

DevOps ? Je n'ai jamais  
voulu faire ça, et pourtant ...

...

Sofia Lescano Carroll



# Sofia Lescano Carroll

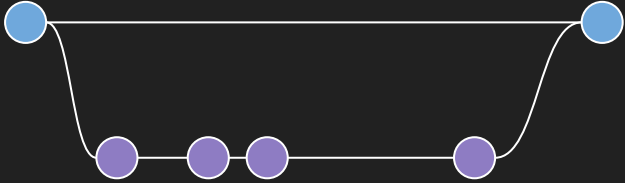
Développeuse PHP



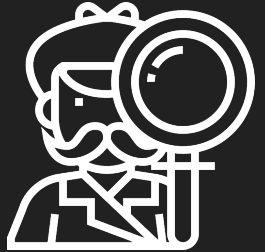
Avant

Master

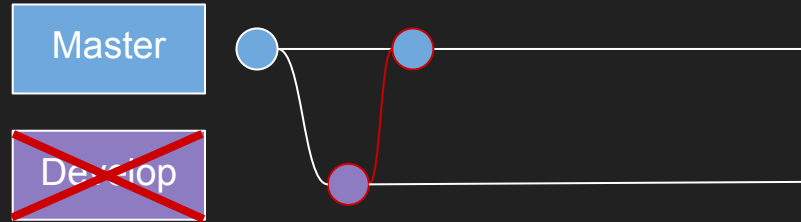
Develop



Go !



Chez Bedrock

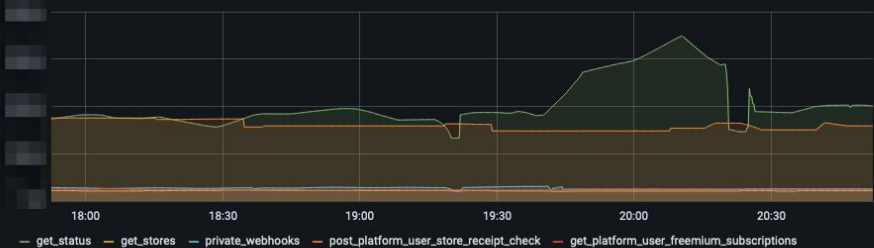


TOUS les développeurs backend DÉPLOIENT en PROD

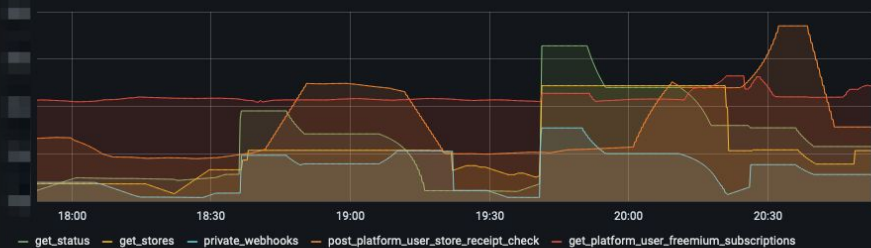
DataSource Prometheus K8S Prod5 Interval 30m customer All Quantile 0.99 route All

Http kernel input group

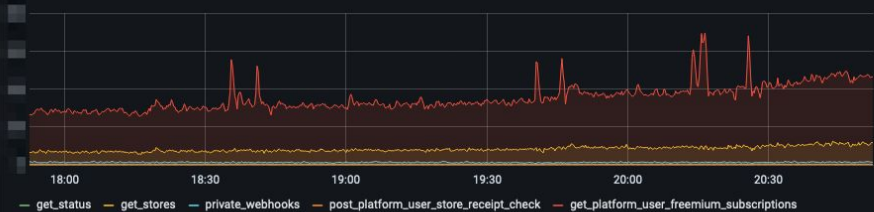
2xx Request duration (Min)



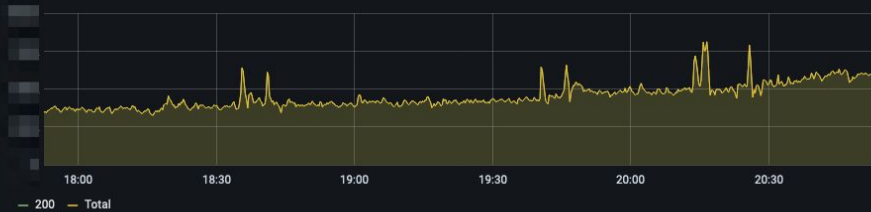
2xx Request duration (Max)



2xx



http code repartition



4xx (-498)

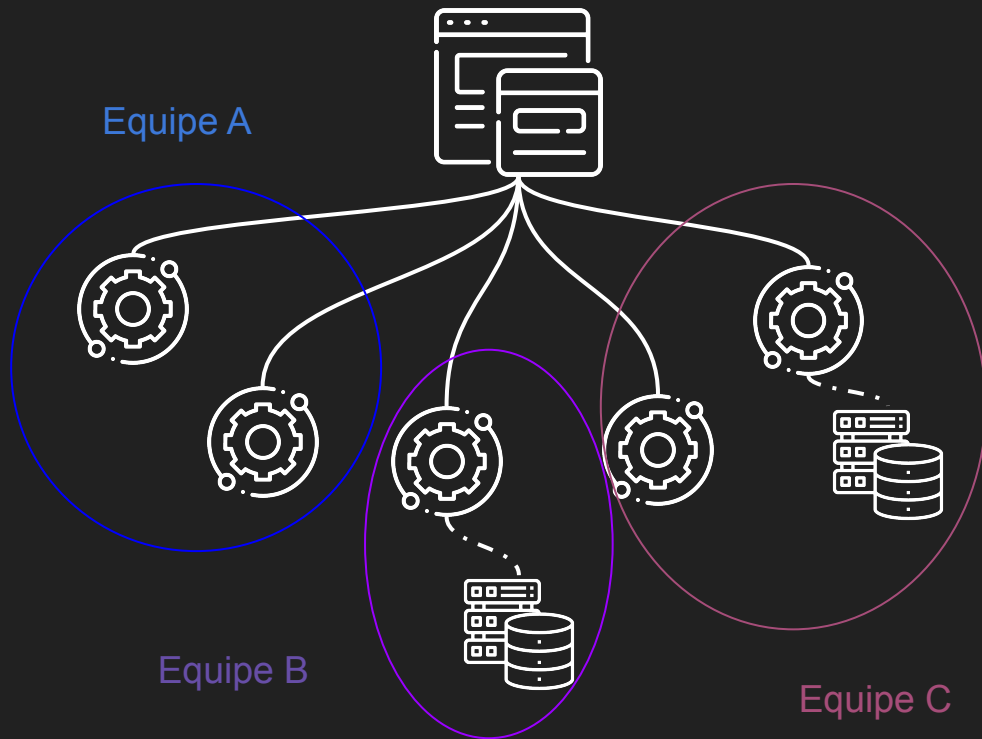


49x - Token errors





Pizza team



Equipe A

Equipe B

Equipe C

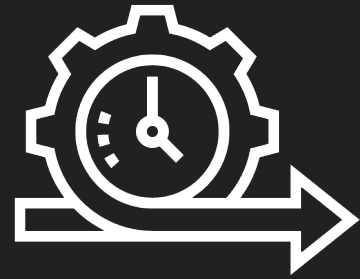
Micro services

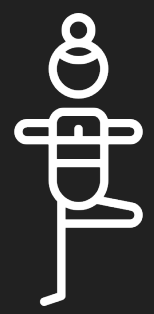
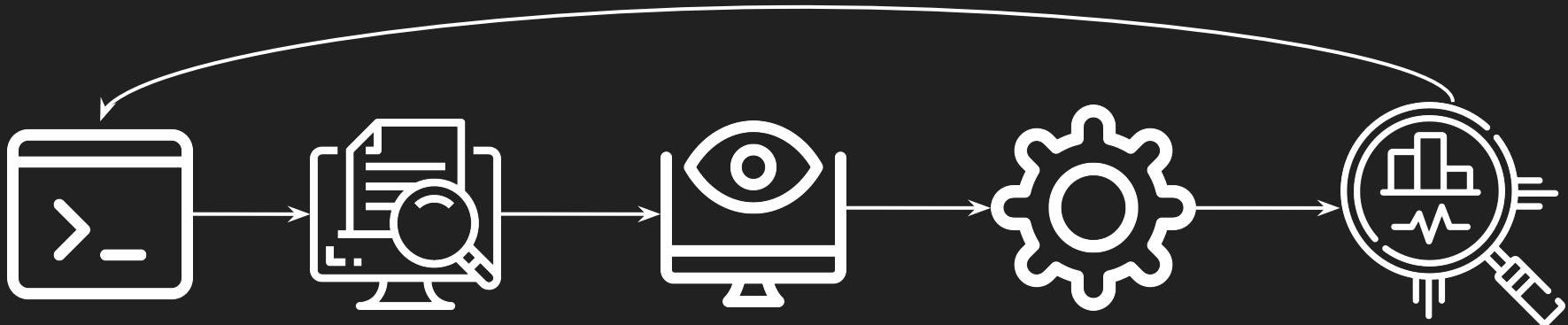






Des process et des outils










✓ 3 approvals



✓ All checks have passed [Hide all checks](#)  
2 successful checks




✓  GH-Hooker — Recipe instance deploy is success [Details](#)



✓  continuous-integration/jenkins/pr-merge — This commit looks good [Details](#)




Labels 


cd/preview

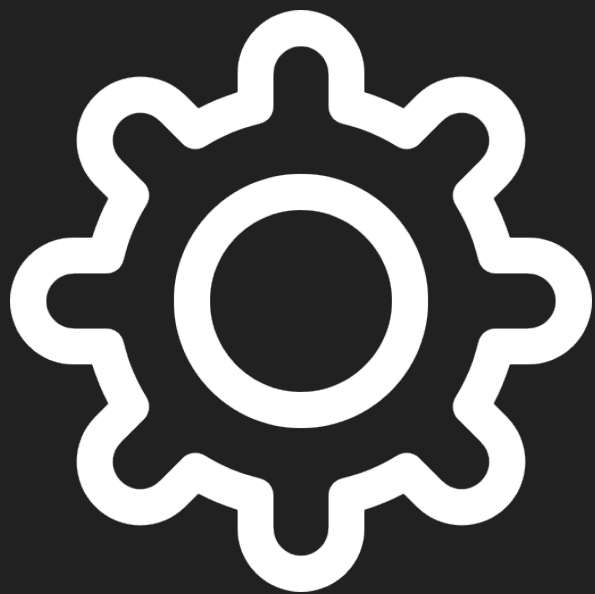
 sl-carroll on 7 May   
Is this tested ? 🤔

  on 11 May [Author](#)   
Since this happens on `kernel.terminate` it's a bit harder to test.

 sl-carroll on 11 May   
even a unit test ? 🤔

  on 11 May [Author](#)   
You were so right!

 1

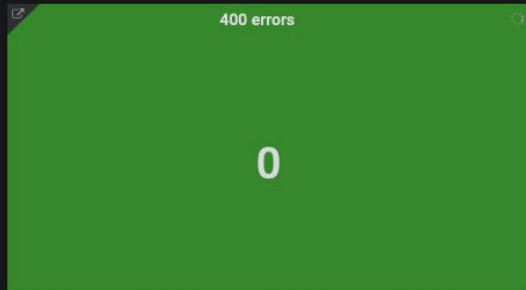
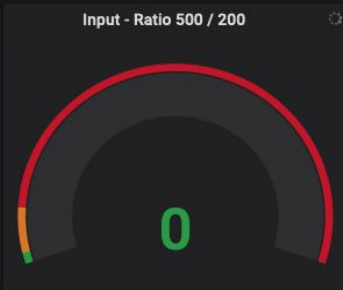
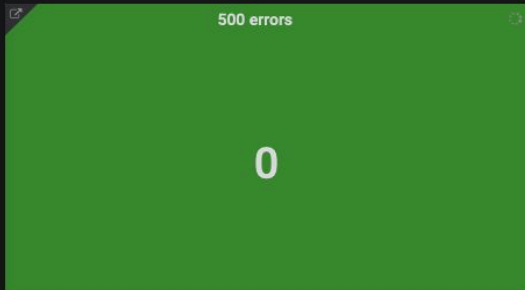




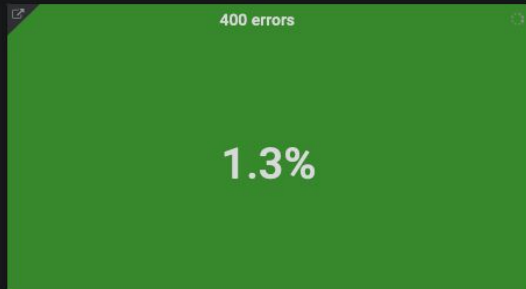
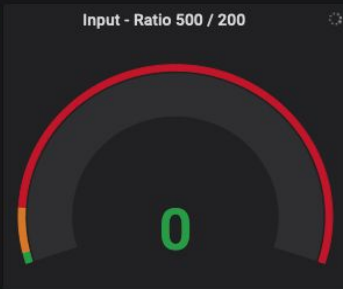
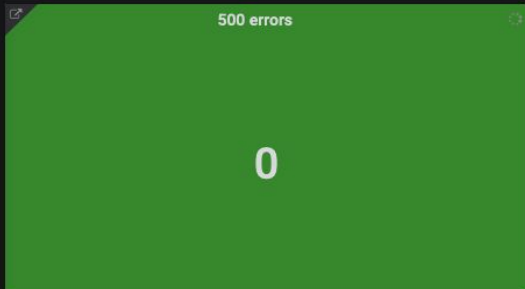




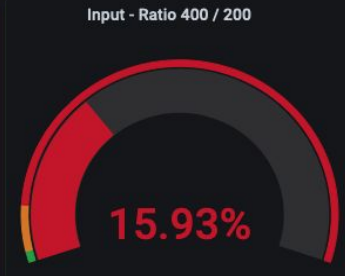
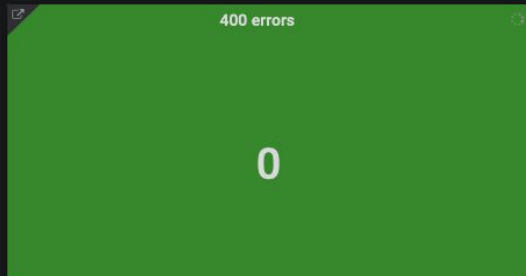
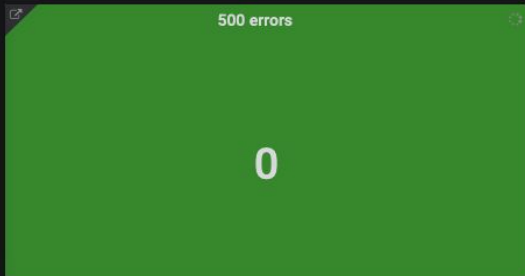
service-bedrock-stores



service-bedrock-coupons



service-bedrock-external-signin





AlertManager APP 1:34 PM

staging - [Back] users - 500

Alert: Route : get\_user - Logs 5xx à 15min - critical

staging - [Back] users - 500

Alert: Route : get\_user - Logs 5xx à 15min - critical

Alert: Route : pub ↑ 107 new messages × min - critical

- Environnement
- Projet
- Route
- Lien vers les logs
- Niveau alerte
- Des seuils

```
sum(irate(http_request_seconds_count{project="users",status=~"5.."}[5m]) *  
    60)  
    by (route) > 5
```

Déployer n'était que le début



HashiCorp

# Terraform

```
resource "aws_db_instance" "default" {
  allocated_storage    = 20
  storage_type         = "gp2"
  engine               = "mysql"
  engine_version      = "5.7"
  instance_class       = "db.t2.micro"
  name                 = "mydb"
  username             = "foo"
  password             = "foobarbaz"
  parameter_group_name = "default.mysql5.7"
}
```

```
+ resource "aws_db_instance" "master" {
  + address = (known after apply)
  + allocated_storage = 20
  + allow_major_version_upgrade = false
  + apply_immediately = true
  + arn = (known after apply)
  + availability_zone = (known after apply)
}

- resource "aws_iam_access_key" "users" {
  - id           = "SBBROUDGHDSKKEO" -> null
  - status      = "Active" -> null
  - user        = "users" -> null
}

~ resource "aws_dynamodb_table" "users" {
  billing_mode = "PROVISIONED"
  hash_key    = "id"
  read_capacity = 15
  stream_enabled = false
  ~ tags      = {
    "project" = "users"
    + "users.backup" = "true"
  }
  write_capacity = 15
}
```

- ▼ terraform
  - ▶ .terraform
  - ▶ 30\_applications\_ecr
  - ▶ cloudfront
  - ▶ dynamo\_config
  - ▶ dynamo\_db
  - ▶ elasticache
  - ▶ vars
  - ▶ waf
    - 🔗 cloudfront.tf
    - 🔗 dynamodb.tf
    - 🔗 elasticache.tf
    - 🔗 iam.tf
    - 🔗 inputs.tf
    - 🔗 outputs.tf
    - 🔗 provider.tf
    - 🔗 rds.tf
    - 🔗 teams.tf
    - 🔗 vars.tf
    - 🔗 versions.tf
    - 🔗 waf.tf

- ▼ vars
  - 🔗 dev.tfvars
  - 🔗 prod.tfvars
  - 🔗 staging.tfvars

```
// dev.tfvars
rds_multi_az           = false
rds_instance_class    = "db.t3.micro"

// staging.tfvars
rds_multi_az           = false
rds_instance_class    = "db.t3.small"

// prod.tfvars
rds_multi_az           = true
rds_instance_class    = "db.t3.large"
```





# kubernetes

```
apiVersion: autoscaling/v2beta1
kind: HorizontalPodAutoscaler
metadata:
  name: "{{ .Chart.Name }}-{{ .Values.tenant }}"
  labels:
    project: {{ .Chart.Name }}
    team: {{ .Values.team }}
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: "{{ .Chart.Name }}-{{ .Values.tenant }}"
  minReplicas: {{ index .Values.api.autoscale .Values.env "min" }}
  maxReplicas: {{ index .Values.api.autoscale .Values.env "max" }}
  metrics:
  - type: Pods
    pods:
      metricName: phpfpd_active_process_percentage
      targetAverageValue: 60
```



## Automated Infrastructure checks (prod)

Rule `rds-multi-az-support` is non-compliant for resource `db-VEIMEXV7ST6C07FF0B3E7UK3ZE` in region `eu-west-3`.

Posted in #alert-infra-prod | May 5th | [View message](#)

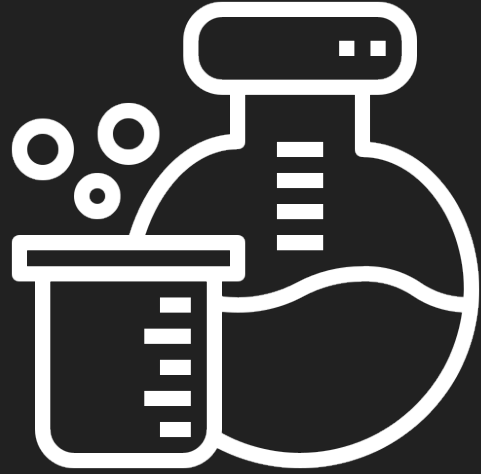


**AlertManager** APP 7:46 PM

### rtlmutu5 - Warning - K8S - Php-fpm is down

Alert: This dashboard may help you <https://grafana.m6web.fr/d/GPXfU2Bik/k8s-php-fpm?refresh=10s&orgId=1&var-app=service-bedrock-stores> - `warning`

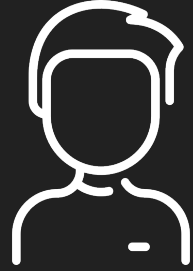
Description: One php-fpm in at least one pod is down



Mon expérience



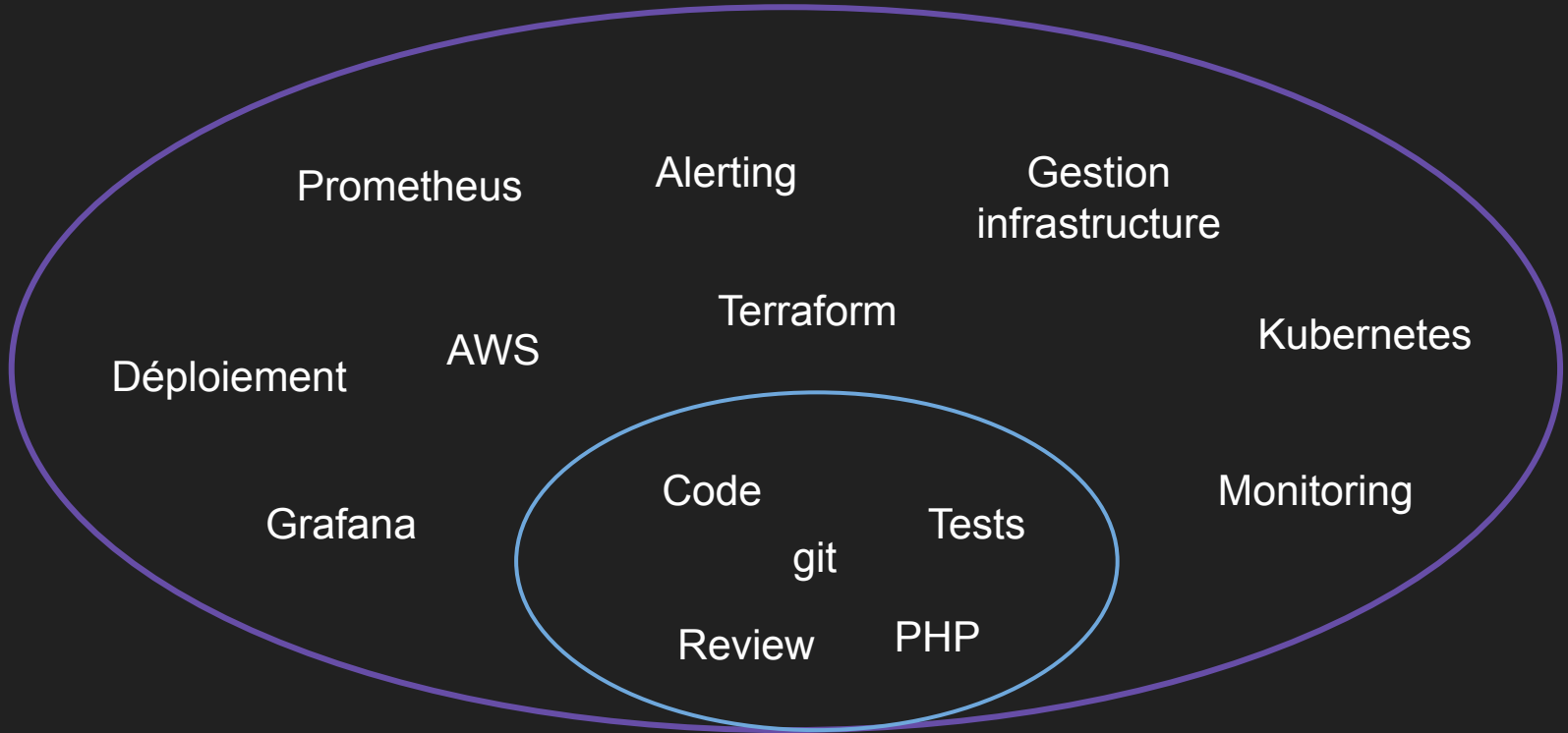
A



A'

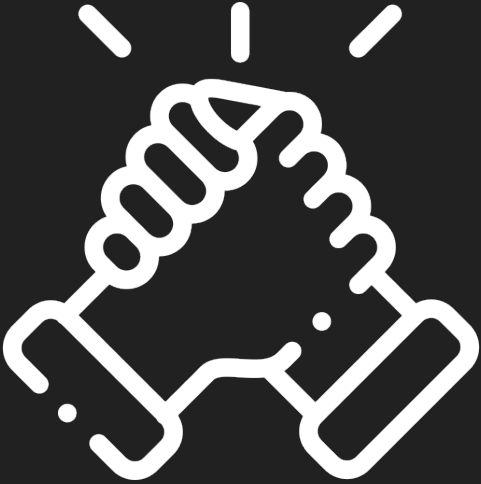


# Difficile ? Oui !





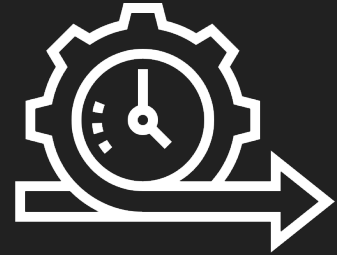




DevOps c'est fun !



Et après ?



Merci !



Freepik

phatplus

Eucalyp

Alfredo  
Hernandez

Prosymbols

Smashicons

Merci !



Kiranshastry

bqlqn

Vitaly  
Gorbachev

xnimrodx

Pixel perfect

surang

Icônes réalisées par les artistes cités, sur [www.flaticon.com](http://www.flaticon.com)

Merci !



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@SofLesc

