



# Mise en oeuvre d'une stratégie Devops à grande échelle



HERMANCE N'DOUNGA | SOLUTIONS ENGINEER

# Agenda

**Notre définition des DevOps**

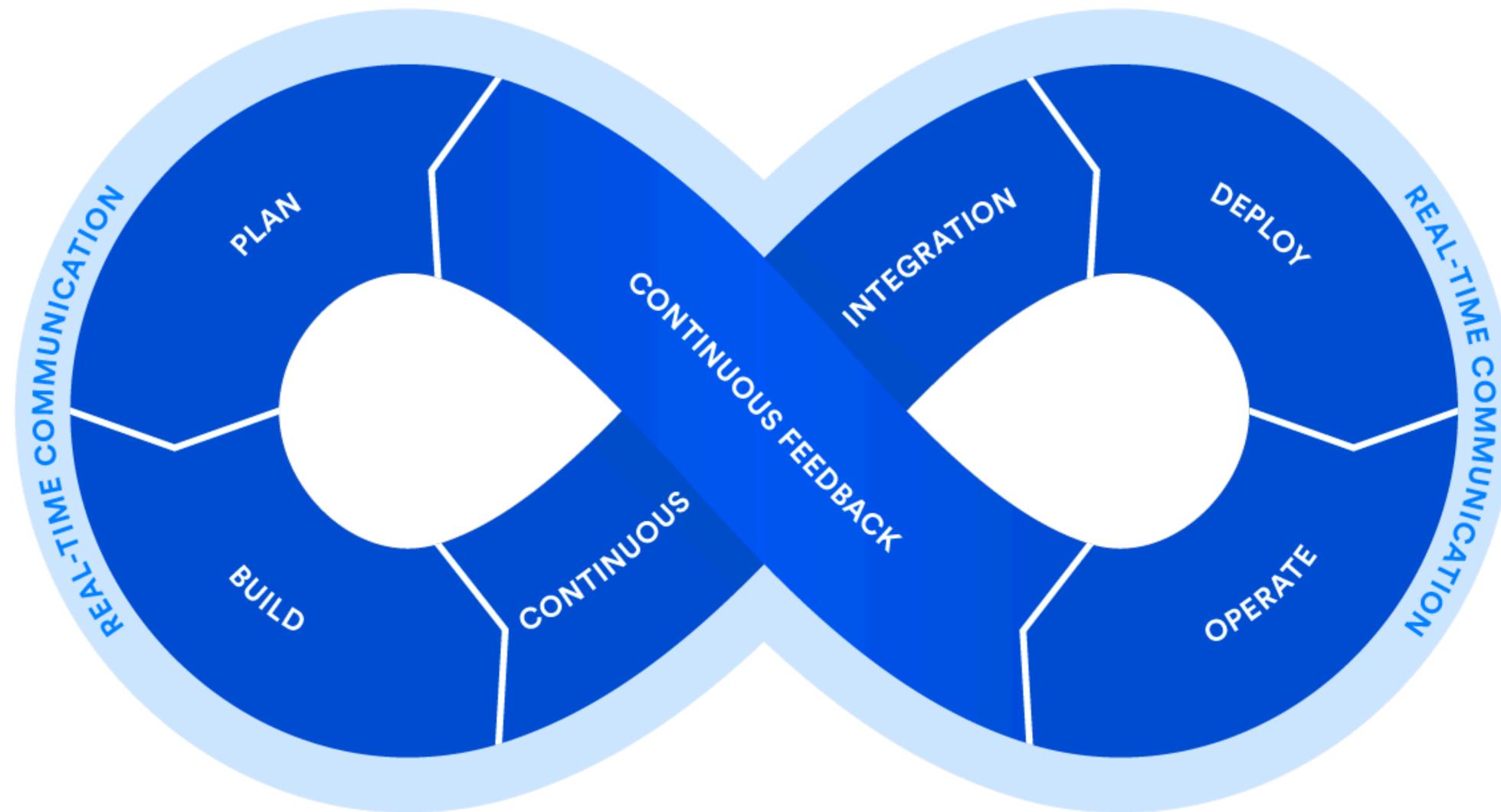
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Obstacles

7 conseils

# DÉFINITION DES DEVOPS

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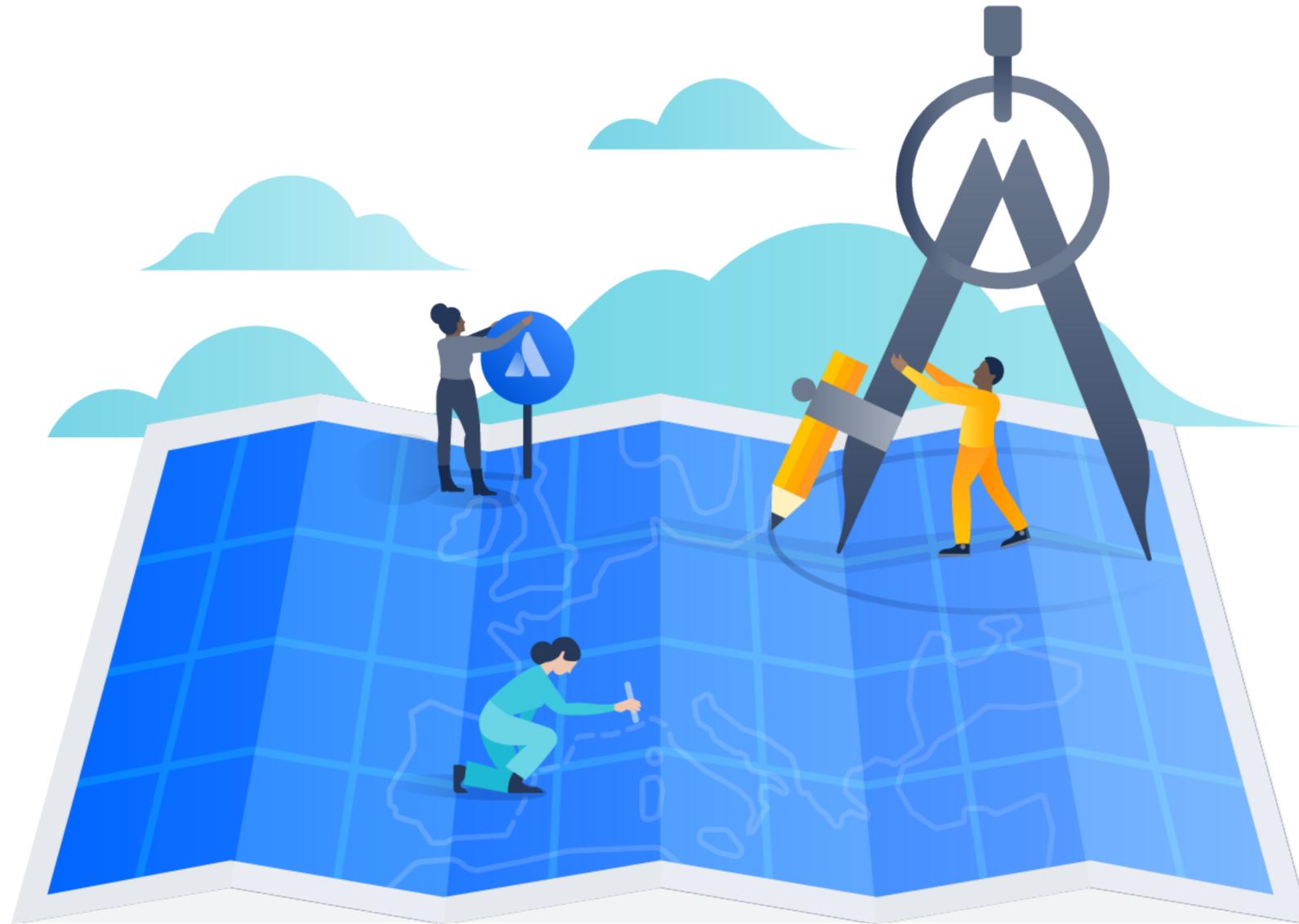




# DevOps

Une culture où le développement et les opérations collaborent pour implémenter une chaîne de livraison plus rapide et plus fiable

# Flow



**A**



**B**

# Règle de trois



**Know the flow**

**Penser en systèmes**

Visibilité globale



**Control the flow**

**Prendre en compte  
le feedback**

Décision basée sur des faits



**Improve the flow**

**Expérimentation  
continue**

Culture de l'apprentissage

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**Obstacles**

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7 conseils

# Obstacles habituels

## Outils disparates

État d'esprit

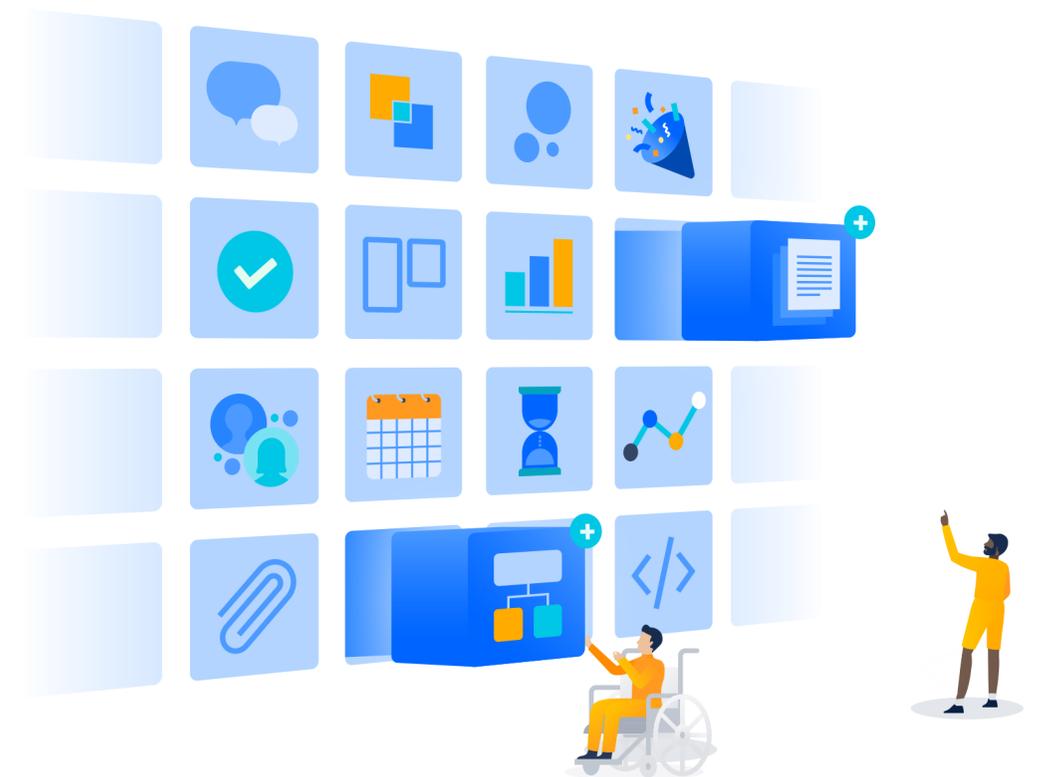
Analyse  
paralyse

Sécurité &  
conformité

# Des outils disparates

Principaux désavantages:

- Mauvaise communication
- Perte de temps
- Confusion généralisée



## Obstacles communs

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Outils  
disparates

## État d'esprit

Analyse  
paralyse

Sécurité &  
conformité

**“S'il n'y a rien de cassé, il n'y a rien à réparer”**

L'état d'esprit et les barrières culturelles peuvent tuer une initiative DevOps dans l'oeuf



## Obstacles communs

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Outils  
disparates

État d'esprit

**Analyse  
paralyse**

Sécurité &  
conformité

# La paralysie de l'analyse

Il est facile de se sentir écrasé par la quantité de changements à entreprendre pour devenir des pros du DevOps



## Obstacles communs

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Outils  
disparates

État d'esprit

Analyse  
paralyse

**Sécurité &  
conformité**

# Sécurité & conformité

Les outils “enterprise-ready” souvent ne supportent pas les techniques modernes de développement



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Obstacles

**7 conseils**

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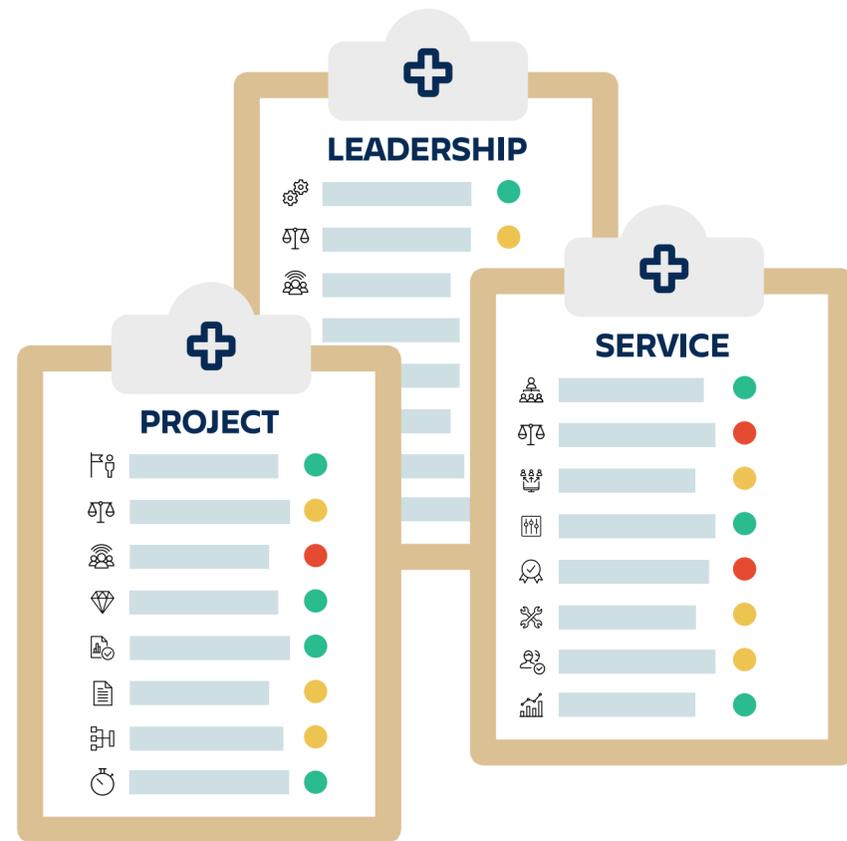
## 1. NE PAS FORCER

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# “Montrer” plus que “dire”



# Playbook de l'équipe



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**ÉTAT DE SANTÉ**

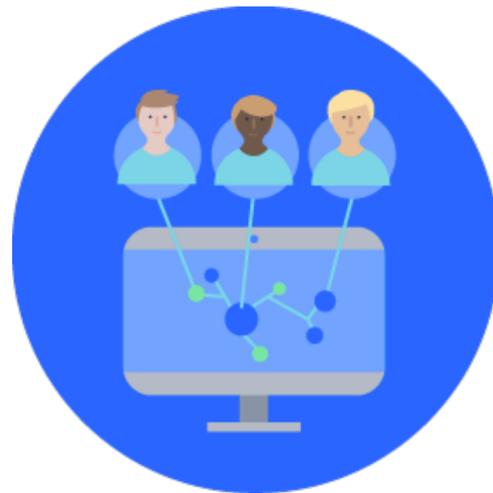


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**ACTIVITÉS**

# Règles d'engagement

Définissez le contrat de collaboration de votre équipe



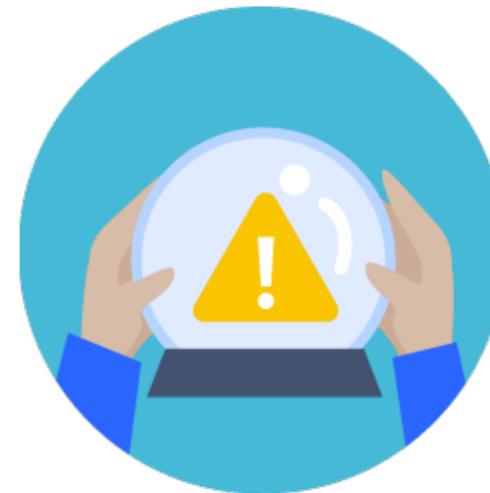
## Rôles et responsabilités

Cartographier les contributions et les interactions



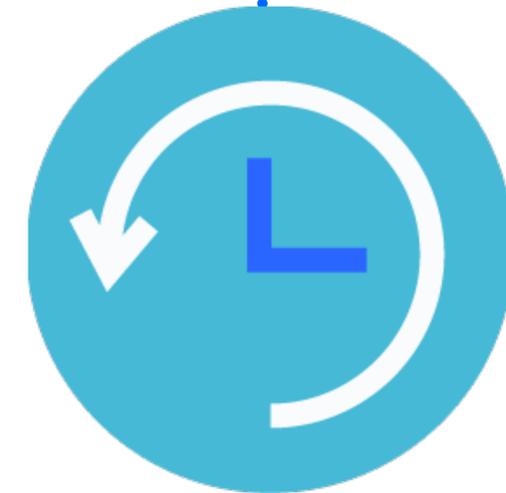
## Analyses pre-mortem

Anticiper les risques afin de pouvoir les éviter



## Rétrospective

Créer un espace sûr pour discuter de ce qu'il faut garder ou changer





## **2. Partagez l'expérience**

Cherchez des exemples d'équipes qui ont déjà implémenté des pratiques DevOps et partagez-les

Blog / 2015 / April / 20

Save for later Watch Share

# Three Strategies for Building a Team Culture of Performance

Created by Ian Grunert on Apr 19, 2015

"Team members are working you. You should come up with

This is a blog and not a conference is important. It's still early days, but in the Confluence team.

## Raise Performance Regre

Push the original development team encourage the team to fix the gaps the important lessons.

We've had some success in this area process. If it's beyond the warranty area we'll try and include members

## Level Up Your Release Pro

Release more often, with smaller size user experience has been impacted against the original development team

This is hard for us on Confluence, to have great flow on affects for this - to delays out of the Confluence team (or determine if a regression is mas

The biggest win we'll have in this area than one occasion where the product process falls outside the Manifesto

Blog / 2017 / October / 19

Save for later Watch Share

# Four Tips for Better Dogfooding Feedback

Created by Ian Grunert on Dec 06, 2017



WeRateDog... @dog\_rates

Meet Polly. She can't believe you won't lend her even a smidgen of your burrito. Thinks you're being just as extra as the guac. 12/10

7:07 PM - Dec 4, 2017 155 5,765 38,912

Dogfooding collective and action much more

Internal user bug report questions

We should on the qua

This means improve

## Have a

I'm using y pre-produ

Reporting enough cli This means important

In-product environment there's a l

Blog / 2017 / December / 15

Edit Save for later Watch Share

# How to properly ship 30% less code

Created by Michael Frauenholtz, last modified by Raja Bellebon on Dec 18, 2017

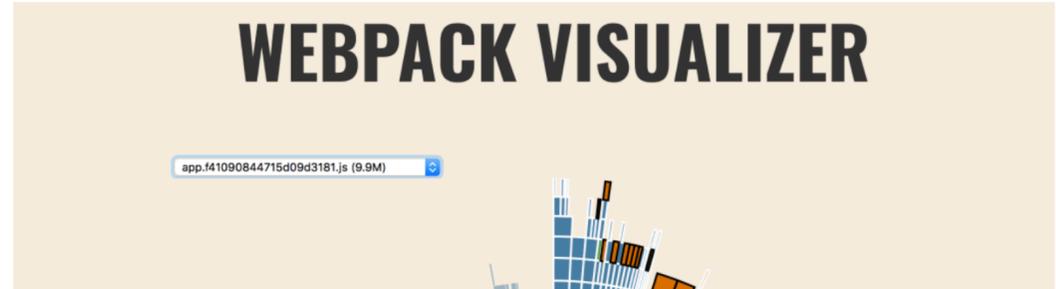
After a bit of investigation, I removed duplicate NPM packages in Bitbucket. Now we're shipping 3MB less JavaScript to customers!

## Building a new Bitbucket

On the Bitbucket Cloud team we're working on moving many of our pages over to a React/Atlaskit client-side stack. Maybe you've seen some of our recent work on the Search page, the Dashboard, or the new Source view? We're working really fast to build and iterate on these features, but so far we've done that at the expense of important things like performance. We didn't pay much attention to our bundle size and it got really out of hand. Last week, we realized that our bundle was so big that it passed CloudFront's default max size for gzipping. Not only was there a lot of JS to parse, but now there was 10MB of JS to download, which is crazy. We've been working on splitting up our bundle by route, which will certainly reduce the amount of JS on any given page (look for that later this week!). But that didn't really answer the question: how did our bundle get so big in the first place?

## Deep dive into node\_modules

To start my investigation, I used a tool called Webpack Visualizer. It takes the output of your webpack build and renders it in a nice UI so you can see your whole bundle at once. Our bundle looked like this:



**3.**

**C'est un  
voyage, pas  
une destination**



A screenshot of the Atlassian website page for Git. The browser address bar shows 'atlassian.com/git'. The page header includes the Atlassian logo, 'Bitbucket', the title 'Getting Git Right', and a search bar with the text 'Enter Your Email For Git News'. A blue 'Learn Git' button is centered below the header. The main content area is divided into six columns, each with an icon and a title: 'Learn Git' (hand icon), 'Beginner' (person icon), 'Getting Started' (database icon), 'Collaborating' (people icon), 'Migrating to Git' (database icon with arrow), and 'Advanced Tips' (lightbulb icon). Each column lists several related articles or tutorials.

atlassian.com/git

ATLASSIAN Bitbucket

Getting Git Right

Enter Your Email For Git News

Learn Git

**Learn Git**

- Learn Git with Bitbucket Cloud
- Learn about code review in Bitbucket Cloud
- Learn Branching with Bitbucket Cloud
- Learn Undoing Changes with Bitbucket Cloud

**Beginner**

- What is version control
- What is Git
- Why Git for your organization
- Install Git
- Git SSH
- Git cheat sheet

**Getting Started**

- Setting up a repository
- Saving changes
- Inspecting a repository
- Undoing changes
- Rewriting history

**Collaborating**

- Syncing

**Migrating to Git**

- SVN to Git - prepping for the migration

**Advanced Tips**

- Advanced Git Tutorials

# 4. Faire semblant jusqu'à le faire vraiment

## Outils

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Aidez d'abord les équipes à adopter les nouveaux outils, l'état d'esprit suivra de près

## Processus

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Procédez par petits changements au processus, prévoyez des guides et des barrières de sécurité

## Workshops

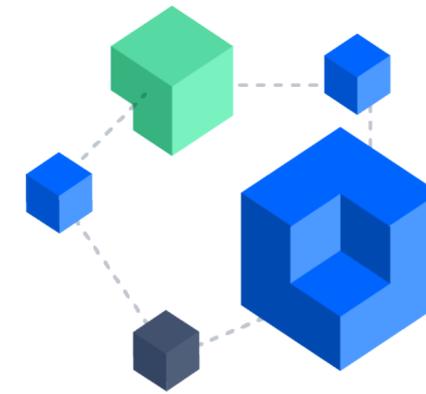
Rassemblez les équipes et organisez des sprints expérimentaux avec les nouveaux processus et les nouveaux outils

# 5. Créer de la cohérence



## Fournir une base

Partagez les bonnes pratiques, travaillez le WIP, managez 1 stack d'outils



## Adapter si nécessaire

Adaptez les workflows et les intégrations

**ARMSTRONG CITY**

- Queues
- Customers
- Reports
- Add-ons
- Raise a request
- Knowledge base
- Customer channels
- Invite team

PROJECT SHORTCUTS

Add a link to useful information for your whole team to see.

+ Add link

Project settings <<

ACMOON-508

### Citizen report

Edit

**Details**

Type:  
Priority:  
Component/s:  
Labels:  
Address:

**Description**

The traffic sign

**Attachments**

**Related knowledge**

Building Permi

Didn't find a su

**Activity**

All Comments

Admin Istrator added a comment - 09/Nov/19 2:16 AM

### Create linked issue

Project\* iOS App (IOS)

Issue Type\* Story

Created issue blocks

Linked issues ACMOON-508 x

Search for issues to link to from the one you're creating.

Summary\* Citizen reported issue with traffic signage

Description

Style B I U A

The traffic sign isn't working

Visual Text

Create Cancel

Export

As

7h 59m Time to first response within 8h

2d 7h Time to resolution within 2d 8h

Unassigned Assign to me

Admin Istrator

Start watching this issue

Service Desk request

request type: Traffic Signs

customer status: Waiting for Support

channel: Portal

new customer request

Just now

Just now

Development Create branch

iOS App sidebar navigation: iOS app, Backlog, Active sprints, Releases, Reports, Issues, Components, Add-ons, PROJECT SHORTCUTS, Add link

Main issue content: iOS App / IOS-5, As a user i can log into the system via Google, Edit, Comment, Assign, More, To Do, In Progress, Done, Admin, Details (Type: Story, Priority: Major, Status: IN PROGRESS, Resolution: Unresolved, etc.), Description, Attachments, Activity

Issue metadata sidebar: People (Assignee: Unassigned, Reporter: Admin Istrator), Dates (Created: 04/Aug/19 3:13 AM), Development (Create branch), Agile (Completed Sprints)





## 6. Planifier une croissance rapide

Choisissez les outils conçus pour rester performants

## 7. Dans le doute demander de l'aide

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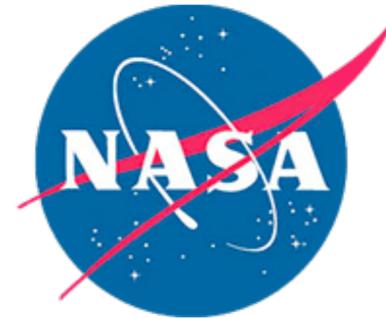
Demandez de l'aide  
aux experts. Les  
Solution Partners  
certifiés & les  
Technical Account  
Managers (TAMs)  
Atlassian peuvent  
vous aider



# Études de cas

**splunk**>

”Avec Git et Bitbucket on arrive à compléter 3 fois plus de code reviews”



Le code qu'ils écrivent le Lundi va piloter des sondes sur Mars le Mardi

**francetv**

“Jira est un outil de visualisation clé pour suivre le progrès des tâches. Les équipes peuvent ainsi facilement visualiser et partager l'information”



**Merci!**



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