



SUZANNE






MATTHIEU LEROUX-HUET

Performance Testing & Engineering

Strategy – Execution – Training - Coaching



 [linkedin.blackscale.it](https://www.linkedin.com/company/blackscale)

 mlh@blackscale.it

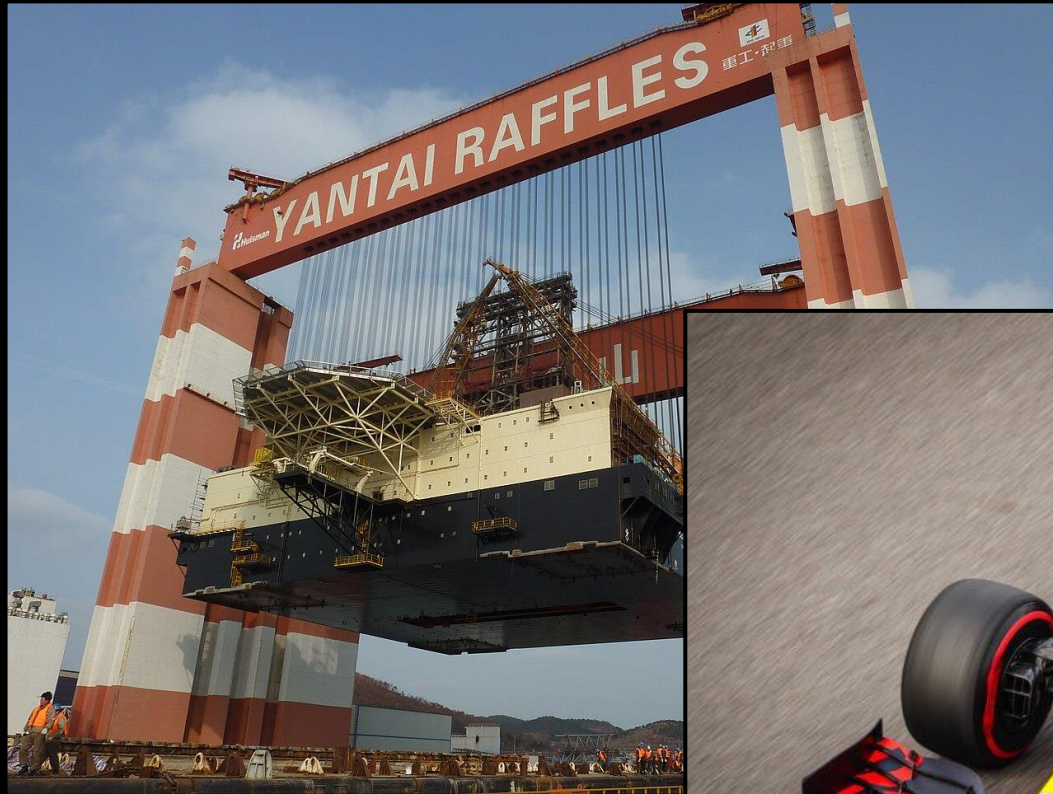


COMMENT DÉBLOQUER LE TEST DE PERFORMANCE CONTINU?

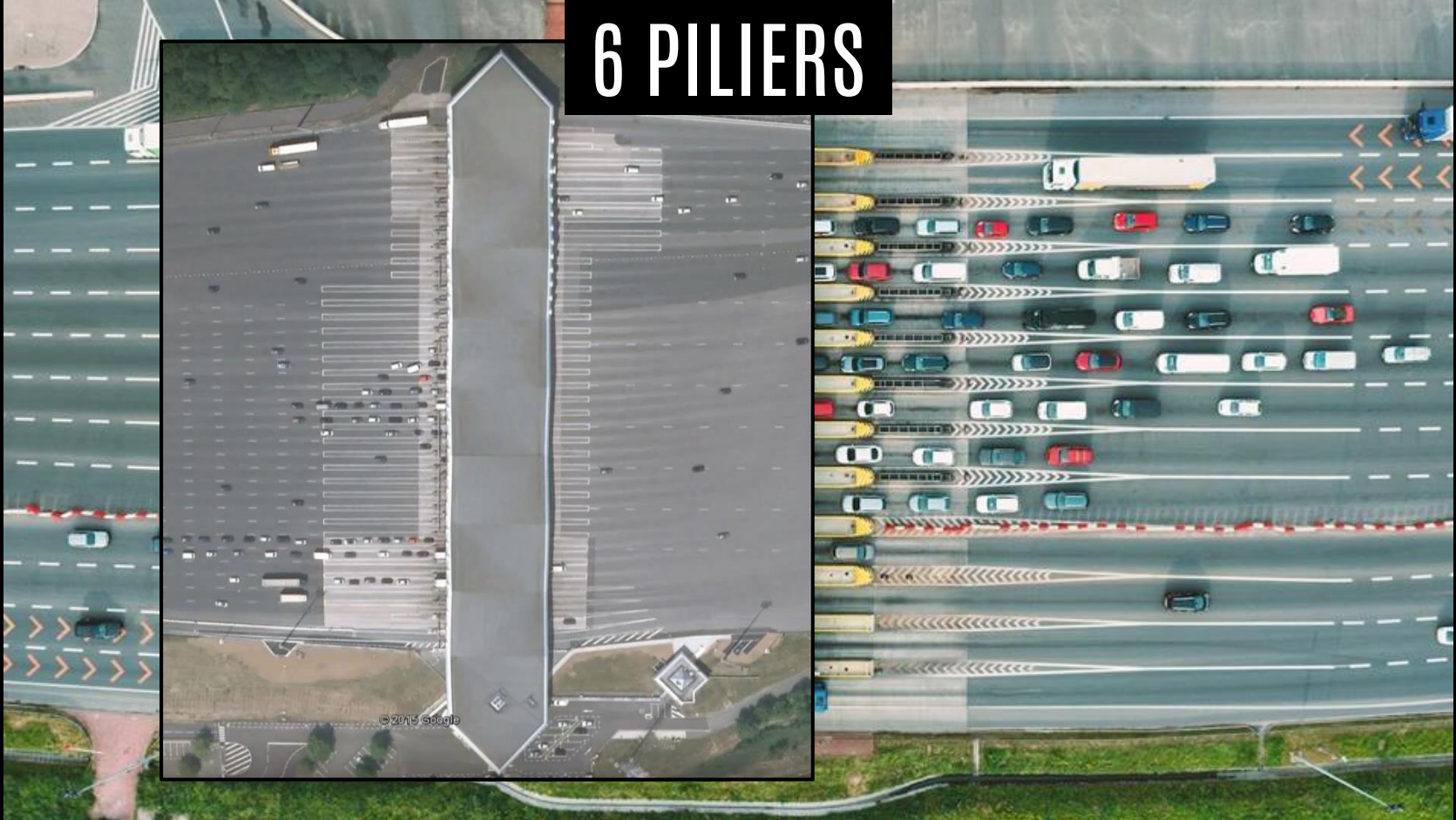


PERFORMANCE

LEVELOUPINWICE



6 PILIERS



À QUOI ÇA SERT?



DÉCOUVRIR

“On n’est pas perdus.

Je sais EXACTEMENT

où on est.”



DIAGNOSTIQUER

Avant le crash



DÉCIDER

Décisions éclairées



PROTÉGER

Image de marque



ÉCONOMISER

L’argent est roi

QU'Y A-T-IL DANS UN
TEST DE PERFORMANCE?

Mesures

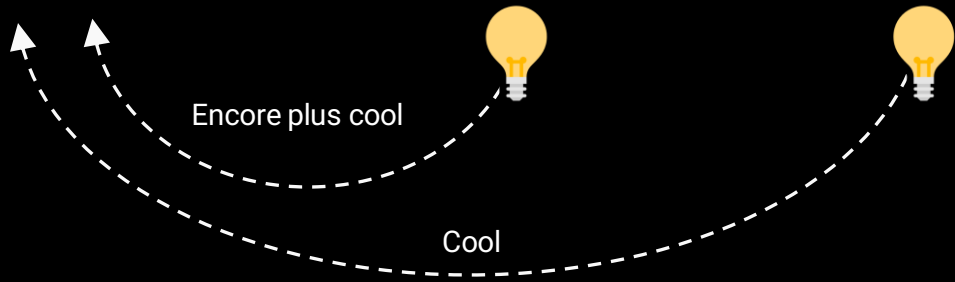
CECI EST UN
TEST DE PERFORMANCE

Travail



POURQUOI

EN CONTINU?



BOUCLE DE FEEDBACK

01 | STRATÉGIE





TESTS DE PERF
≠
TESTS DE CHARGE

TESTS DE PERFORMANCE

COMPLEXITÉ ALGO
ET DONNÉES

PROFILING

RENDU

DÉMARRAGE

...

TESTS DE CHARGE

NOMINAL

RUPTURE

ENDURANCE

STRESS

PIC

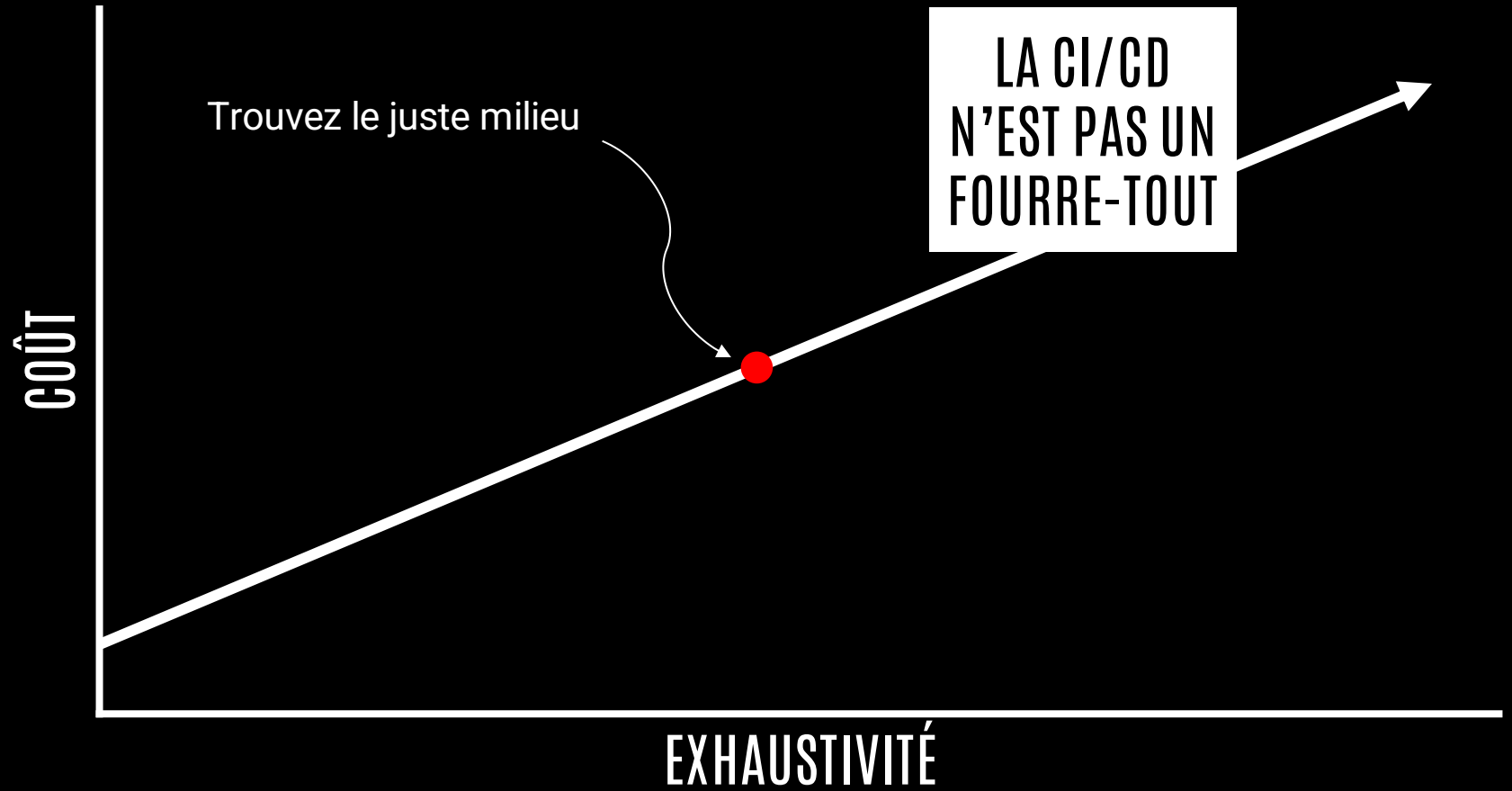
ROBUSTESSE



"METS TOUT DANS LA CI/CD"



CHEF, OUI CHEF.

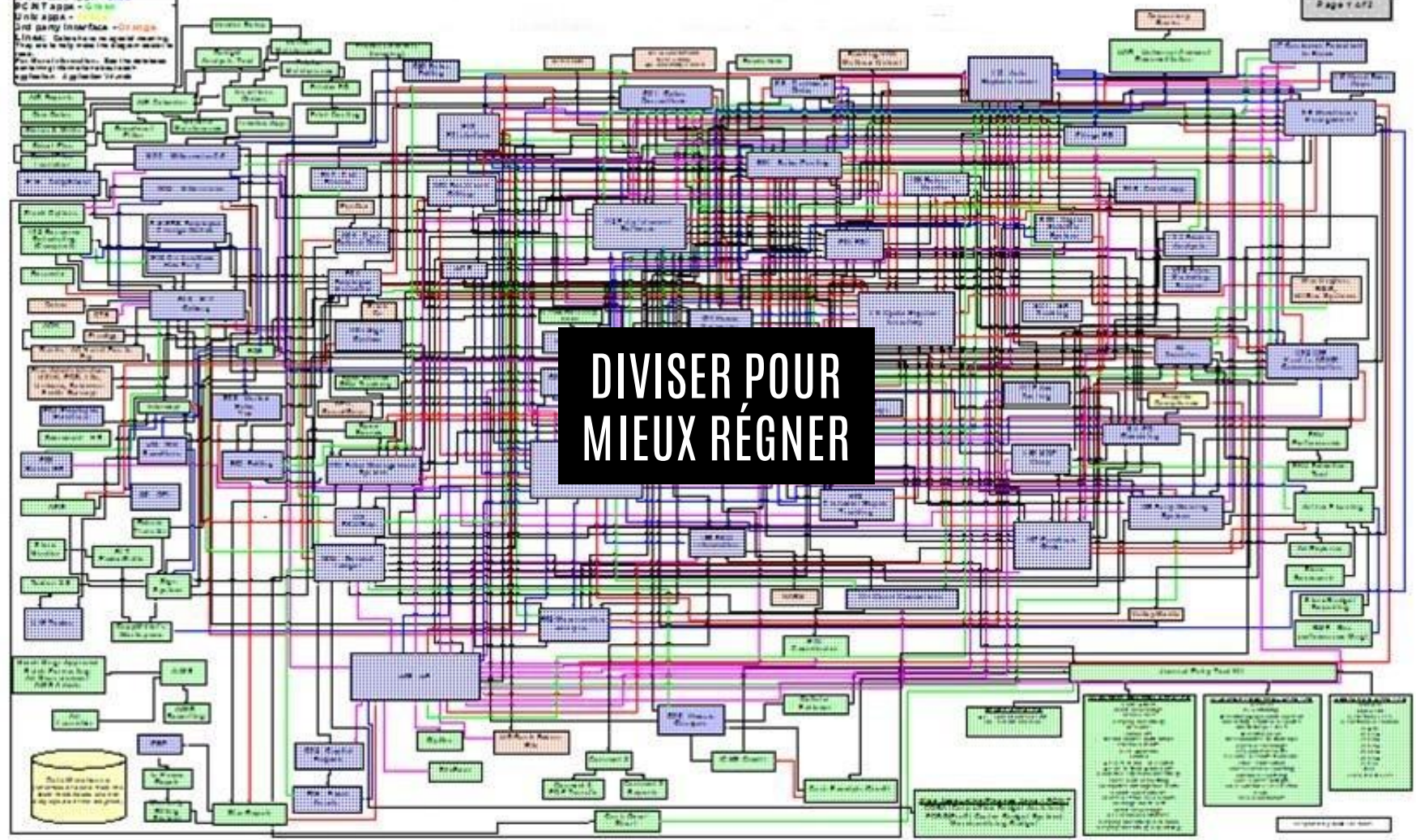


02 | PARAMÈTRES

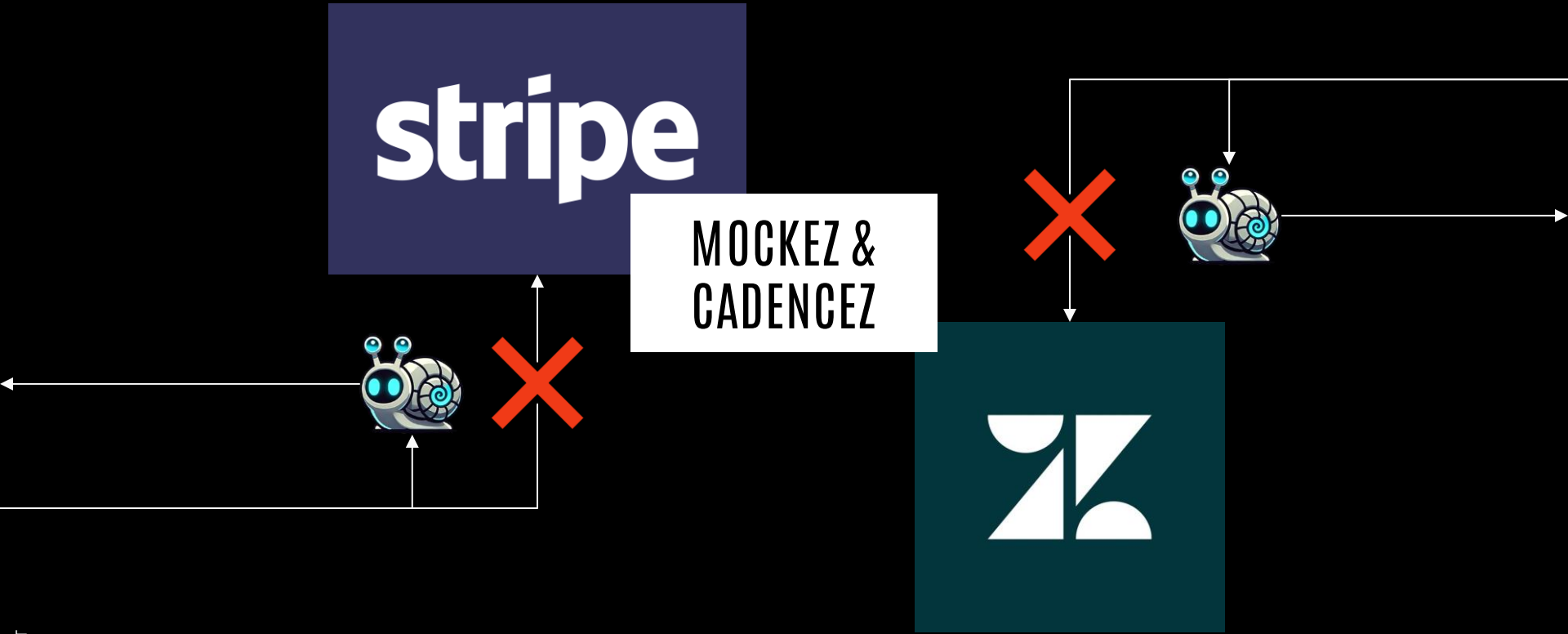


L'ISO-PROD
N'EST PAS
OBLIGATOIRE





**DIVISER POUR
MIEUX RÉGNER**



EXPÉRIMENTER AVEC LES DATASETS



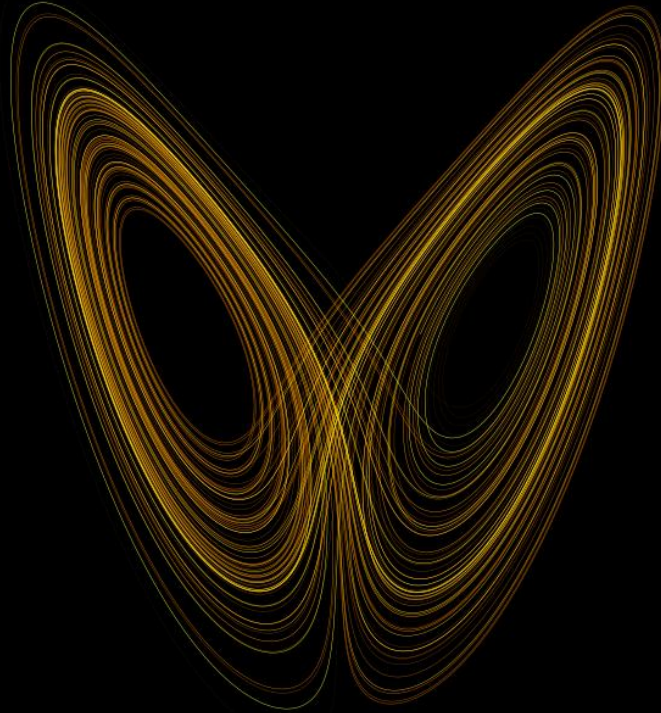
BIDOUILLER

PROD

**ANONYMISÉE
ÉCHANTILLONNÉE**

SYNTHÉTIQUE

**PARAMÈTRES CLEAN
== ANTI-FLAKY**



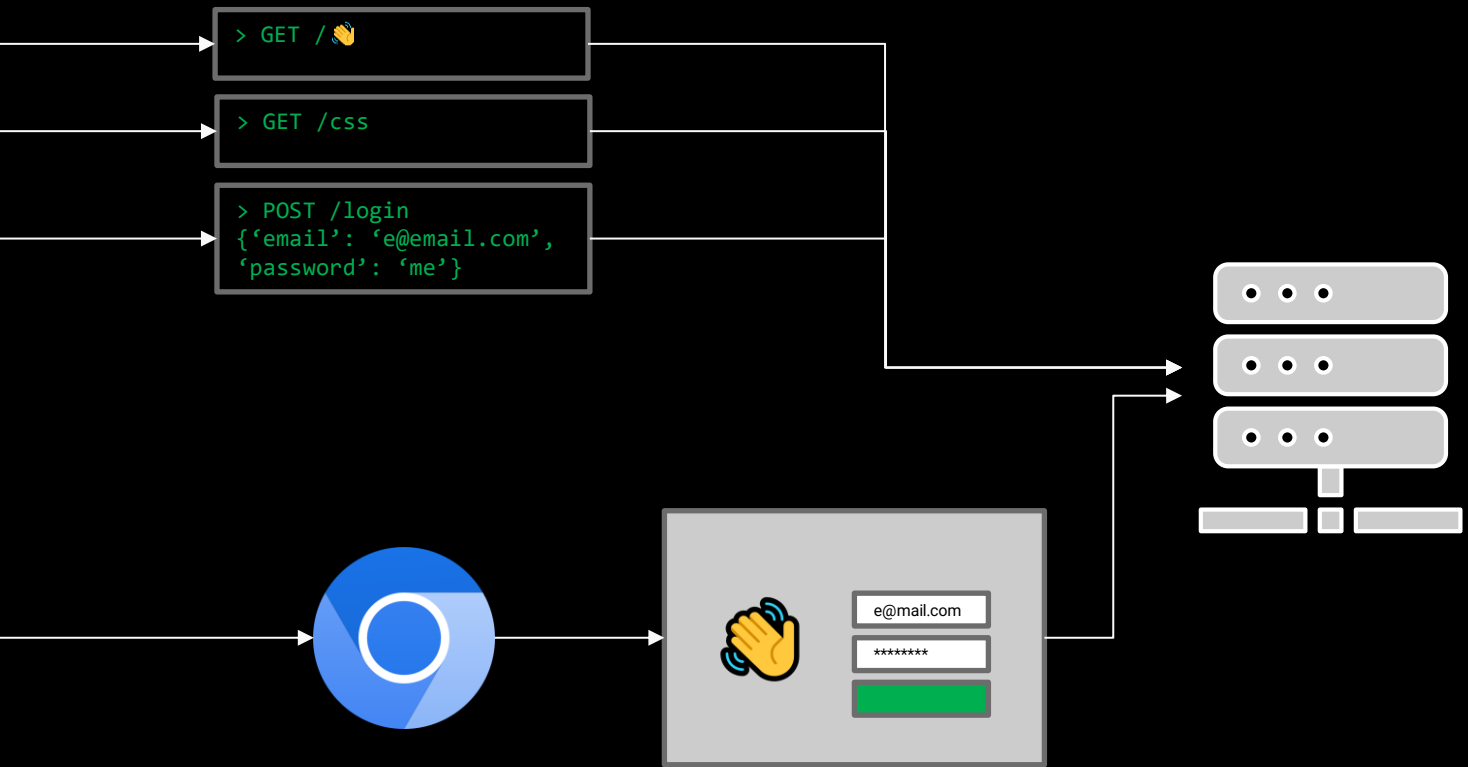
LA TRAÇABILITÉ
EST CLÉ

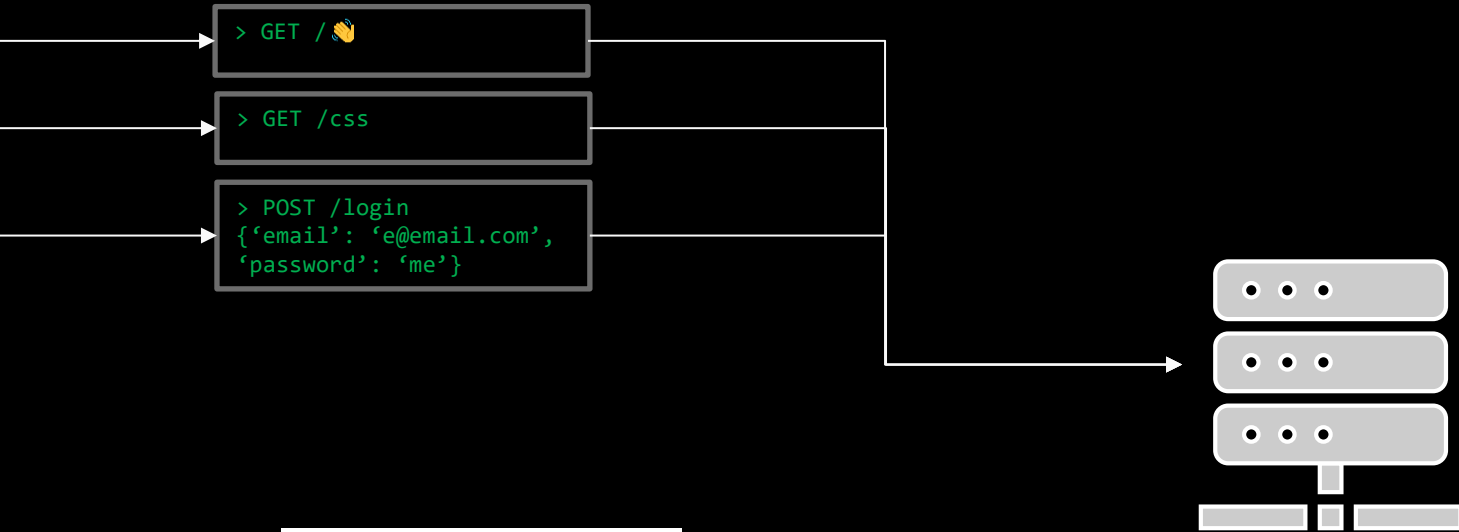


03

AUTOMATISATION



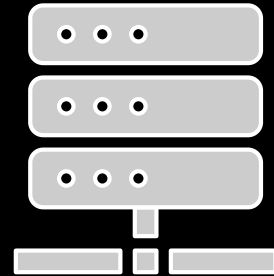




PROTOCOLE :
+ EFFICIENT
+ STABLE



UI :
+ RÉSILIENT
+ SYNERGIES





FAITES LES DEUX.

```
> GET / 🙌
```

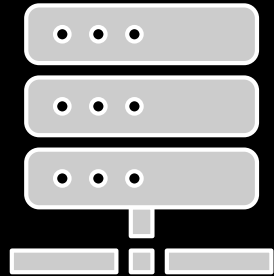
```
> GET /css
```

```
> POST /login  
{ 'email': 'e@email.com',  
  'password': 'me' }
```



e@mail.com

Submit

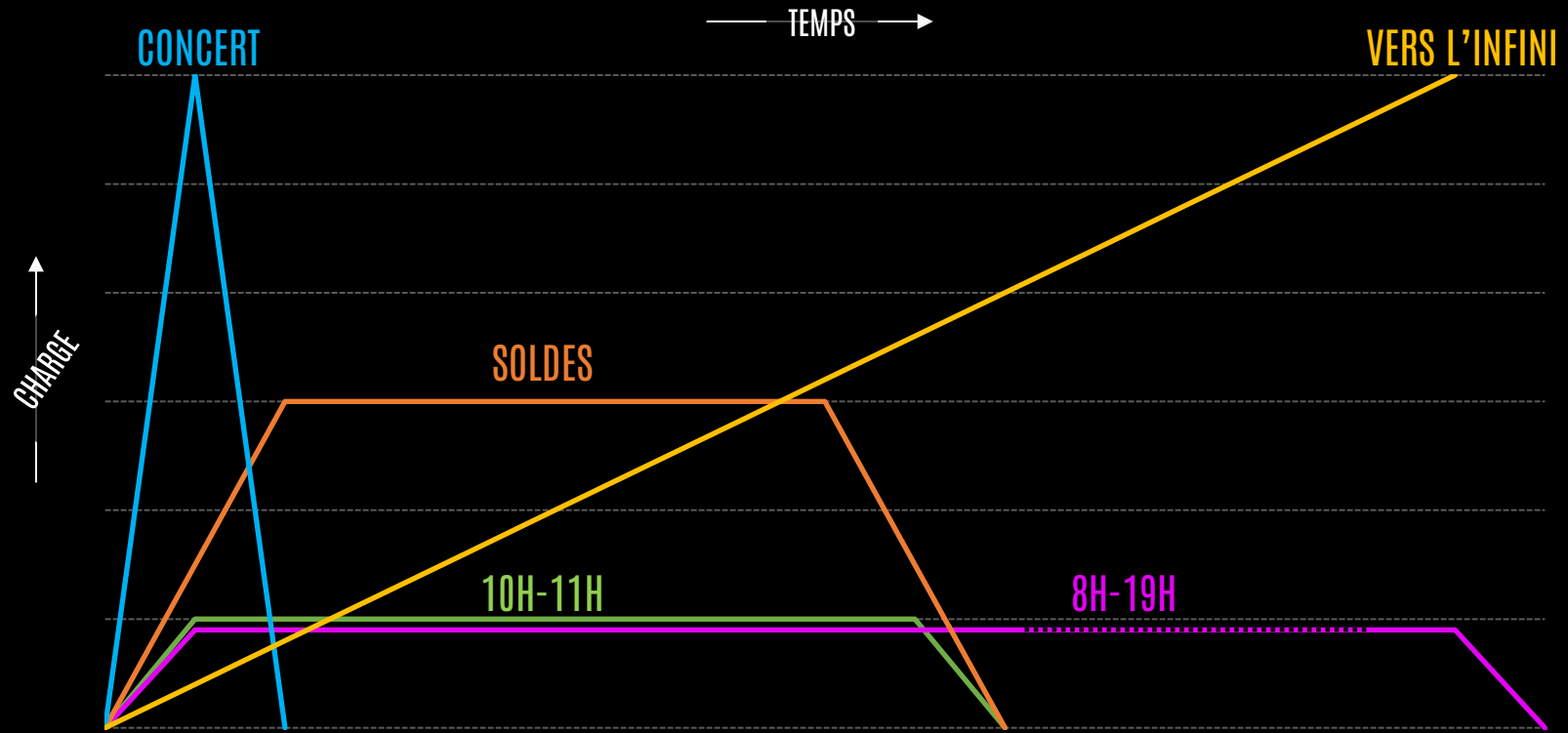


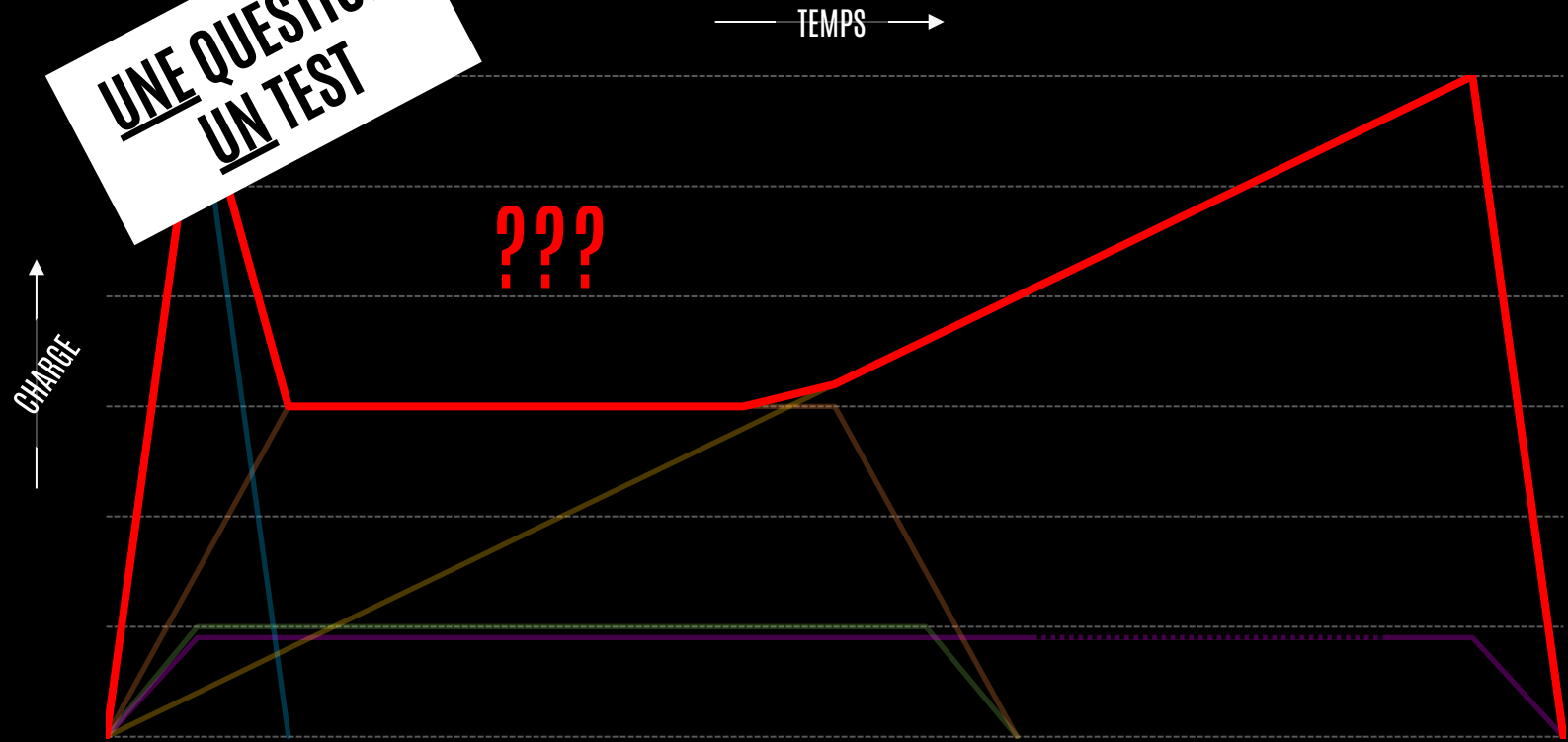
**SANS LES DEVS
PAS DE SALUT**



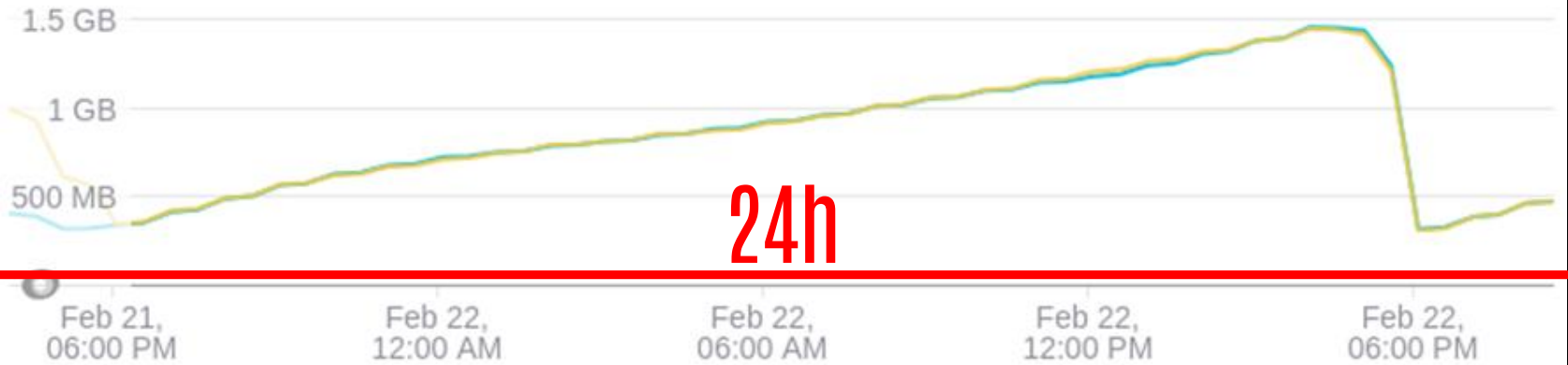
04 | EXÉCUTION







Memory Usage



24h

**LONG
COÛTEUX**

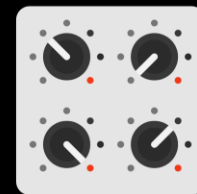


Exigeants

**DU COMPLIQUÉ OK,
MAIS PAS MAINTENANT**



Critiques



Permutations
de paramètres

**COURT
PEU COÛTEUX**

**SYSTÉMATIQUES
BLOQUANTS**

**PLANIFIÉS
NON-BLOQUANTS**



CONNAISSONS NOS OUTILS

**SLOW IS SMOOTH
SMOOTH IS FAST**

Adobe Stock | #334513888



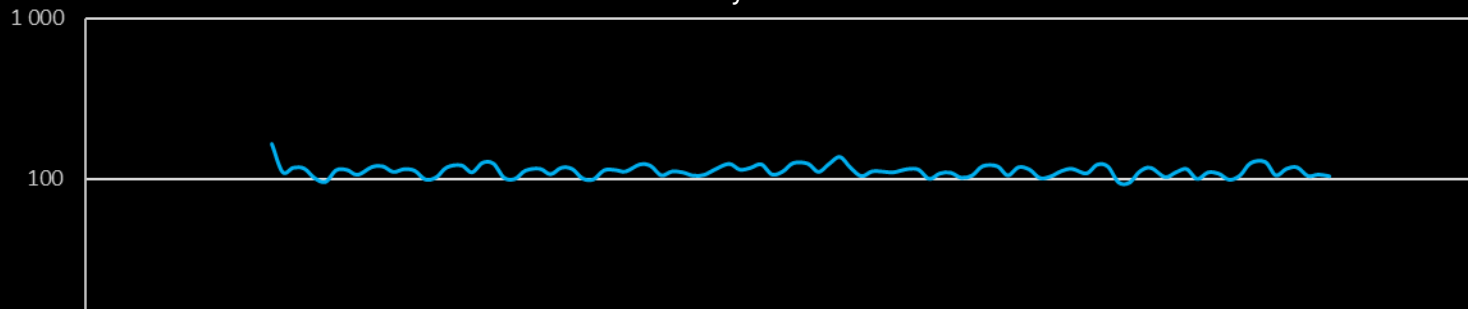
05 | ANALYSE



**PAS D'EXIGENCE
PAS DE TEST**

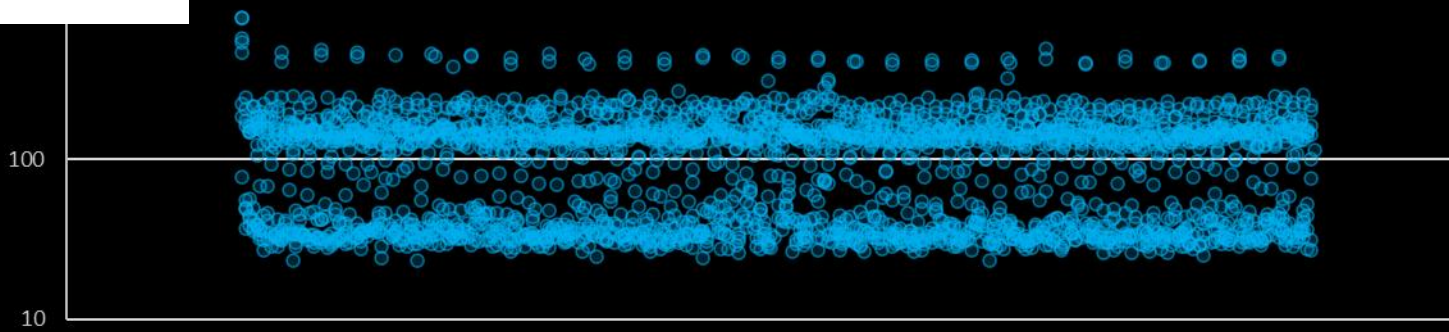


moyenne



**LA TRACE BRUTE
EST CRUCIALE**

données brutes



CPU Utilization (%)	Garbage Collection Frequency
Memory Usage (%)	Garbage Collection Duration
Available Memory	Heap Memory Usage
Disk I/O Operations	Database Connections
Disk Queue Length	Connection Pool Utilization
Network Throughput	Database CPU Usage
Network Latency	Database Memory Usage
Network Packet Loss	Table Scan Rate
System Load Average	Index Usage
Context Switches	Buffer Cache Hit Ratio
System Uptime	SQL Compilations/sec
Interrupt Rate	Deadlocks
Page Faults	Lock Wait Time
Swap Space Usage	Transaction Log Size
File System Usage	Temporary Tables Usage
Open File Descriptors	Query Cache Hit Ratio
Thread Count	Database I/O Operations
Process Count	Active Transactions
CPU Queue Length	Blocked Queries
System Cache Usage	Row Modifications/sec
Active Sessions	Index Fragmentation
Error Rate	Network Saturation
Success Rate	Packet Size Distribution
Session Duration	Connection Resets
User Journey Completion Rate	Retransmission Rate
Business Transaction Success Rate	Network Errors
Cache Hit Ratio	Bandwidth Utilization
Cache Miss Ratio	Orders Processed/Second
Connection Pool Usage	Cart Abandonment Rate
Thread Pool Usage	Login Success Rate

SUPERVISEZ

TEMPS DE RÉPONSE SEULS
= PEU DE VALEUR



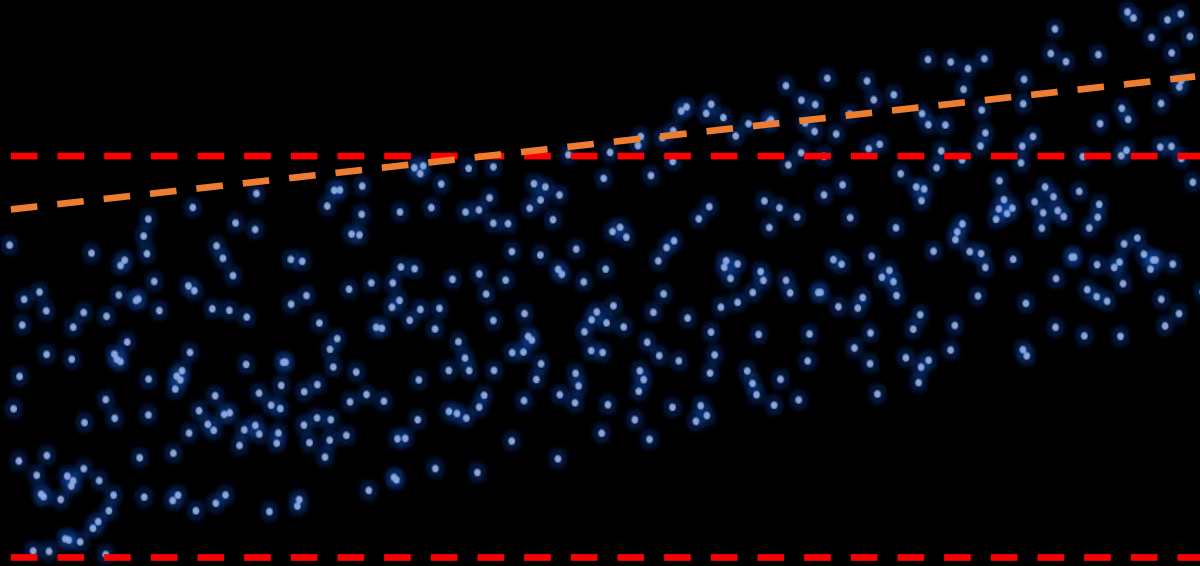
TOUS LES TRUCS

imgflip.com

METTEZ DES ALERTES

Σ

Absolu

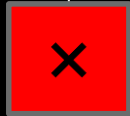


0%

Relatif



PIPELINES



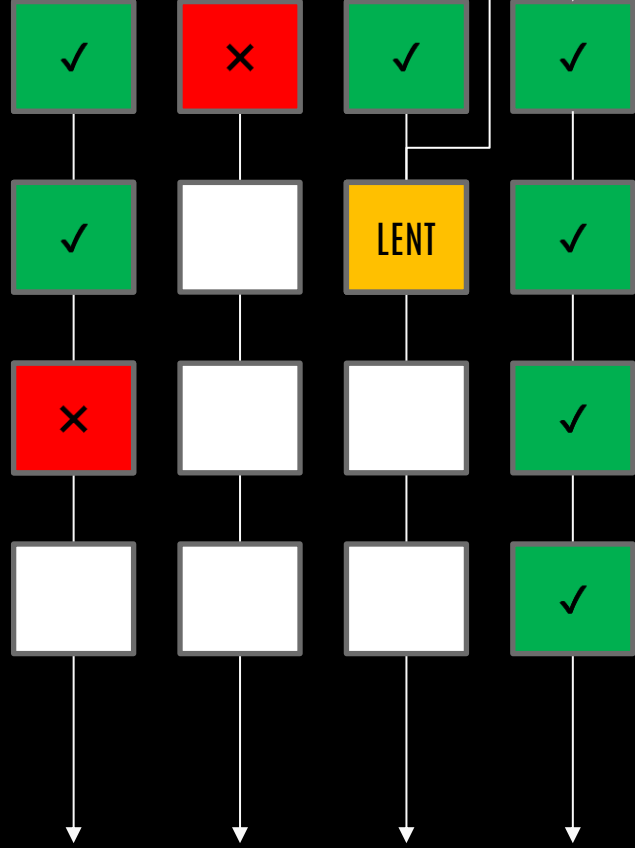
PARALLÉLISER
AVEC PRUDENCE

ÉTAPES CLAIRES

ÉCHOUER TÔT
COMME MOI :{

LES RERUNS
SONT CLÉ

SOFT-KOS 👍

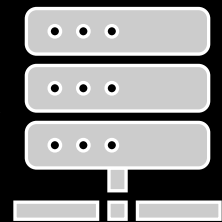
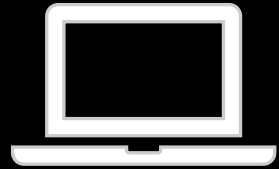


07 | “SHIFTER”



**DEVELOPER
EXPERIENCE**

**CHAOS
ENGINEERING**



Donnez des options



LEFT

SHIFT

RIGHT

TOUT AUTOMATISER LIBÈRE DU TEMPS POUR MAINTENIR L'AUTOMATISATION

Albert Einstein
(ou Gandhi, je sais plus)

MERCI 🙏

Matthieu Leroux-Huet

Performance Testing & Engineering



[linkedin.blackscale.it](https://www.linkedin.com/company/blackscale-it)



mlh@blackscale.it

CREDITS

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