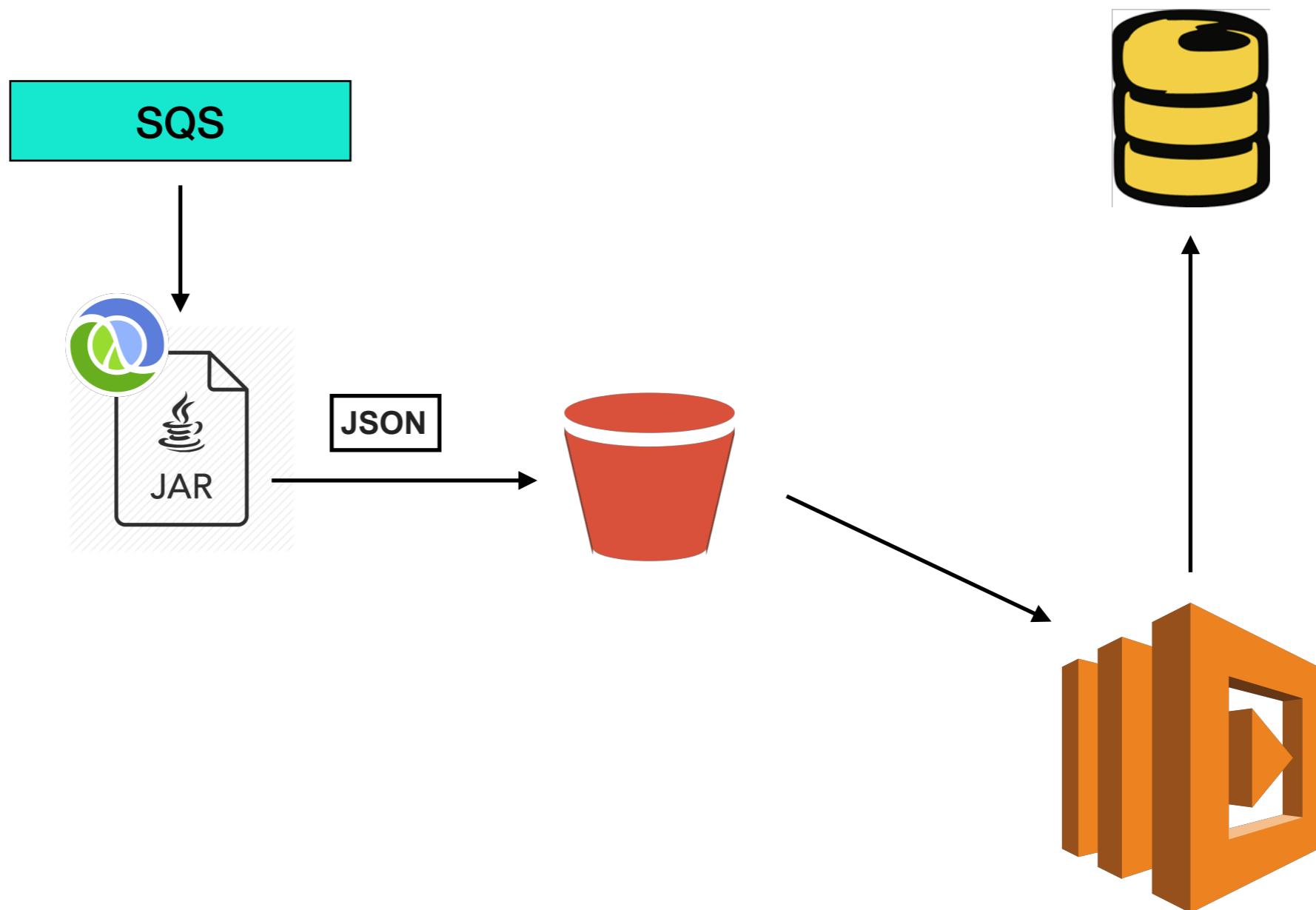
# Pathfinder



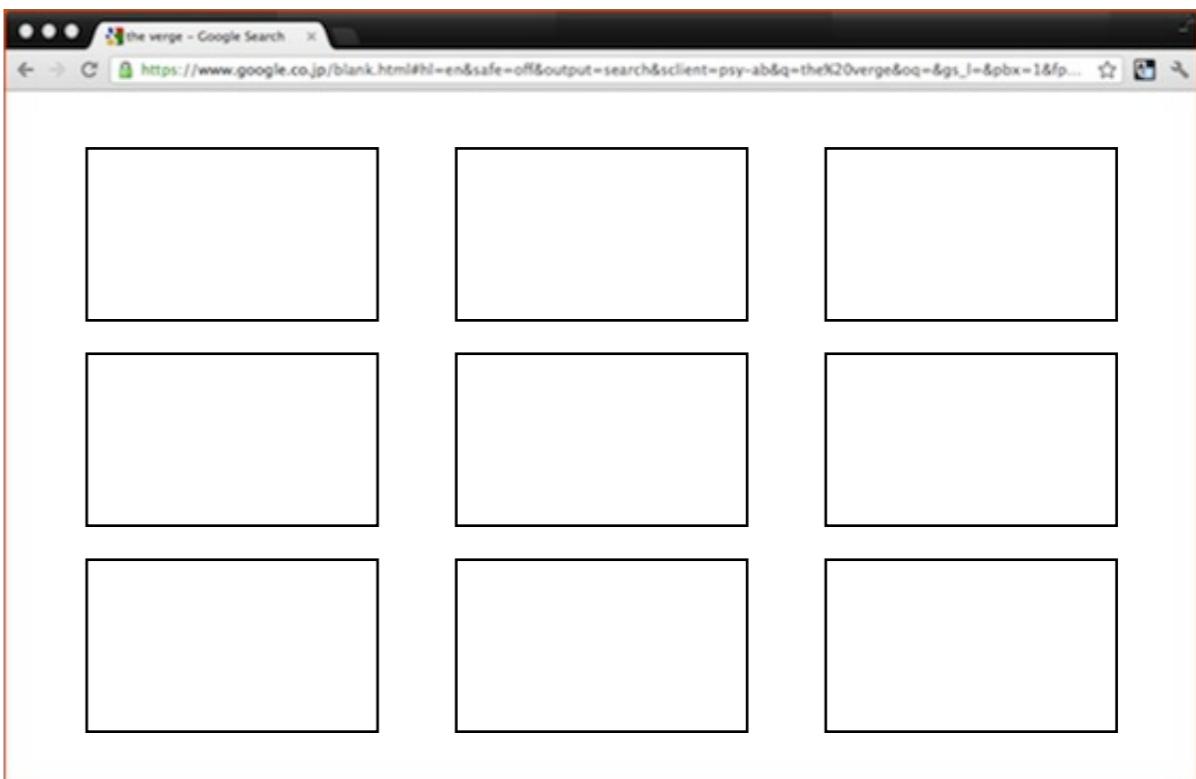
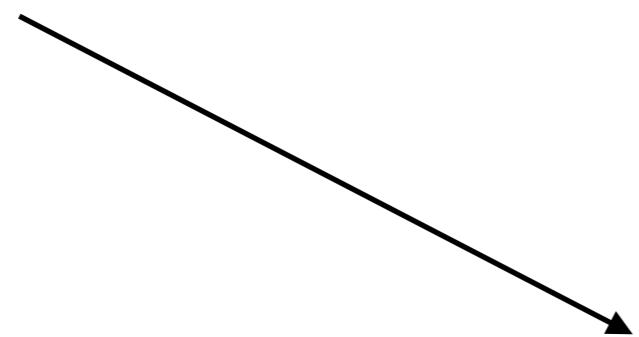
# Pathfinder



# Pathfinder

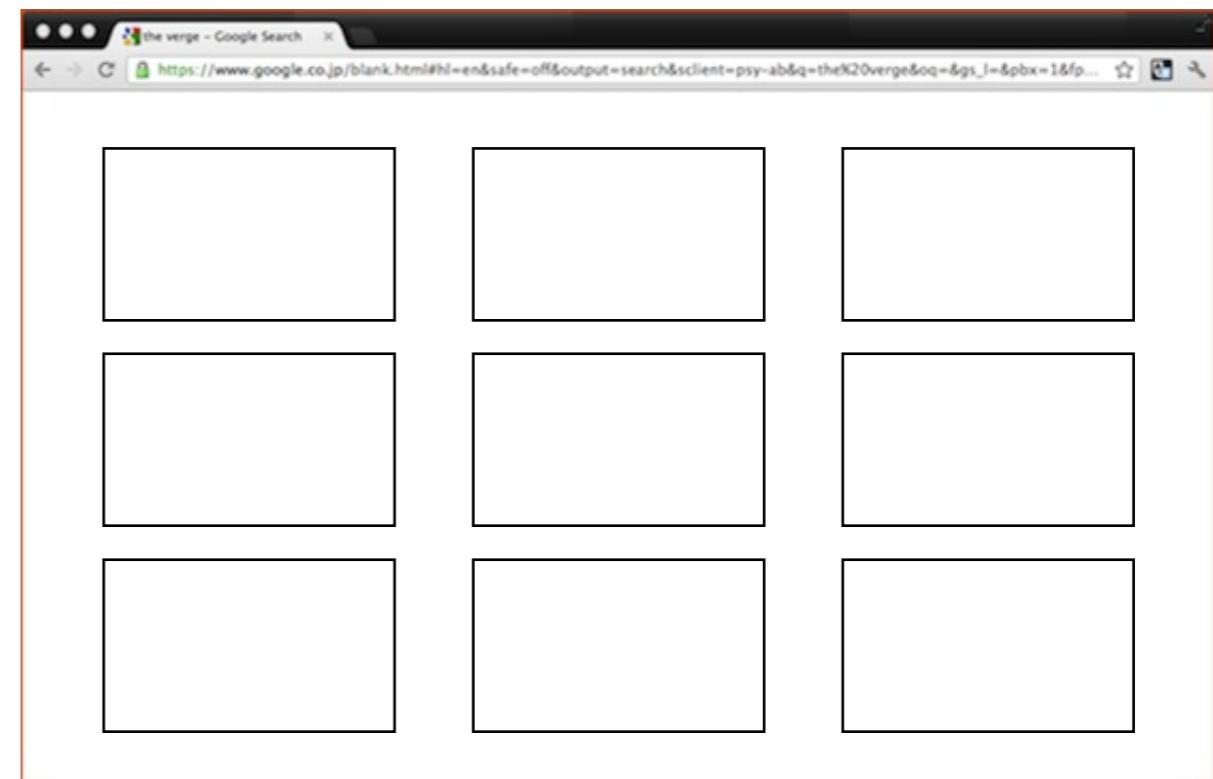
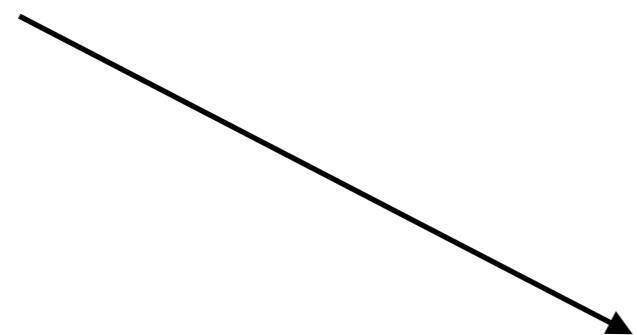


# CloudFront



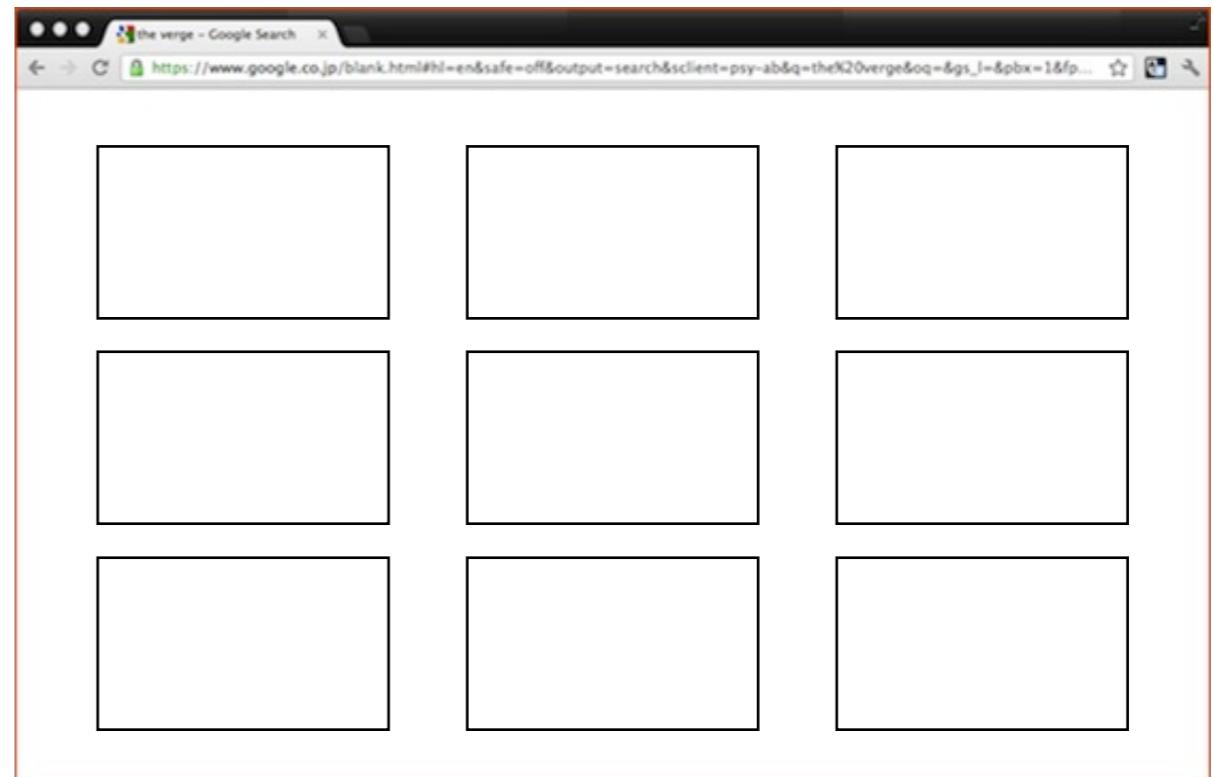
# CloudFront

PUBLIC !!!

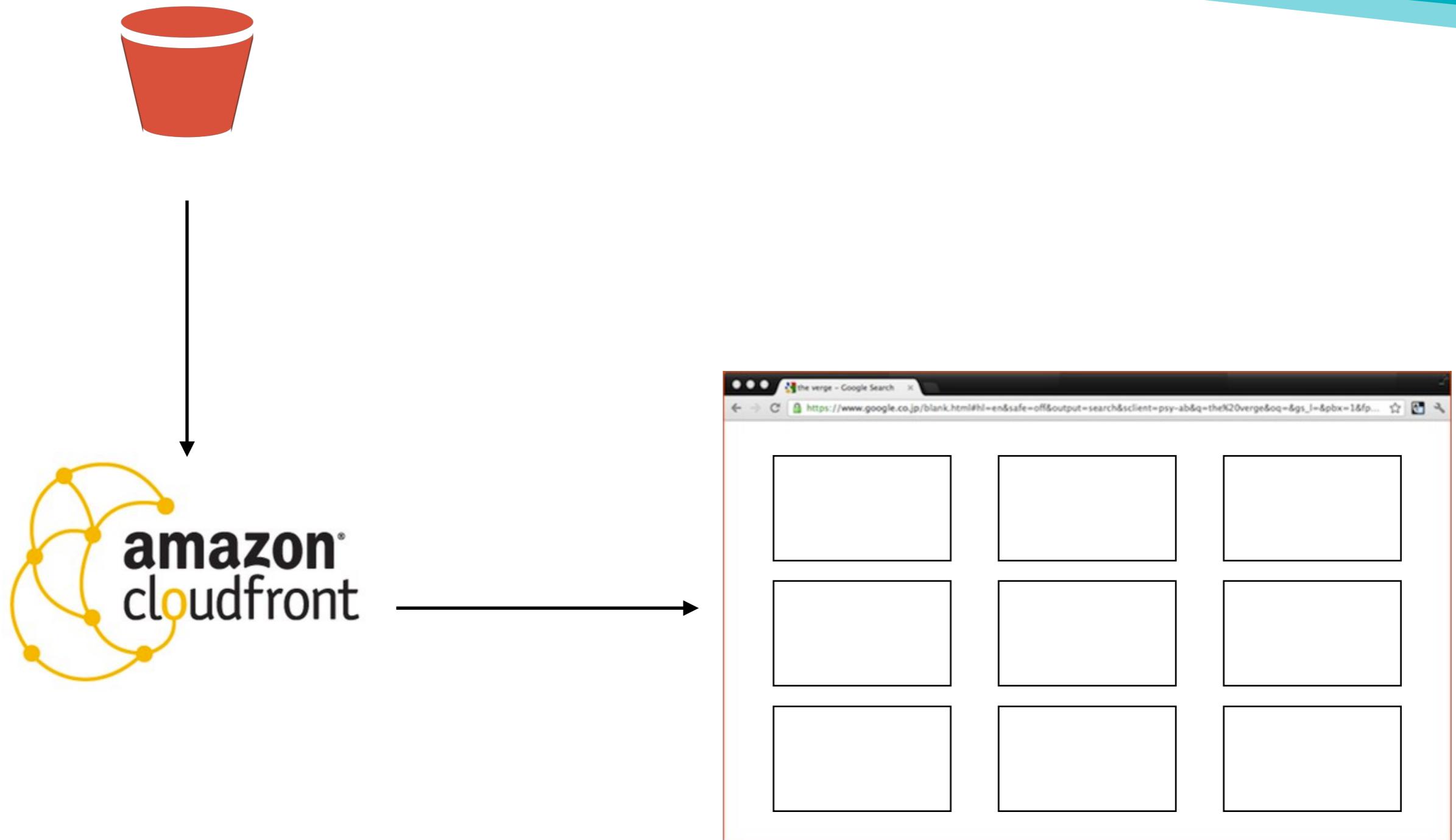


# CloudFront

PUBLIC !!!



# CloudFront



# Configuration AWS

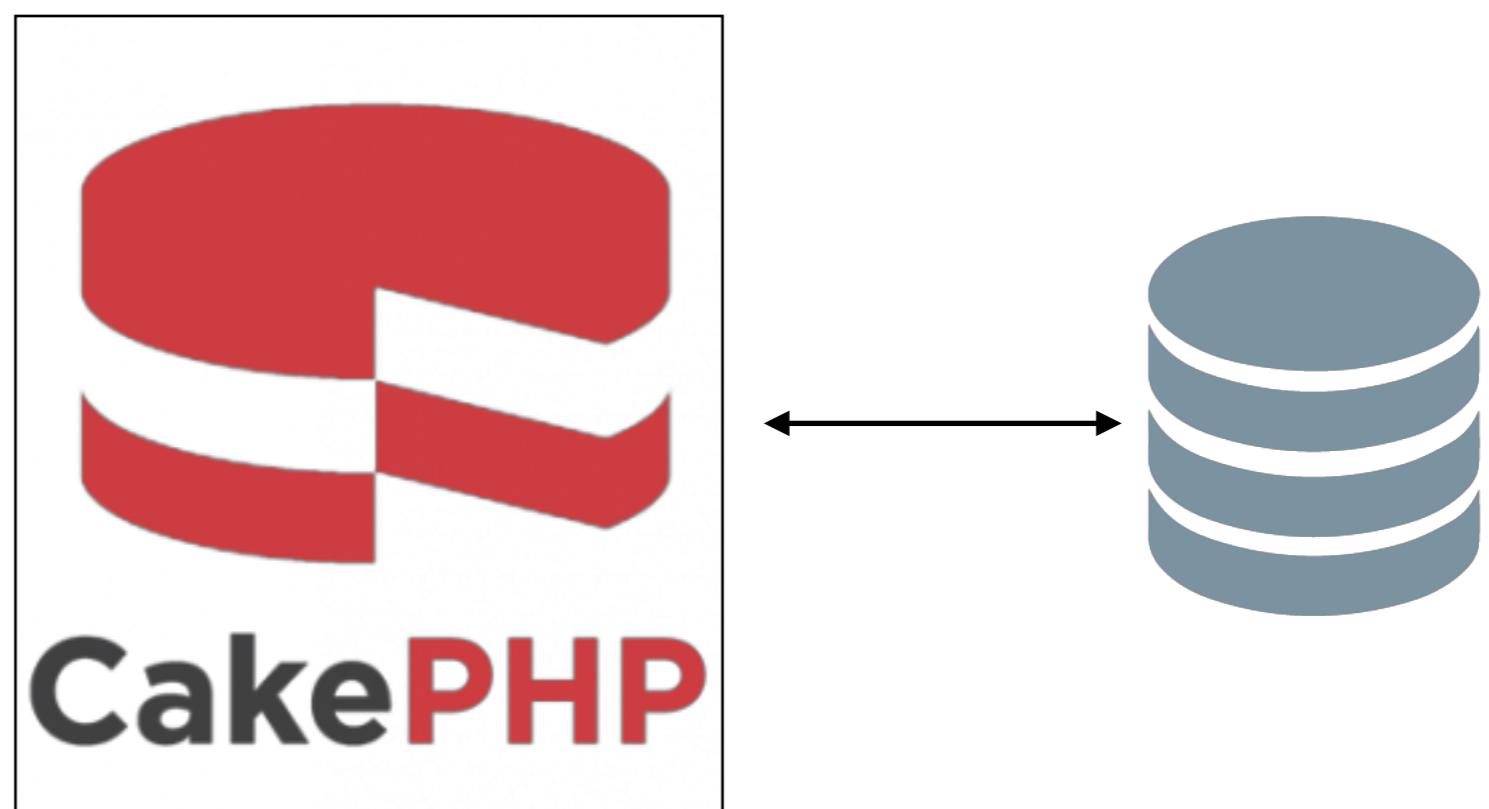
# Infra as Code...



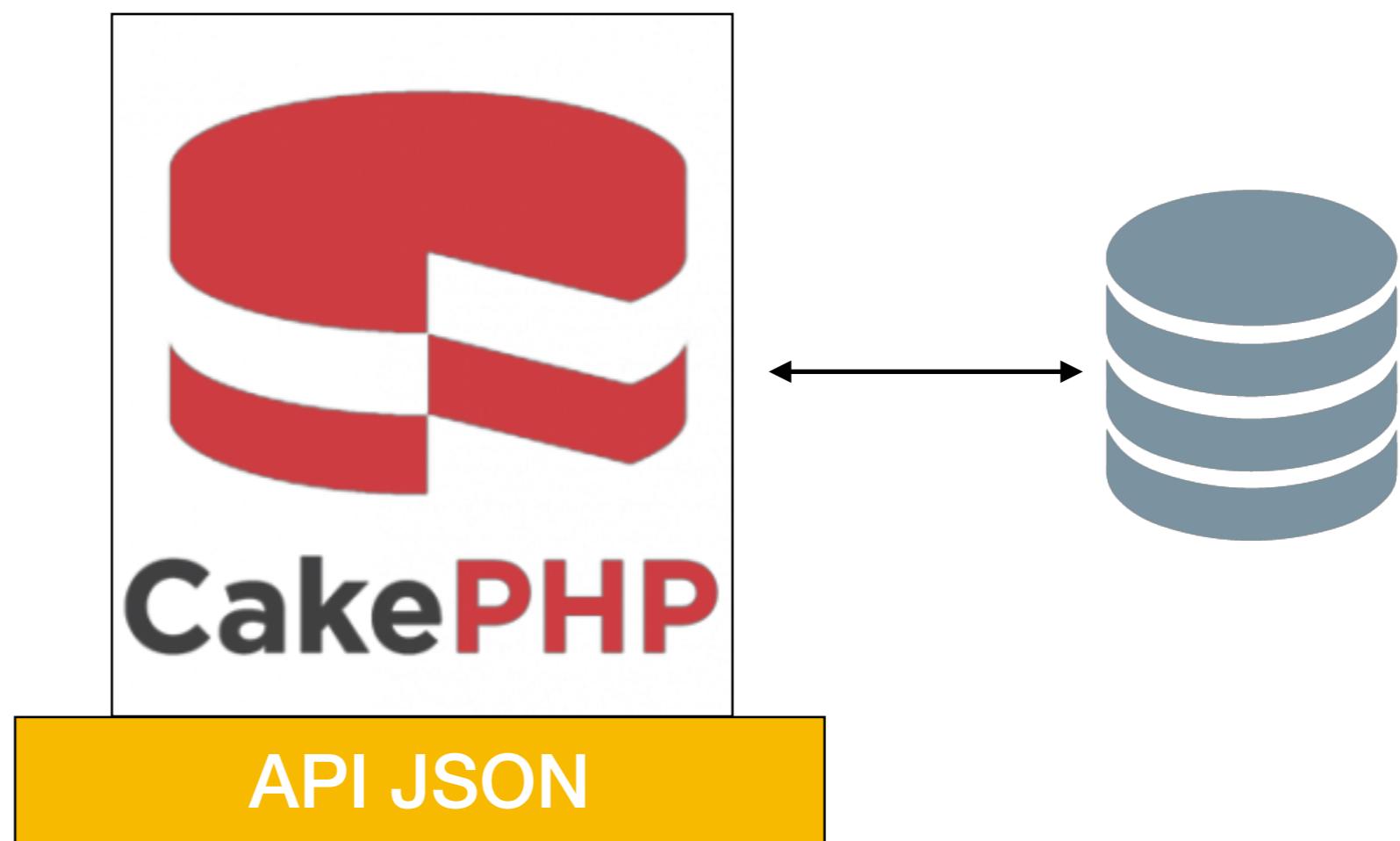
## CloudFormation

# Toujours « Lazy Dev » ?

# Configuration des équipes



# Configuration des équipes



# Aucun problème ?

# OUPS !



**Monsieur !  
C'est bizarre, les tests se mettent pas à jour !**

# C'est quoi le problème ?

Equipe 1

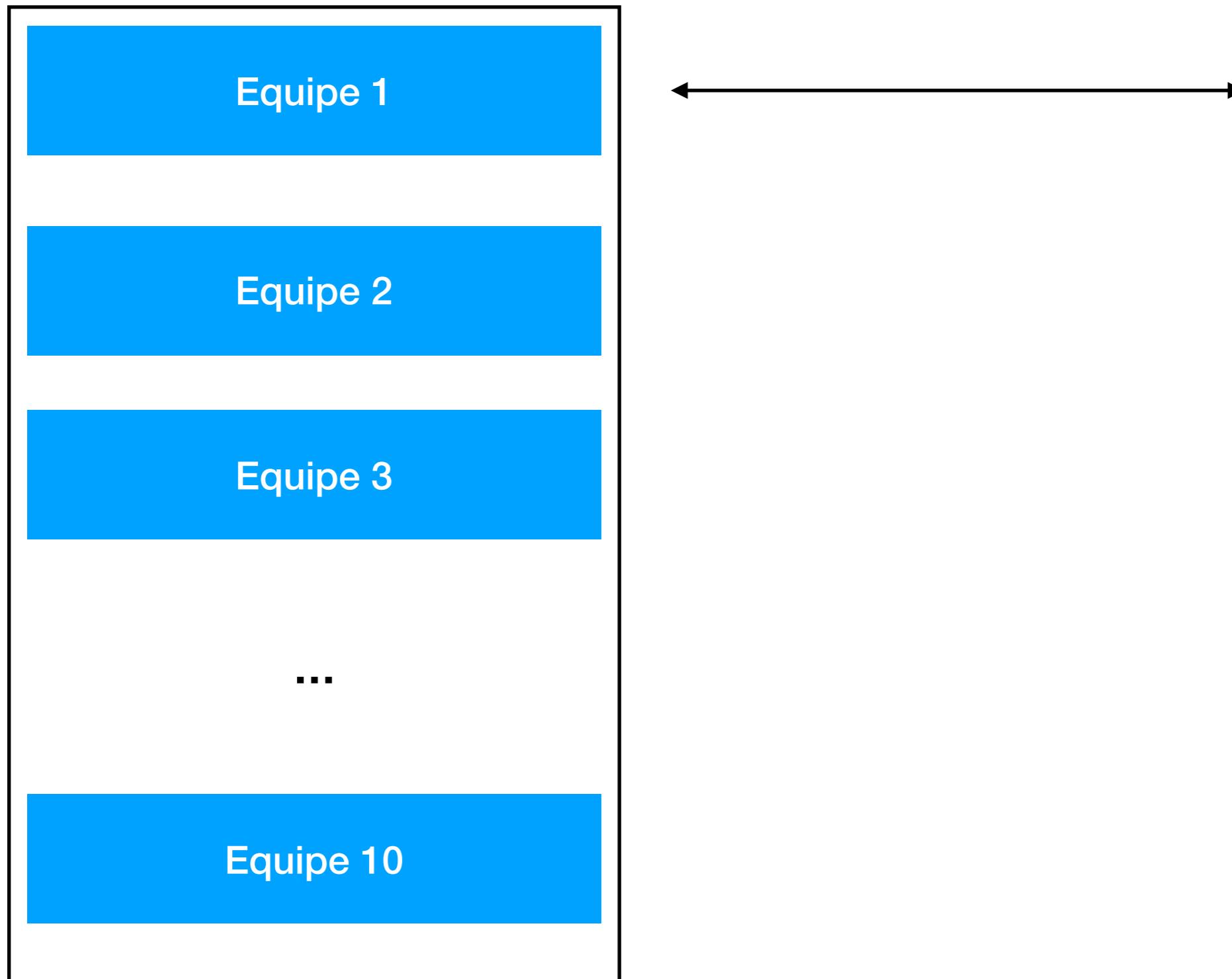
Equipe 2

Equipe 3

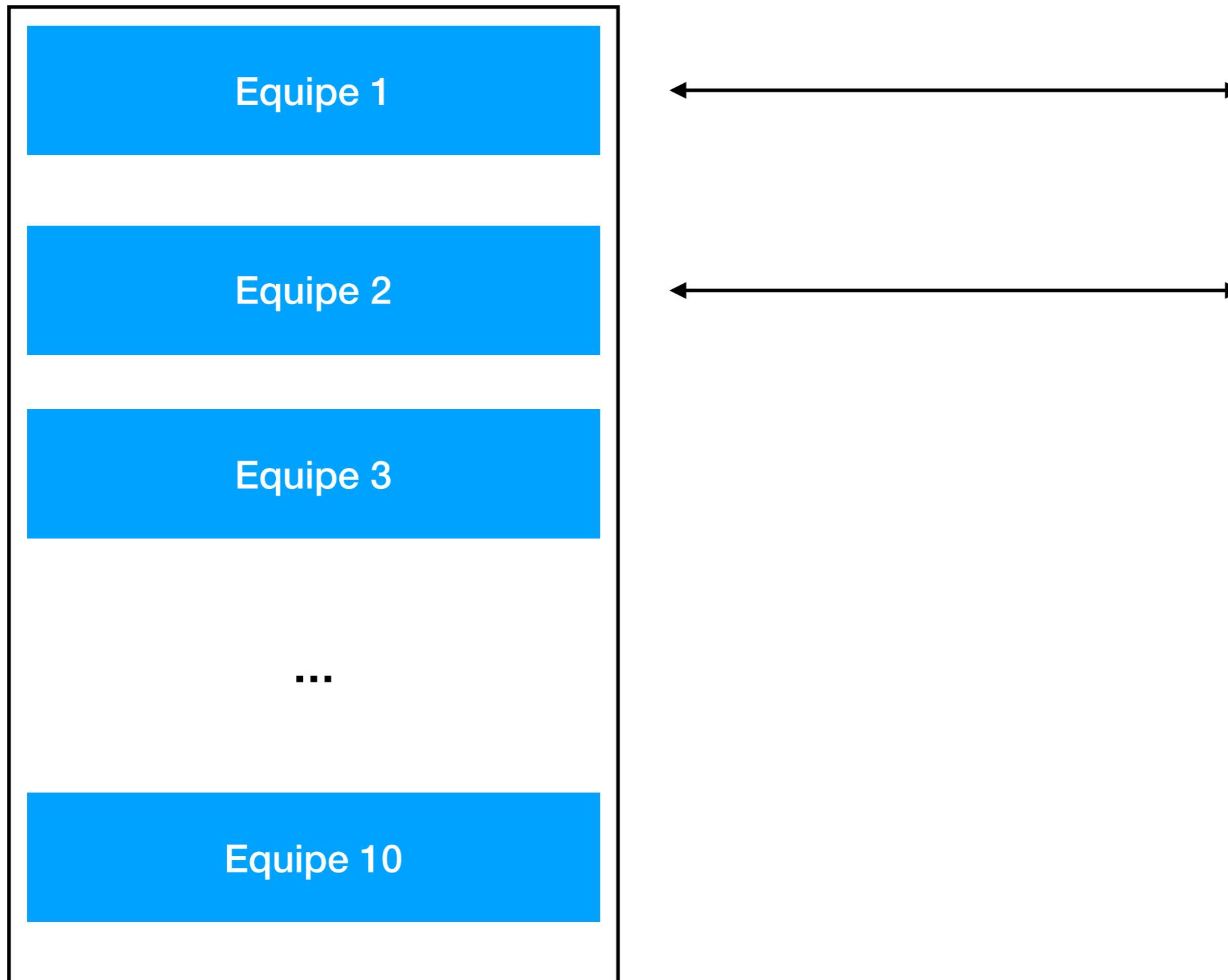
...

Equipe 10

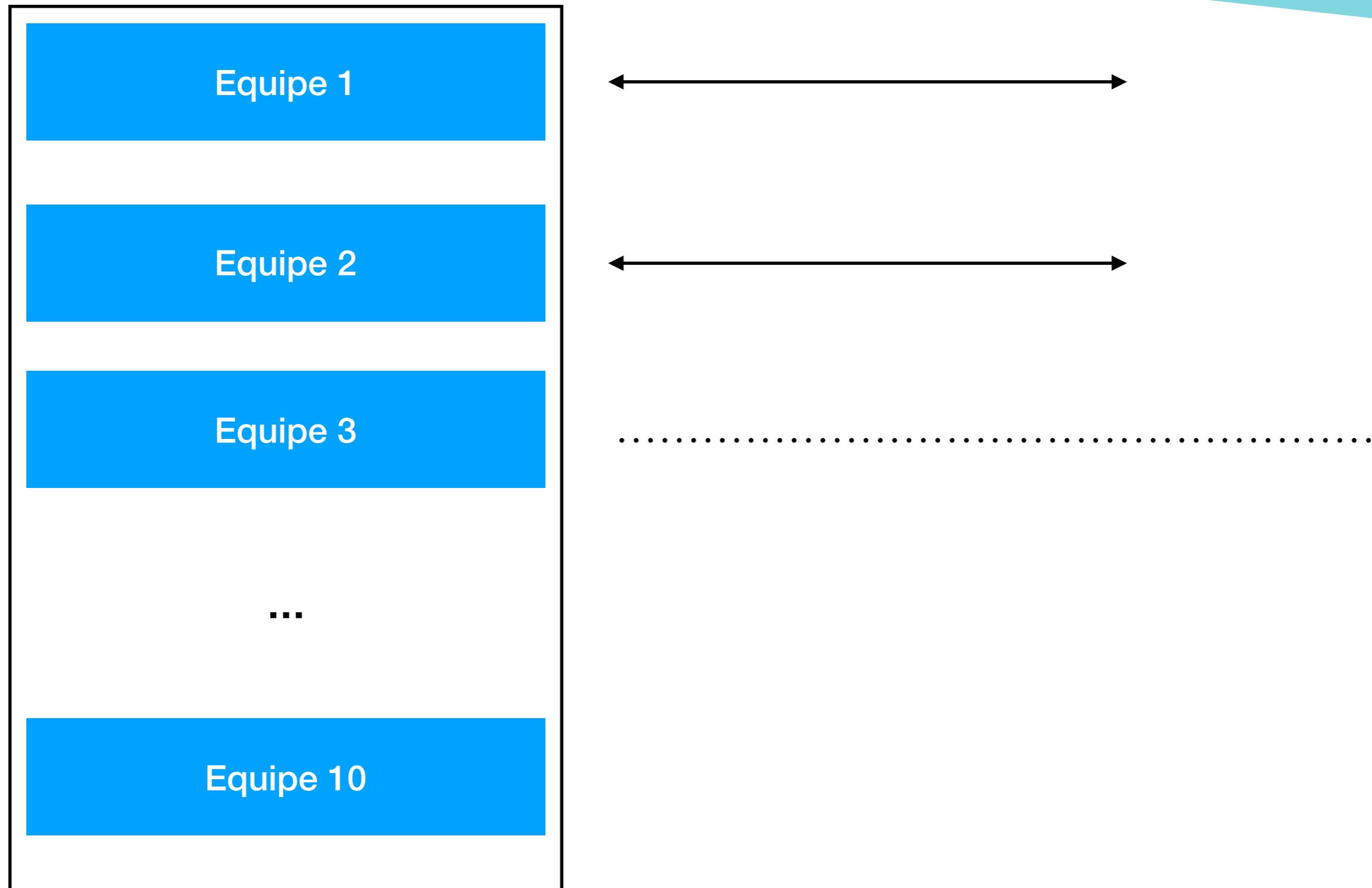
# C'est quoi le problème ?



# C'est quoi le problème ?



# C'est quoi le problème ?



# Solution

Equipe 1

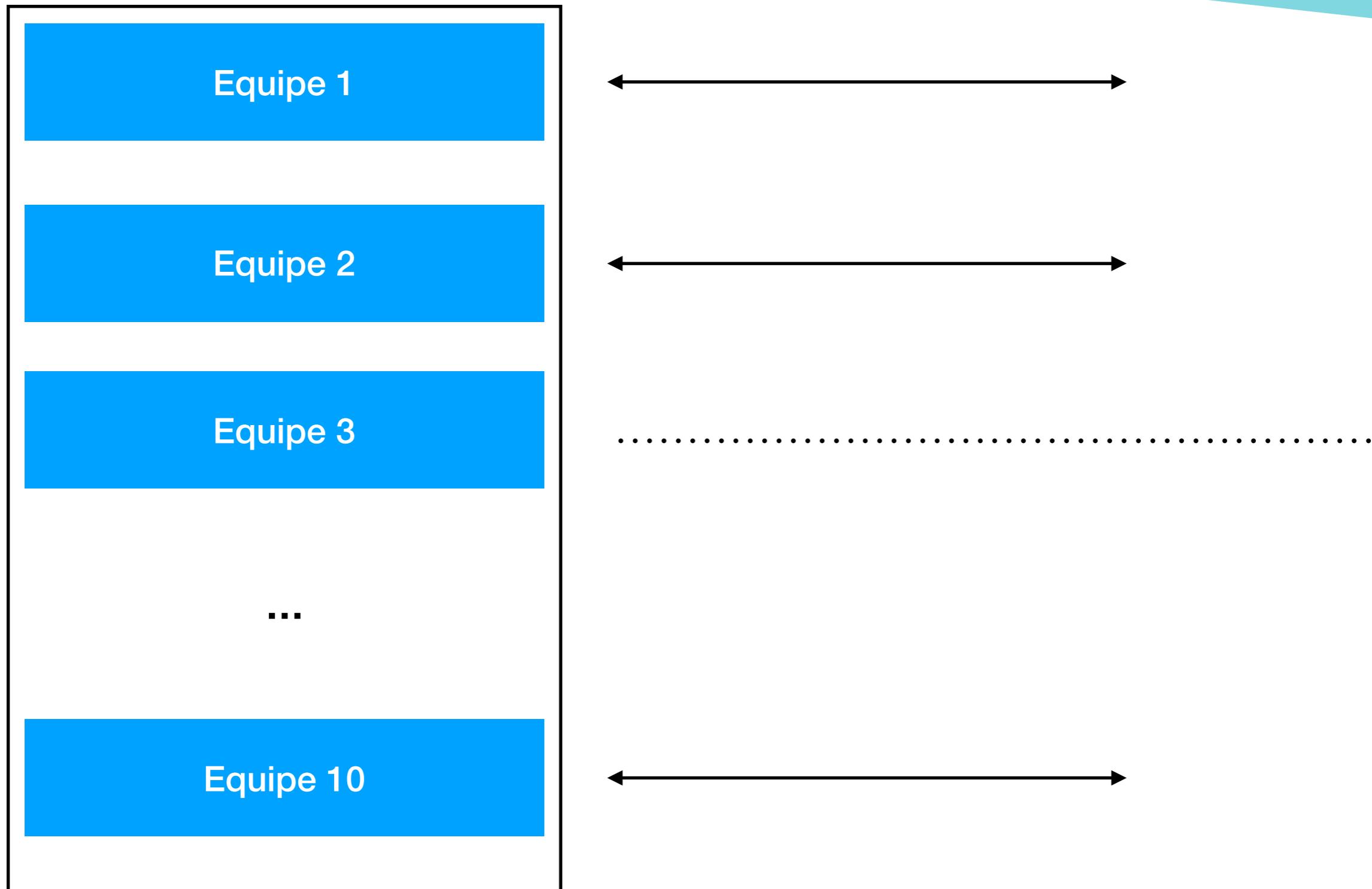
Equipe 2

Equipe 3

...

Equipe 10

# Solution

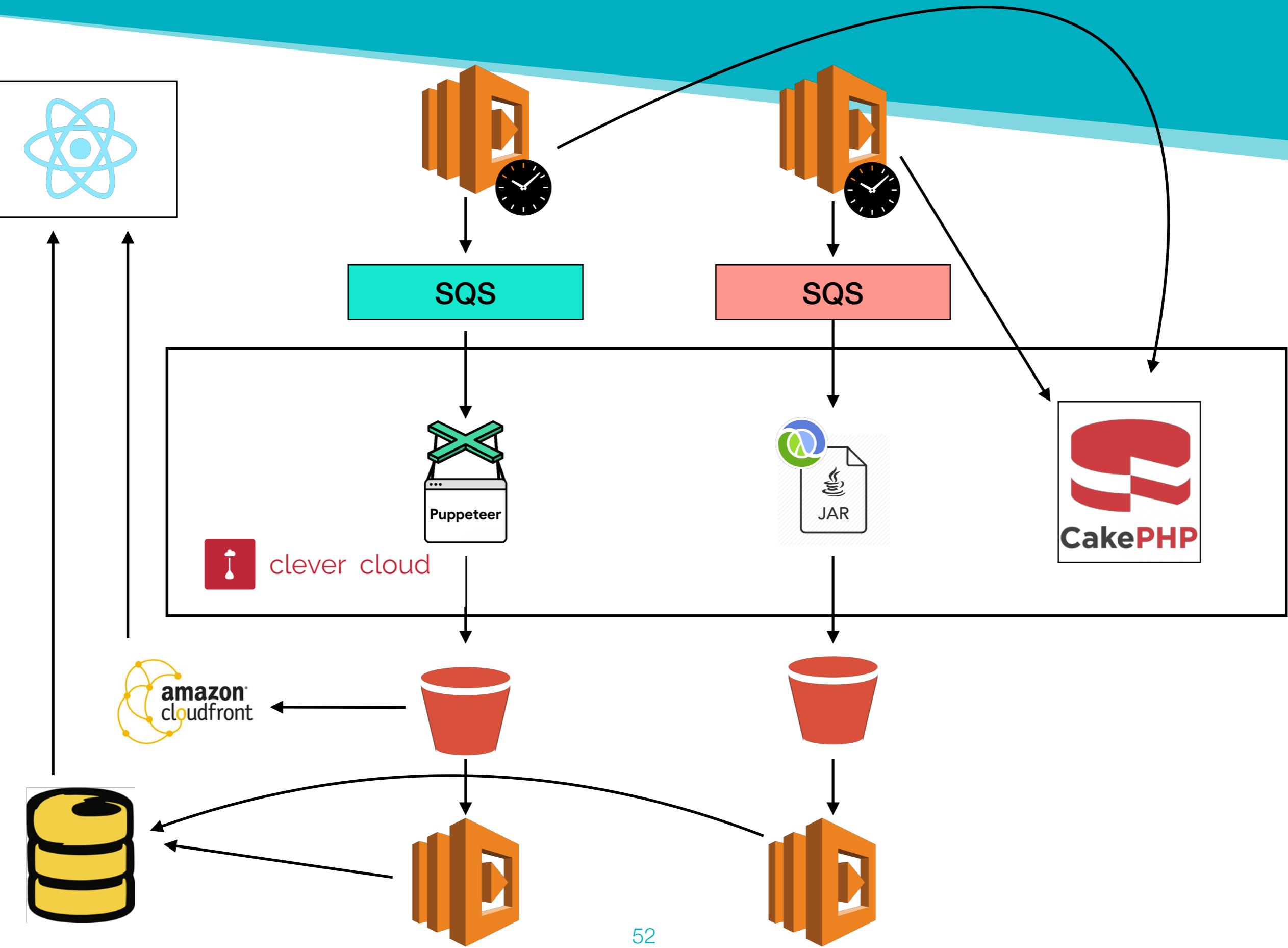


# Clojure à la rescousse

```
-  (doseq [message teams-messages]
+  (doall (pmap (fn [message]
+    (let [team (:Body message)
+          results (run-all-tests (:url team))]
+      (save-report (:team_id team) results)
+      (delete-message (:ReceiptHandle message)))))

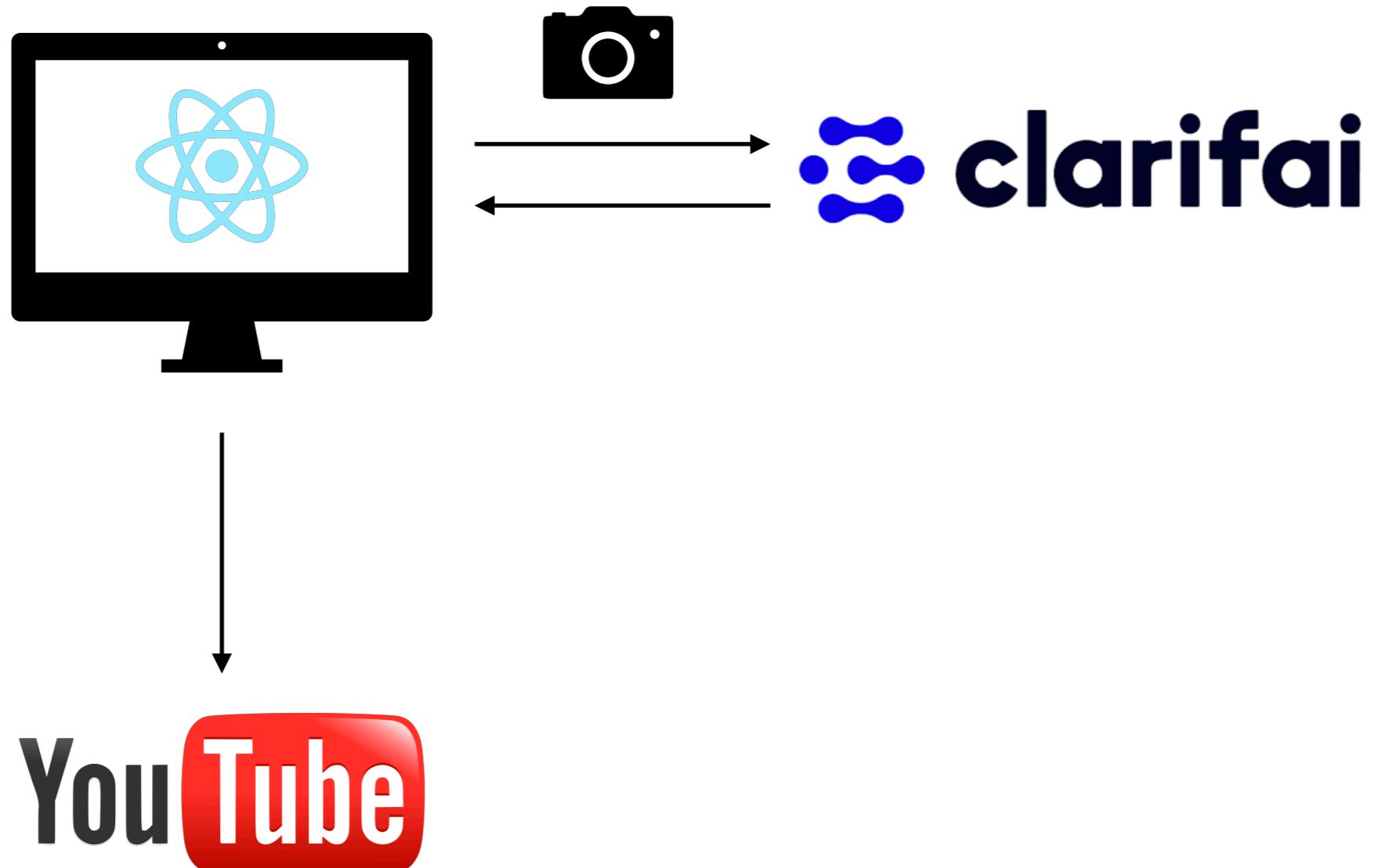
+  teams-messages))
```

# Nightcode 2019 - Full

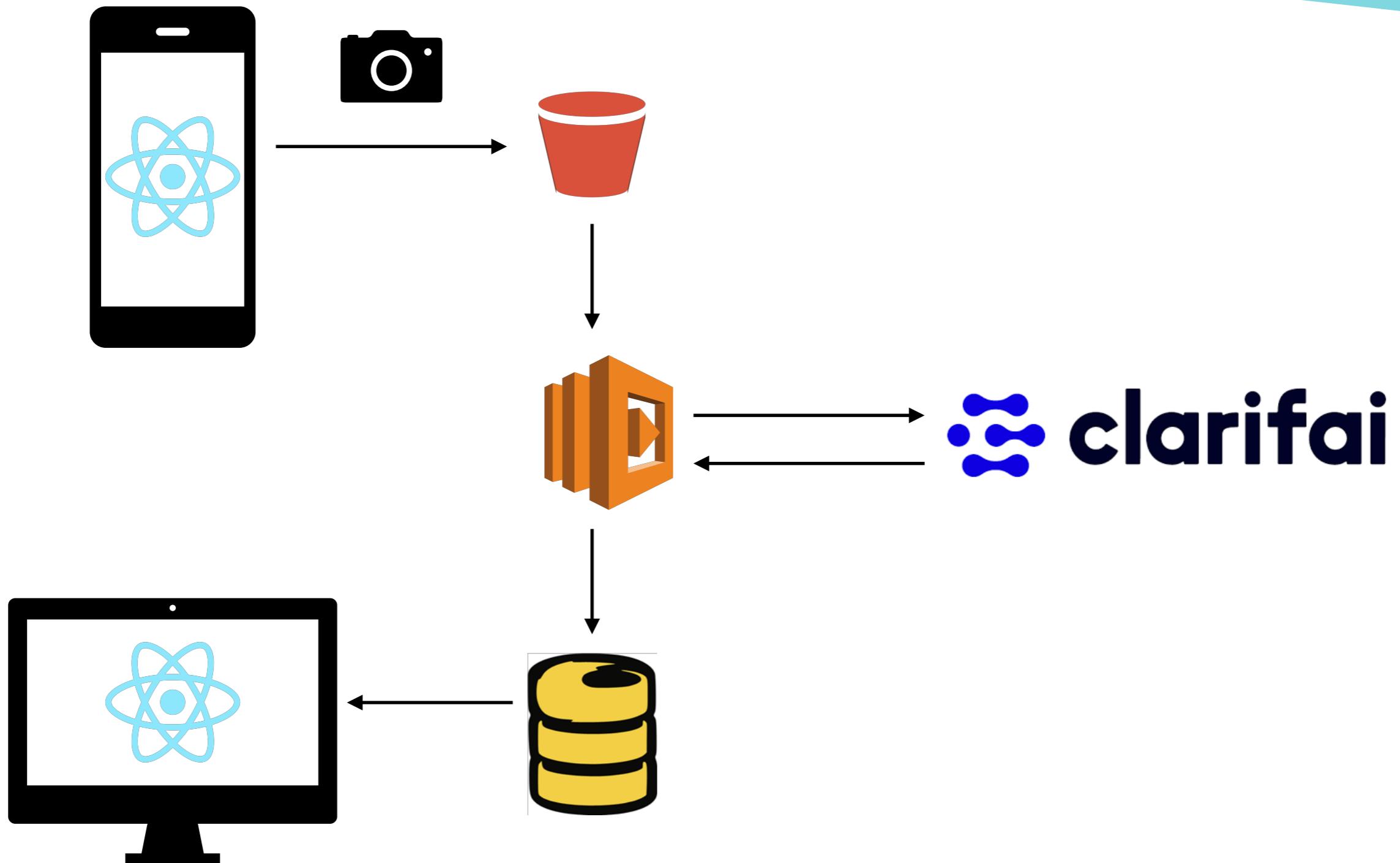


# Nos autres réalisations

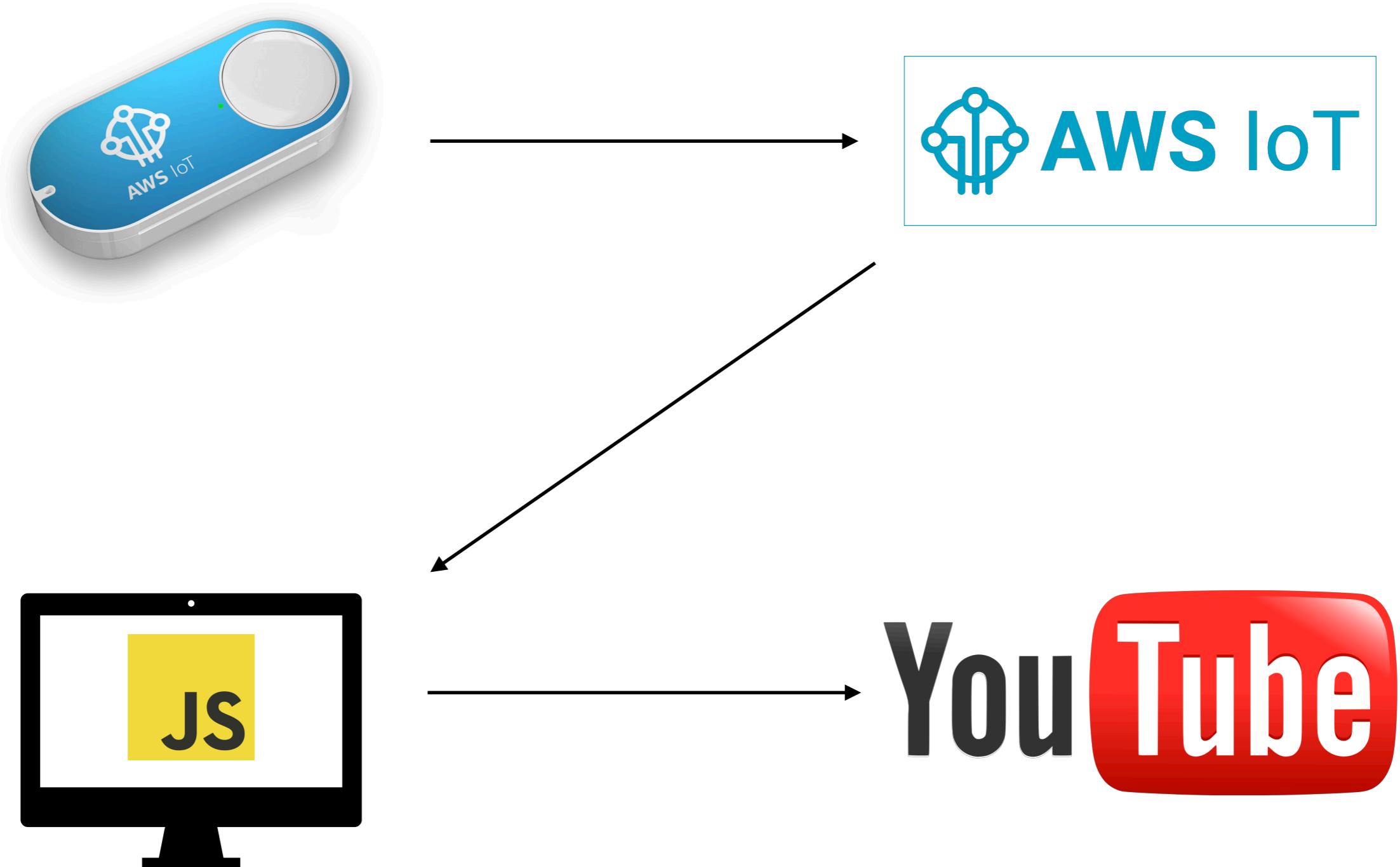
# Salon #1



# Inauguration des bureaux



## Salon #2



# Et pour l'an prochain ?



# Tester à travers le front

**Sign Up**  
It's free and always will be.

---

First Name:

Surname:

Your Email:

Re-enter Email:

New Password:

I am:  ▲ ▼

Birthday: Day:   Month:   Year:

[Why do I need to provide my date of birth?](#)

By clicking Sign Up, you agree to our Terms and that  
you have read our Date use policy, including our  
Cookie Use.

<https://martinfowler.com/bliki/PageObject.html>

# Full Serverless

## chrome-aws-lambda

NPM

V1.16.1

CHROMIUM

36 MB

DONATE

PAYPAL

Chromium Binary for AWS Lambda and Google Cloud Functions

<https://zeit.co/blog/serverless-chrome>

# Monitoring



## Remplacement de Clojure ?

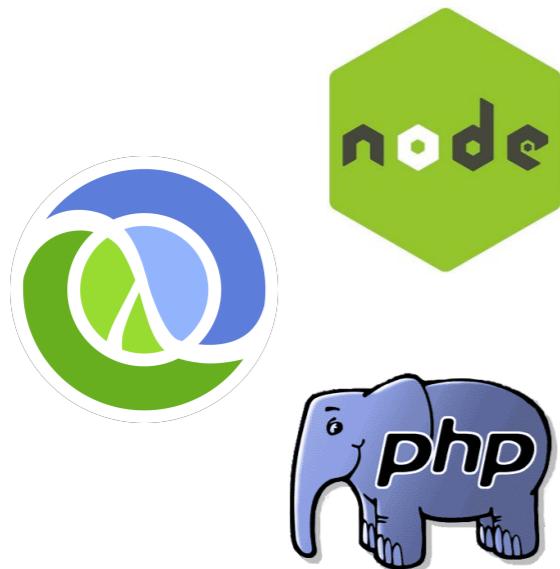


**Remplacement de Clojure**

**Jamais !**



# Simplifions tout ça



clever cloud



Devops FTW

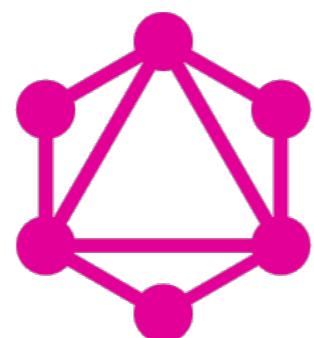


**Terraform**

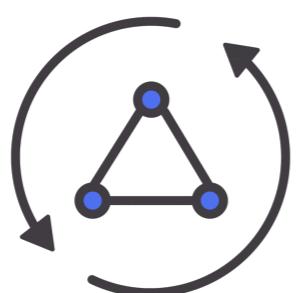
# Good Bye Firebase



# Good Bye Firebase

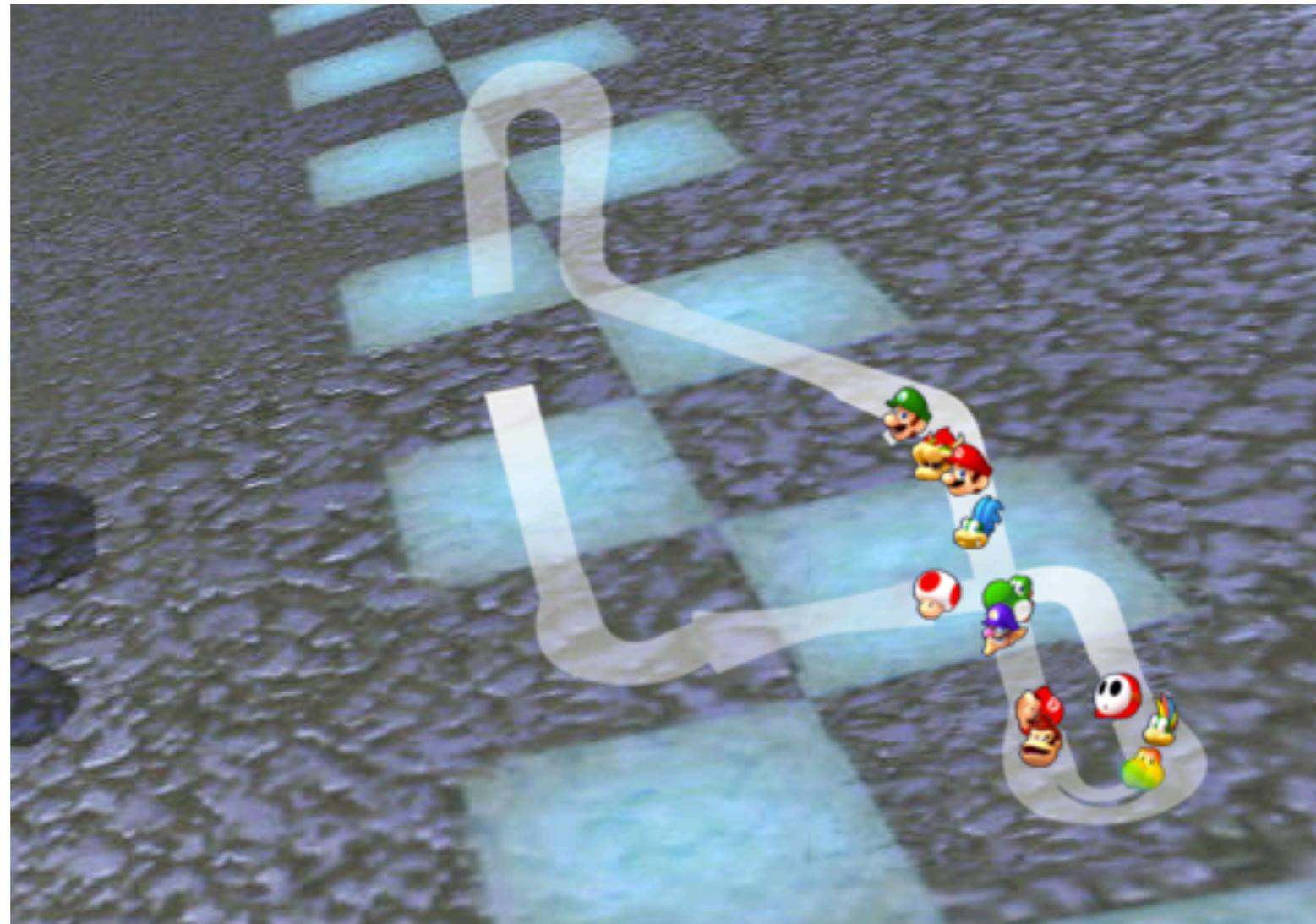


GraphQL



AWS AppSync

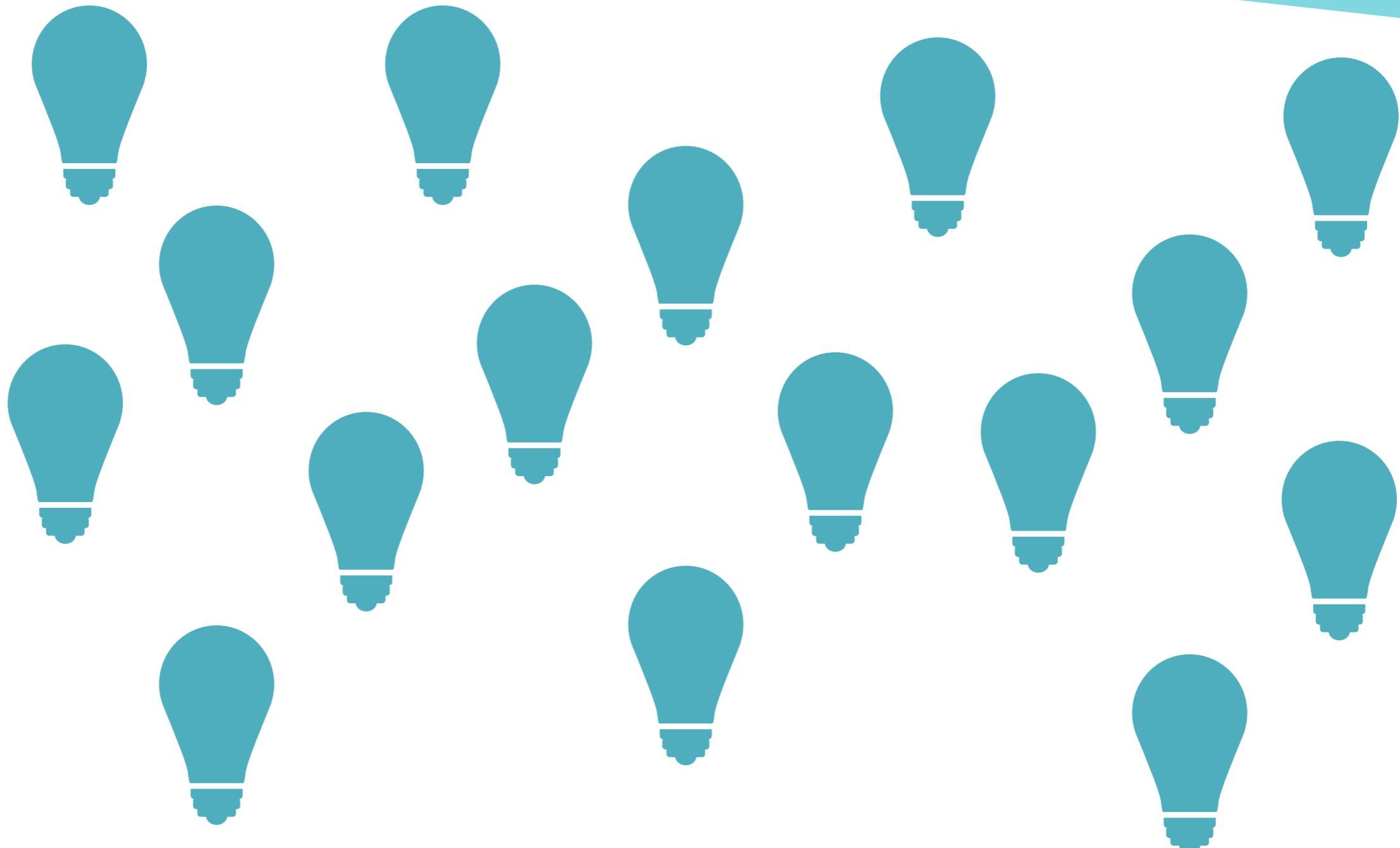
# Beacons



<https://developers.redhat.com/blog/2015/07/31/behind-the-internet-of-things-middleware-demo-at-red-hat-summit/>

<https://www.youtube.com/watch?v=wWNVpFibayA>

# Et tant d'autres...



# Conclusion

@ben11kehoe For any given problem there are 1000 combinations of AWS services that would theoretically solve it. Of those 100 will work. Of those 10 are good ideas. Picking one is the hardest problem in cloud architecture.



**CircuitPeople** @circuitpeople  
5:41pm - 11 Jan 2019

# Merci de votre attention A vos questions !



Studio d'innovation digitales, en mode Agile.

Charles Fourdrignier - Lead Dev

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