



Studio d'innovation digitale, en mode Agile

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



Studio d'innovation digitale, en mode Agile

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

DEUX FOIS

Qui êtes-vous ?

Qui suis-je ?

ITERACODE

Charles Fourdrignier
Lead Dev

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



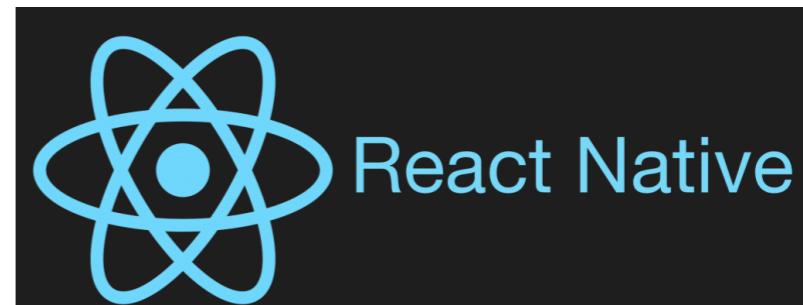
Iteracode ?

ITERACODE

Studio d'innovation digitale
Depuis Août 2015



CakePHP



Rendez-vous techs

meetup



Technical Playground

www.recreatiloups.com



www.recreatiloups.com

RTL9



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

Technical Playground

www.recreatiloups.com

RTL9



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

QUESTIONS



Naissance de la Nightcode



Un événement national



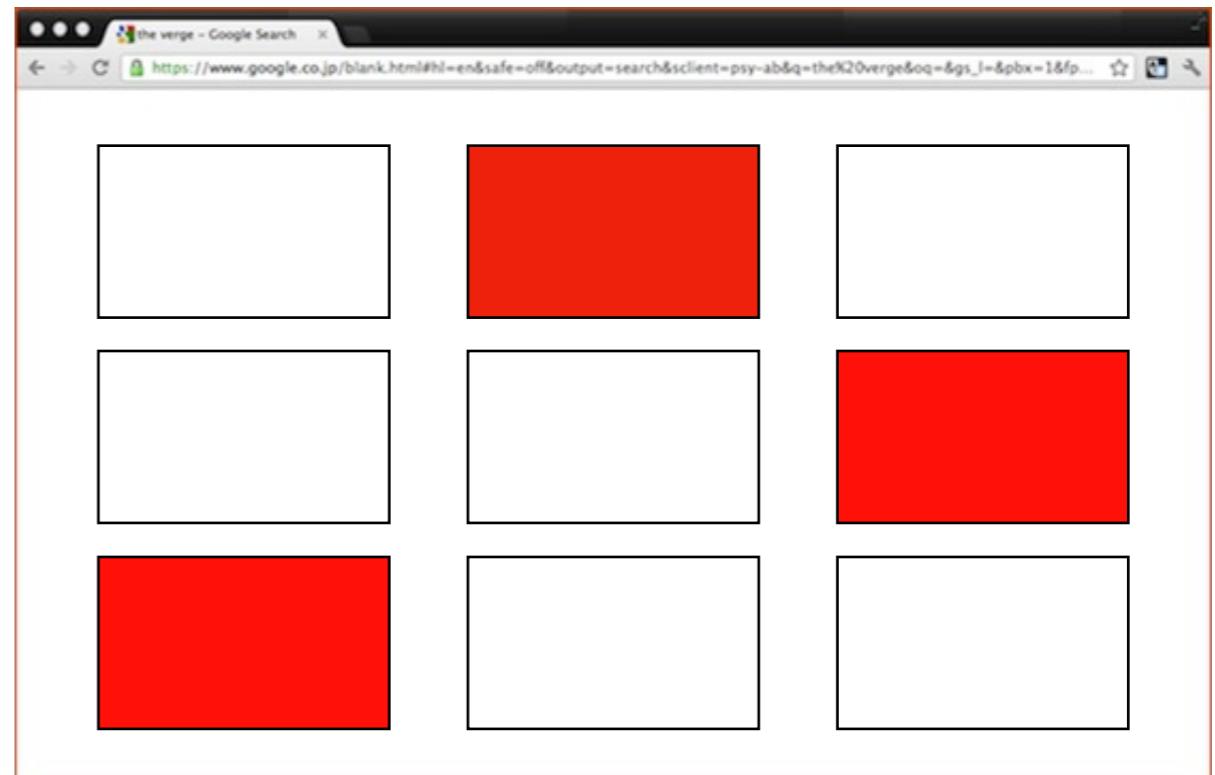
Un événement national



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

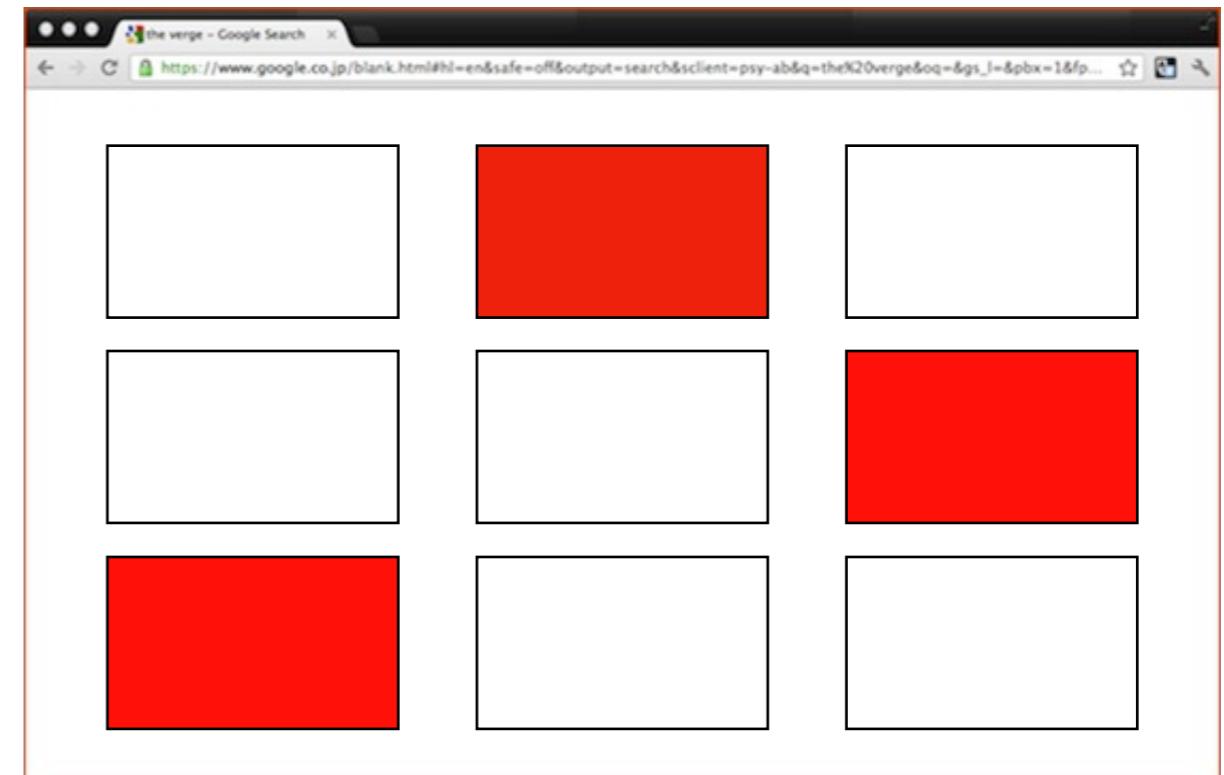
Comment ?

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**](#)

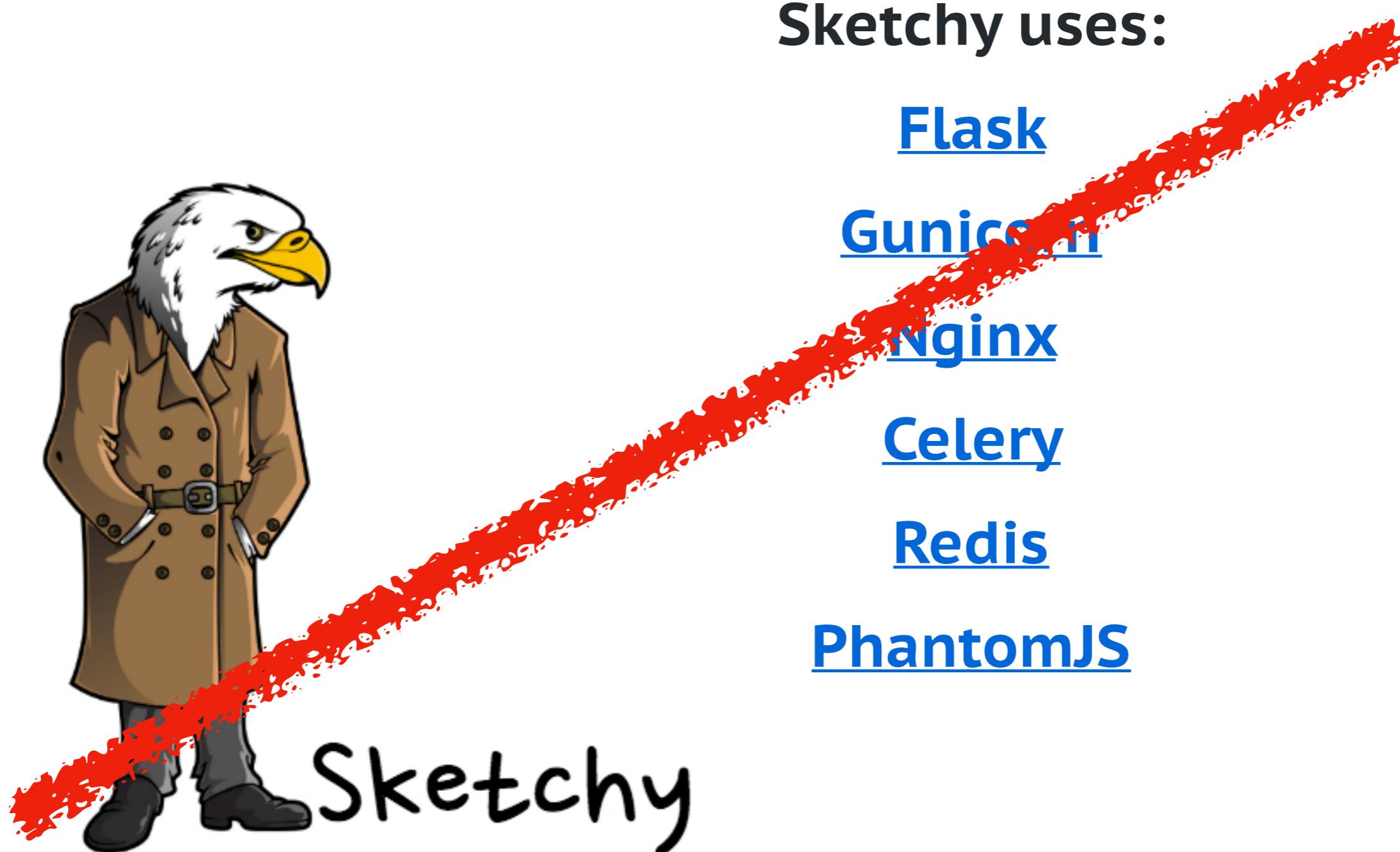
[**Gunicorn**](#)

[**Nginx**](#)

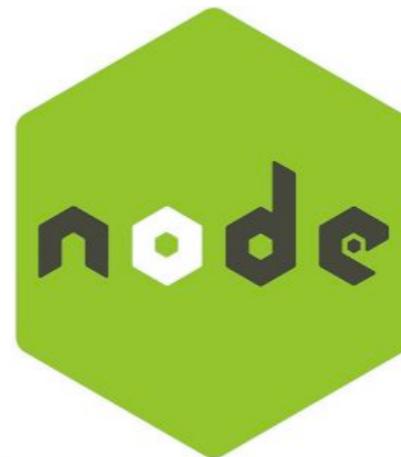
[**Celery**](#)

[**Redis**](#)

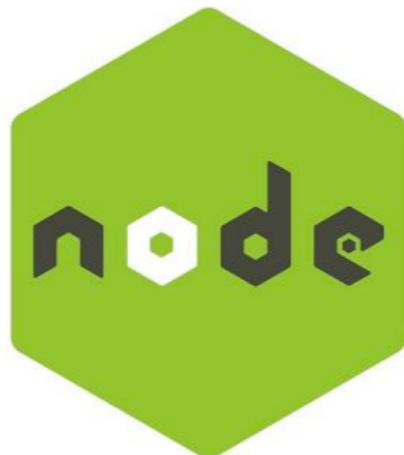
[**PhantomJS**](#)



Comment prendre des screenshots ?



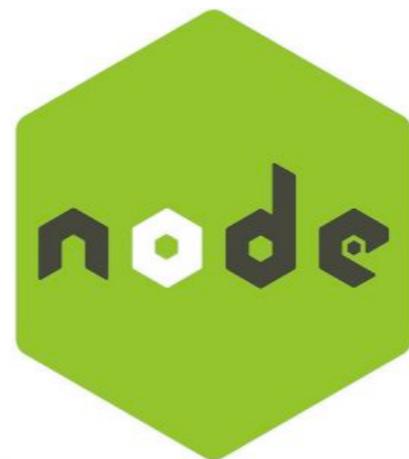
Comment prendre des screenshots ?



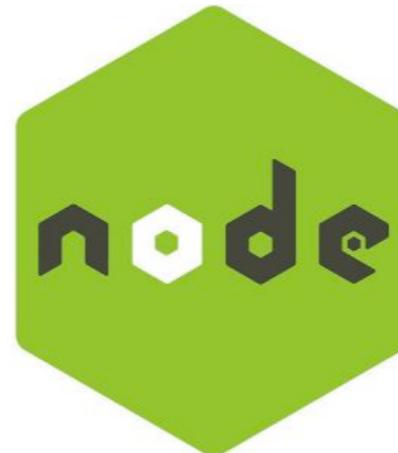
Comment prendre des screenshots ?



PhantomJS



Comment prendre des screenshots ?



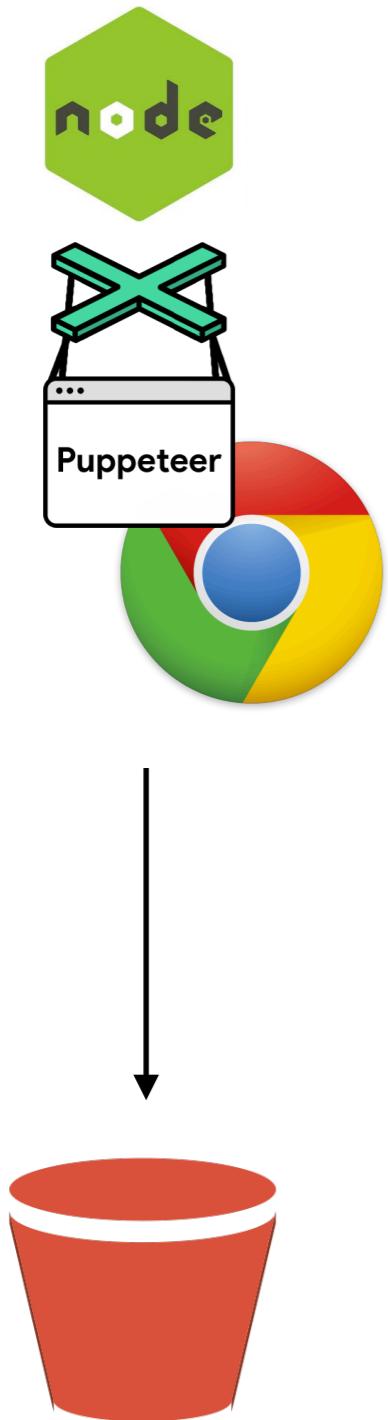
ⓘ Migrate PhantomJS to Headless Chrome [help wanted](#)

#40 opened on 13 Apr 2017 by sbehrens

Screenshots - Implémentation



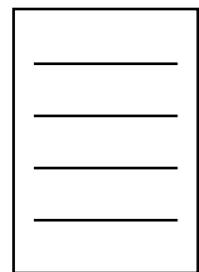
Screenshots - Implémentation



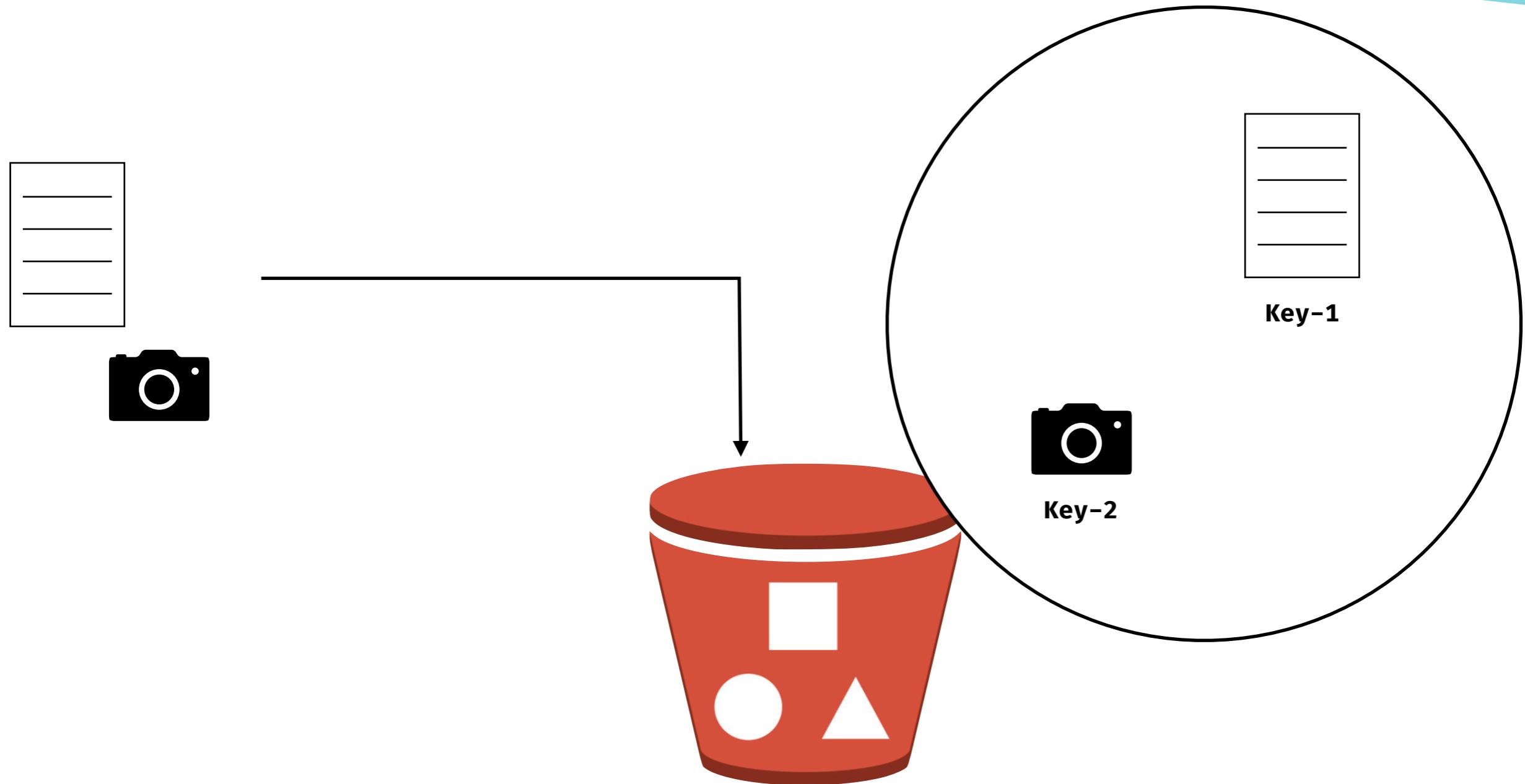
Bucket S3 ?



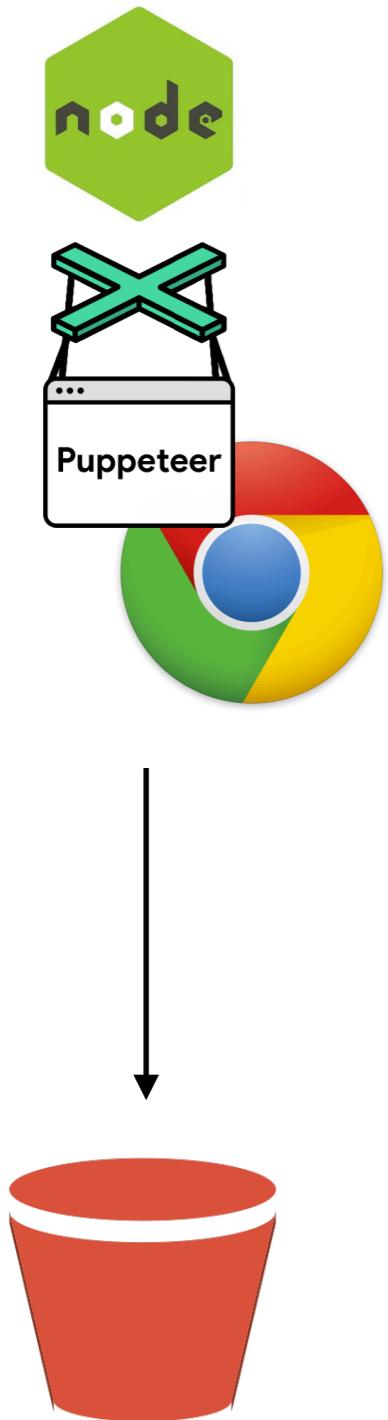
Bucket S3 ?



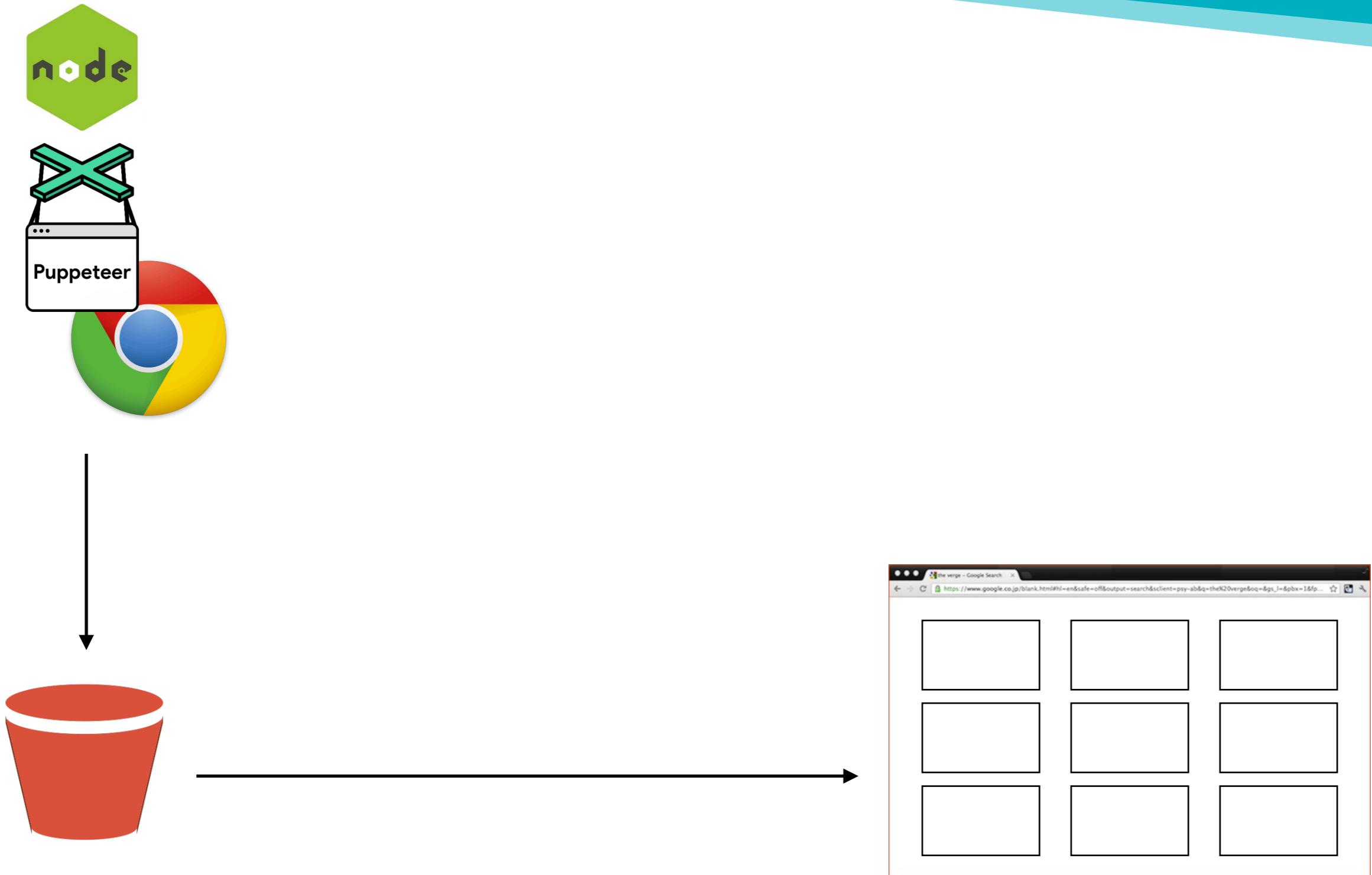
Bucket S3 ?



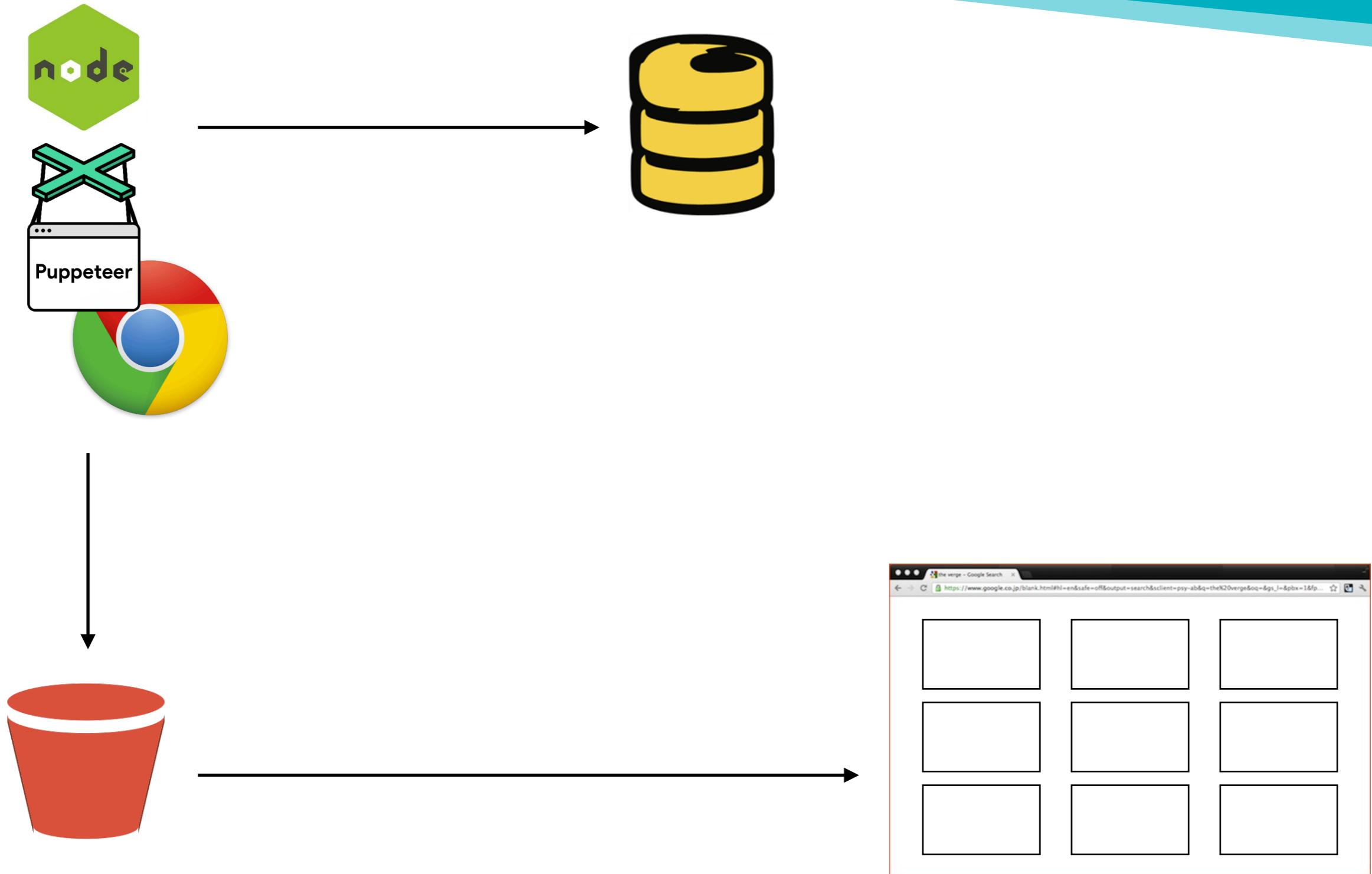
Screenshots - Implémentation



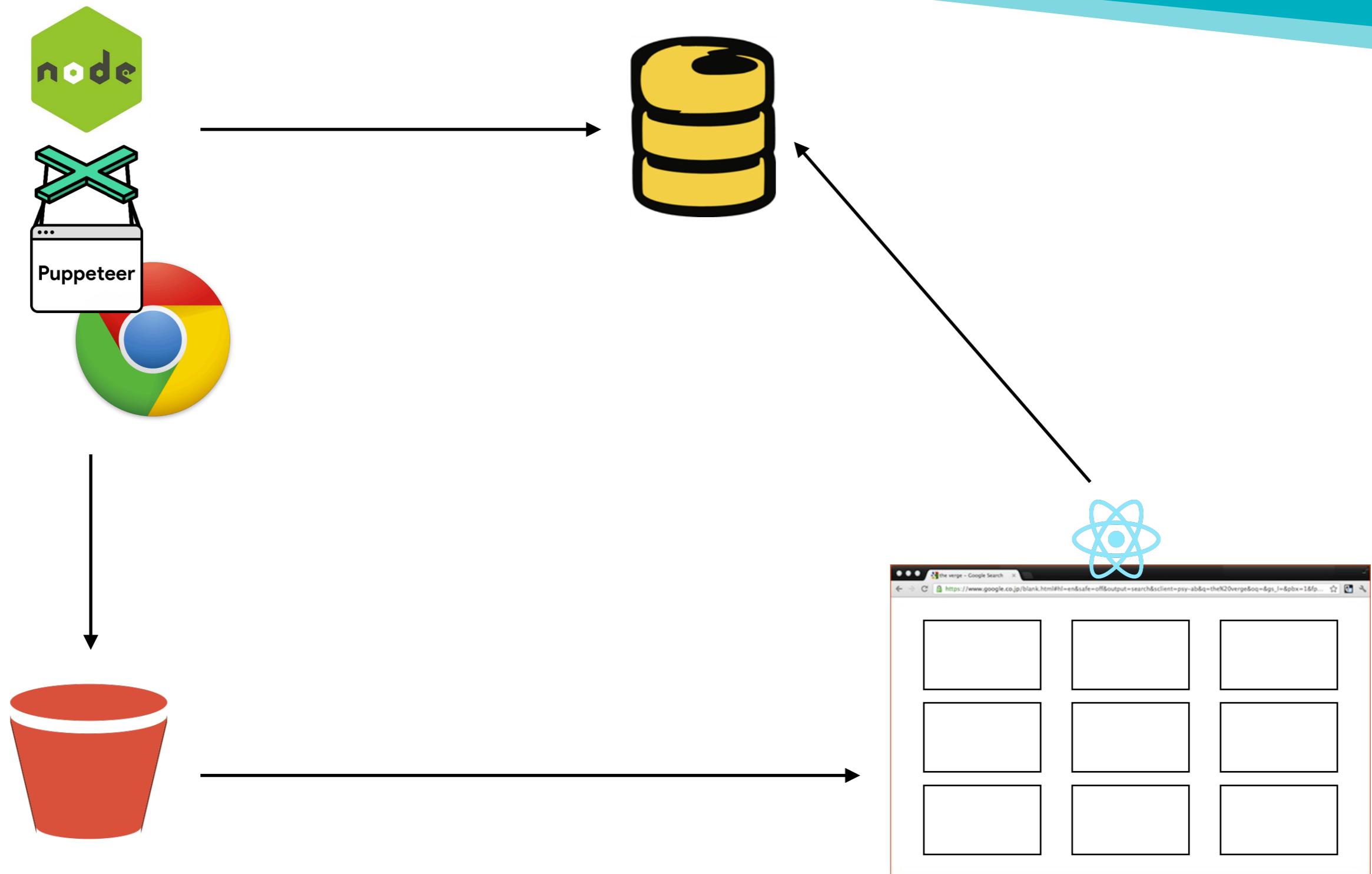
Screenshots - Implémentation



Screenshots - Implémentation



Screenshots - Implémentation



Tests



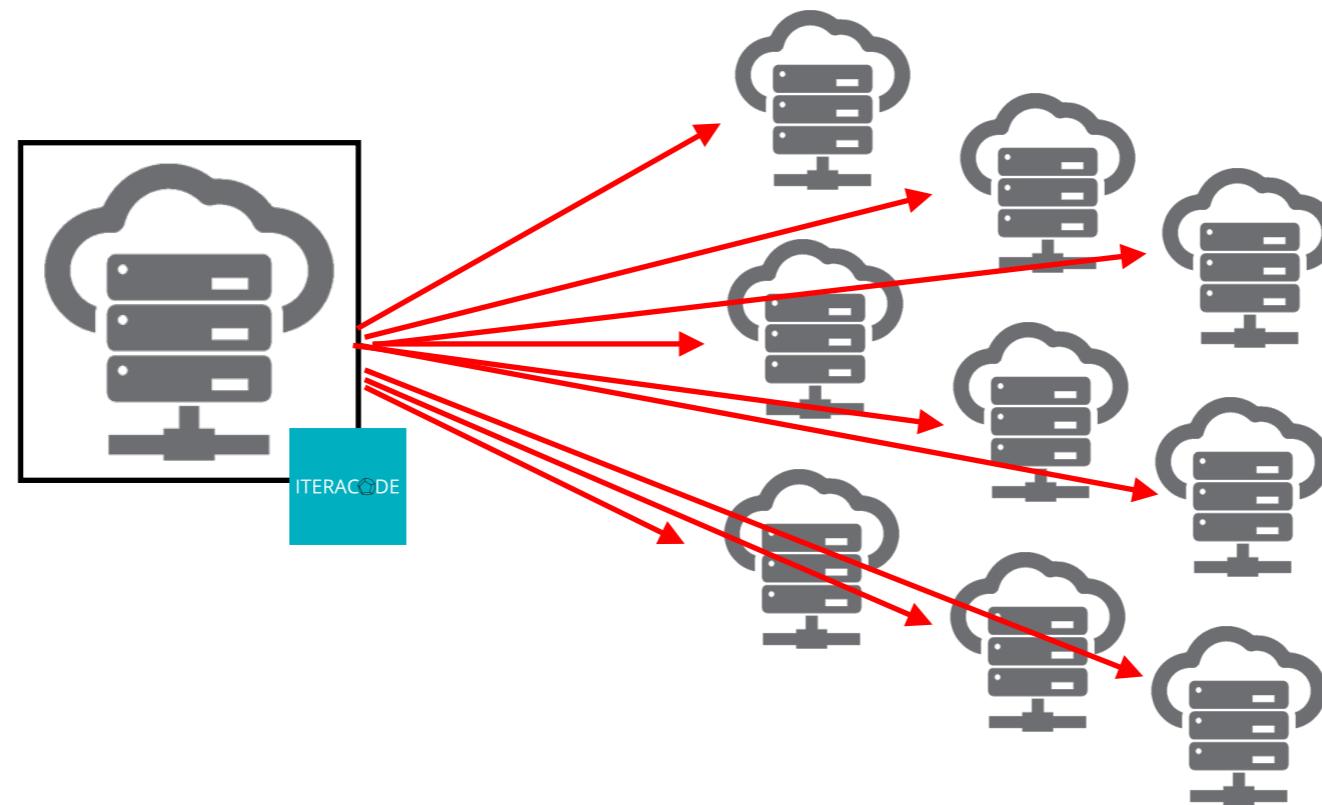
Xebia

Code Elevator

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



Code Elevator



<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

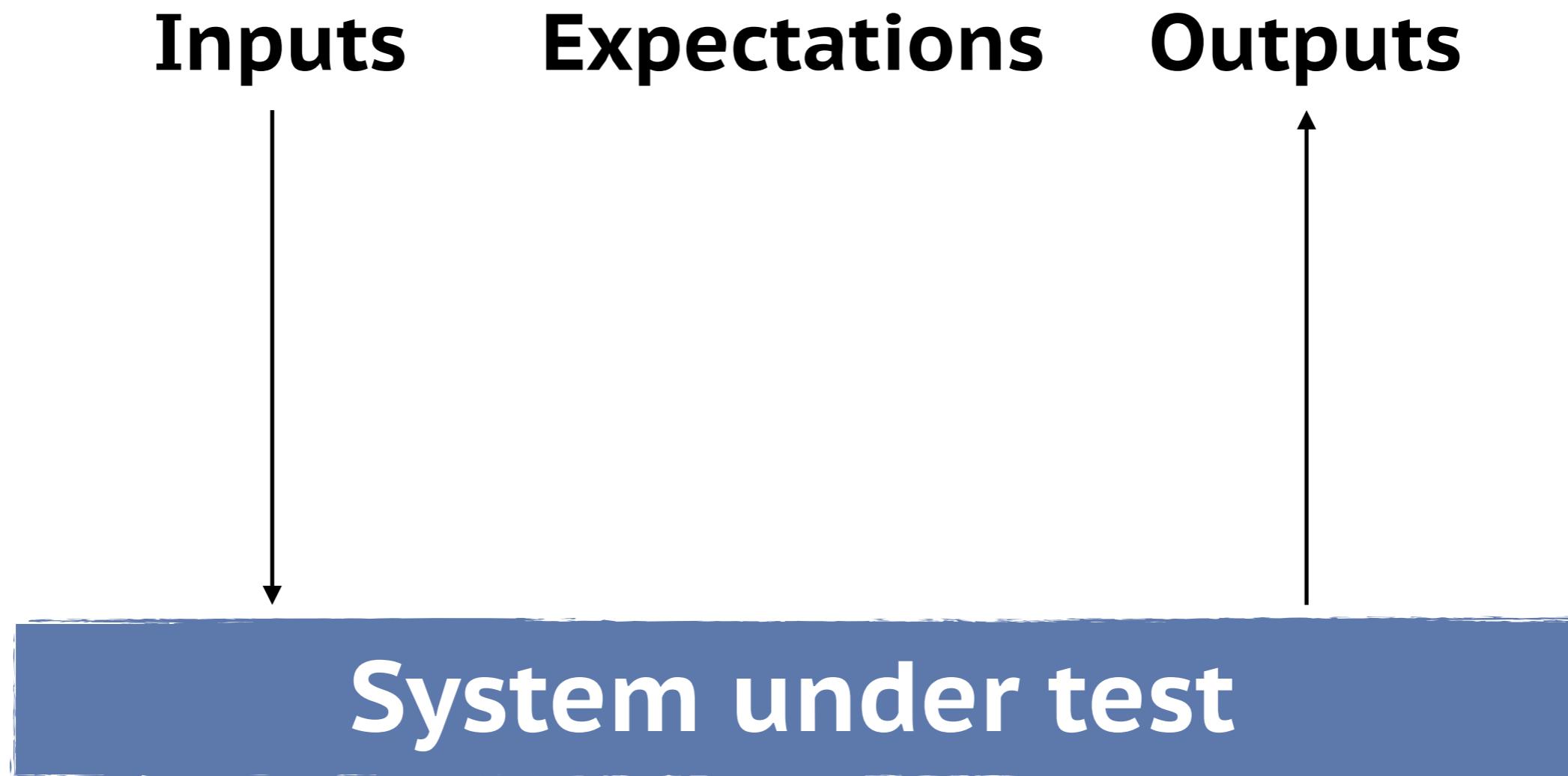
Tests automatisés

Inputs Expectations

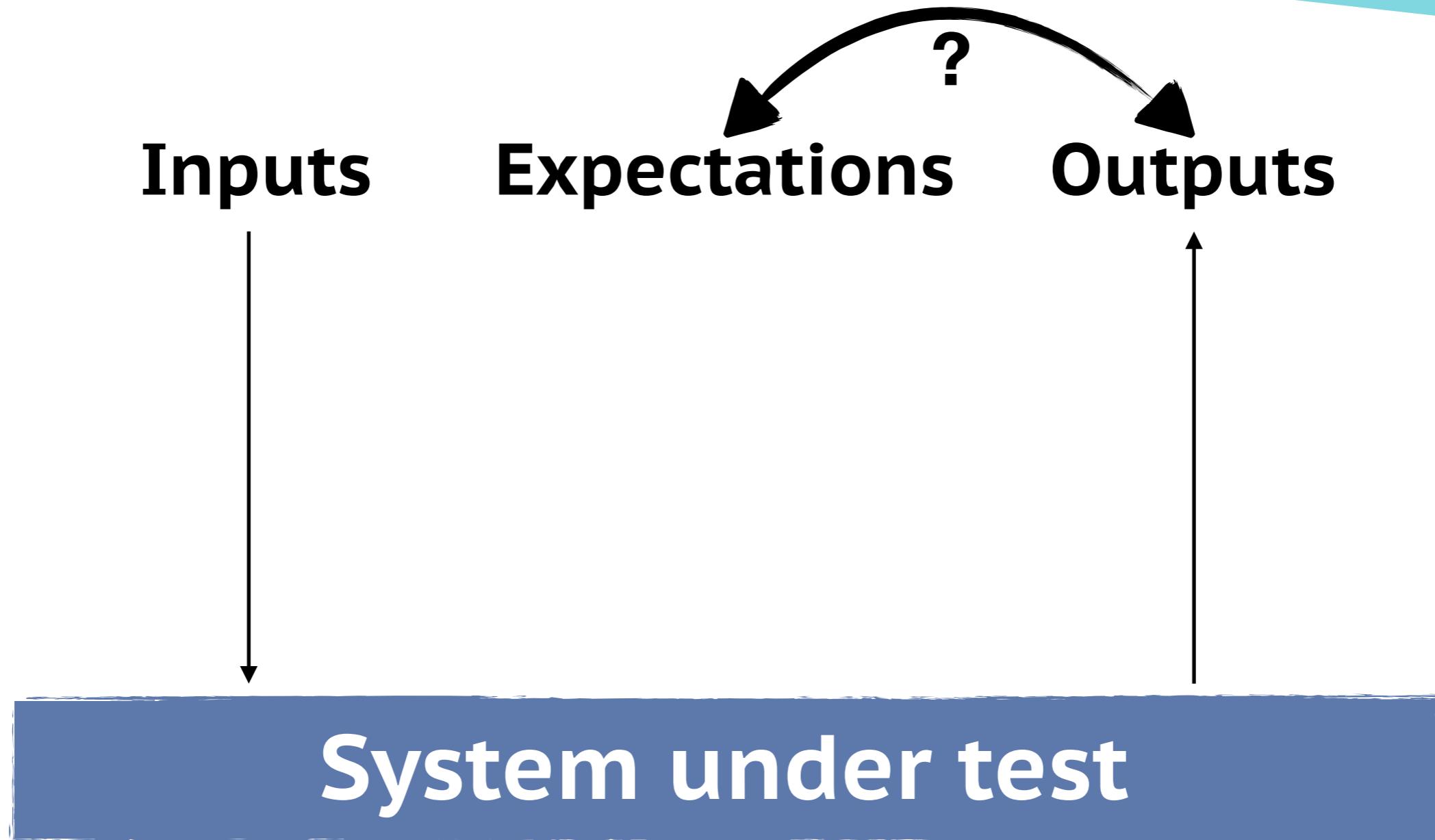


System under test

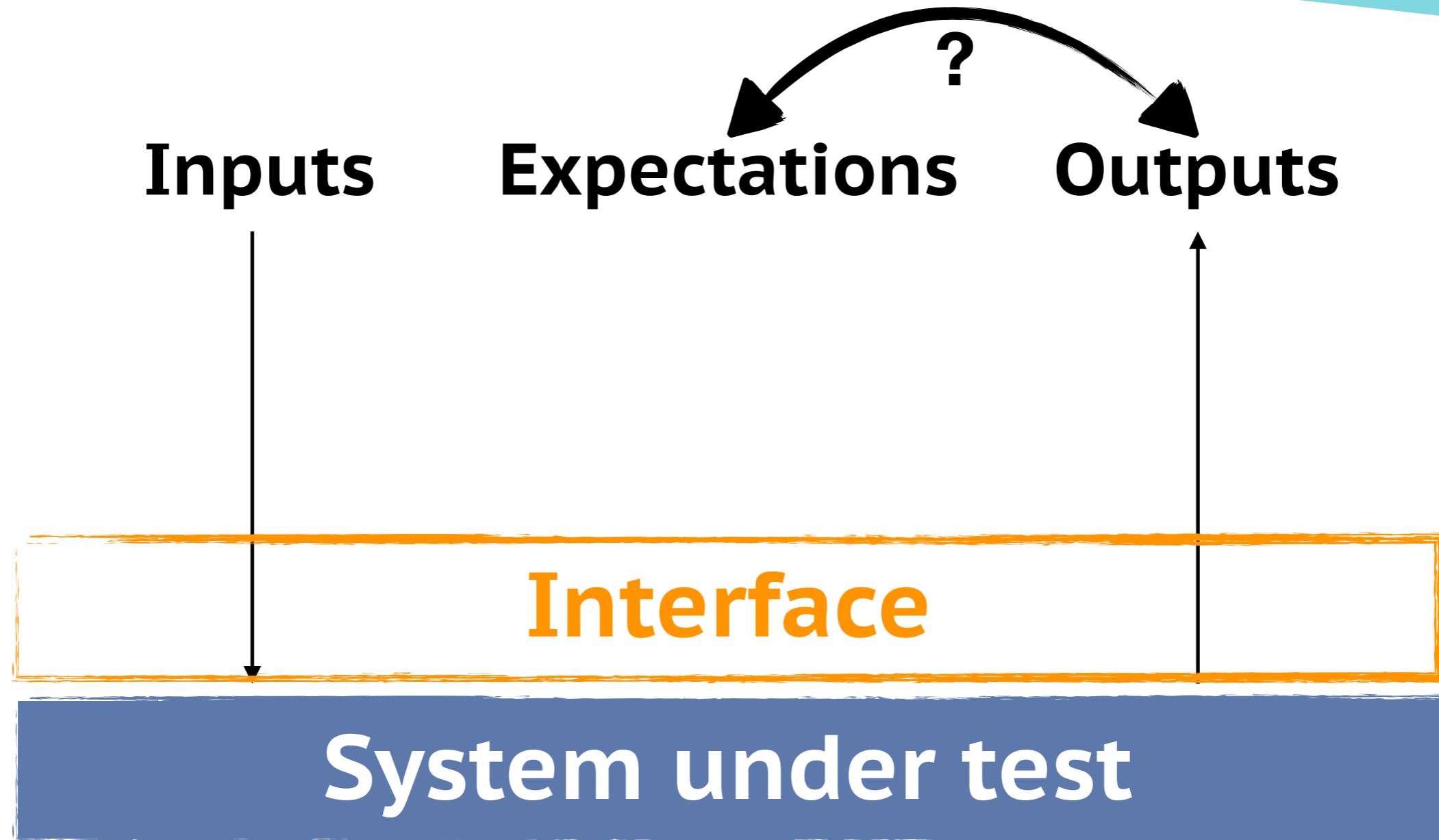
Tests automatisés



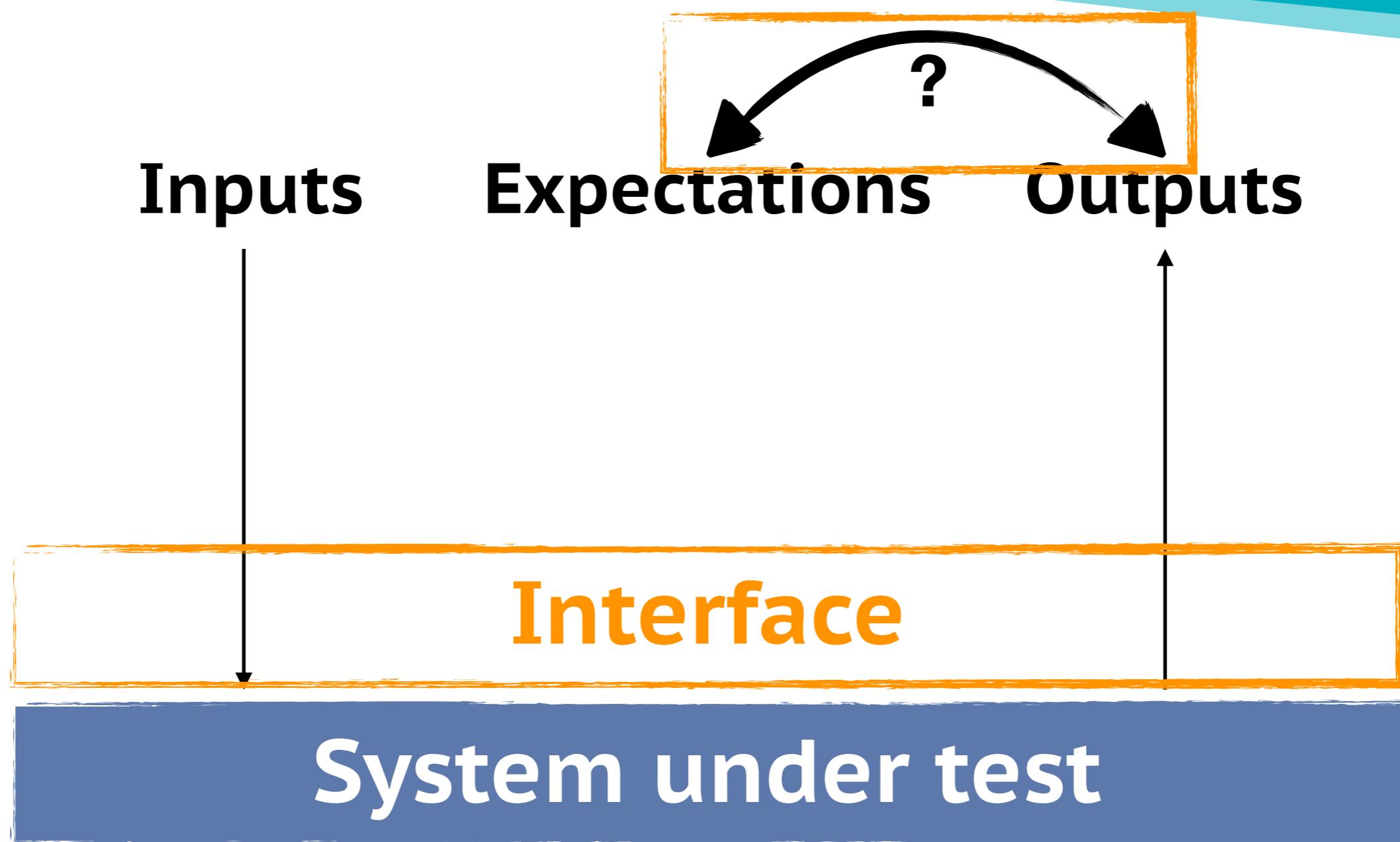
Tests automatisés



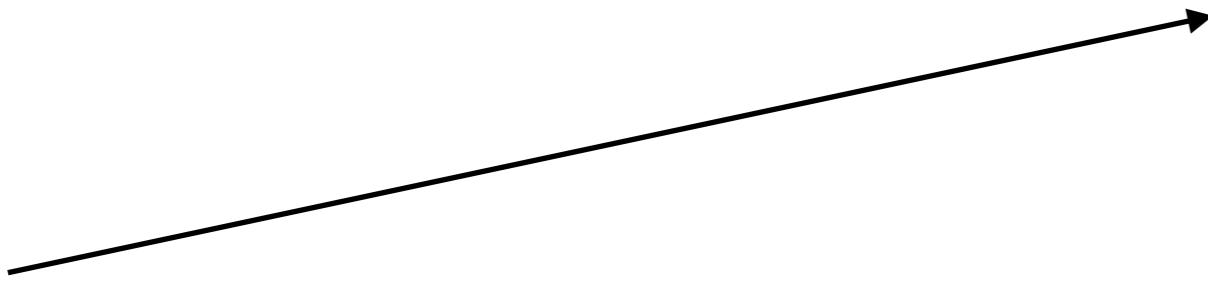
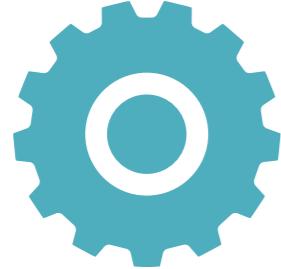
Tests automatisés



Tests automatisés



Interface



Sign Up
It's free and always will be.

First Name:

Surname:

Your Email:

Re-enter Email:

New Password:

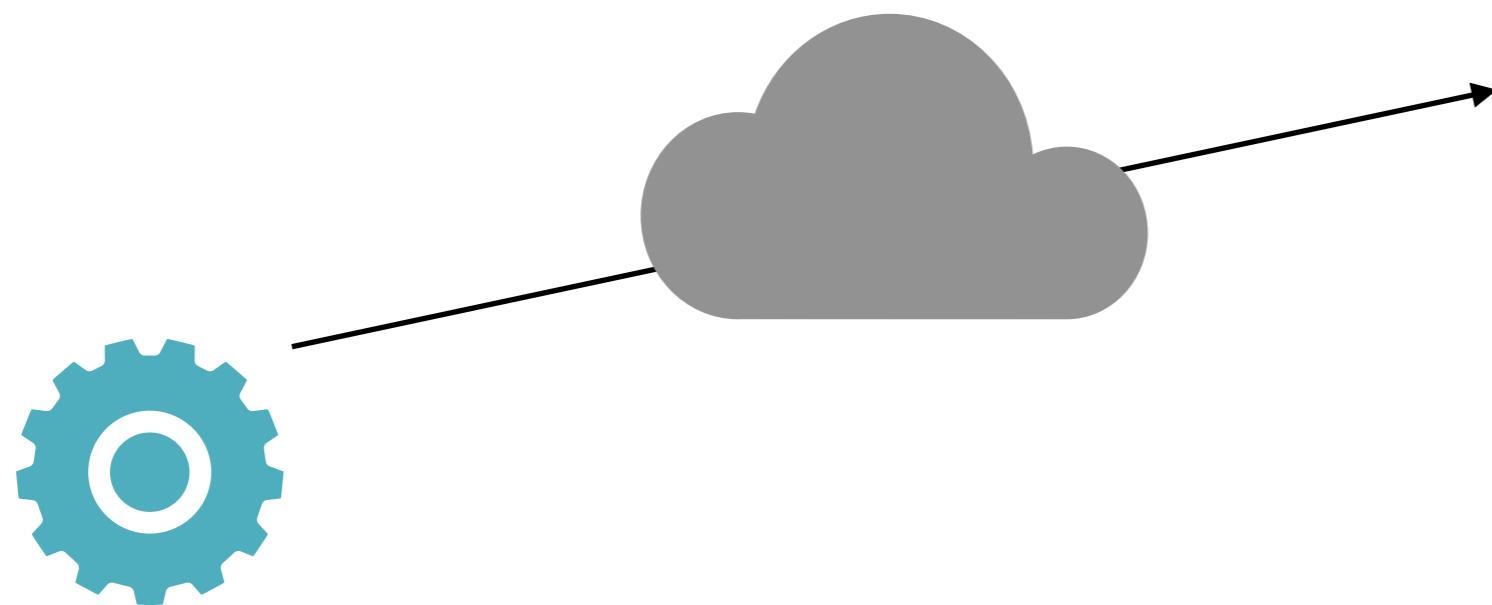
I am:

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:

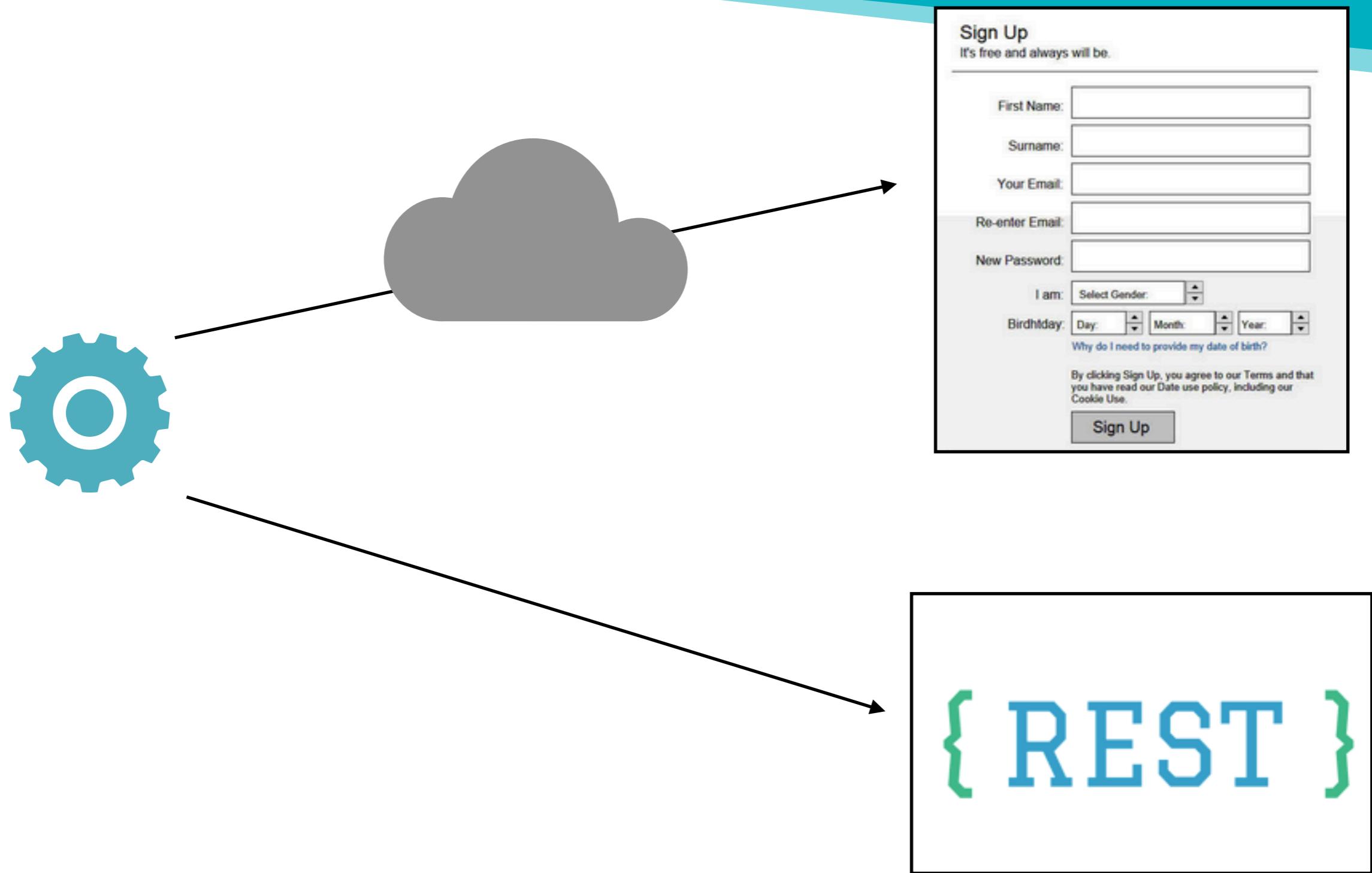
I am:

Birthday:

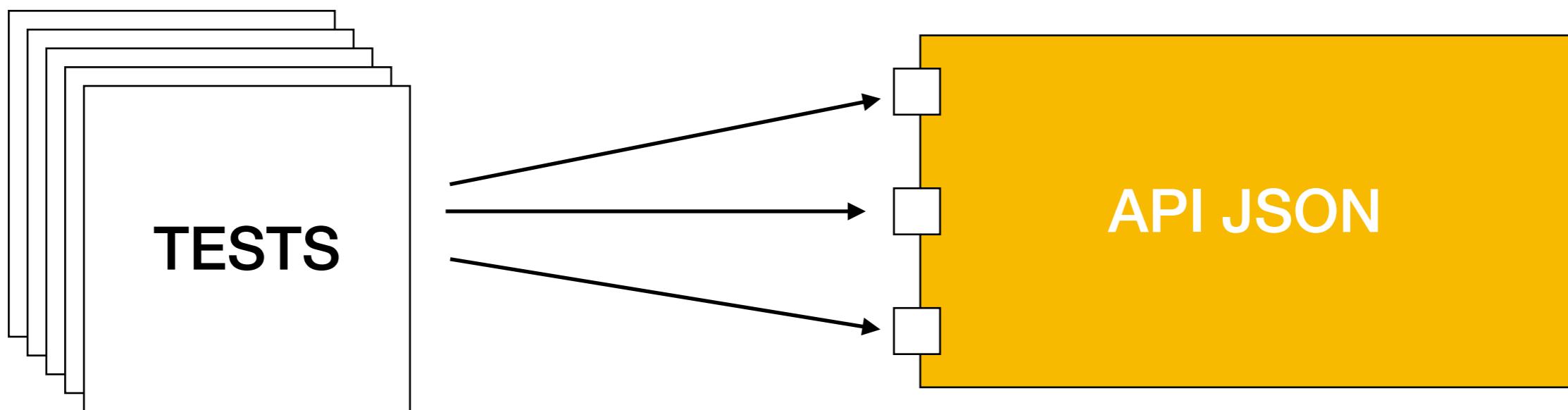
Why do I need to provide my date of birth?

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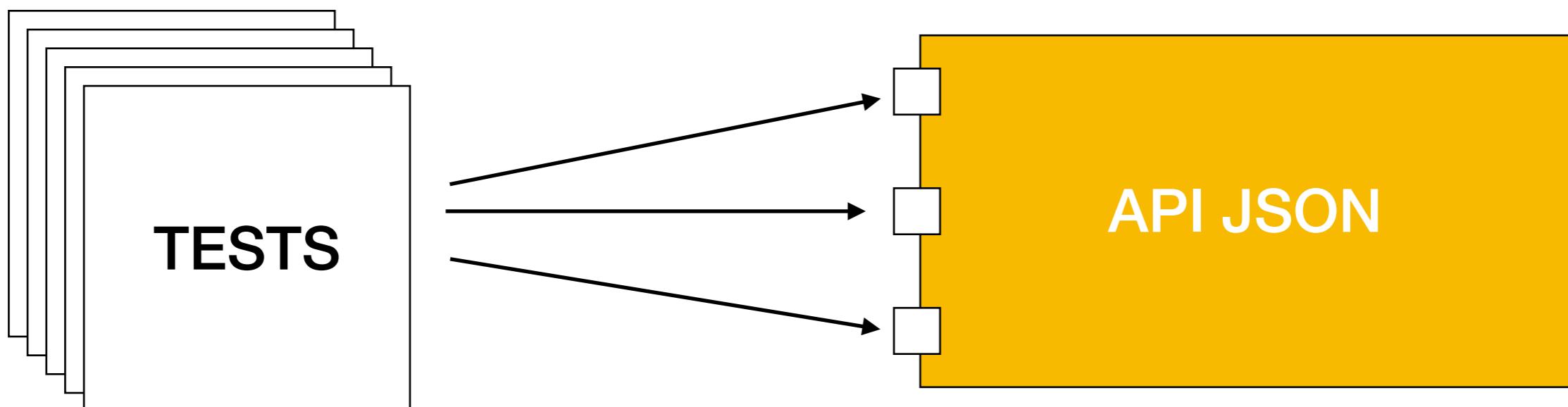
Interface



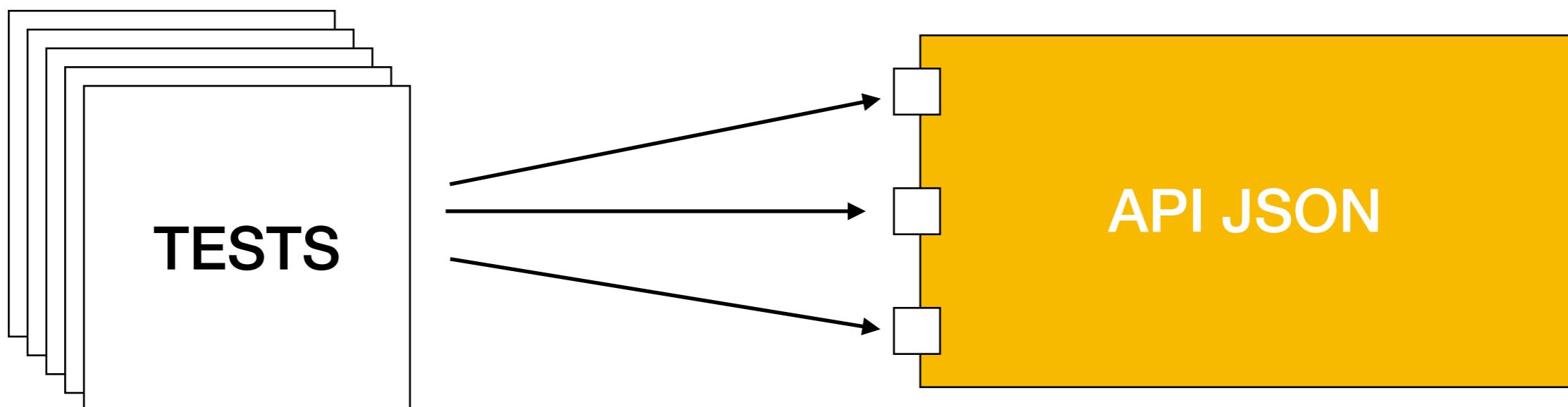
Tester une API JSON



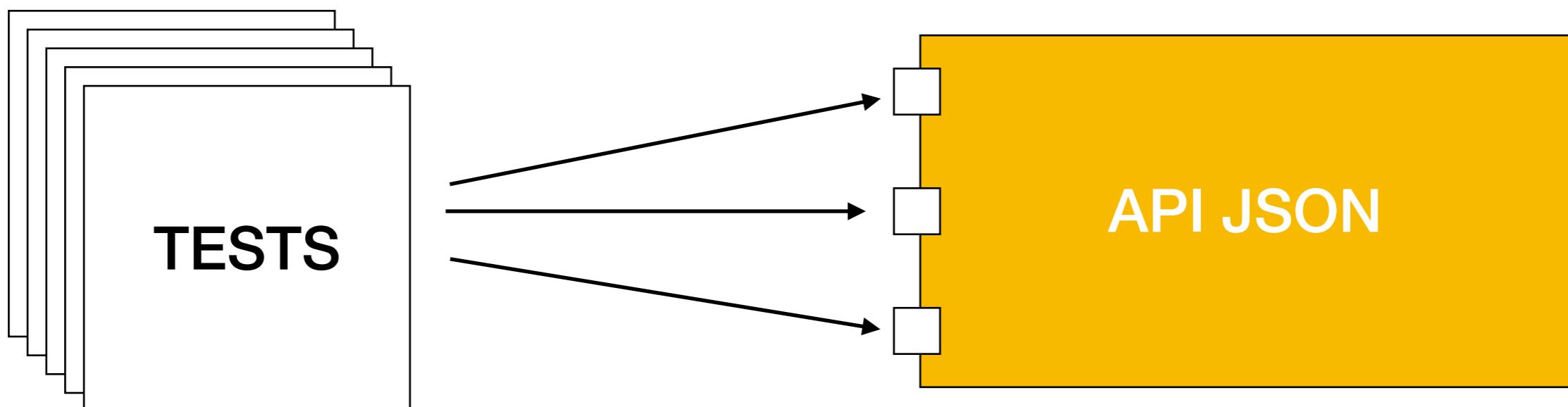
Tester une API JSON



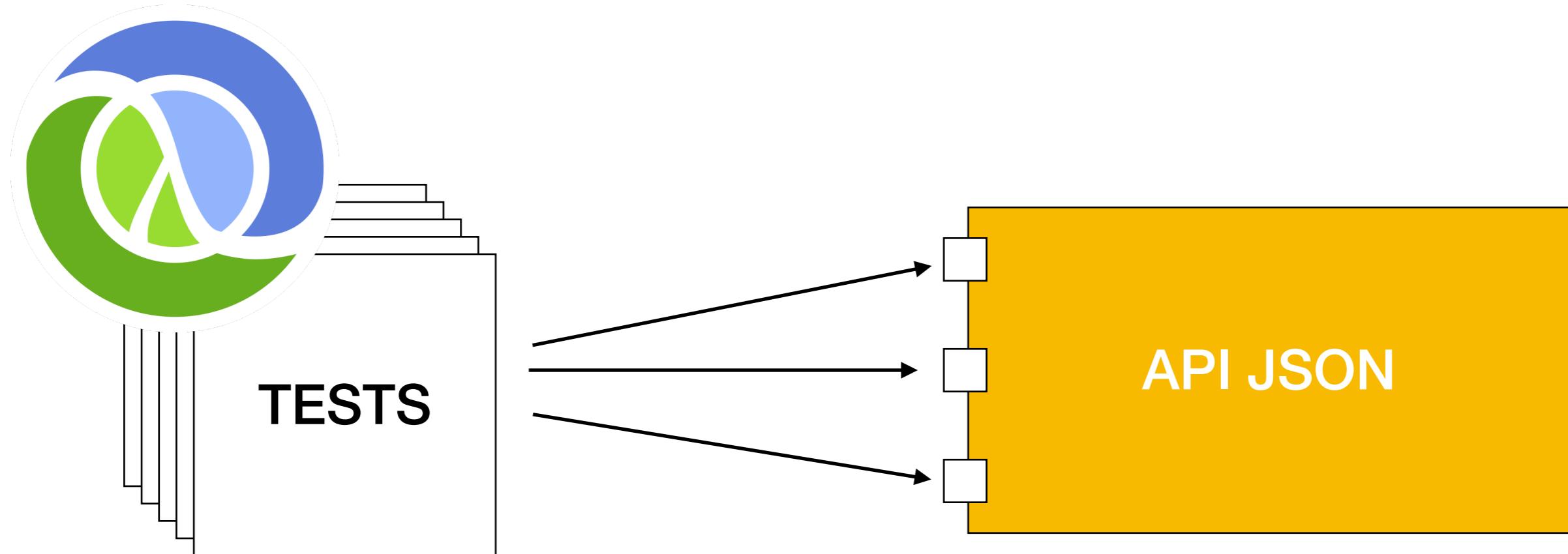
Tester une API JSON



Tester une API JSON



Tester une API JSON



Clojure ?

(lisp)



(lisp)



calc(1, 2)

(lisp)

calc(1, 2)

(calc 1 2)



Citations

**My objective as a software developer is not to be smart,
it's really to limit my stupidity to small local scopes.**

Stuart Halloway

Aim Small, Miss Small

Stuart Halloway / Mel Gibson / Bradley Cooper

Clojure Spec

```
(s/def ::non-empty-string (s/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/valid? ::message { :title "Titre" :content "Contenu" })
;; true
```

Clojure Spec

```
(s/valid? ::message { :title "Titre" :content "Contenu" })
;; true

(s/explain ::message {})
;; {} - failed: (contains? % :title) spec: :user/message
;; {} - failed: (contains? % :content) spec: :user/message
```

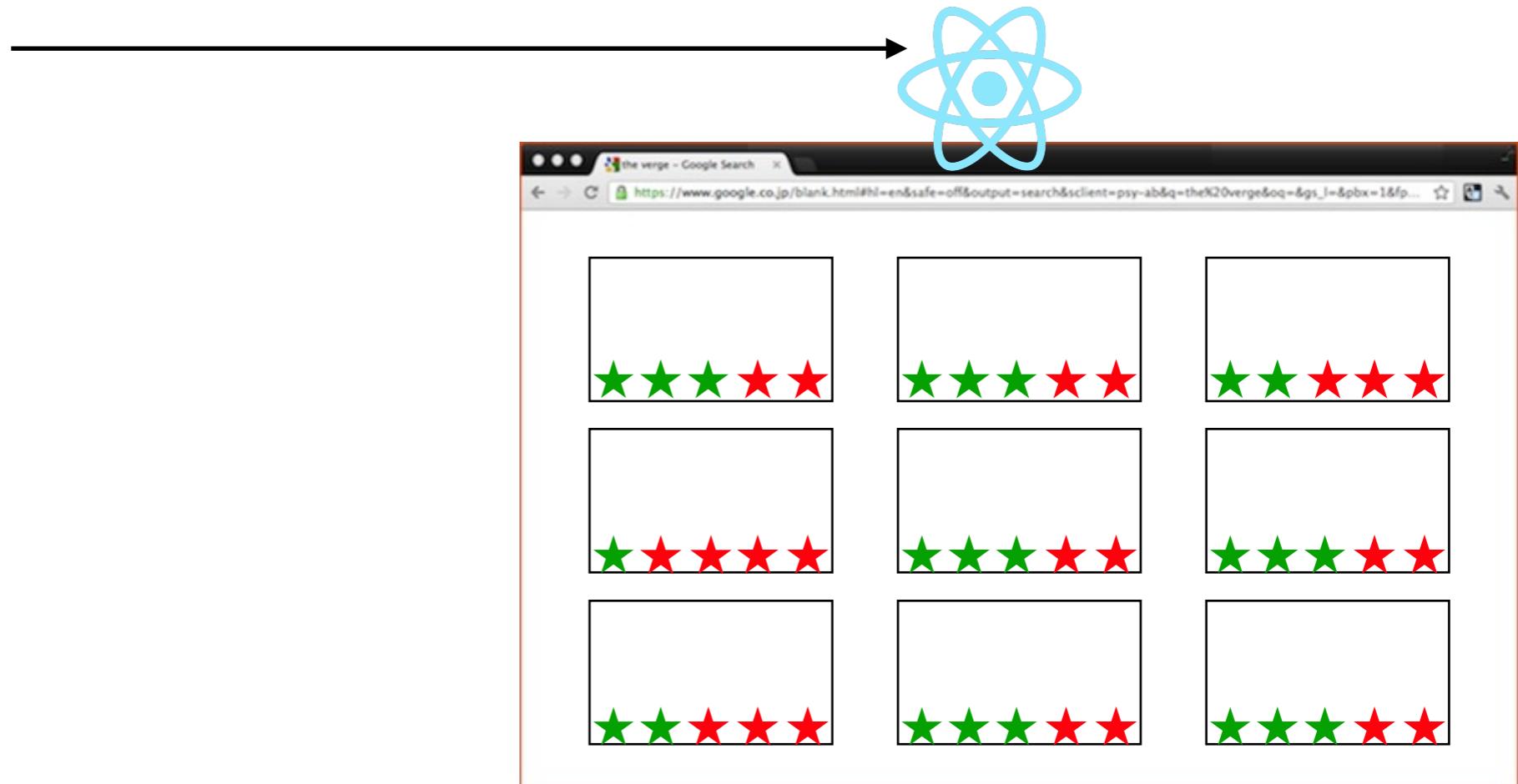
Clojure Spec

```
(s/valid? ::message { :title "Titre" :content "Contenu" })
;; true

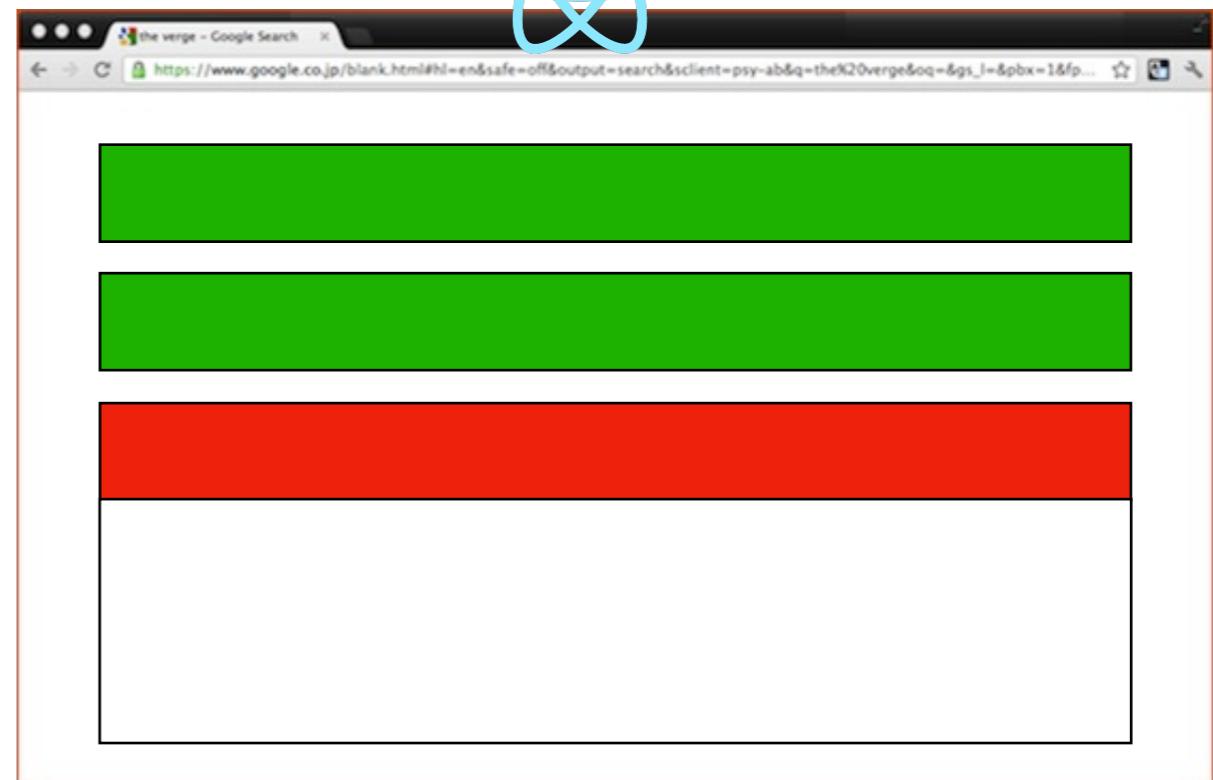
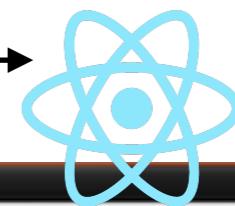
(s/explain ::message {})
;; {} - failed: (contains? % :title) spec: :user/message
;; {} - failed: (contains? % :content) spec: :user/message

(gen/sample (s/gen ::message) 3)
;; ({:priority 1, :title "d", :content "i"}
;; {:priority 1, :title "9", :content "kl"}
;; {:title "81aU", :content "5Z"})
```

Dashboard (bis)



Détail des tests

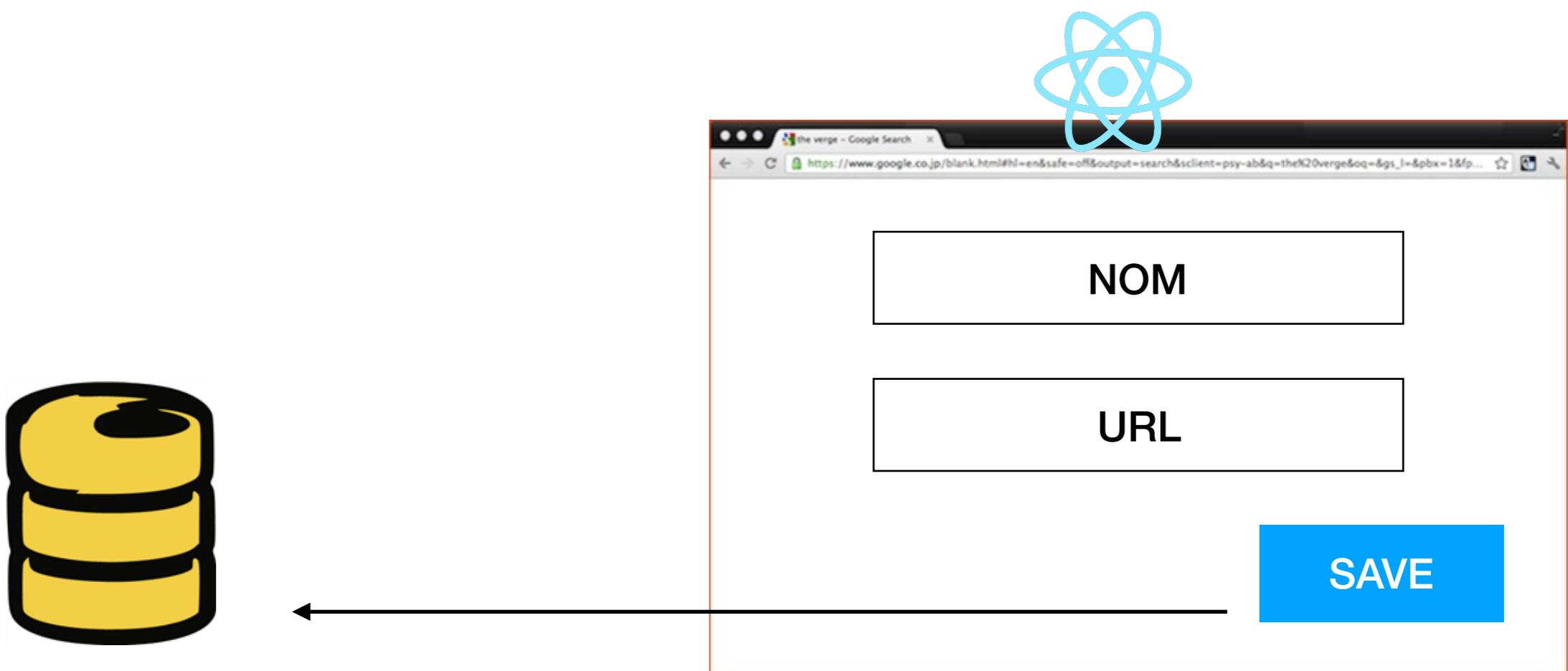


Urls des équipes

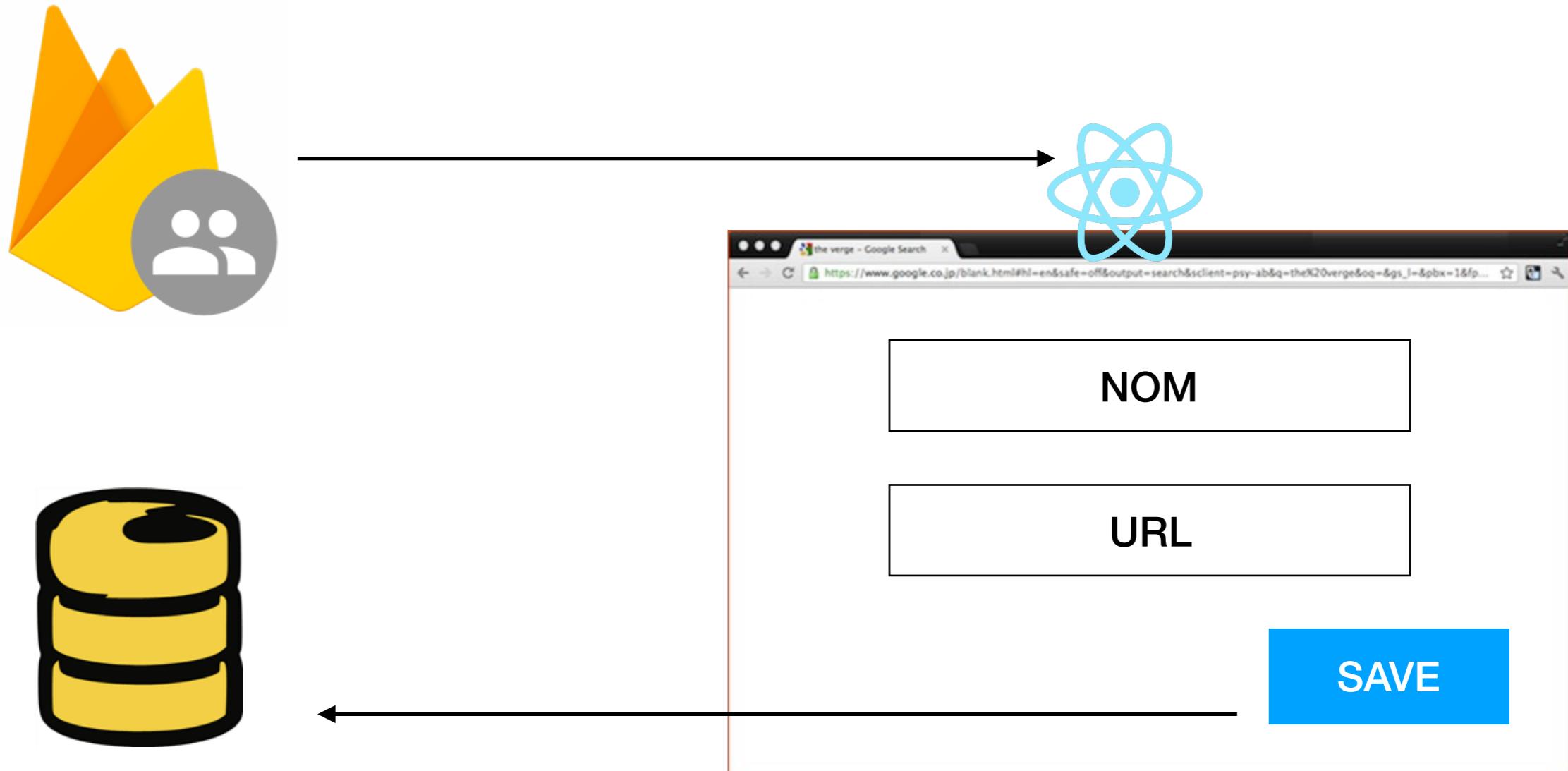
Configuration des équipes



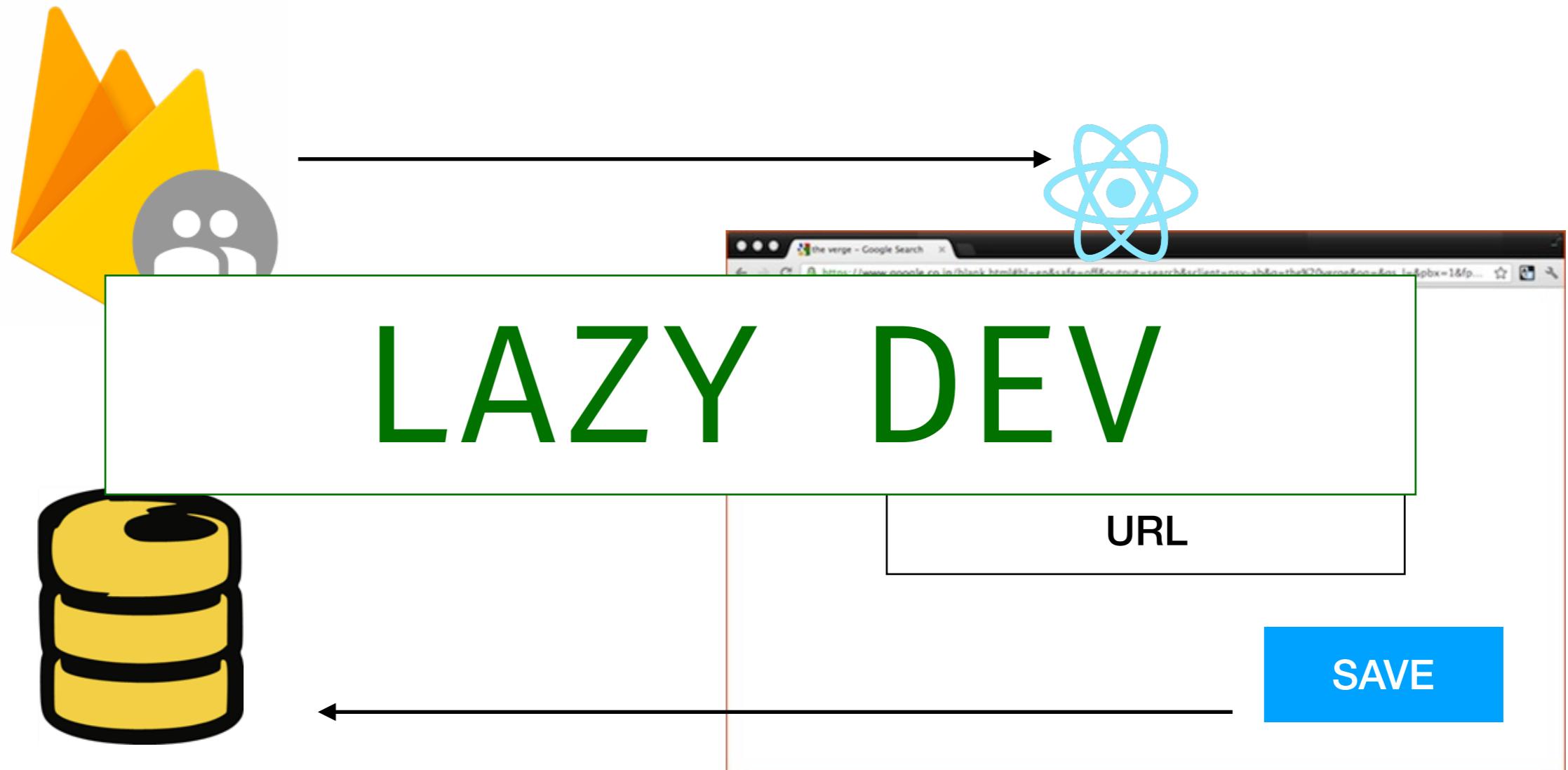
Configuration des équipes



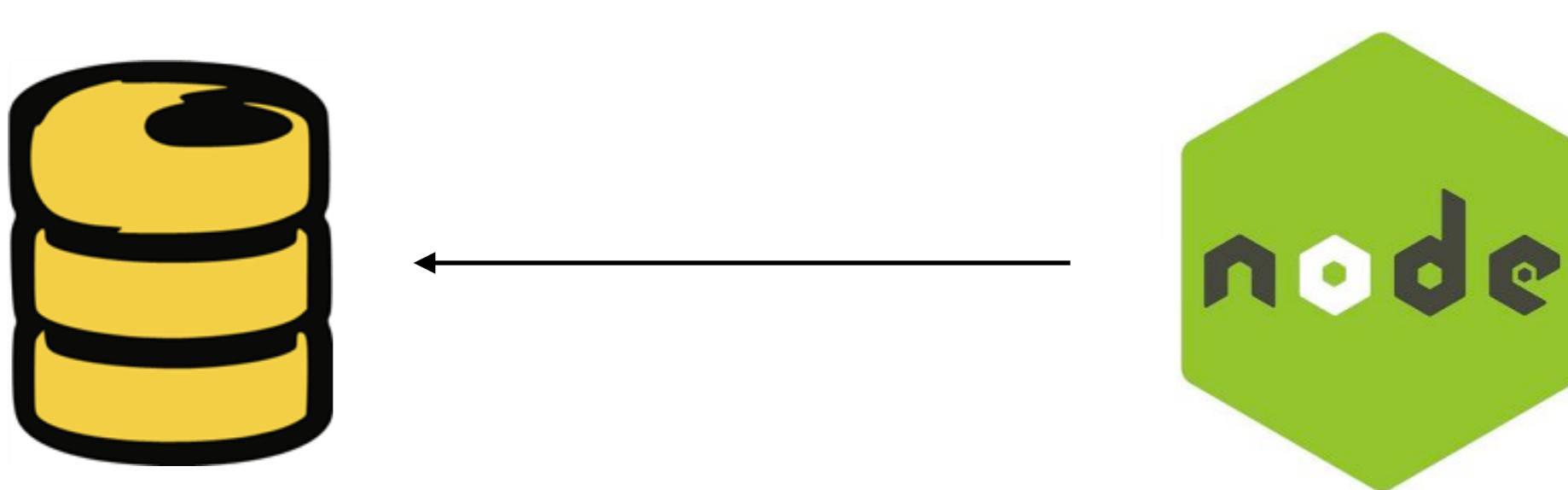
Configuration des équipes



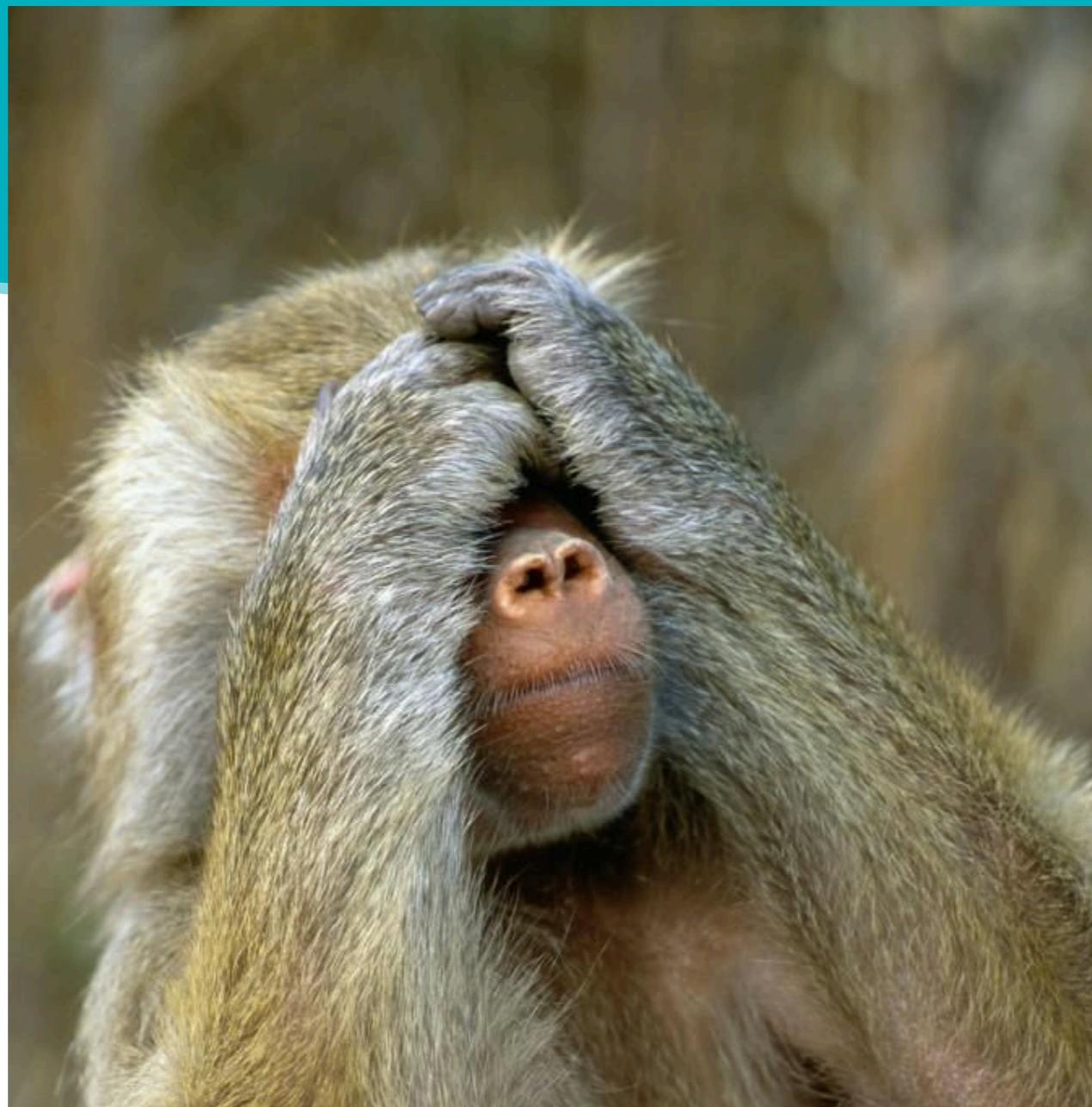
Configuration des équipes



Simple script



Et le déploiement ?



Le Front, c'est facile !

firebase
deploy

Le Front, c'est facile !

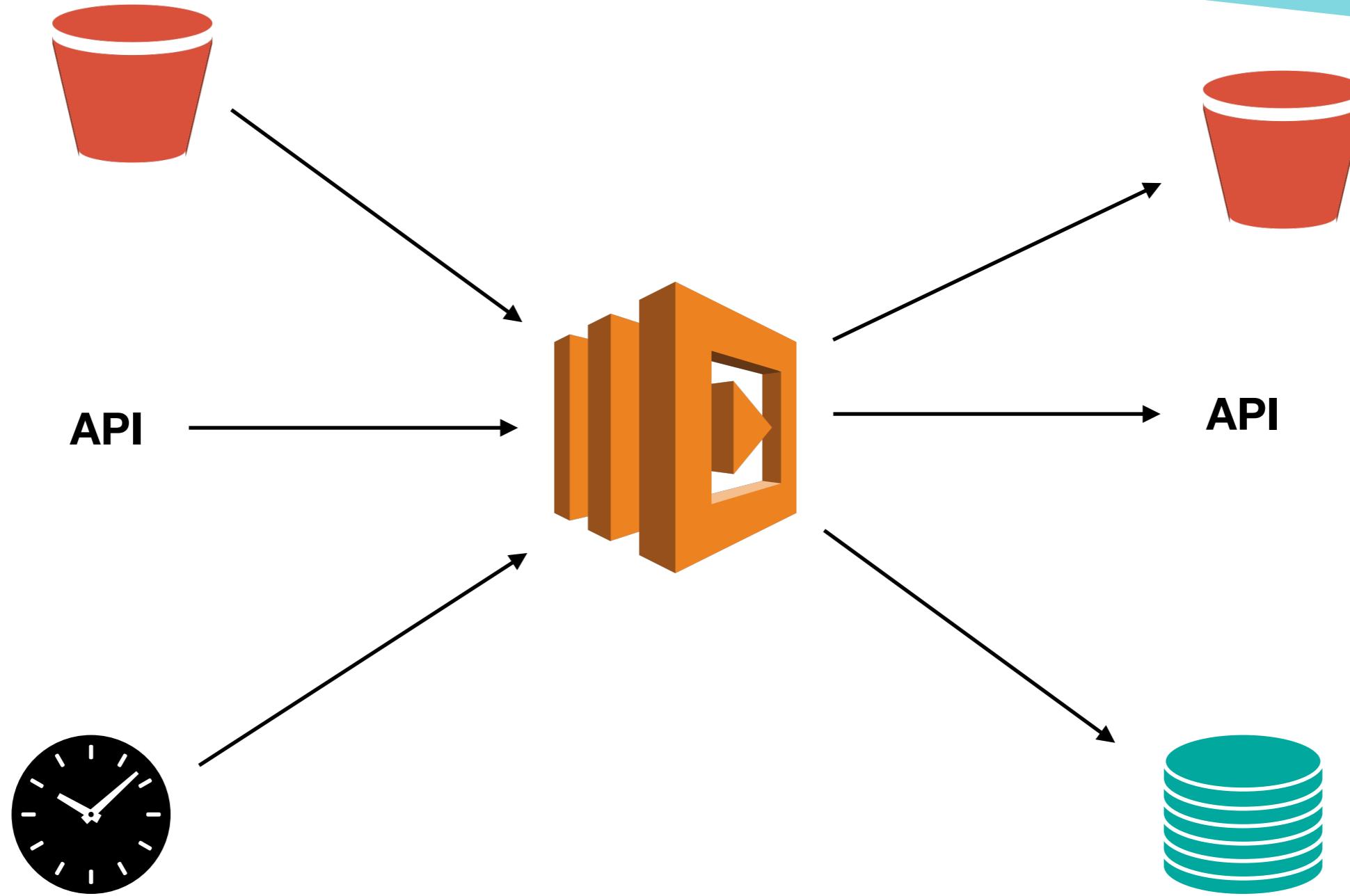
firebase
deploy



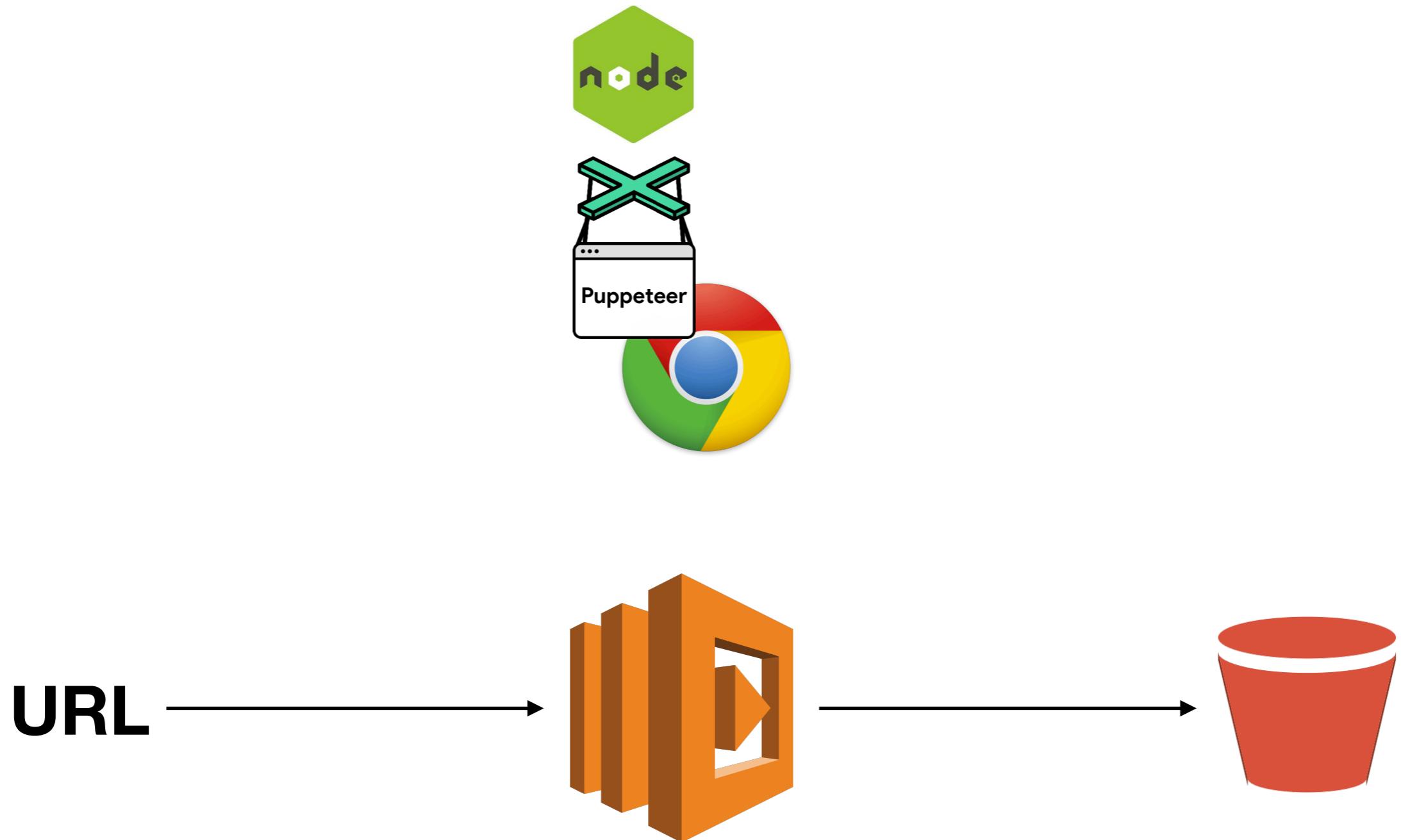
Screenshot Lambda



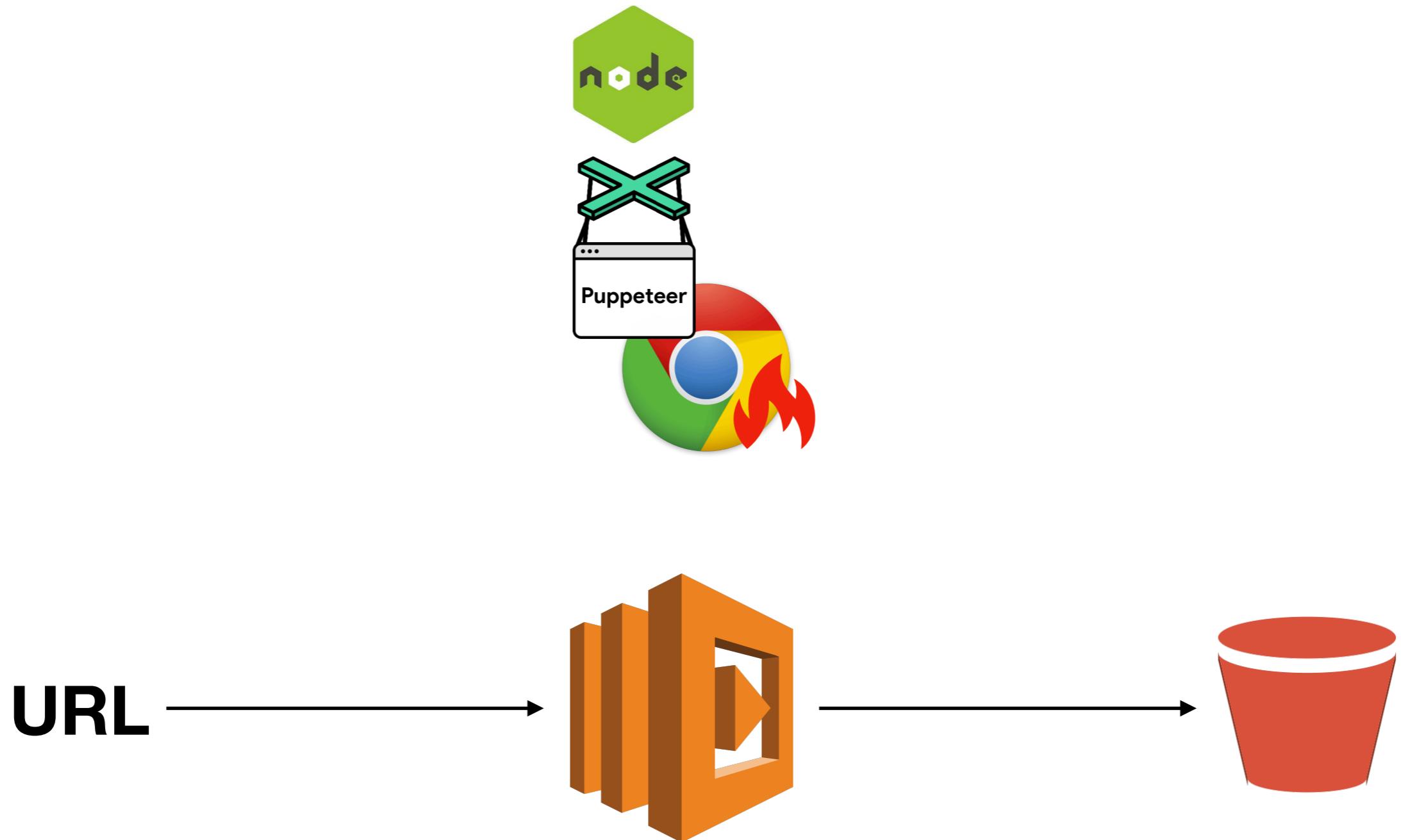
AWS Lambda ?



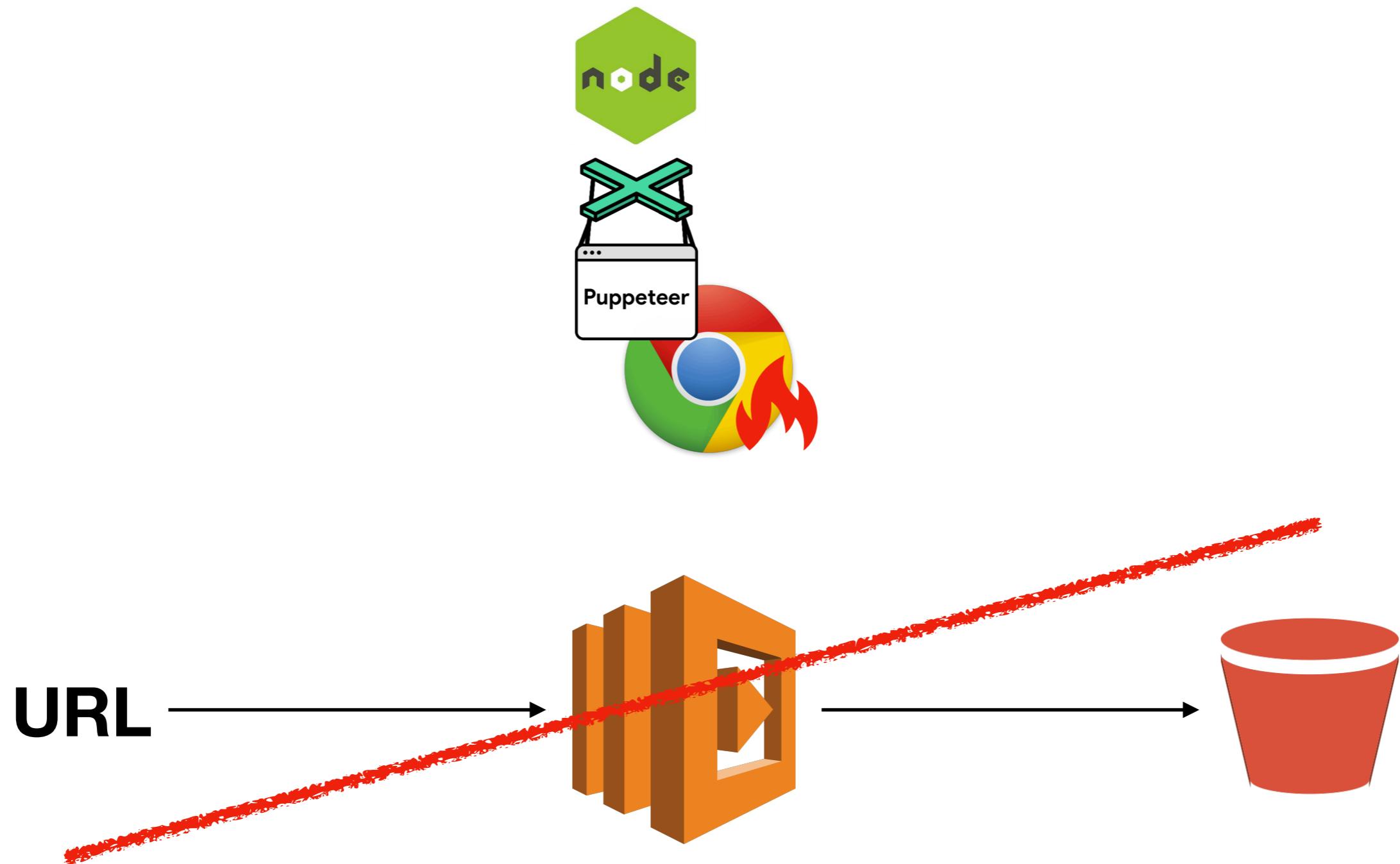
Screenshot Lambda



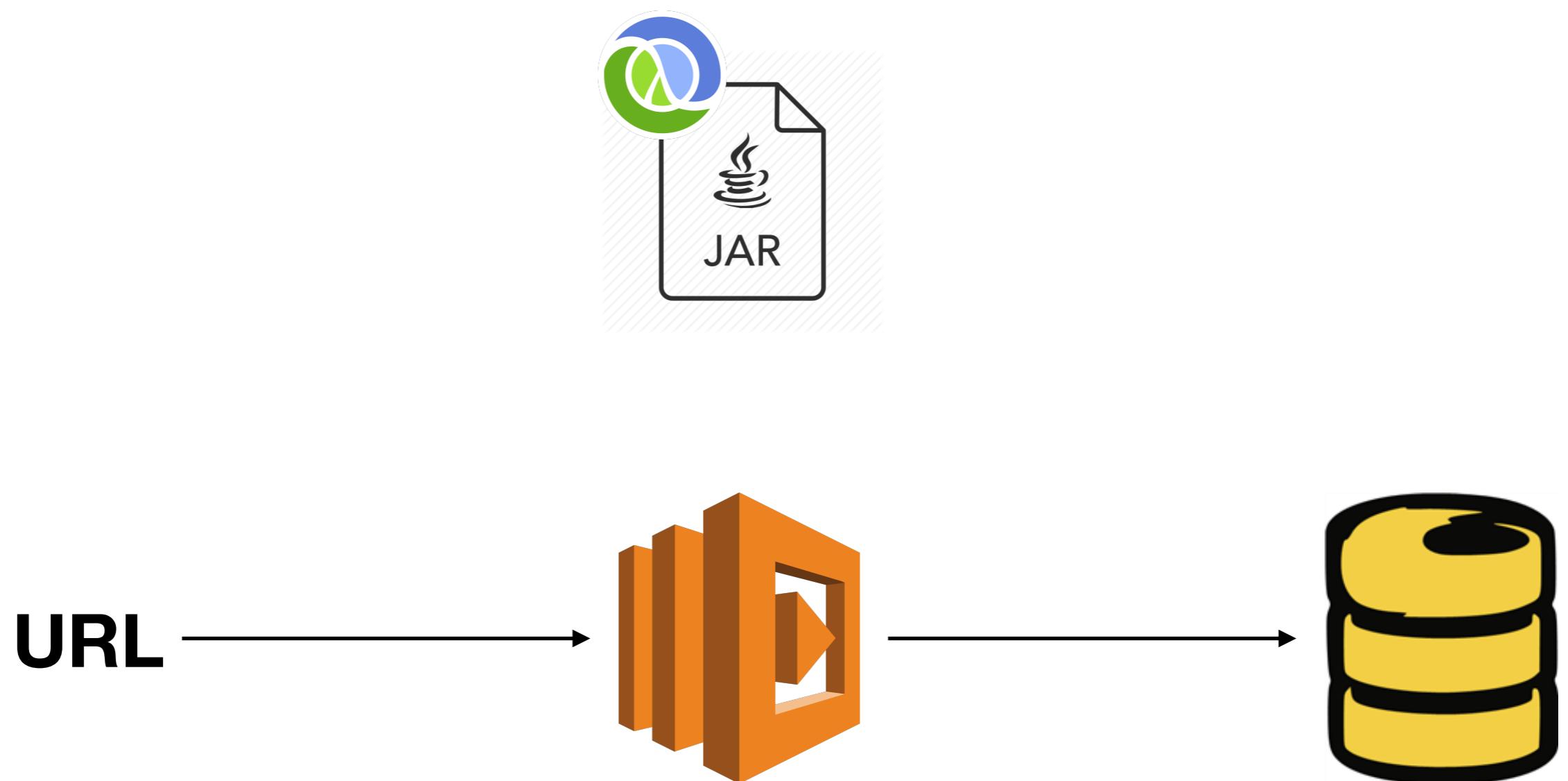
Screenshot Lambda



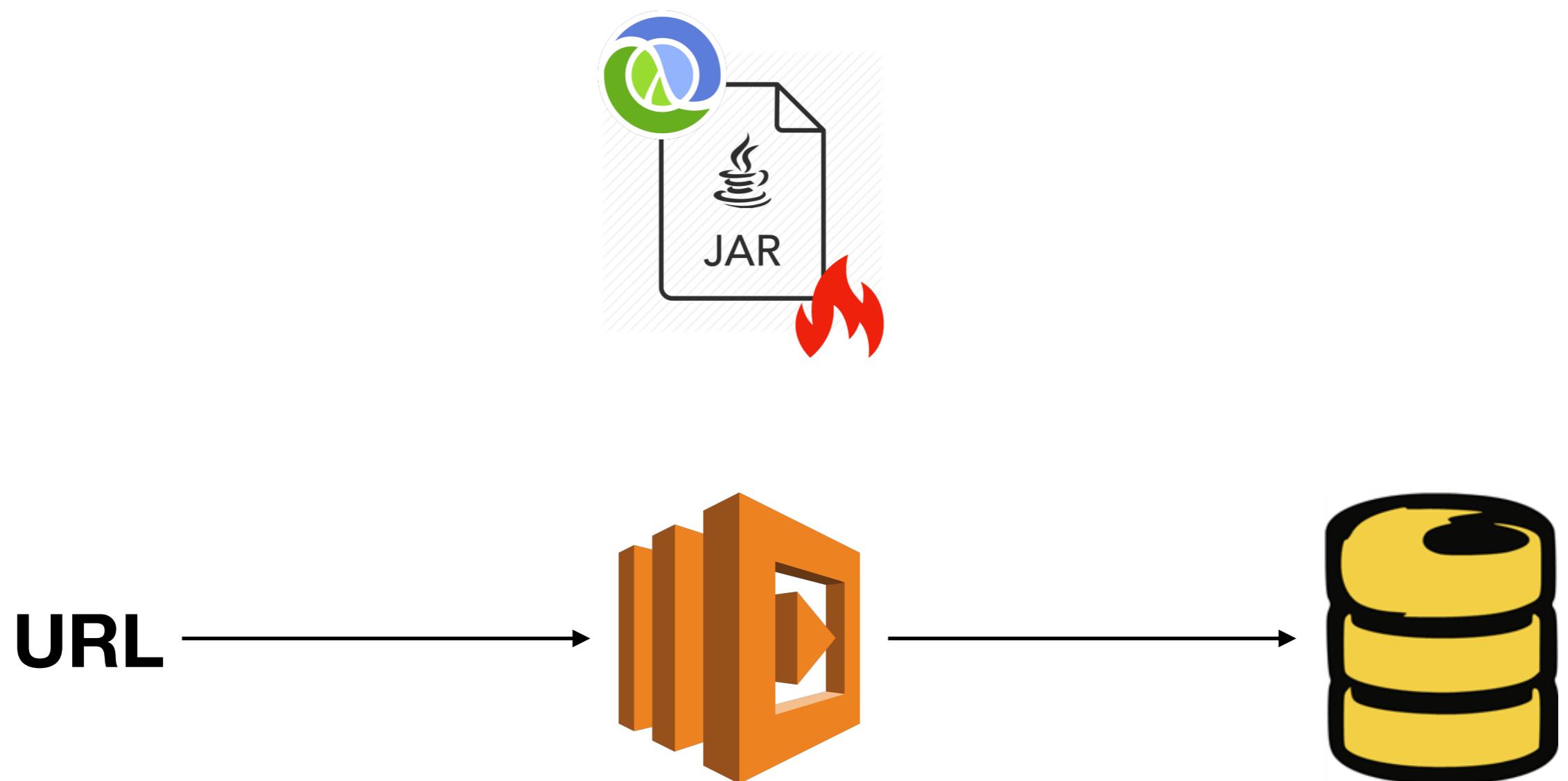
Screenshot Lambda



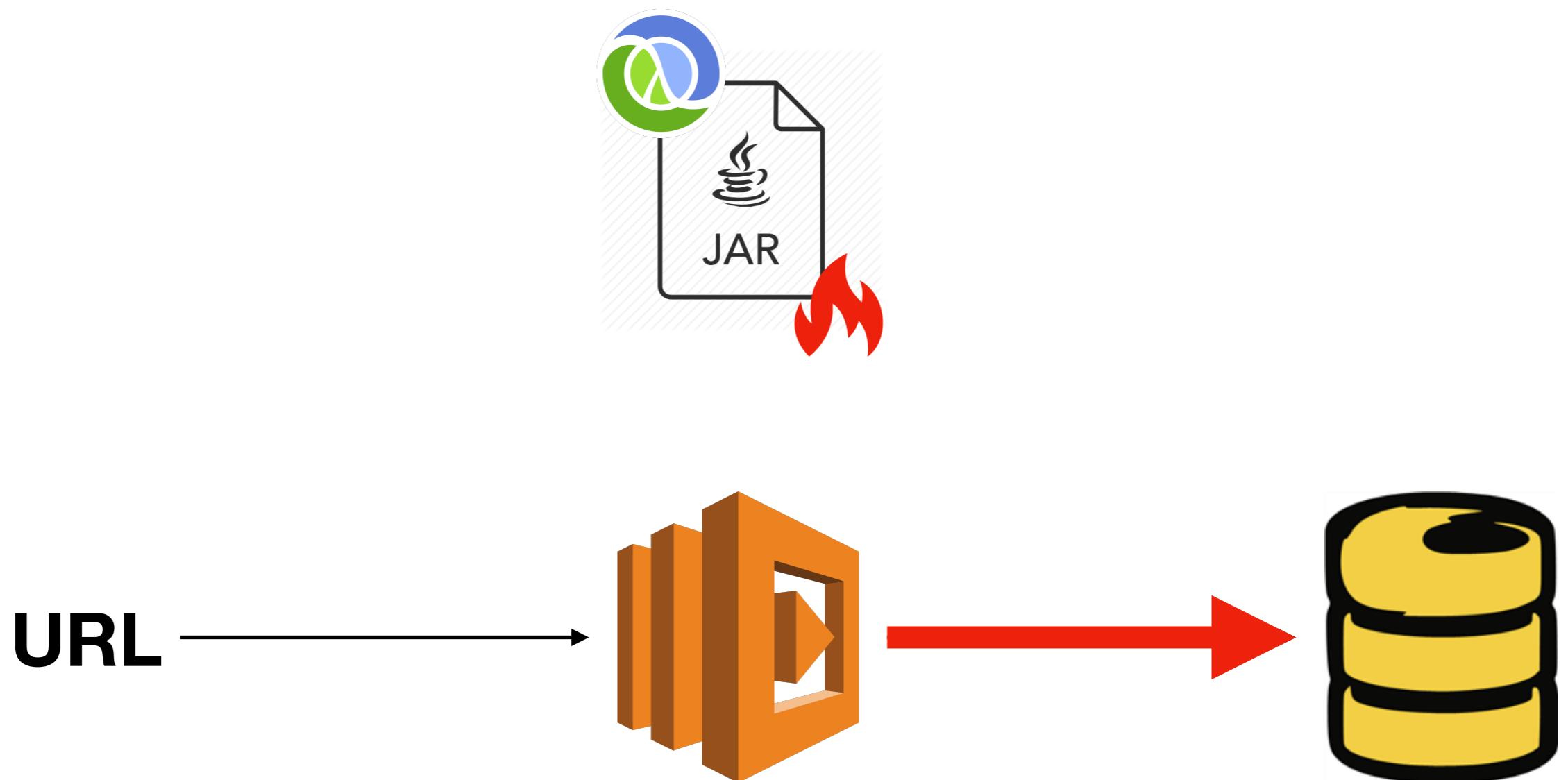
Lambda Tester



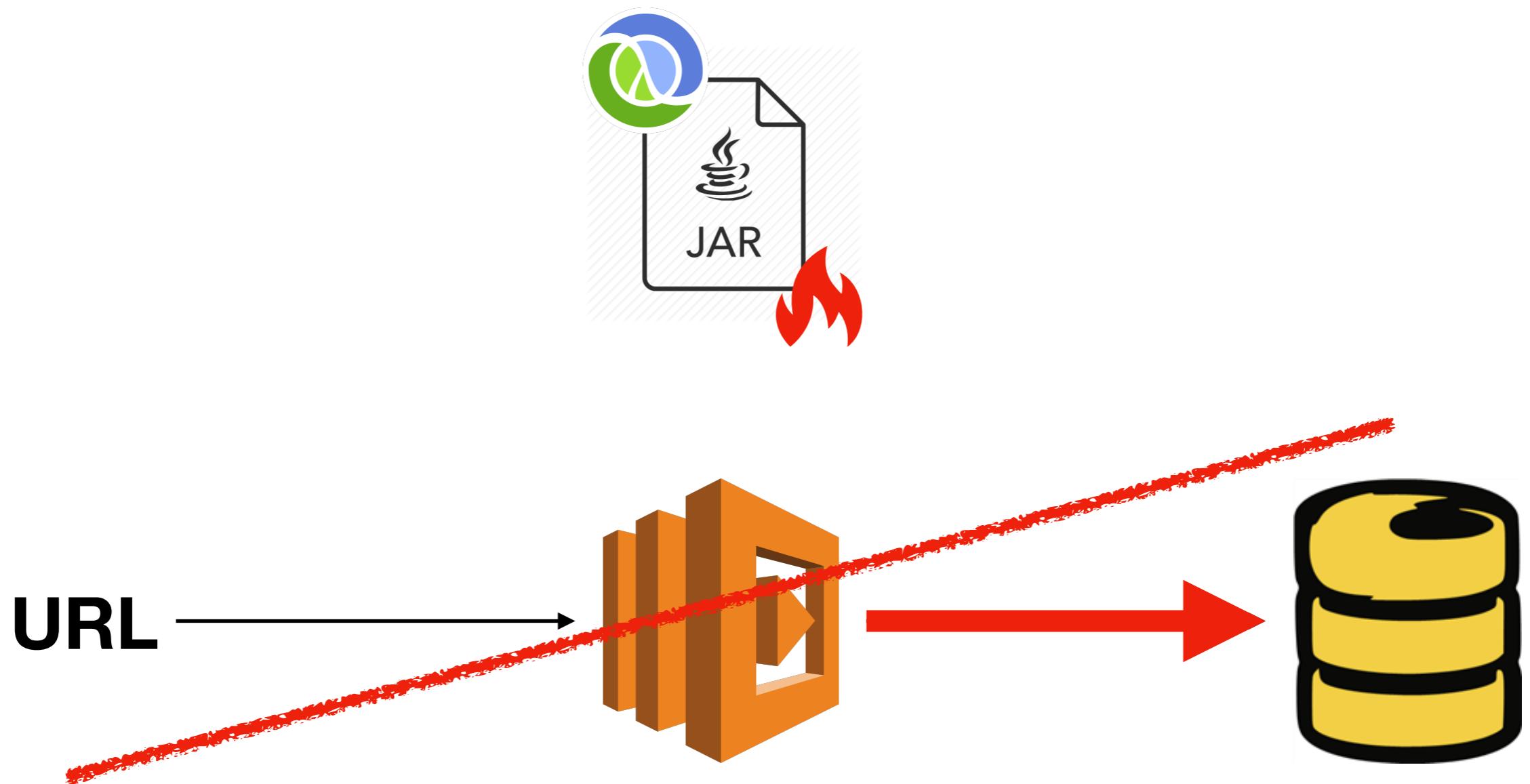
Lambda Tester



Lambda Tester



Lambda Tester



La solution

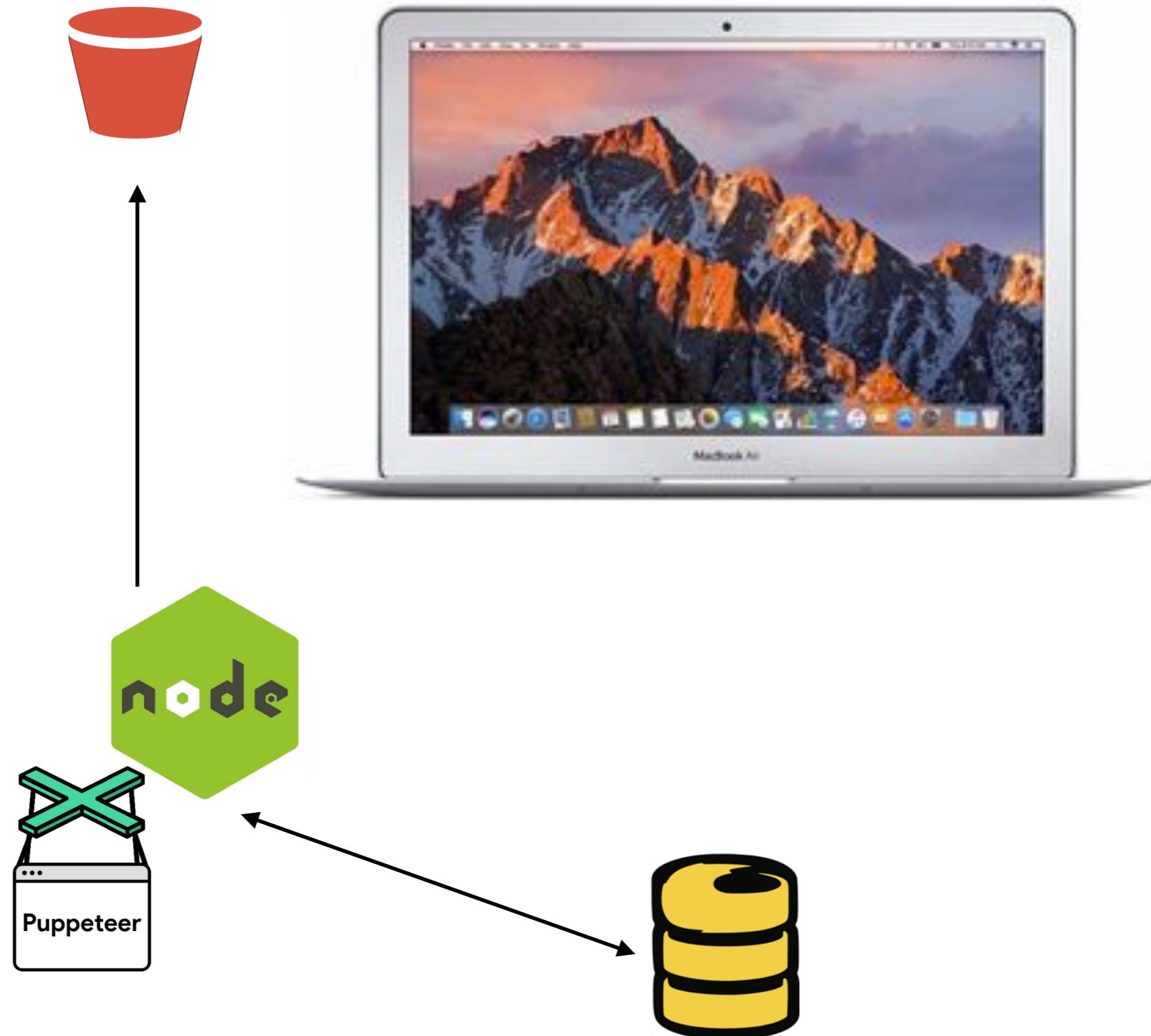
La solution

Iteracode / Nightcode / nightcode
nightcode-so-sorry

MacBook « Cloud »



MacBook « Cloud »



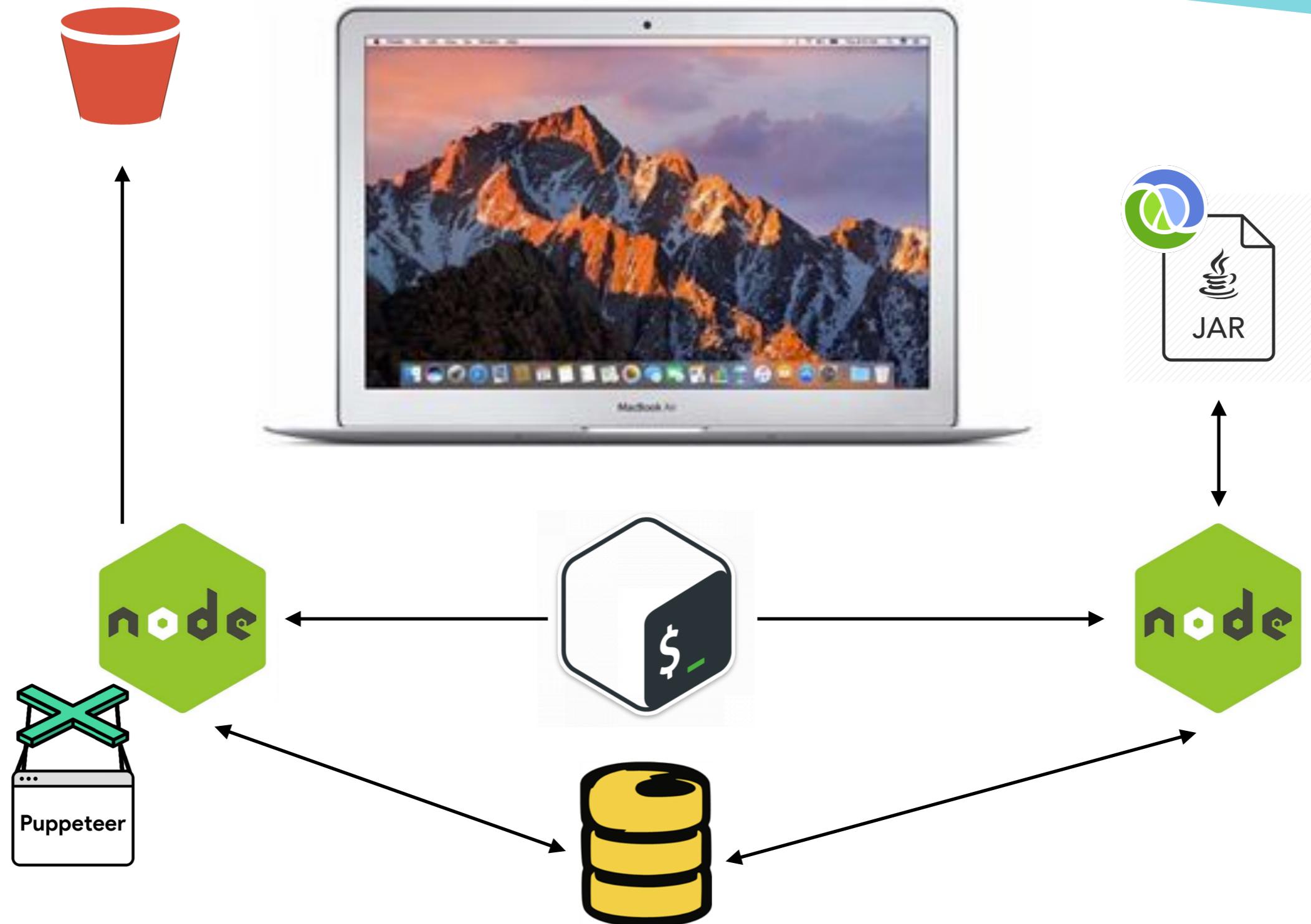
MacBook « Cloud »



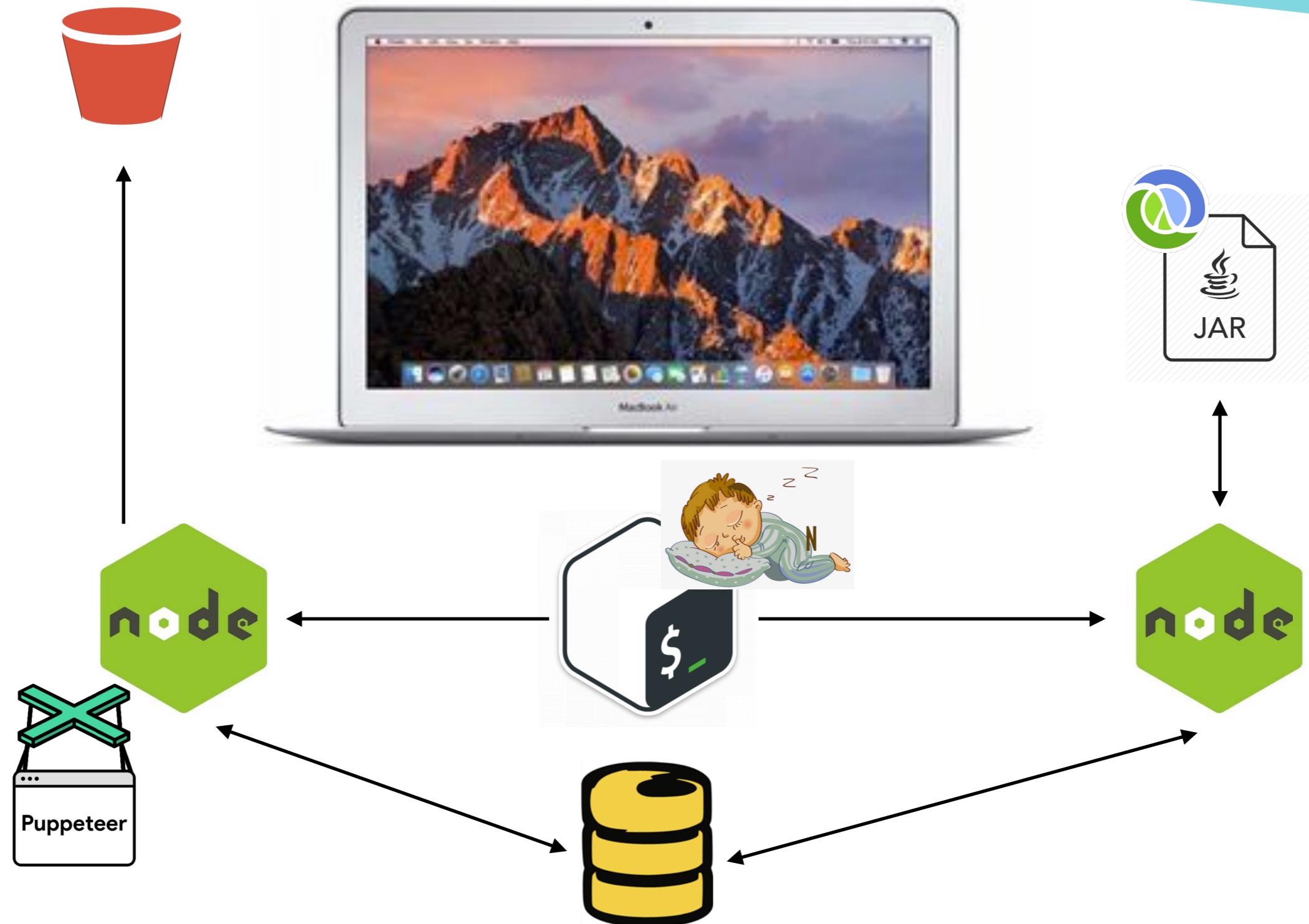
MacBook « Cloud »



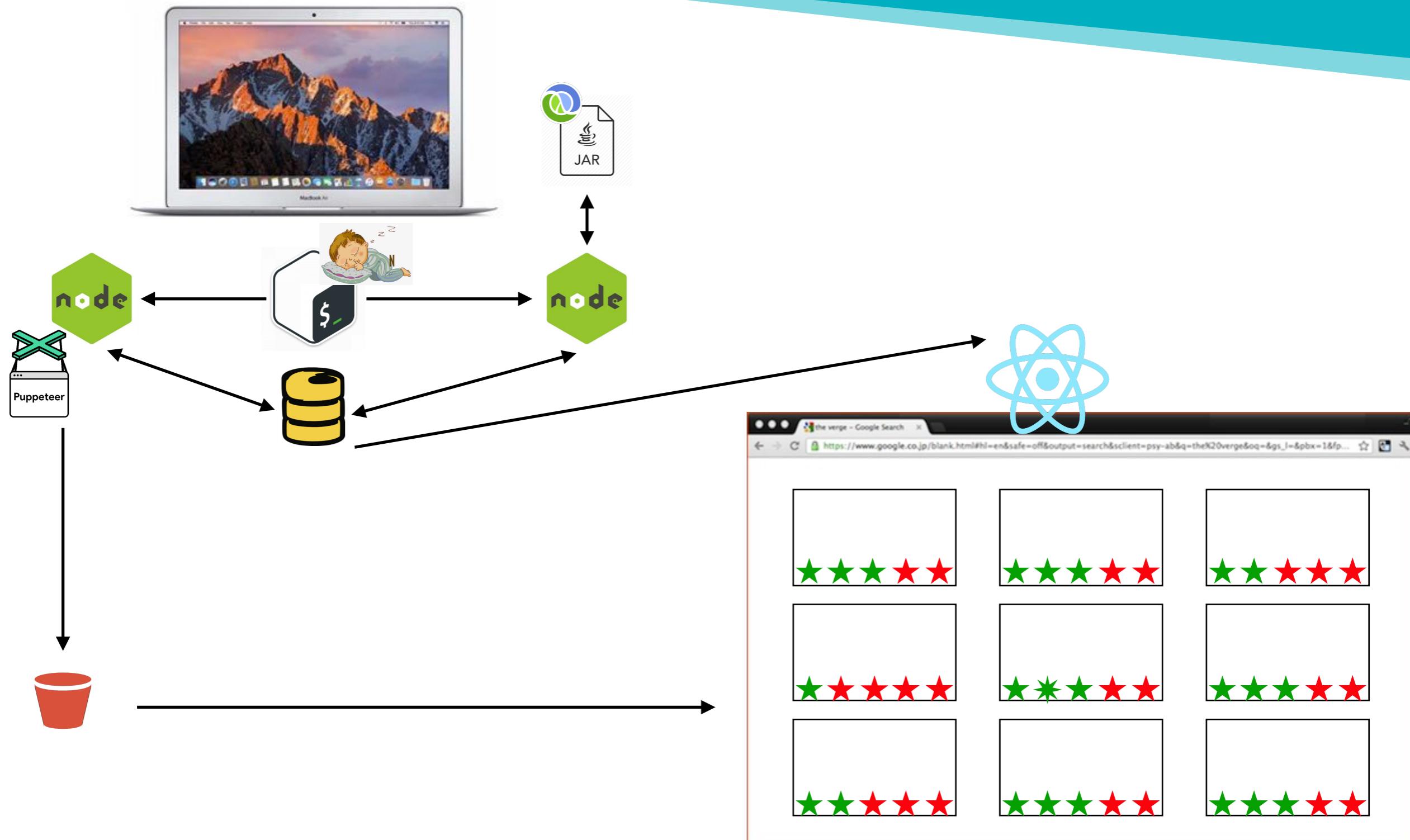
MacBook « Cloud »



MacBook « Cloud »

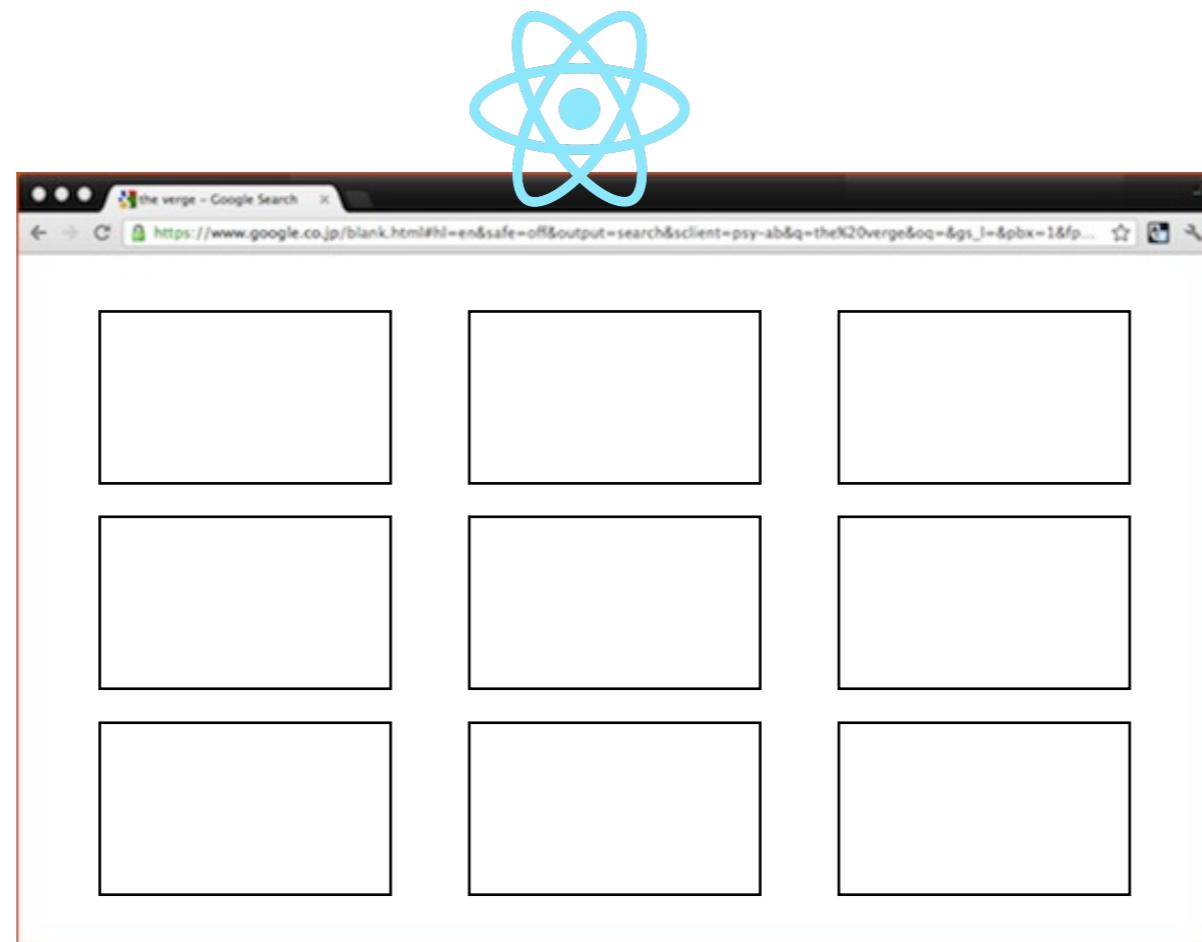


Nightcode 2018 - Full

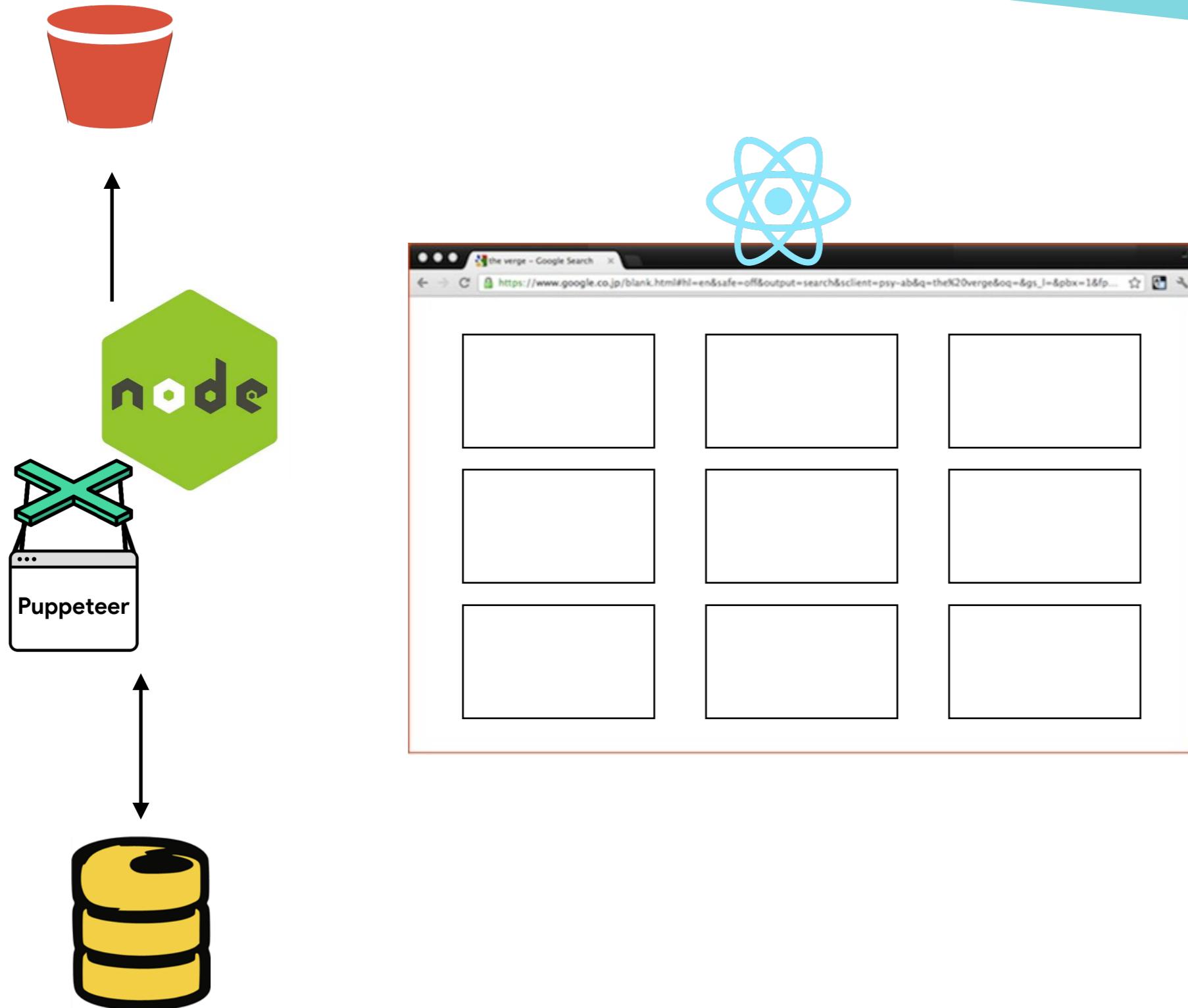


Un an plus tard

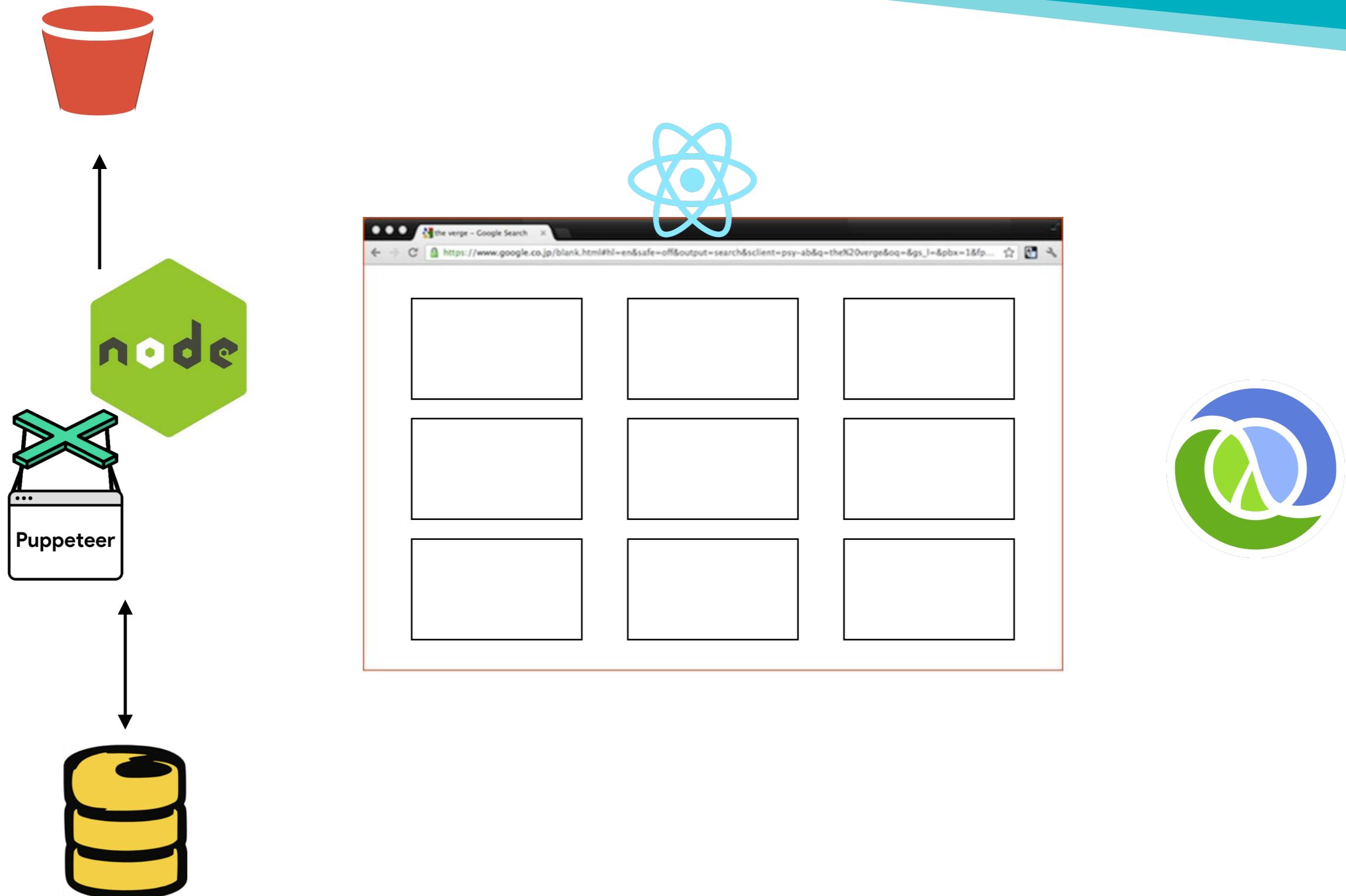
Legacy



Legacy



Legacy

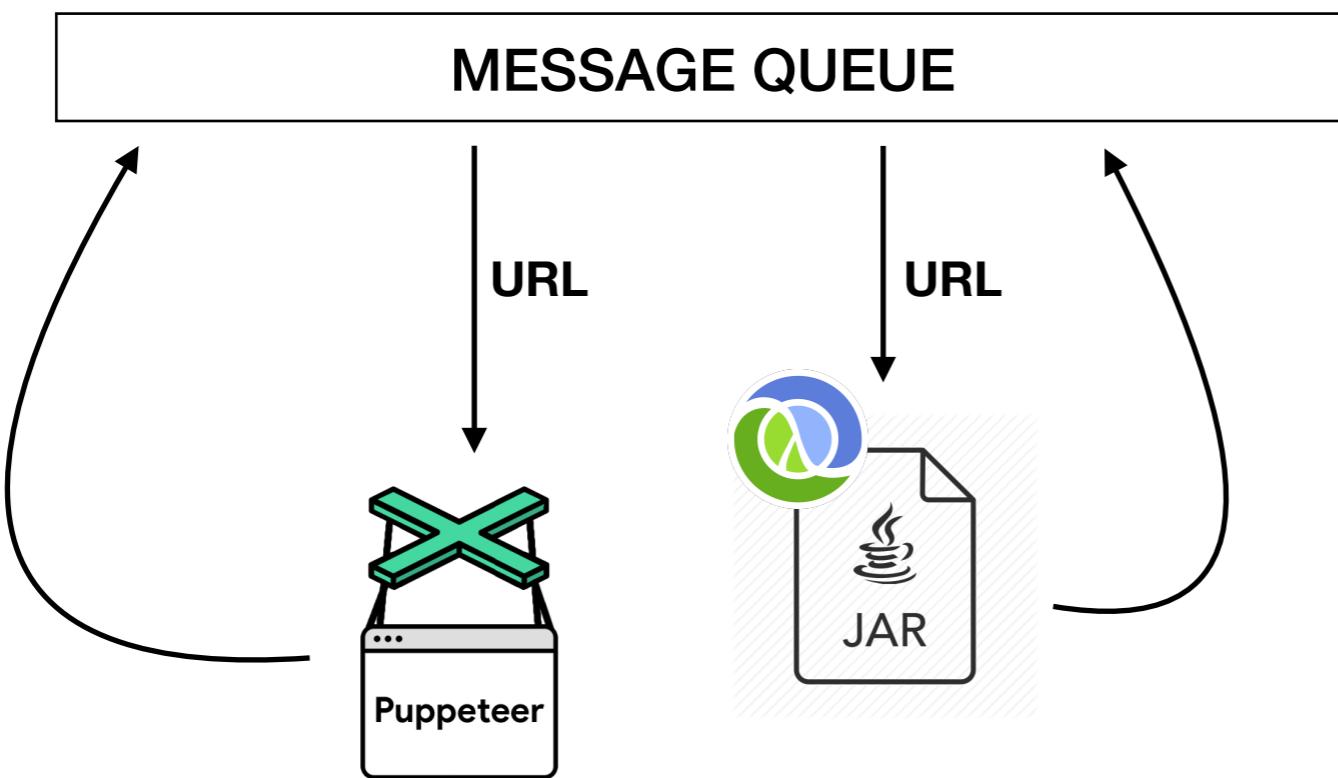


Lazy Coupling

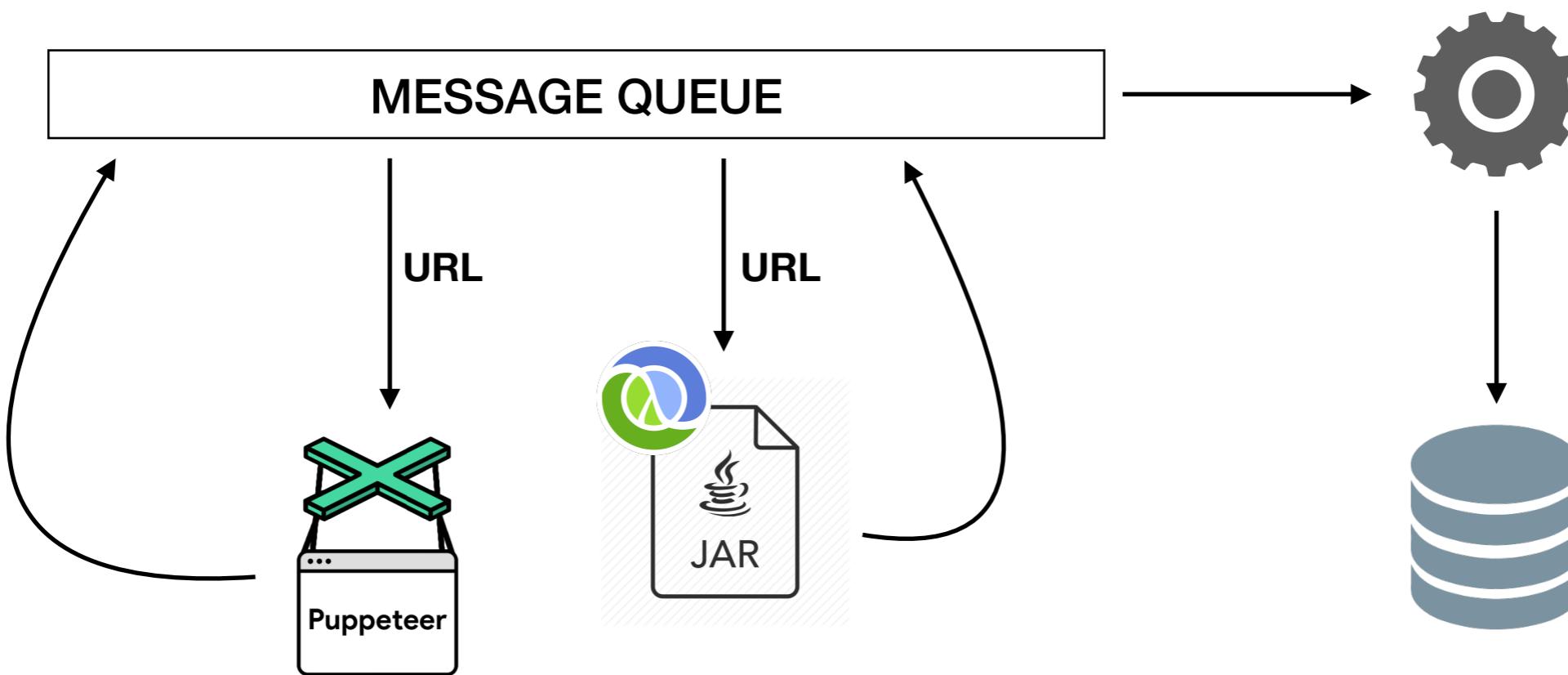


MESSAGE QUEUE

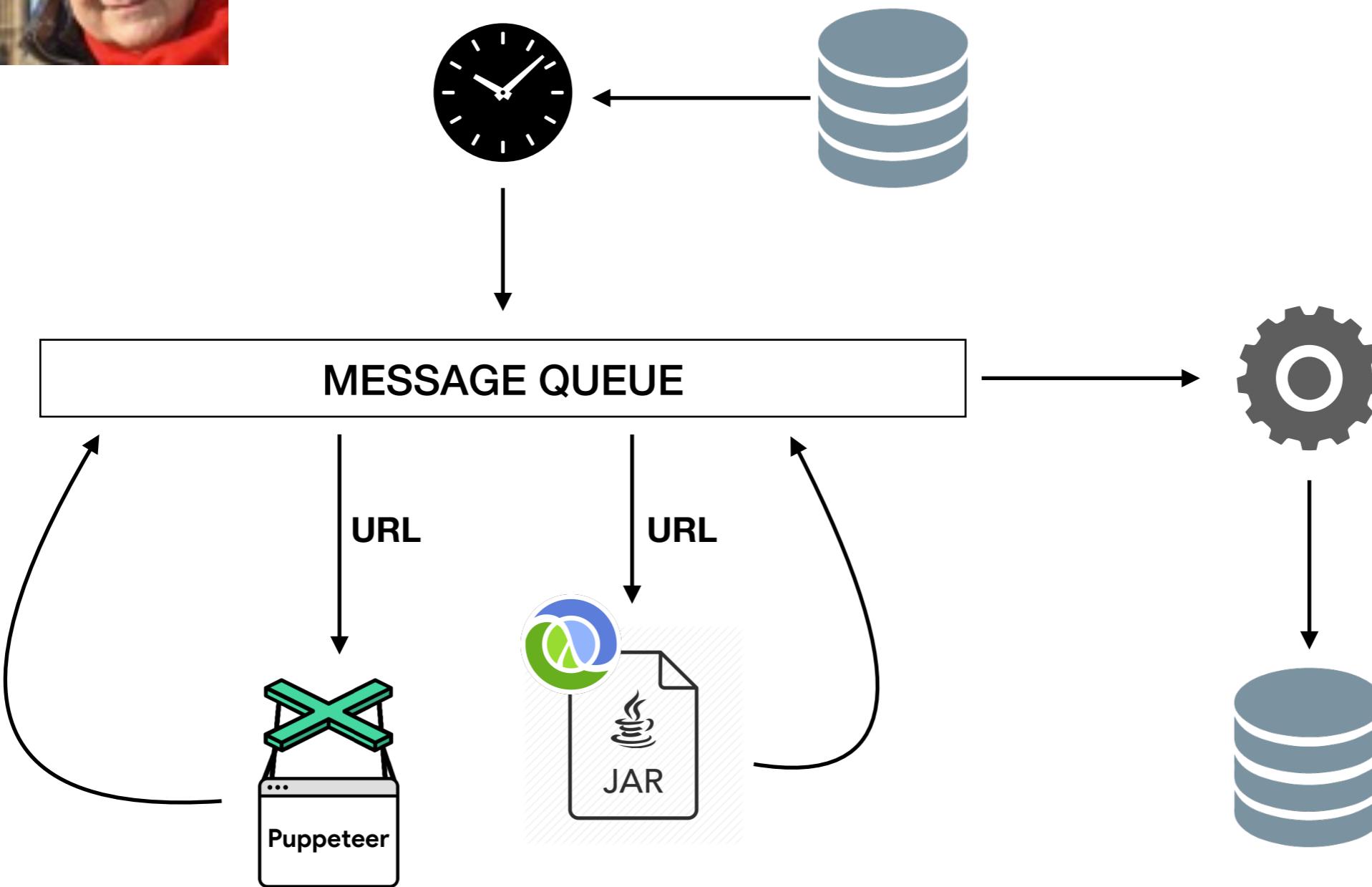
Lazy Coupling



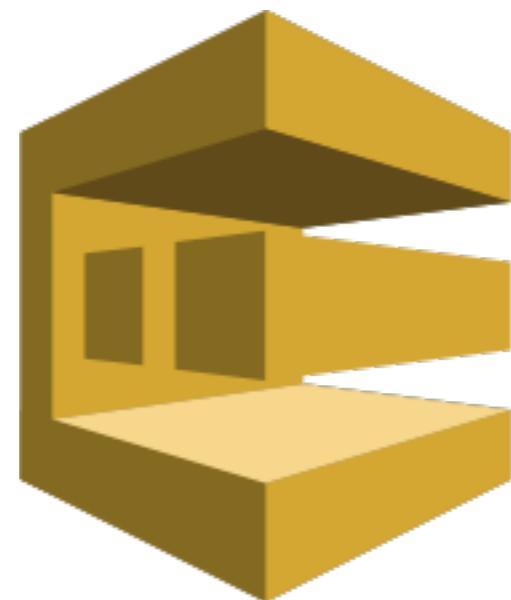
Lazy Coupling



Lazy Coupling

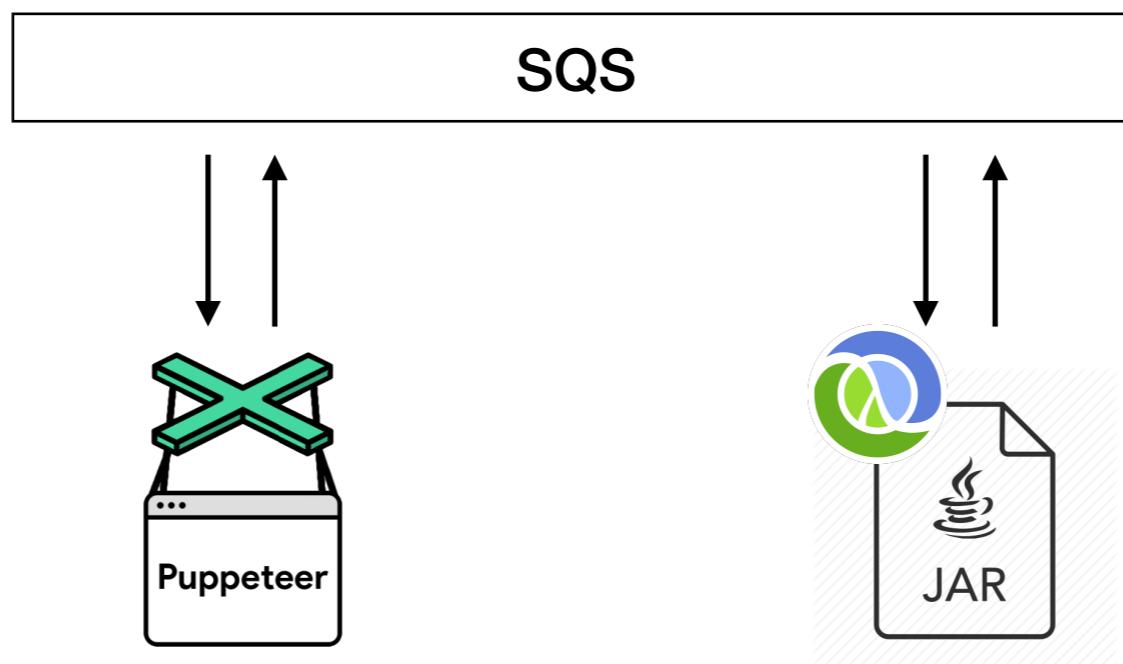


AWS ?

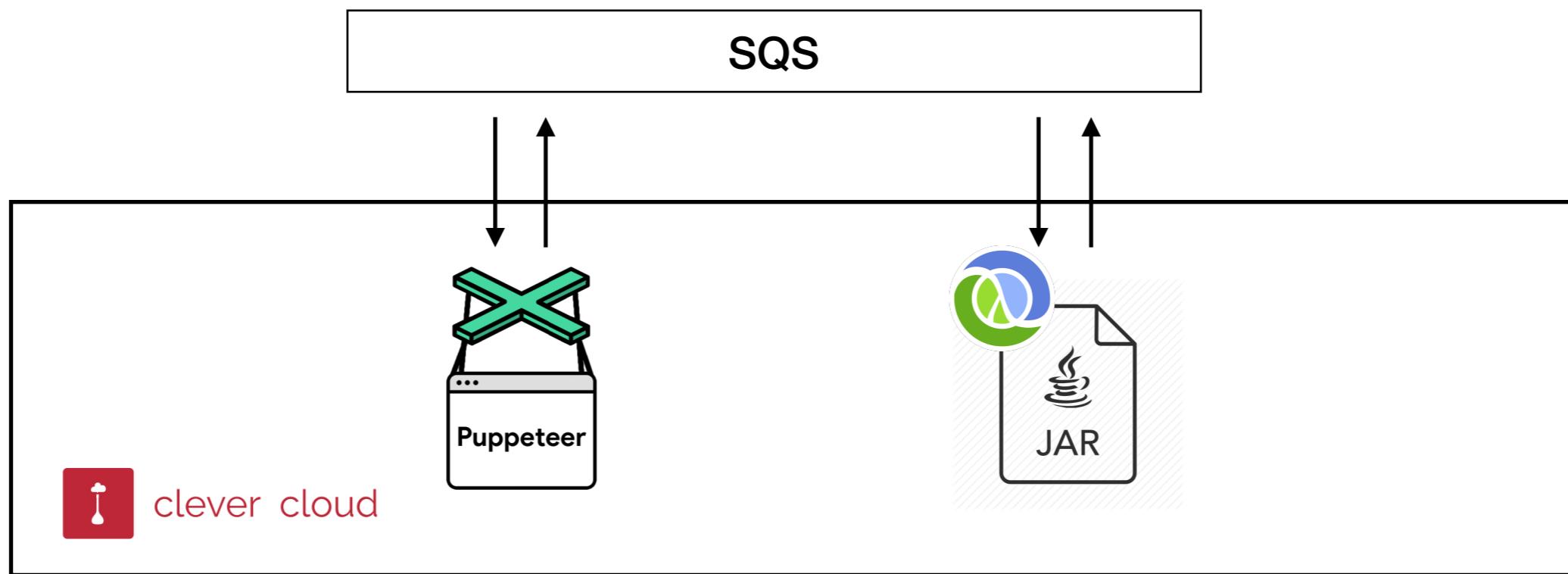


amazon
SQS

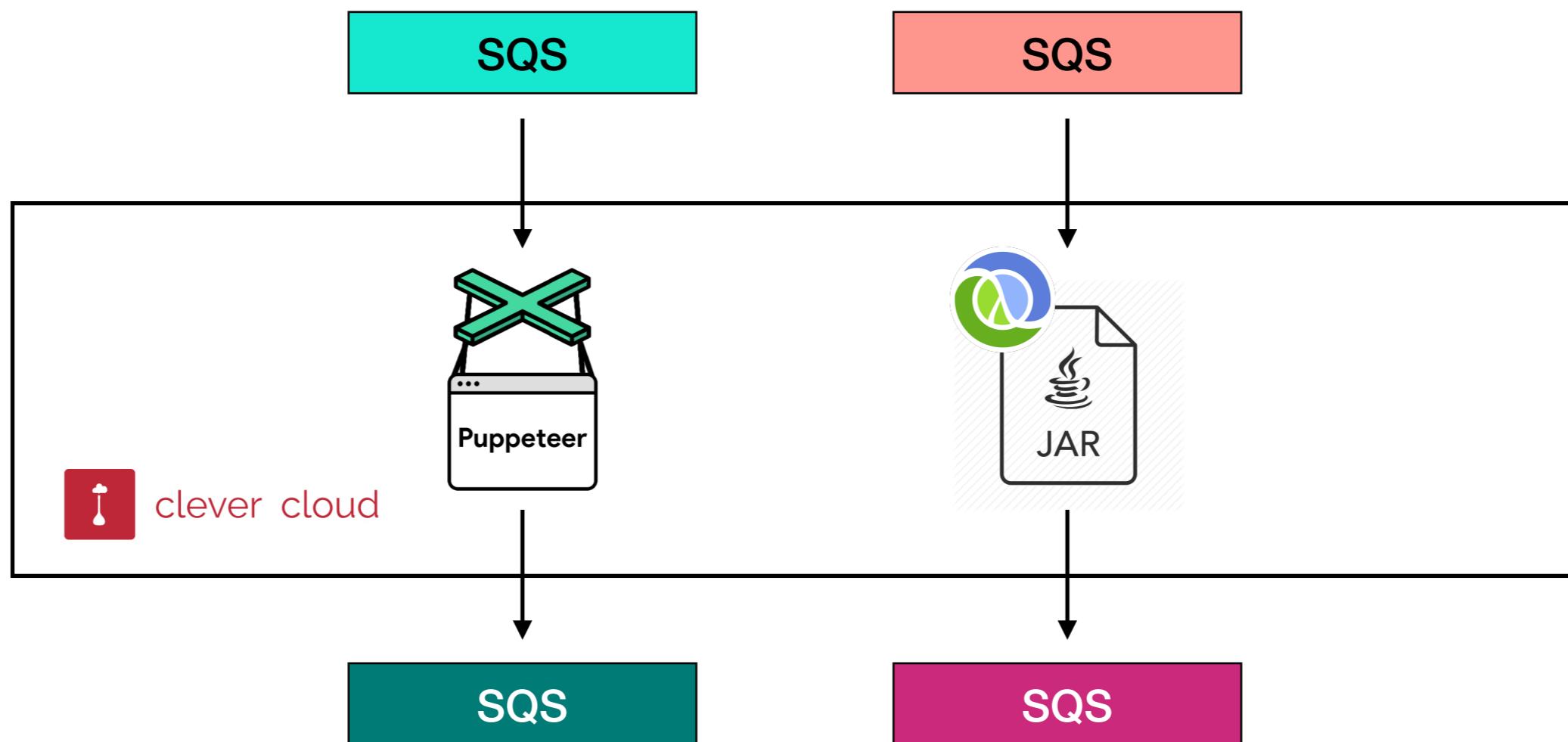
Déployer !!!



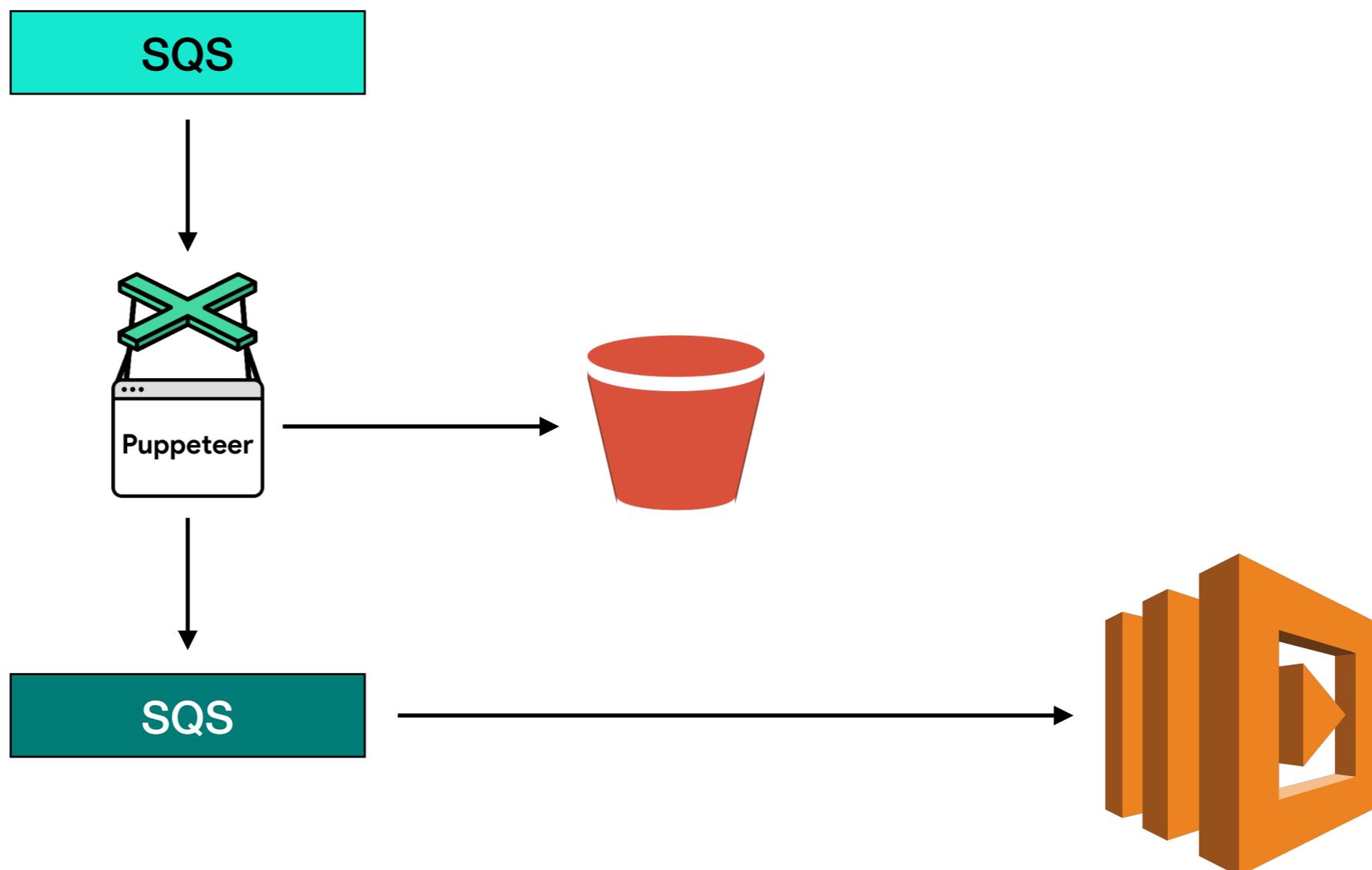
Déployer !!!



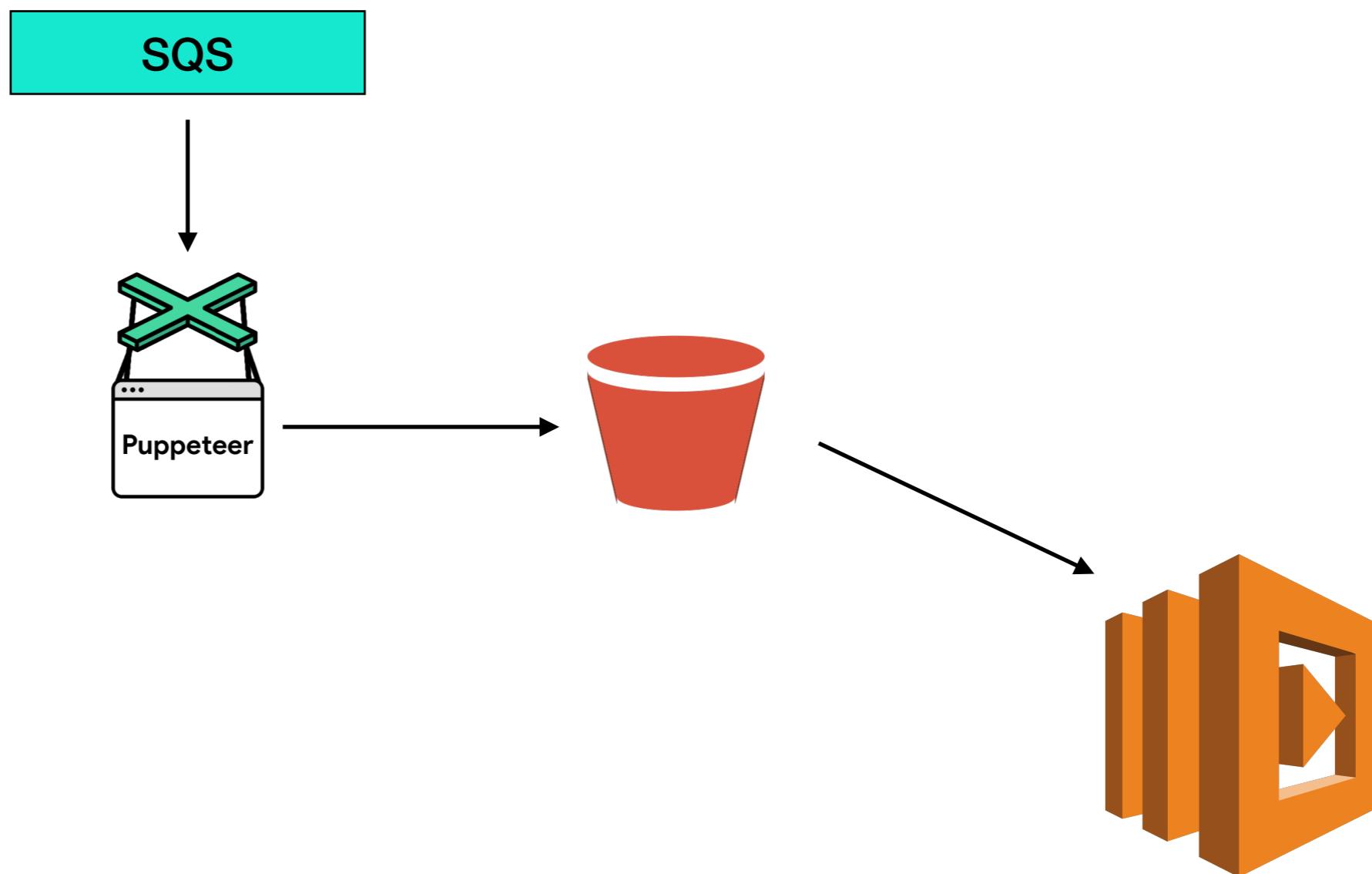
La réalité



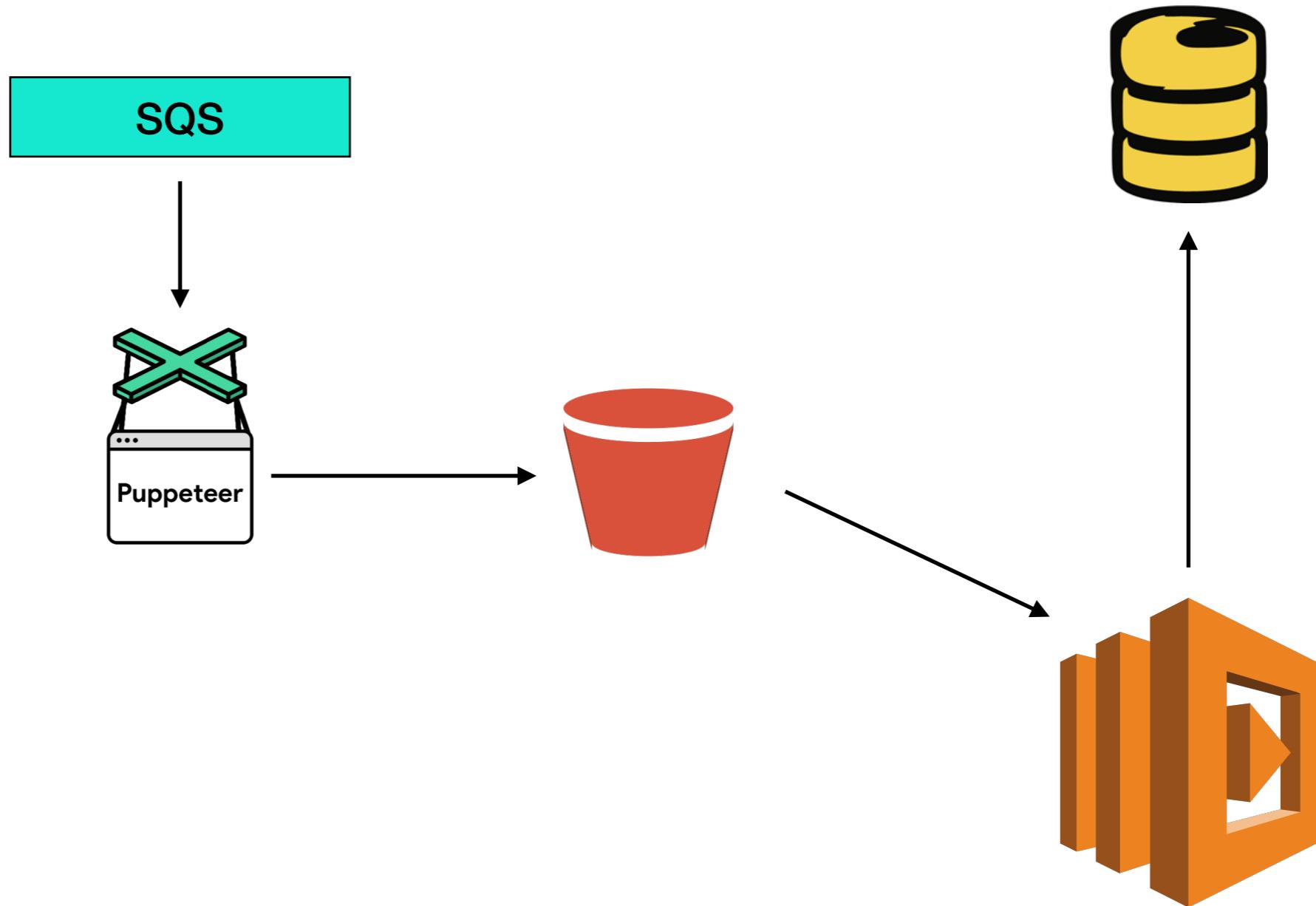
Screenshoter



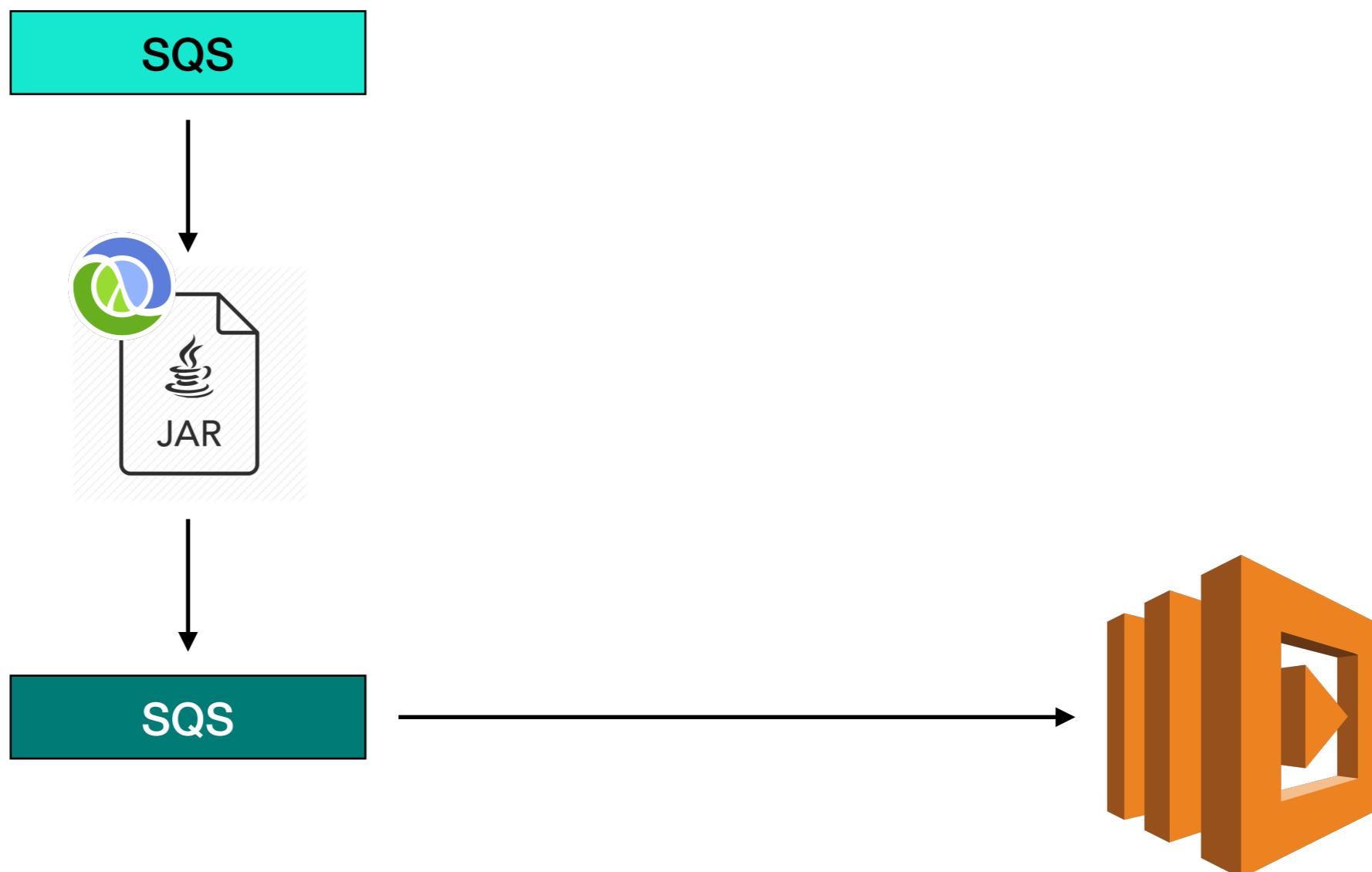
Screenshoter



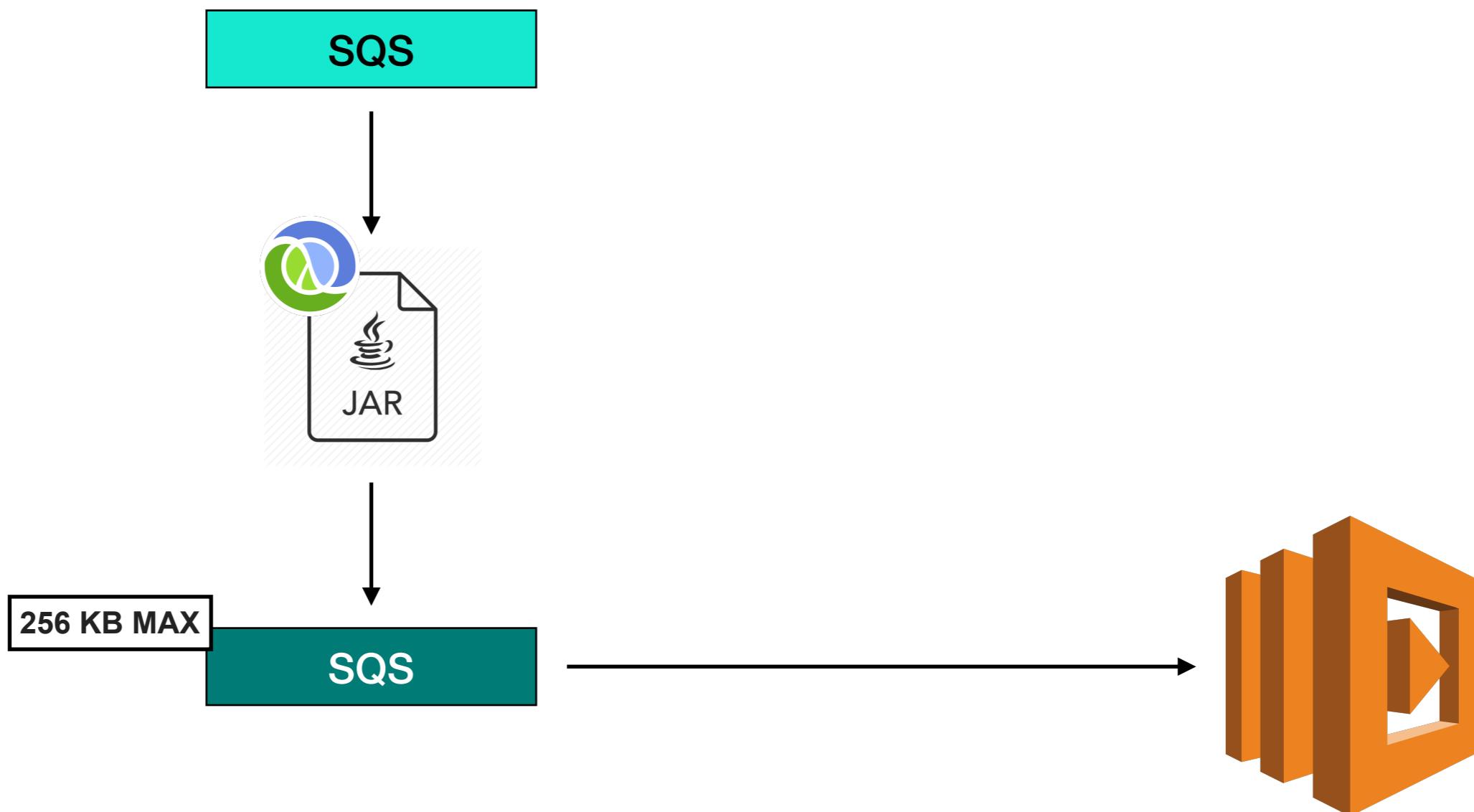
Screenshoter



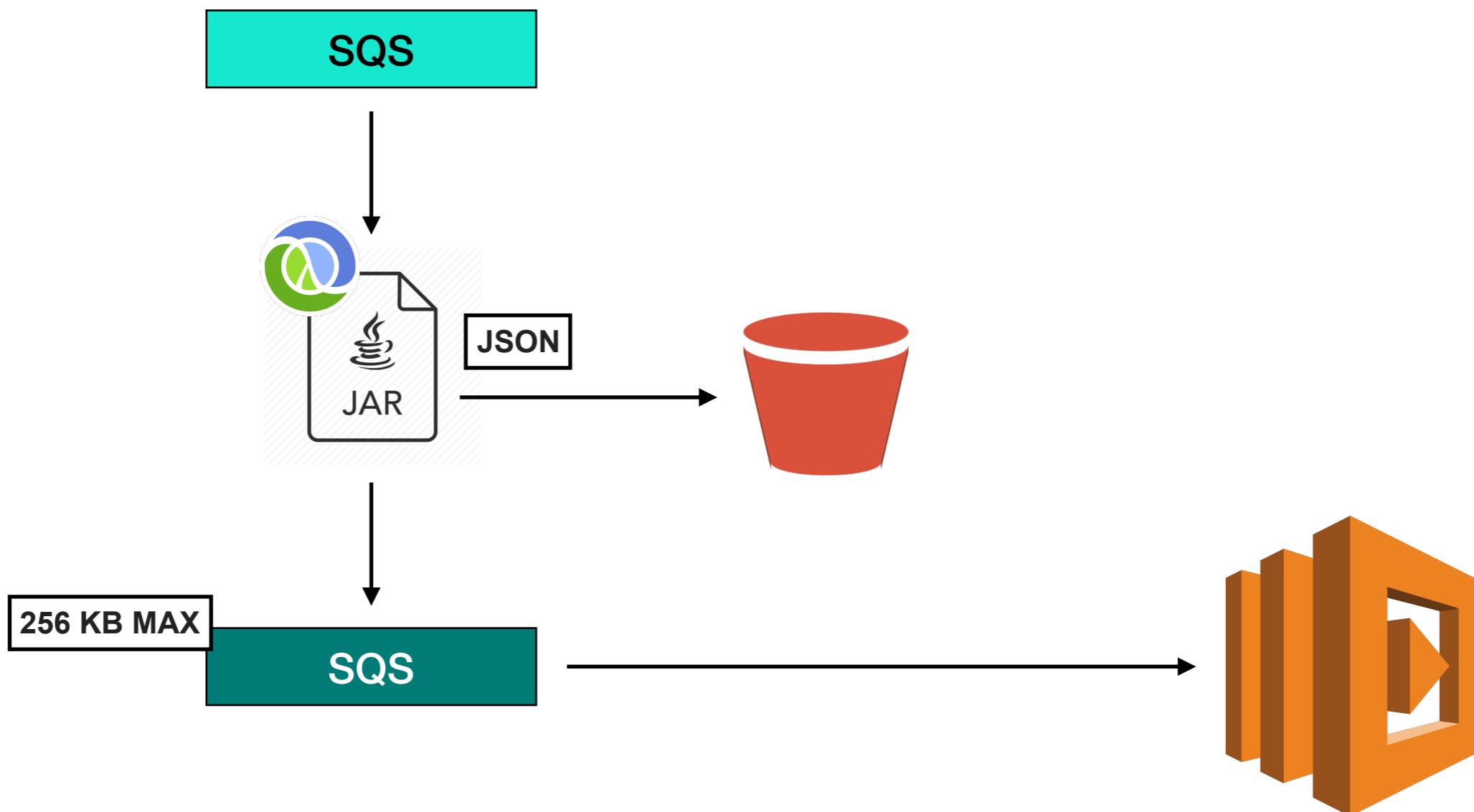
Pathfinder



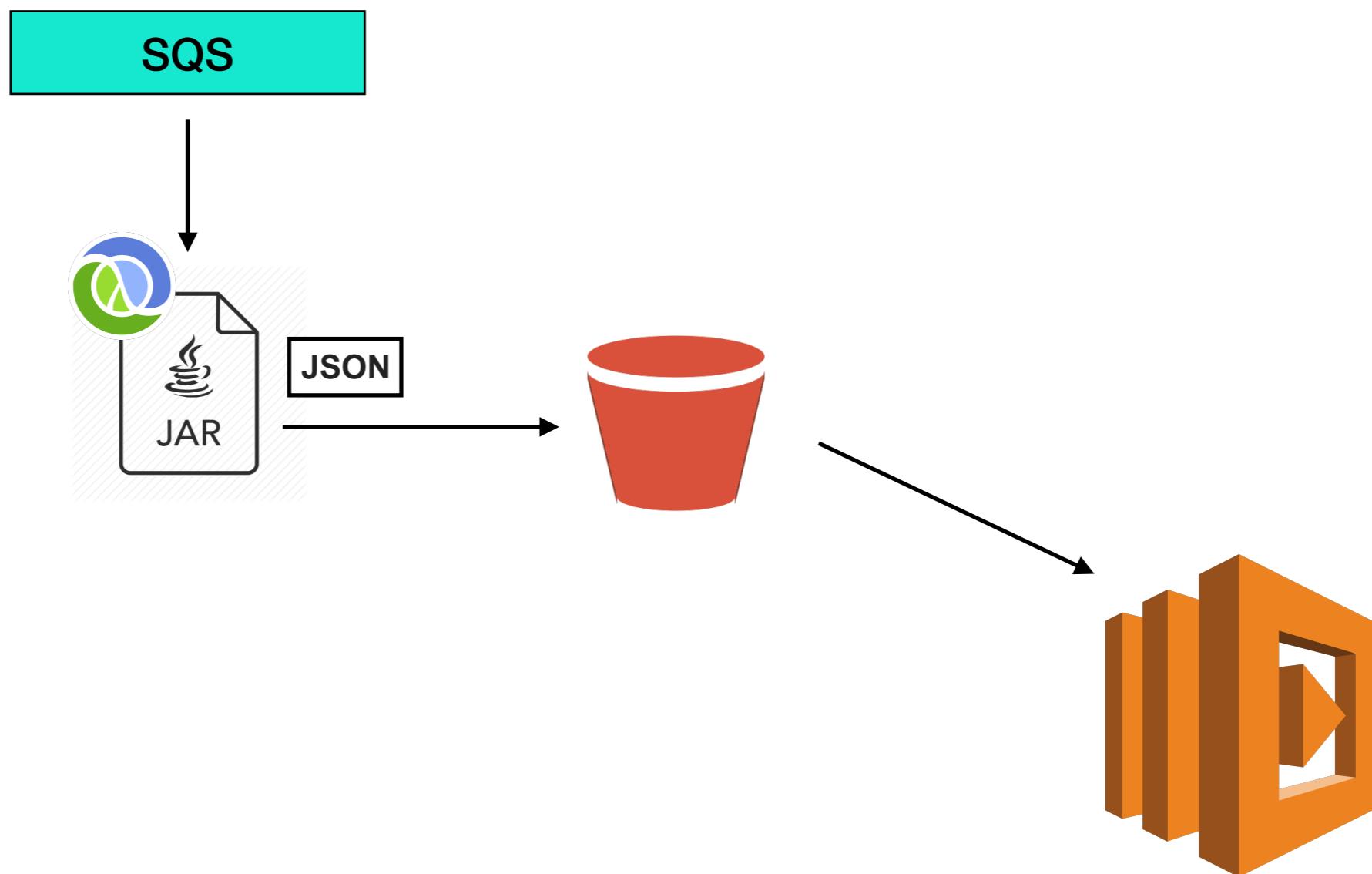
Pathfinder



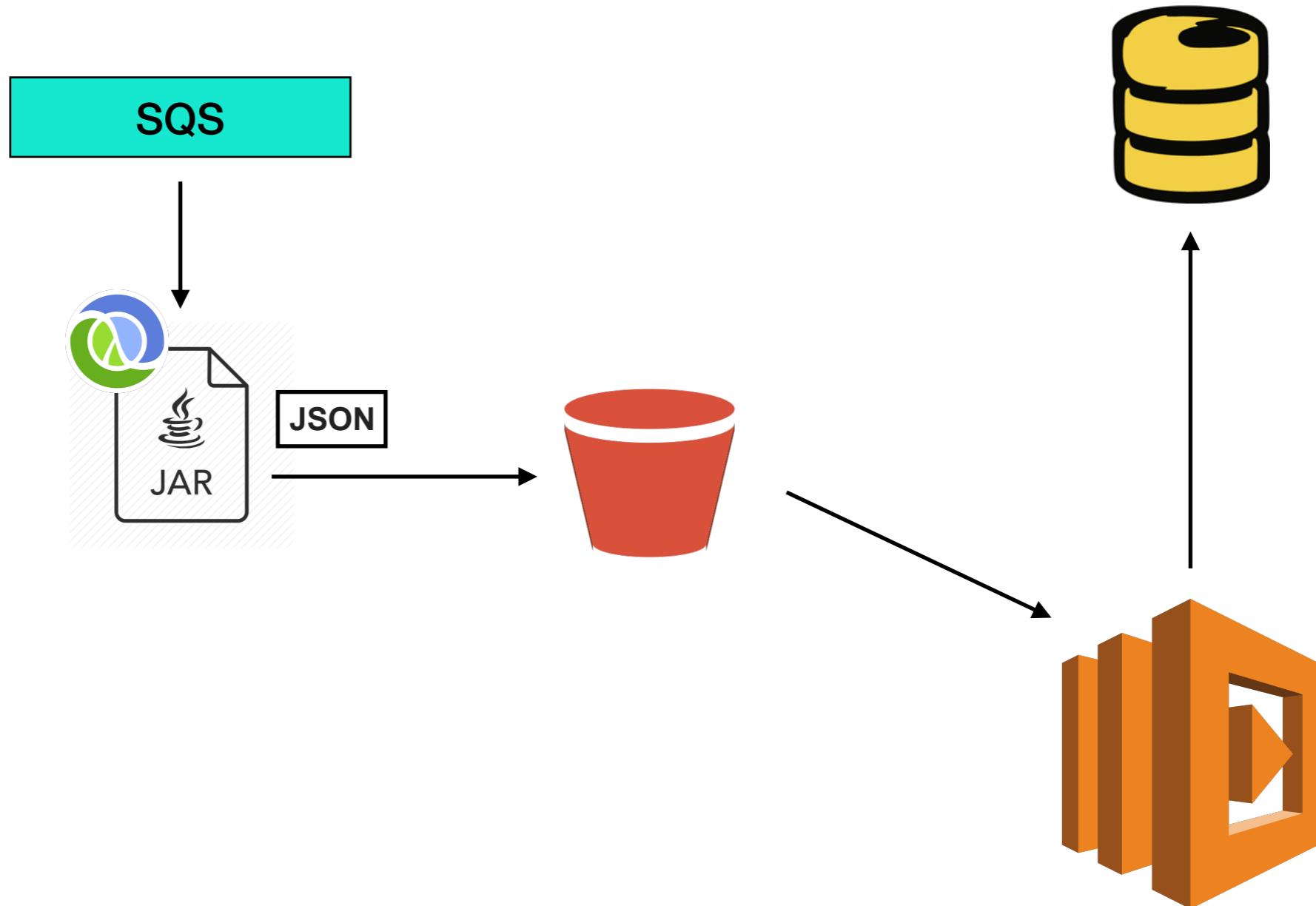
Pathfinder



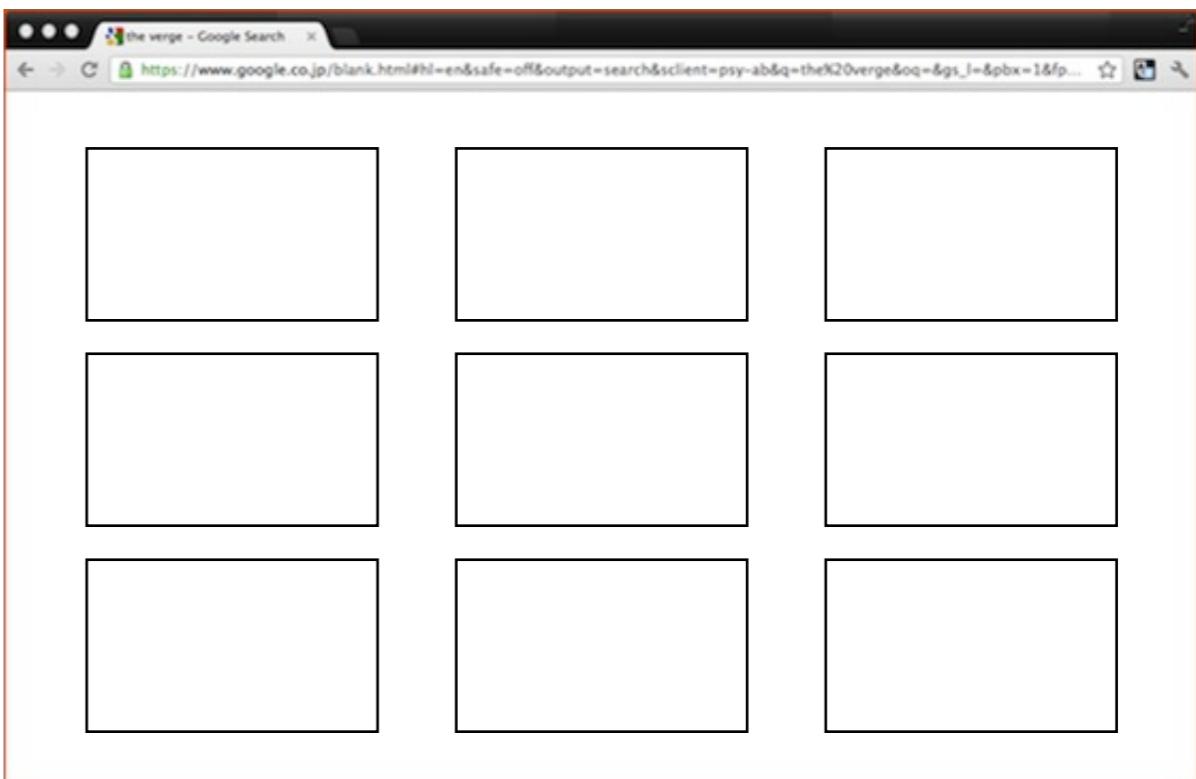
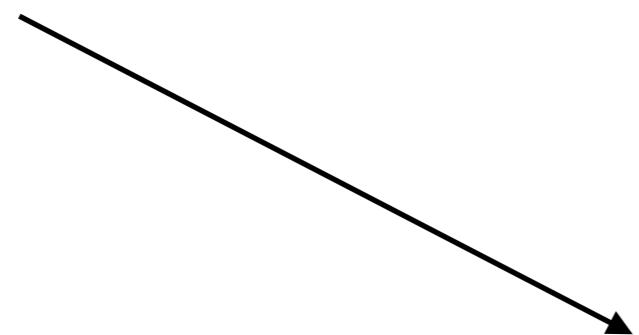
Pathfinder



Pathfinder

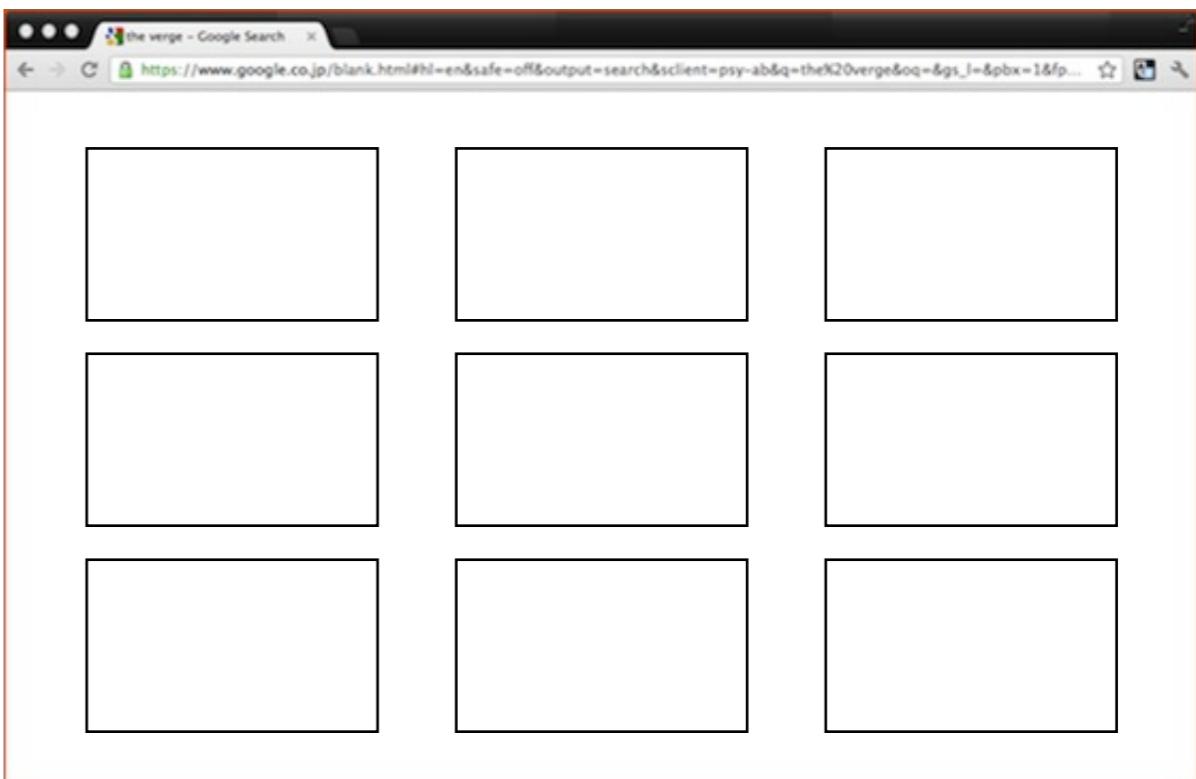
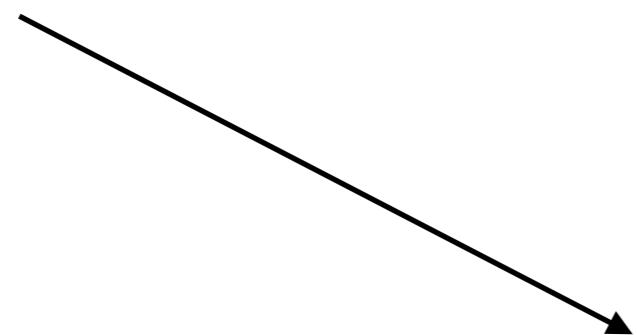


CloudFront



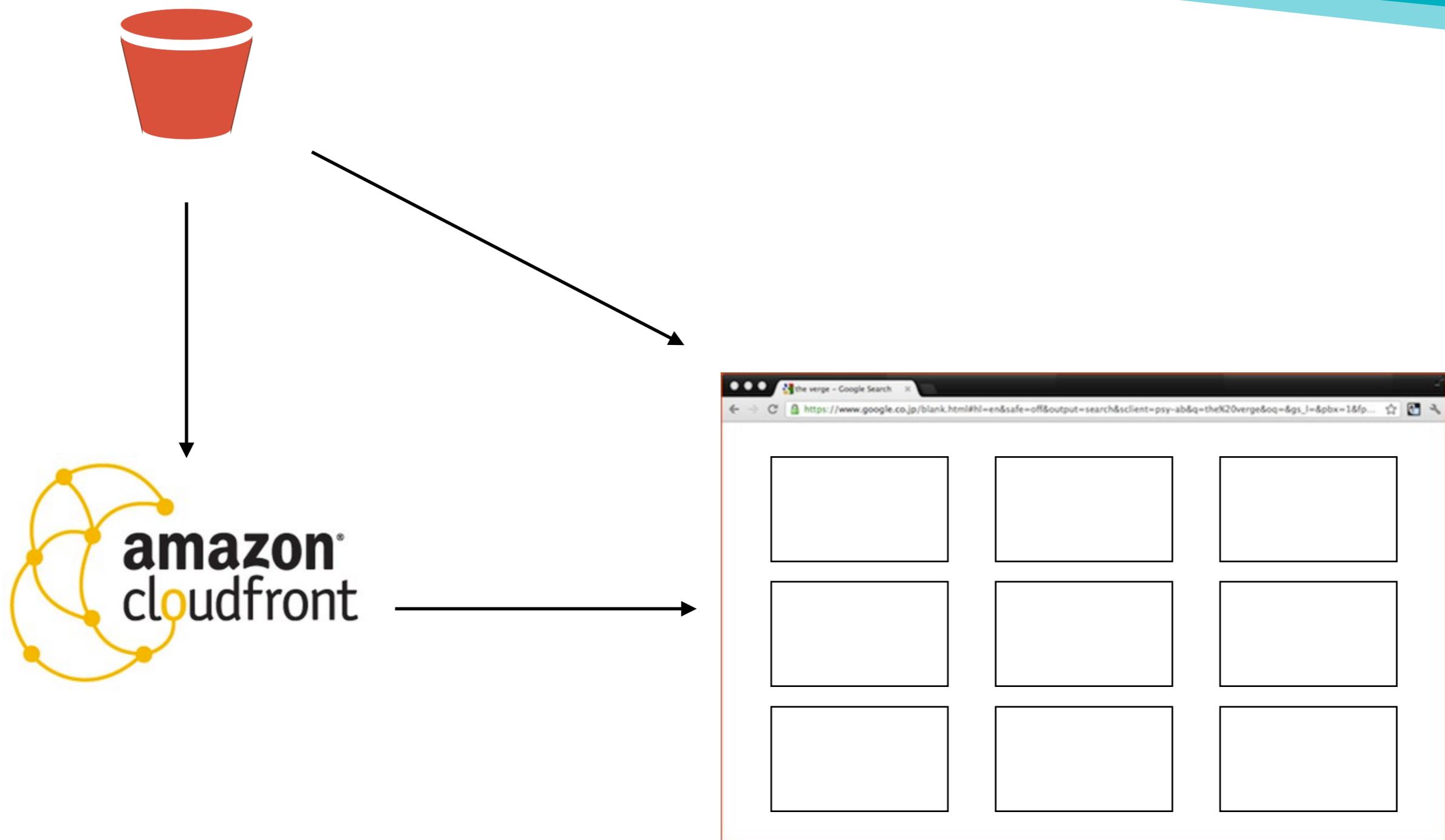
CloudFront

PUBLIC !!!

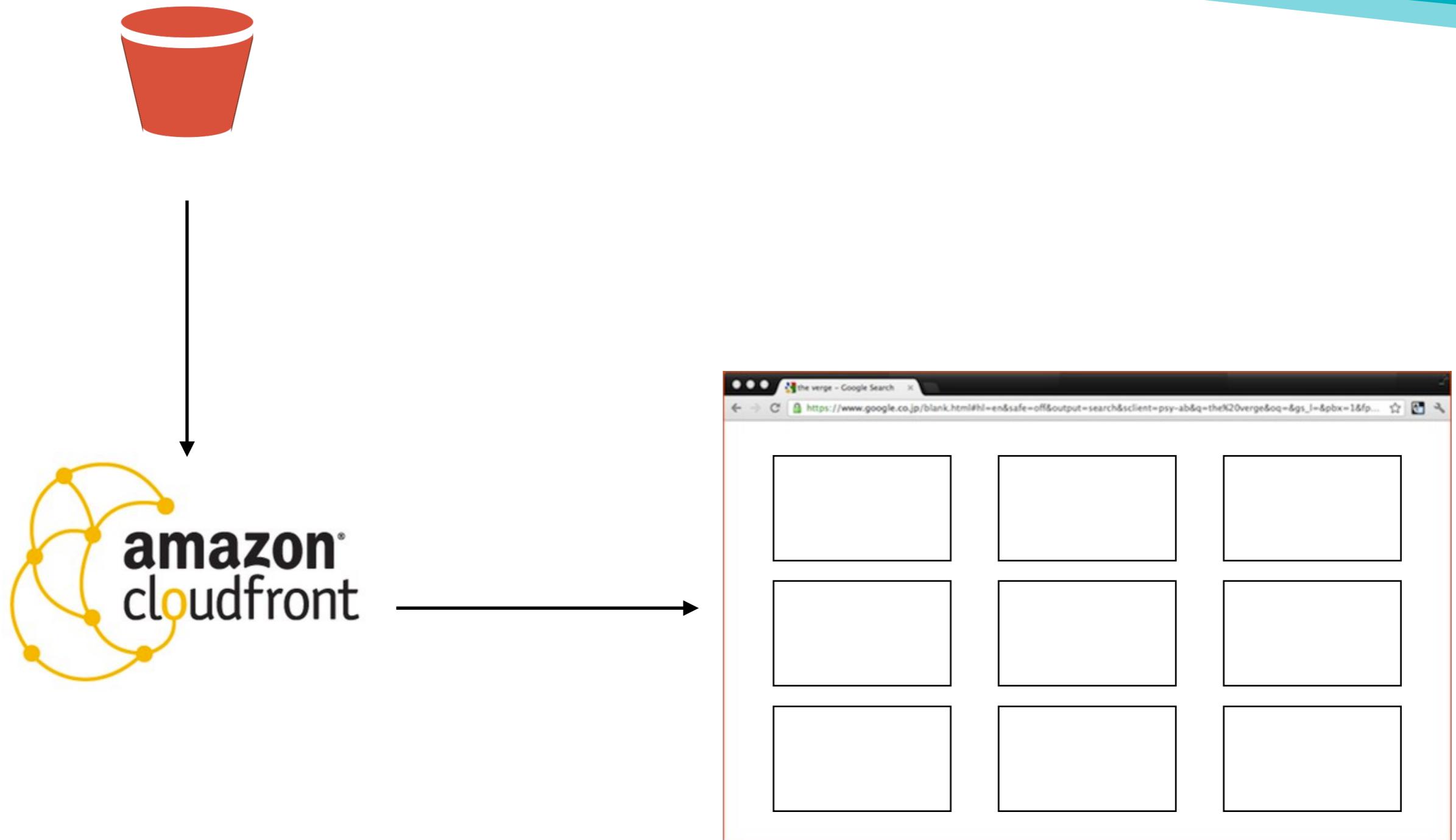


CloudFront

PUBLIC !!!



CloudFront



Configuration AWS

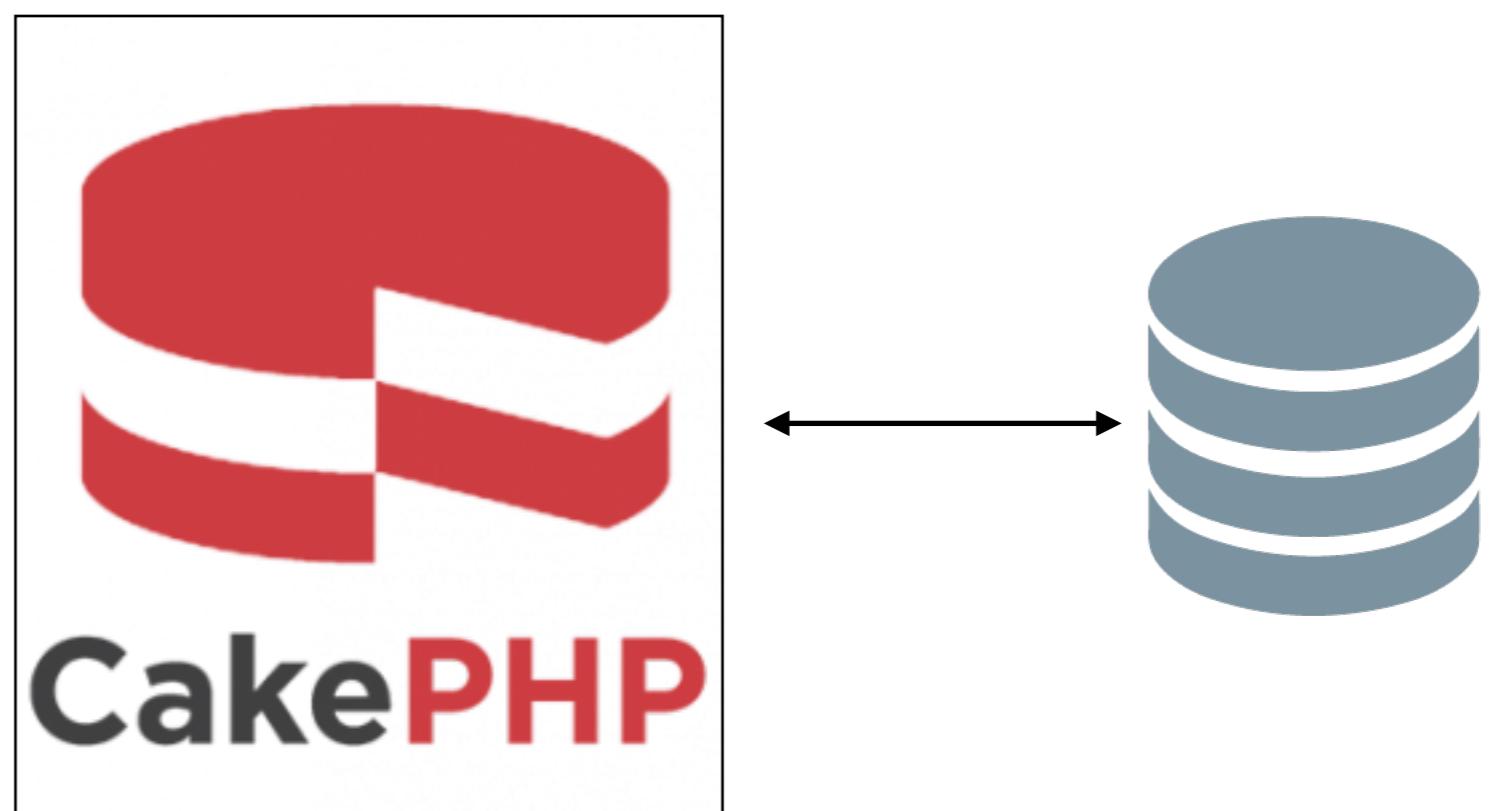
Infra as Code...



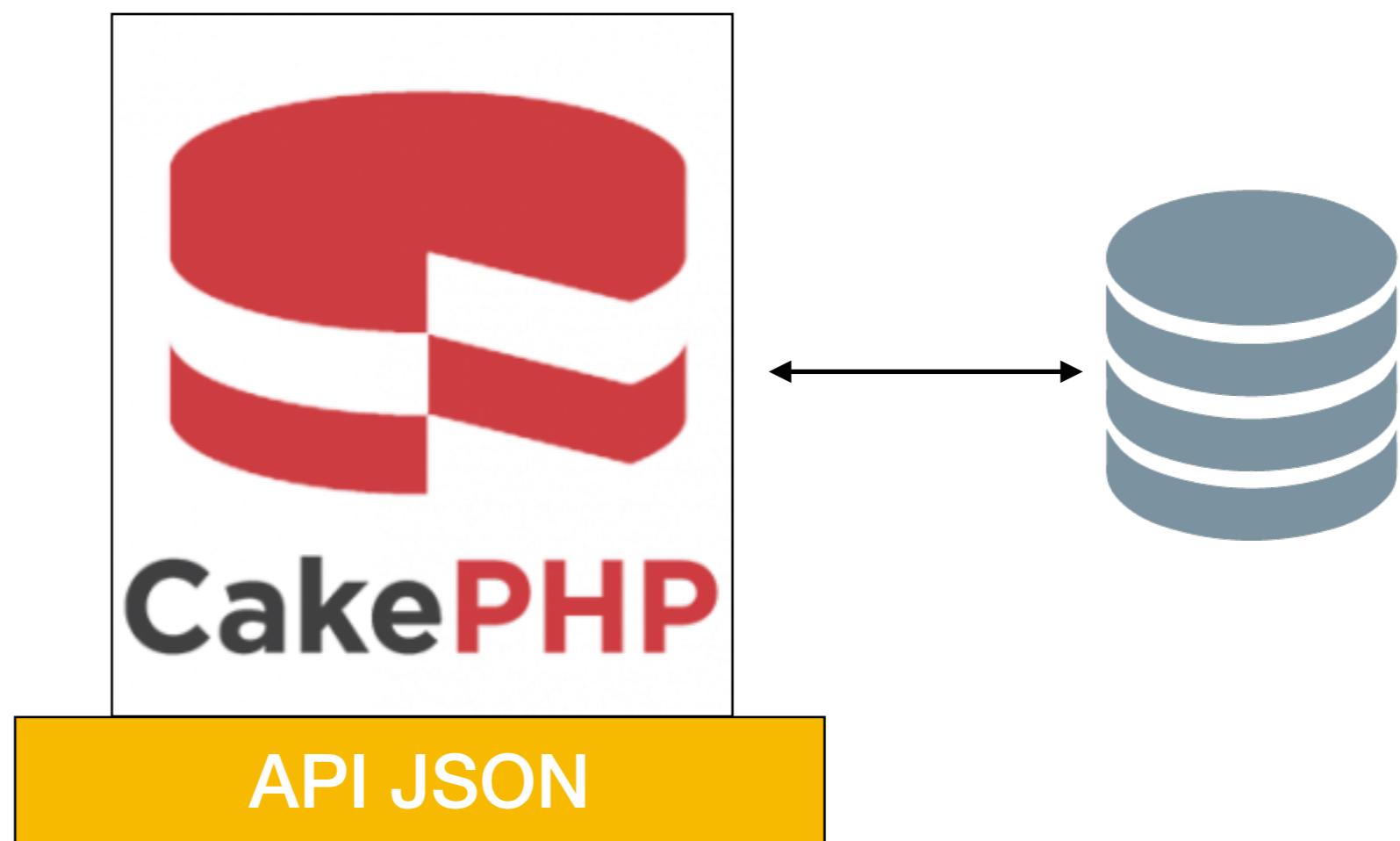
CloudFormation

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

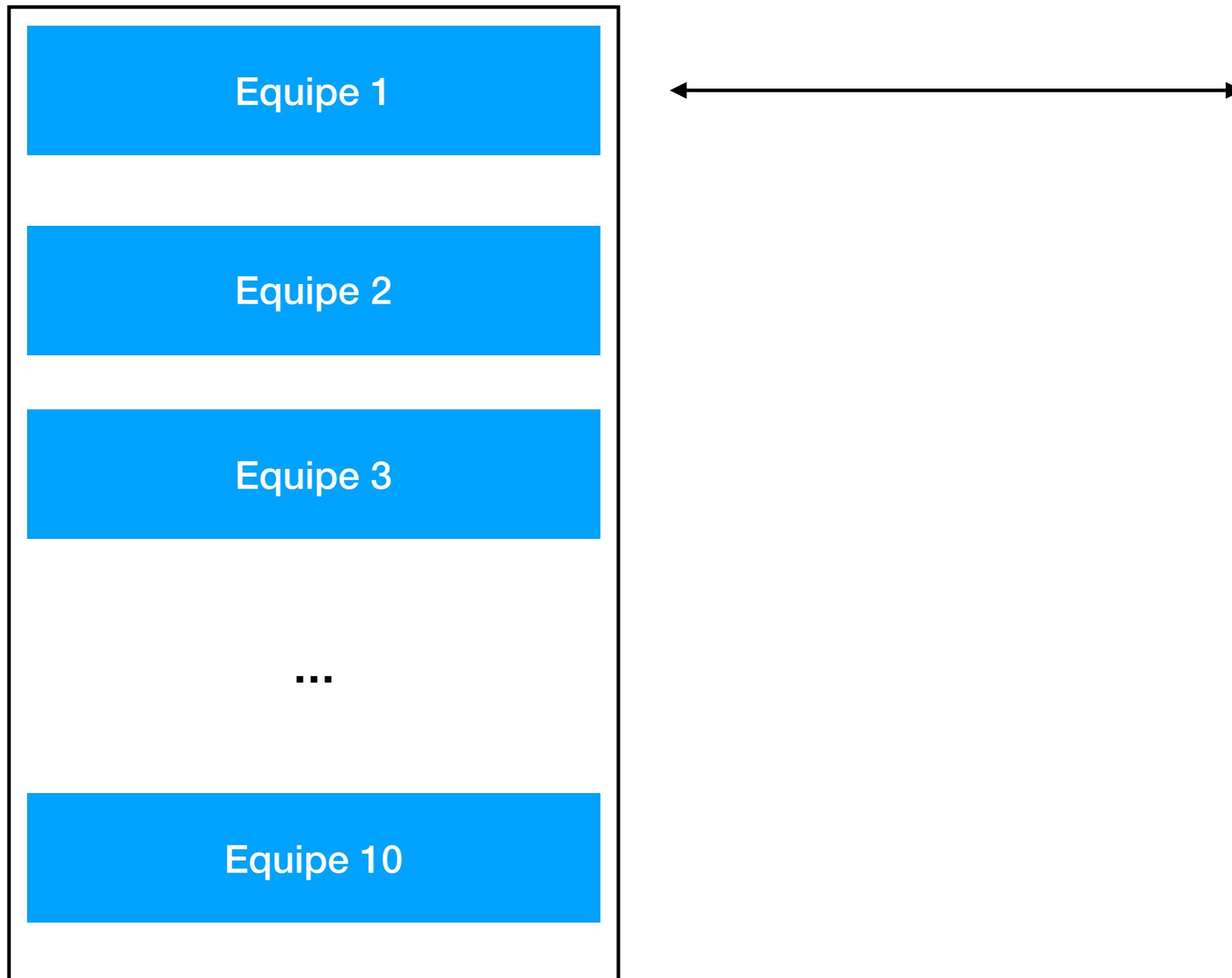
Equipe 2

Equipe 3

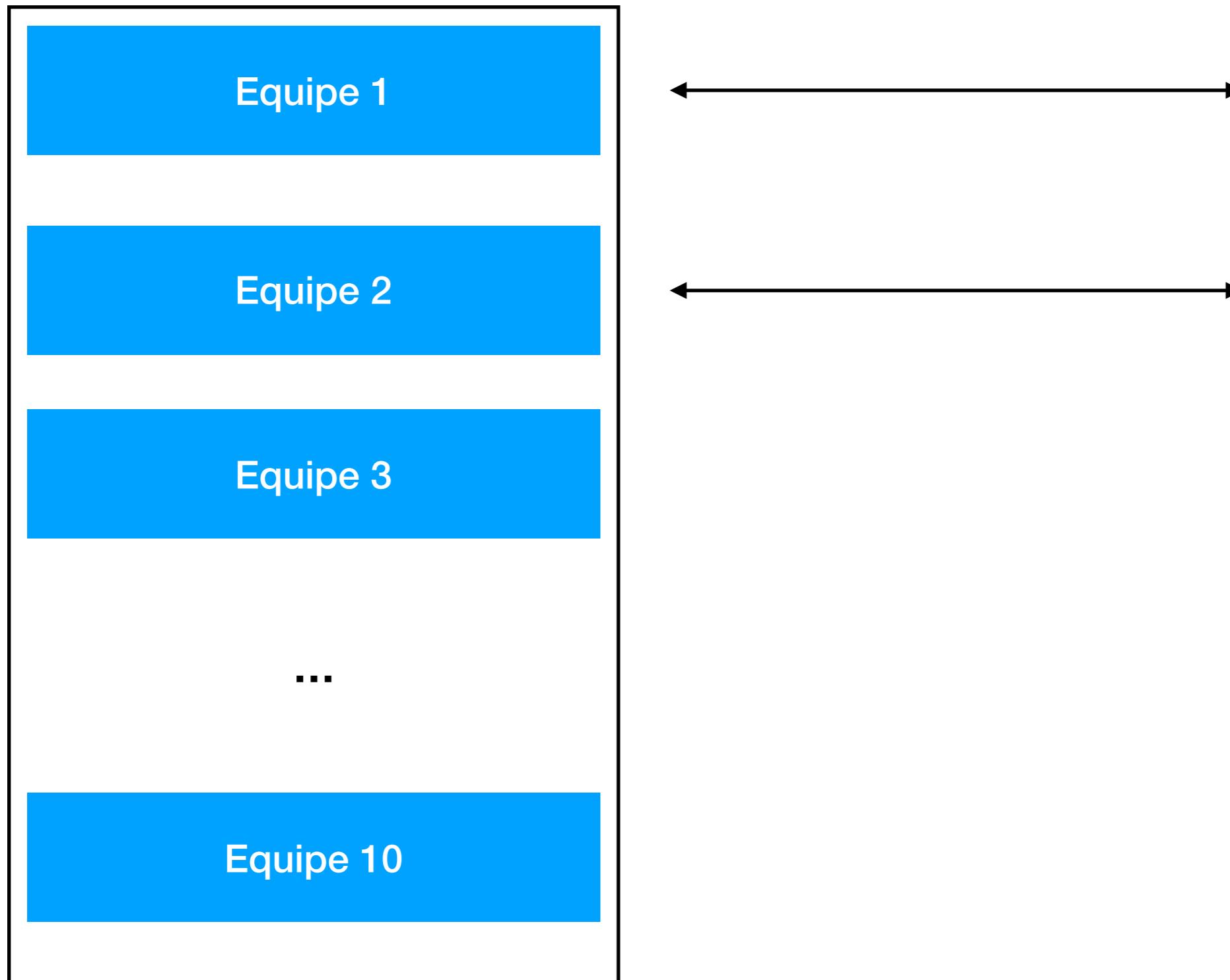
...

Equipe 10

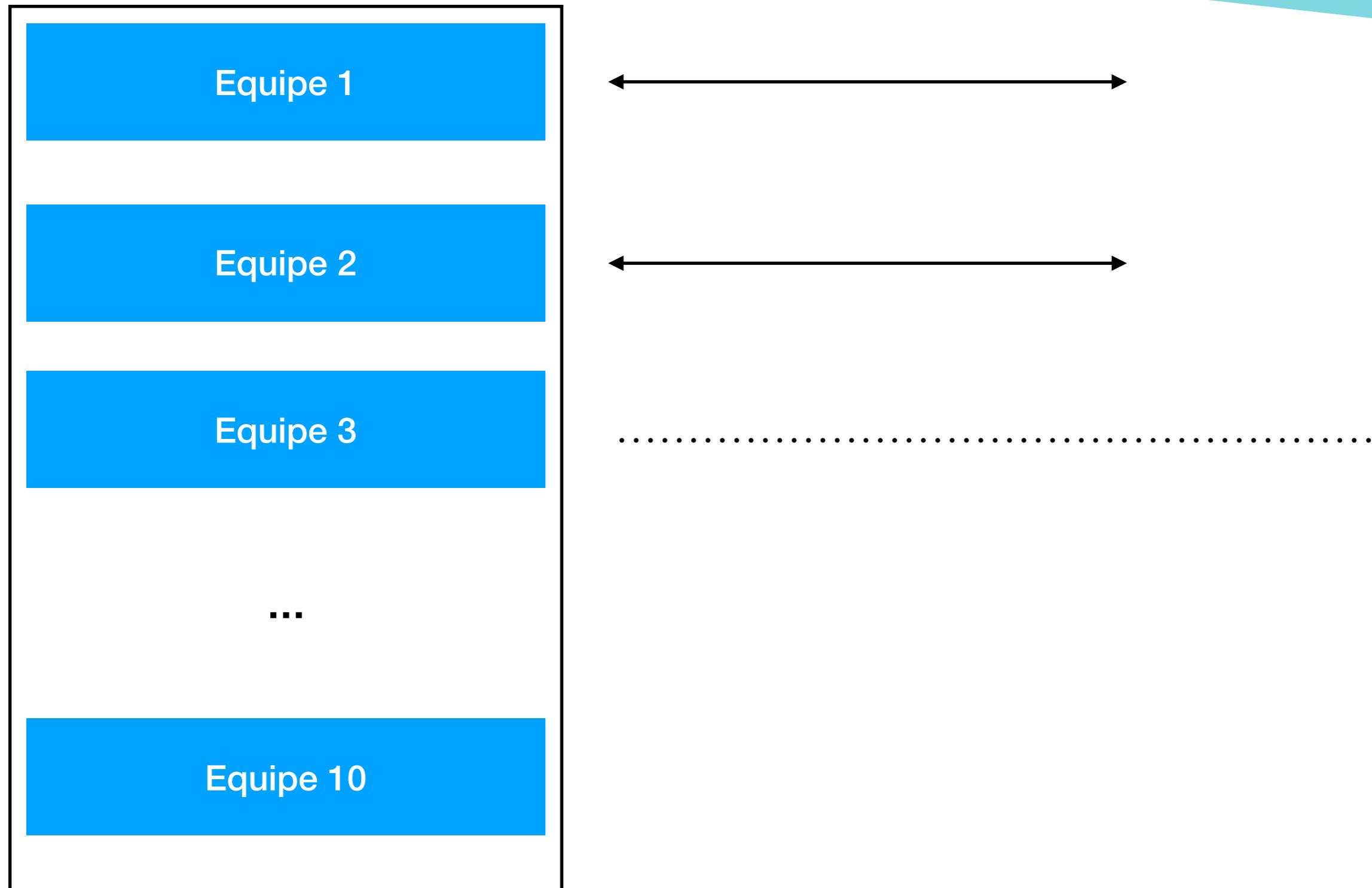
C'est quoi le problème ?



C'est quoi le problème ?



C'est quoi le problème ?



Solution

Equipe 1

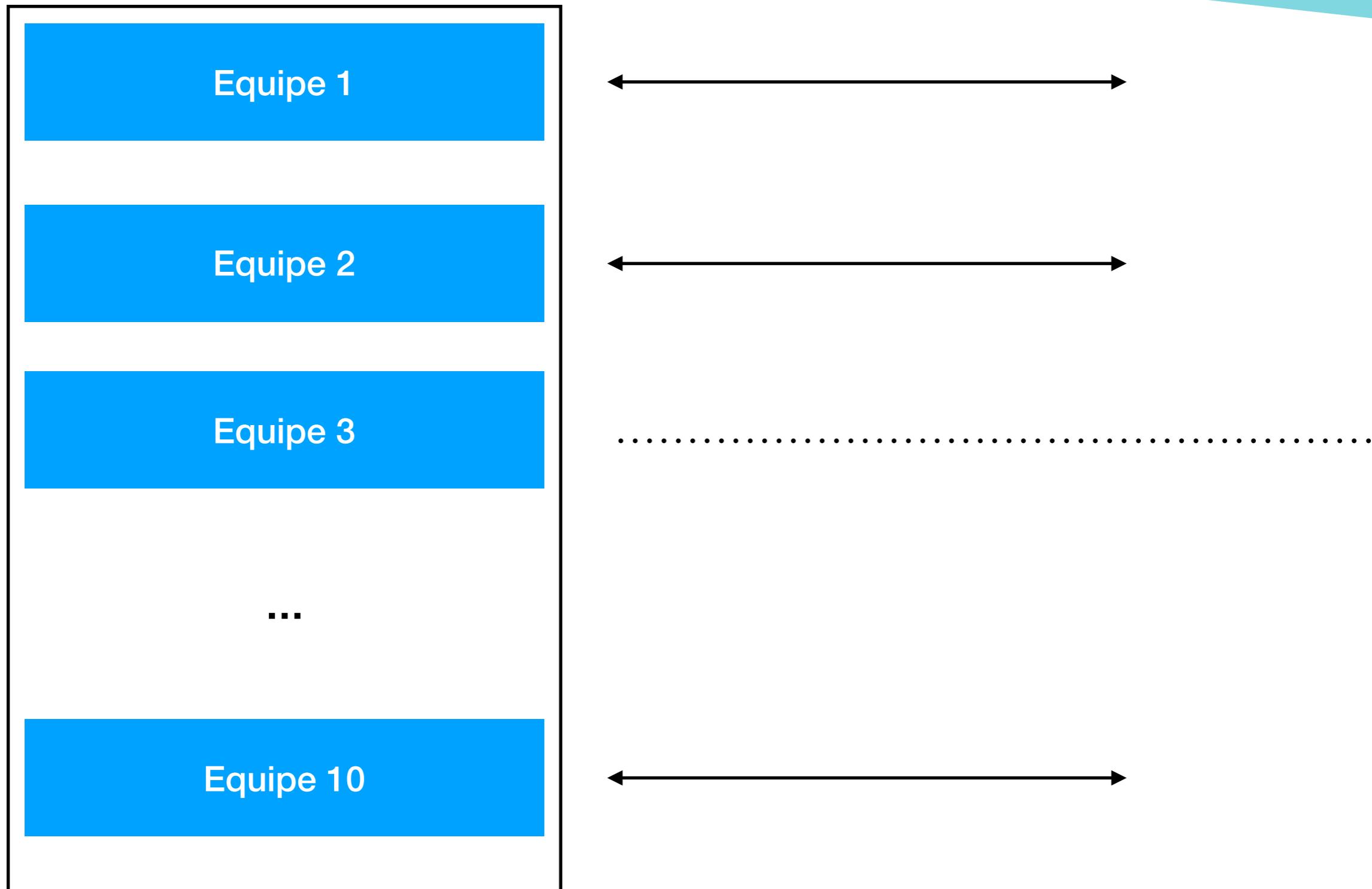
Equipe 2

Equipe 3

...

Equipe 10

Solution

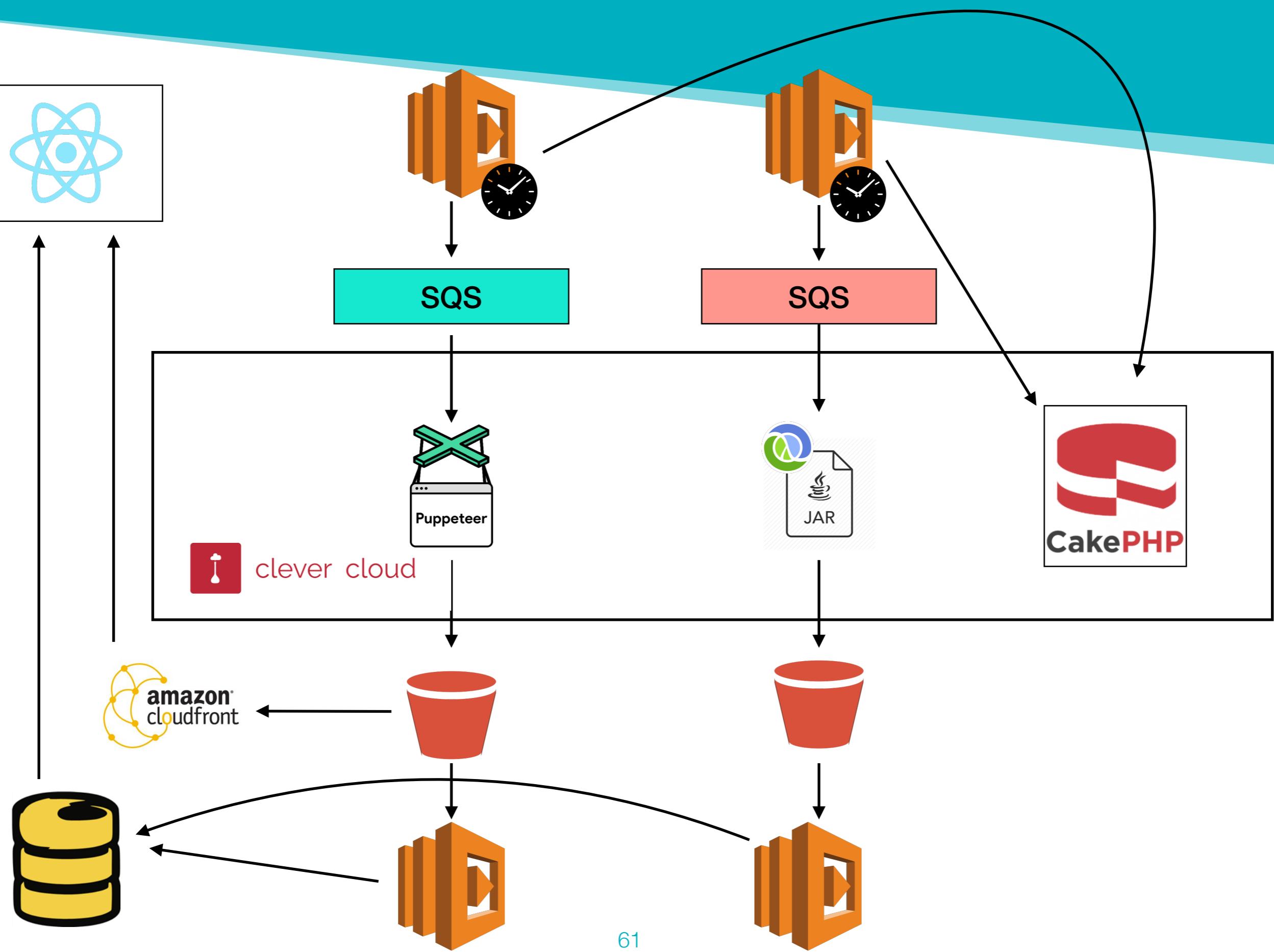


Clojure à la rescousse

```
-  (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)))))

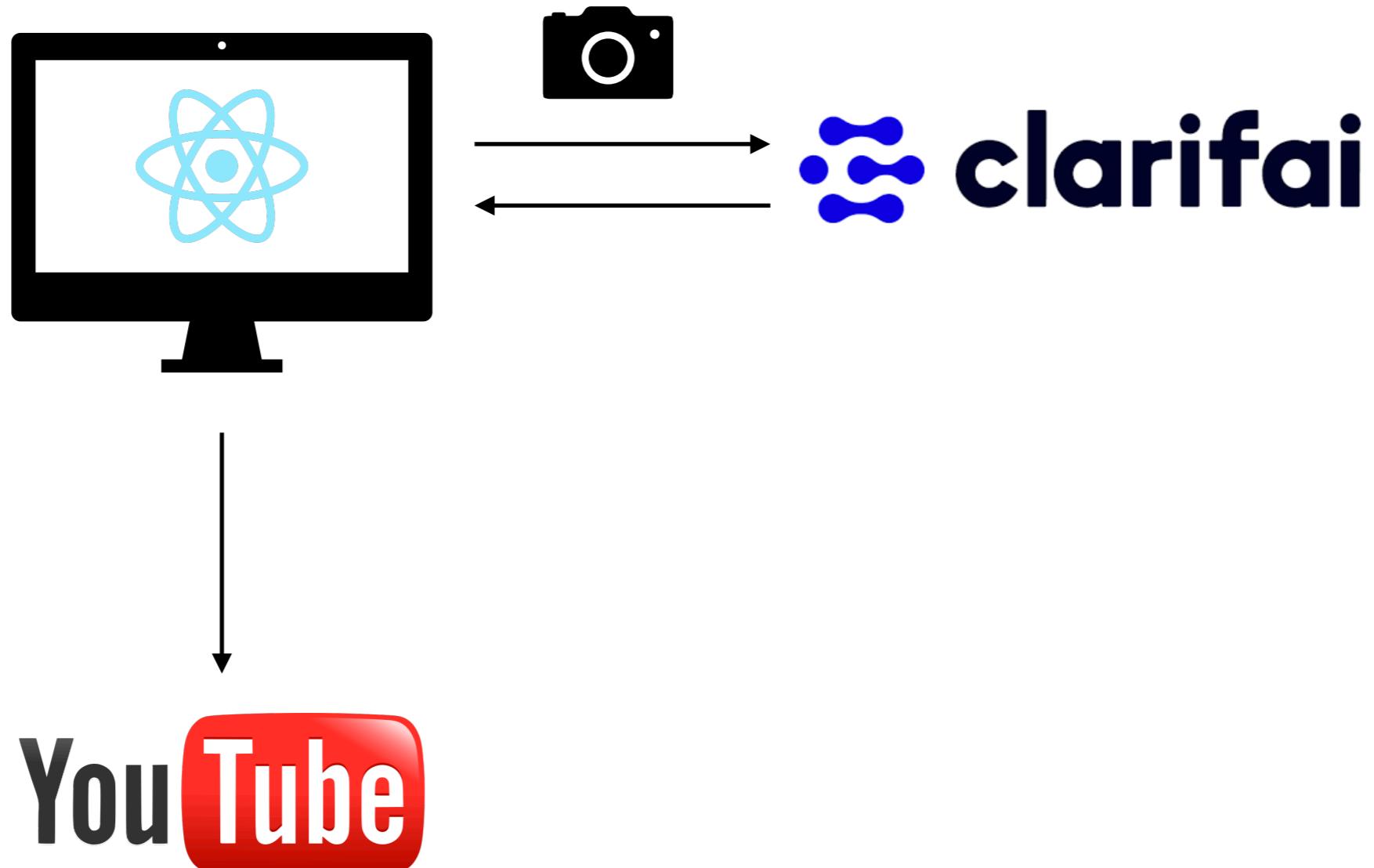
+  teams-messages))
```

Nightcode 2019 - Full

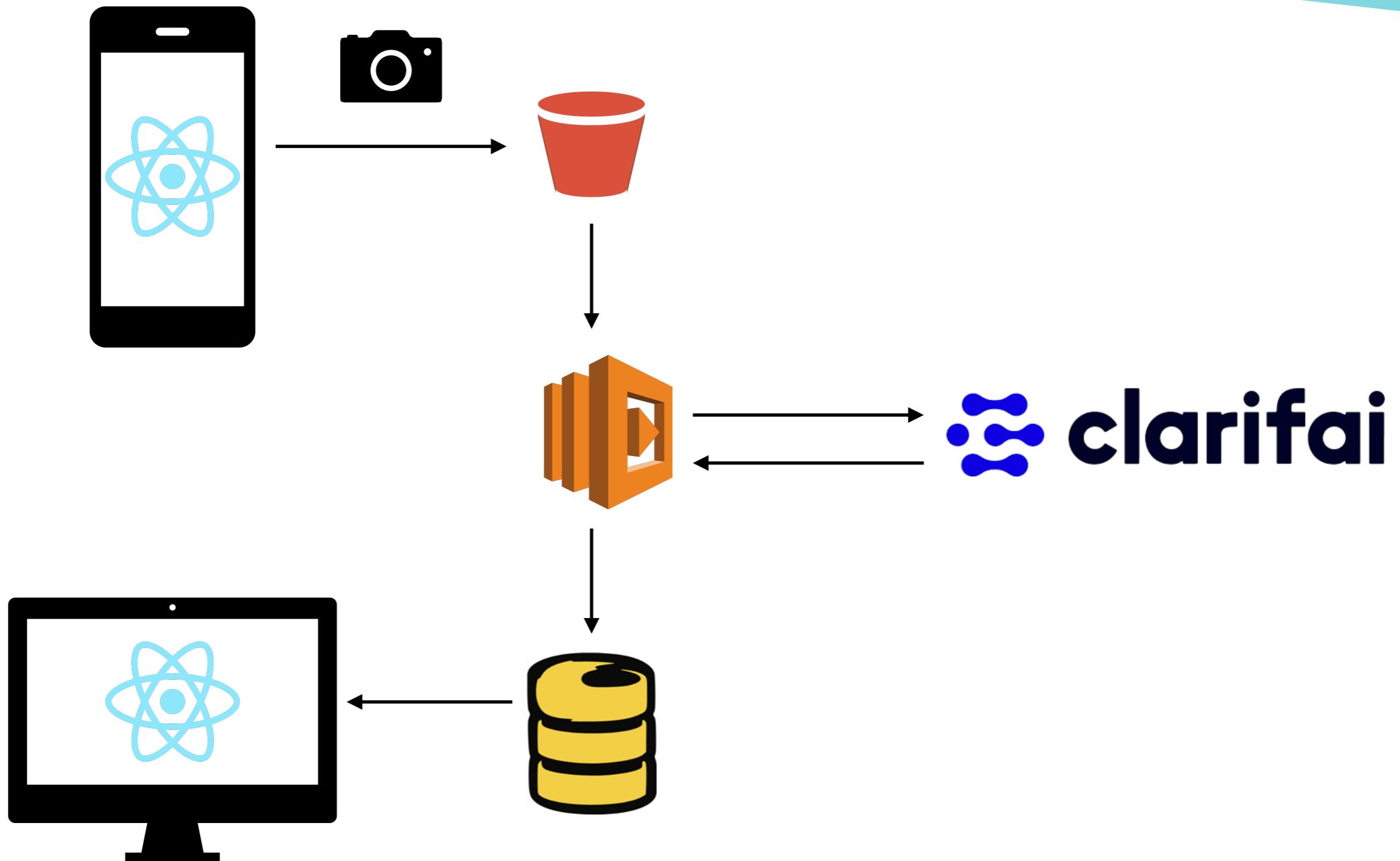


Nos autres réalisations

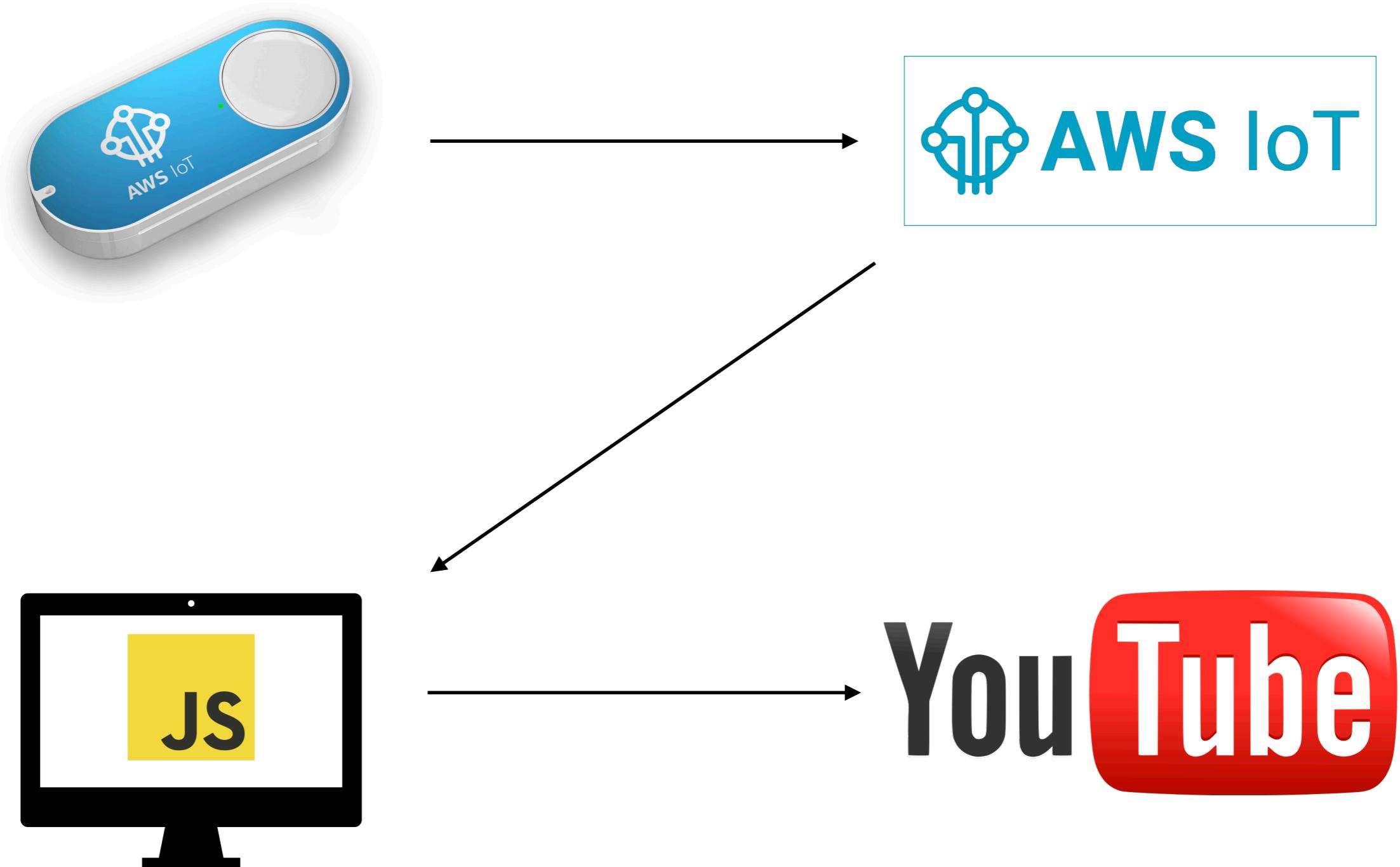
Salon #1



Inauguration des bureaux



Salon #2



Et pour l'an prochain ?



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 ?

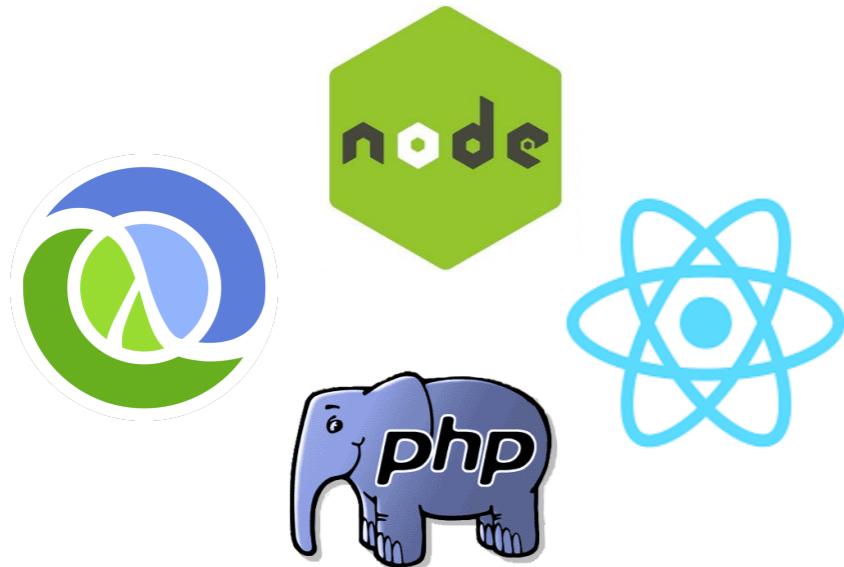


Remplacement de Clojure

Jamais !



Simplifions tout ça



clever cloud



Devops FTW

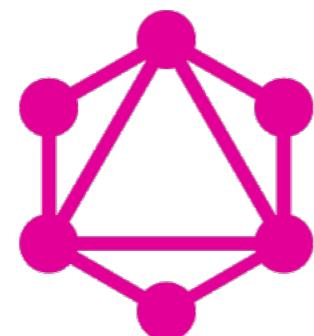


Terraform

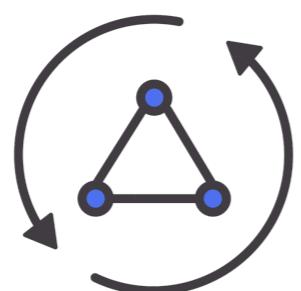
Good Bye Firebase



Good Bye Firebase



GraphQL



AWS AppSync

Et tant d'autres...



Réservez la date

Jeudi 16 Janvier 2020

nightcode

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 !

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27 Novembre 2019

Florent et Louis : React + AWS = Master



11 Décembre 2019

Maxime : Du code à la prod