

■ Donnez votre avis sur :

<http://notes.mstechdays.fr>



Merci de nous aider à améliorer les Techdays !!

Introduction à DevOps

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Developper Evangelist
@meulta

Stanislas Quastana
Architecte Infrastructure
@squastana

Les protagonistes du Système d'information

Développeur

Admin

Intégrateur

Manager

Testeurs réseau BDD
réseaux Ingénieur mobile

PDP Designer Web
Program

Hotline systèmes RSSI
Utilisateurs niveau
DSI Product

Sécurité
infrastructure

Architecte

Agenda

- La problématique
- C'est quoi ? Pourquoi ?
- Pour qui ?
- Intérêts ?
- Prérequis ?
- Par où commencer ? Outils, méthodes

On plante le décor

La problématique

Création

Production
Exploitation

Création

Production Exploitation



Mais différences de :

- Vocabulaire
- Technologie
- Niveau de couche
- Responsabilité

Création

- SCRUM
- KANBAN
- WATERFALL
- MERISE
- ...



Différences de méthodes de travail

Production Exploitation

- ITIL
- MOF
- Agile-infrastructure...

} ITOps

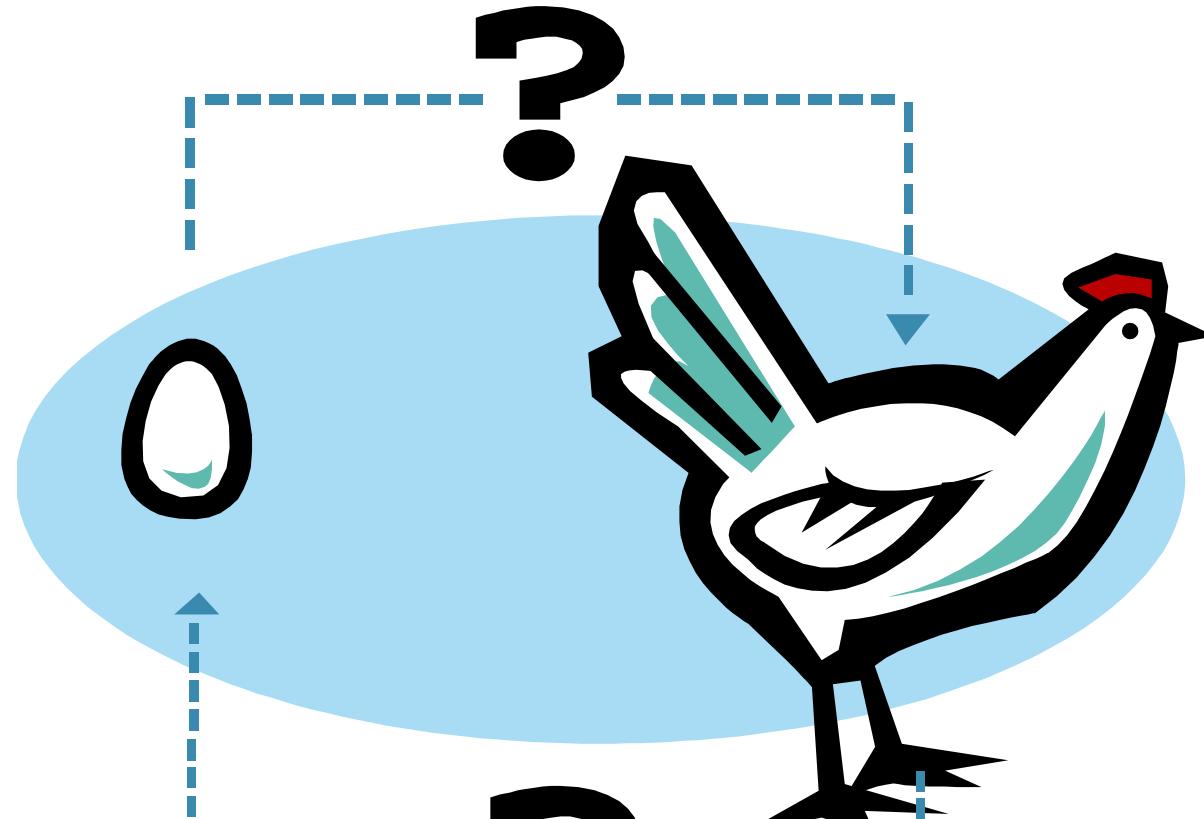
Kiparlaki ?



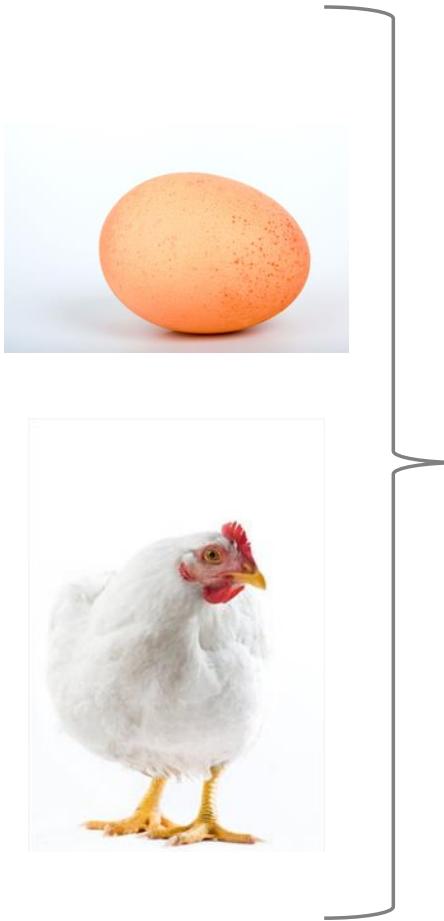
RANCONEURS

DEV / CREATION

OPPOSITION



IT / OPS



au service des utilisateurs

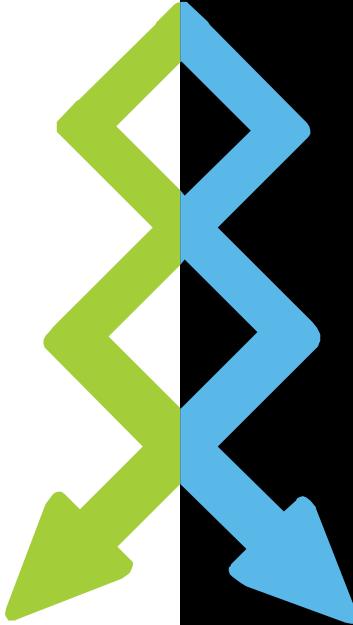
IT as a **SERVICE**

Au-delà du buzz marketing et des soirées du mercredi

DevOps c'est quoi ?



DevOps



Développement

IT

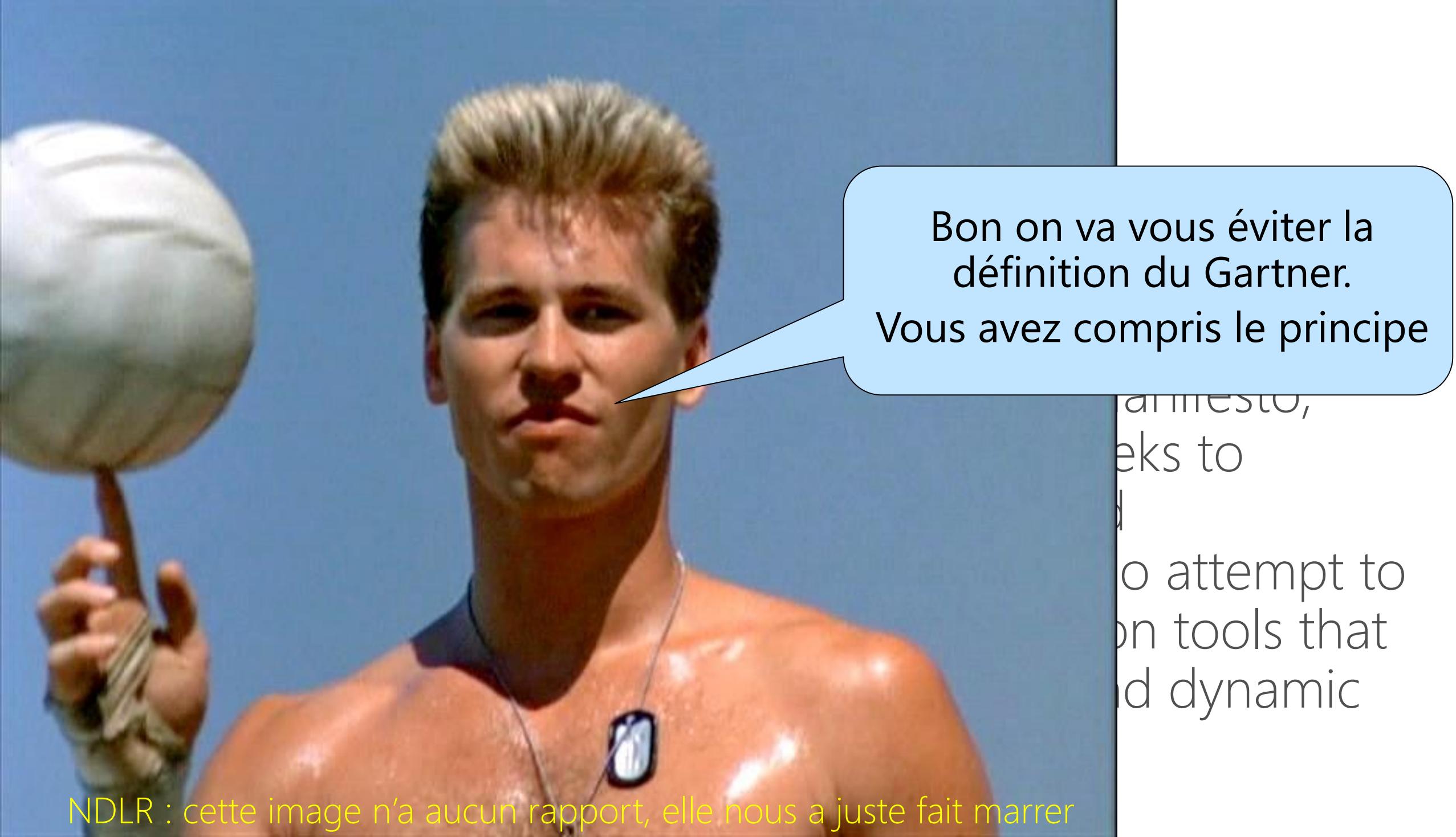
DevOps – définition Wikipédia

- Inventé par Patrick Debois en 2009 durant l'organisation des premiers *devopsdays*.
- DevOps est un mouvement visant à réduire la friction organisationnelle entre les "devs" et les « ops ».



DevOps - Définition

- Devops est la contraction des termes anglais « development » (développement) et « operations IT » (exploitation).
- L'approche DevOps prône une meilleure communication entre les équipes de développement et d'exploitation, afin d'améliorer la conduite de projet



Bon on va vous éviter la
définition du Gartner.
Vous avez compris le principe

NDLR : cette image n'a aucun rapport, elle nous a juste fait marrer

DevOps pour tous ?

DevOps pour qui ?



Pour quels types d'organisations ?

- Les acteurs du Web / Mobile
- Industrie (objets connectés)
- Éditeurs de logiciels
- Fournisseurs de services Cloud
- Jeux
- ...



Pour quelles tailles d'organisation ?

- L'approche DevOps est très adaptée aux petites structures (startup)
 - Normal : petite structure = communication plus facile et compétences plus généralistes
- Elle est néanmoins également adoptable dans de grandes organisations
 - Sous réserve de bien s'y prendre
 - Quelques exemples :



Pour quelles tailles d'organisation ?



Pour quels types d'applications / services ?

- Parfait pour les applications de type
 - Web
 - Jeux
 - Web Mobile
 - Mobile (/!\ à la fréquence des mises à jours)
- Moins adapté à des applications Client / Serveur mais envisageable si utilisation de certaines technologies facilitant le déploiement
 - Click-Once
 - Application distante (RemoteApp) via VDI

Un intérêt pour tous !

DevOps : quels bénéfices ?

Vision pré-DevOps



« Vite vite on met en production »



« Ne pas confondre vitesse et précipitation. La production c'est du sérieux »

Qui est responsable ? Approche classique

- Les développeurs produisent du code à partir d'une demande détaillées dans un cahier des charges
- Les développeurs ne sont pas souvent préoccupés par l'impact de leur code sur la production
 - le travail du développement semble terminé (pour les dev) lorsque l'application passe en production
- Les services opérant la production sont concentrés sur la stabilisation des services et moins concernés par la performance du code

Qui est responsable ? Approche DevOps

- DevOps = répartition des responsabilités et implication de l'ensemble des acteurs de la chaîne.



- Exemple chez Microsoft avec Office 365

Autre exemple -> Amazon :

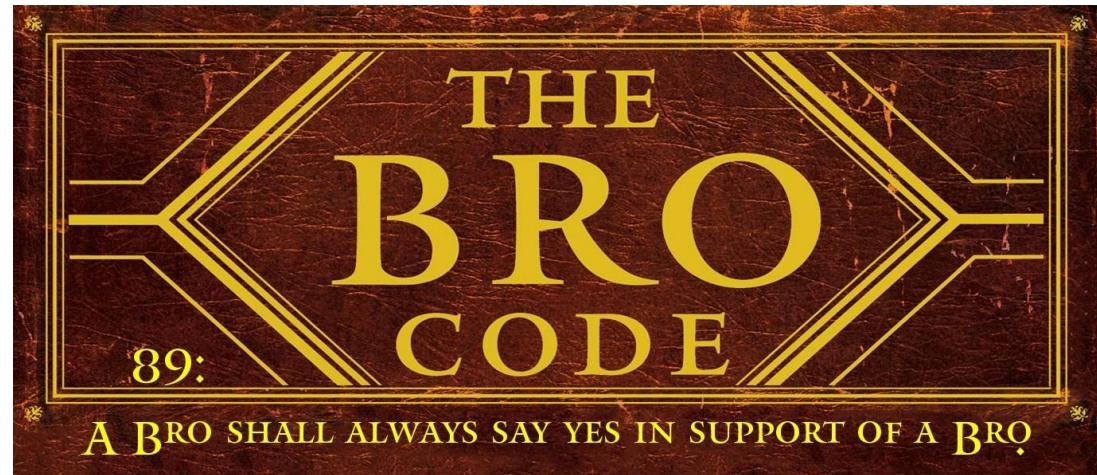
« You build it, you run it »

The entire infrastructure of Amazon, posits Vogels, is set up to do things faster than anywhere else. For instance, Amazon has up to 800 different teams internally (and each team, by Amazon's standard, should be no larger than what can be fed by two large pizzas). If you go to Amazon's homepage, you'll see the work of 2-300 different teams, each controlling a specific service.

“We have this principal of ‘you build it, you run it’, says Vogels. You are responsible for what the customer sees, in short. This methodology, says Vogels, allows Amazon to bring a product to market in 10 – 15 days.

Intérêts d'adopter une démarche DevOps

- Réduire le cycle de mise en production
- Approche plus fragmentée
 - Petites évolutions vs révolution
- Mises à jour transparentes
- Mise en commun des responsabilités
 - tout le monde dans le même bateau
- Amélioration continue



Intérêts d'adopter une démarche DevOps

- Réduction du coût de mise en production
- Réponse plus rapide aux besoins des clients (internes ou externes)
- Etre plus compétitif
 - Tant qu'un logiciel ou service n'est pas mis en production, il n'apporte aucune valeur à son éditeur ou fournisseur
 - **L'approche DevOps est clairement là pour servir le business avant tout**
 - Exemple : le marché des navigateurs Web



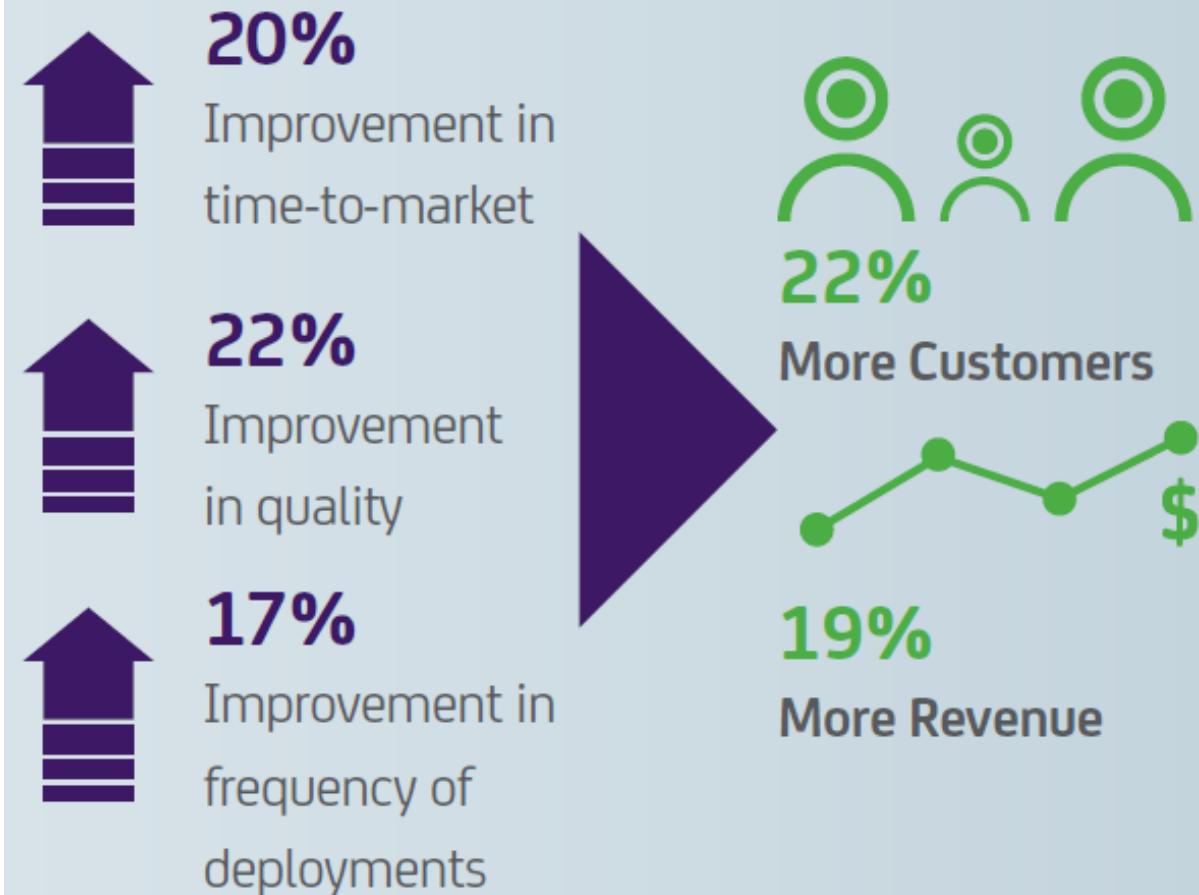
Quelques chiffres

- Source : Etude CA
“*What smart businesses know about devops*”.
- Panel : 1300 décideurs IT répartis dans 21 pays
- Disponible sur
<http://aka.ms/devopsca>



DevOps Benefits Are Real and Quantifiable!

What Has Been the Percentage Improvement, Increase or Reduction for Each of the Quantifiable Benefits You Have Seen?



On se lance !

DevOps : comment démarrer ?

Prérequis pour démarrer du DevOps

- Méthode Dev agiles
- Méthodes IT

Méthodes IT

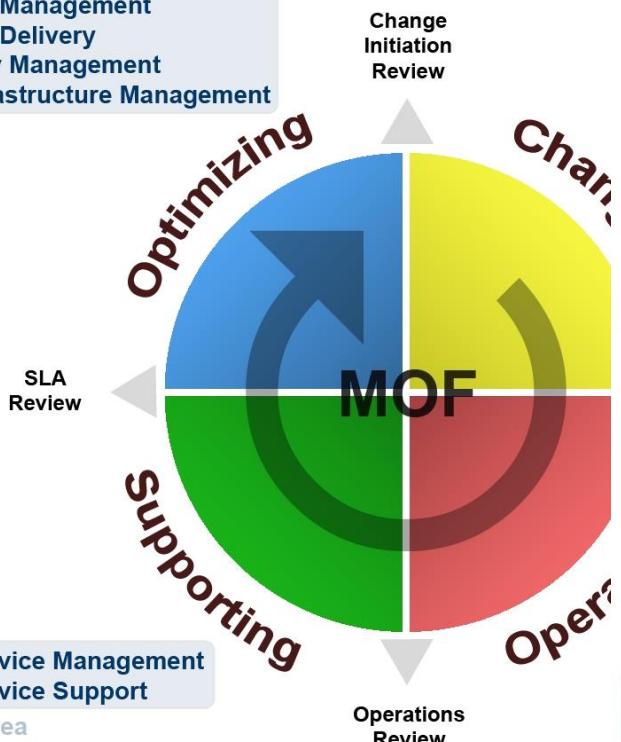
Microsoft Operations Framework (MOF)

Proven Practices for Operational Excellence

Process Model With ITIL Areas

ITIL Area

- Service Management
- Service Delivery
- Security Management
- ICT Infrastructure Management



- Service Management
- Service Support

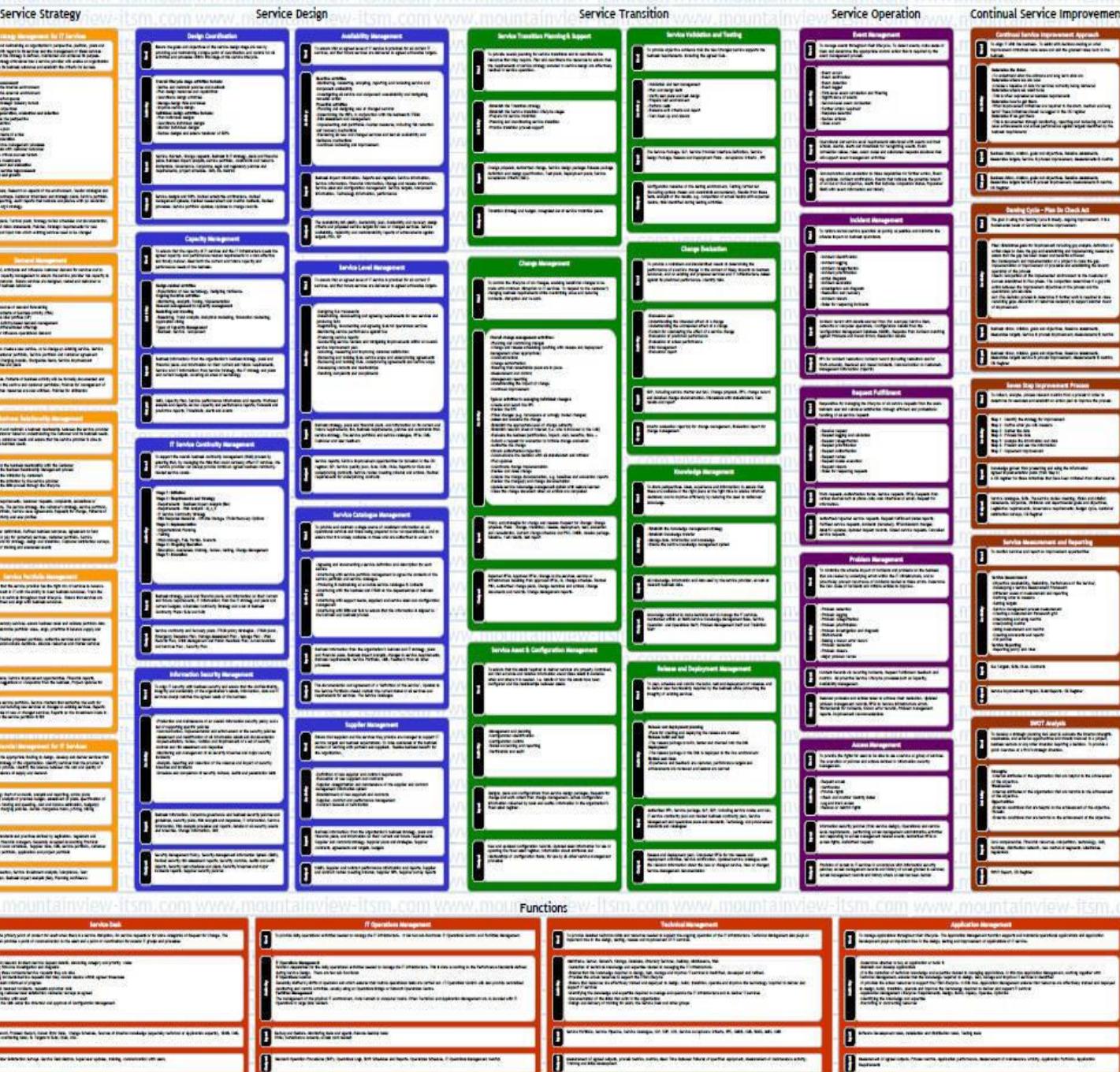
ITIL Area



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Version 3.11.4

Mountainview ITSM
Accredited Training & Courseware
www.mountainview-itsm.com

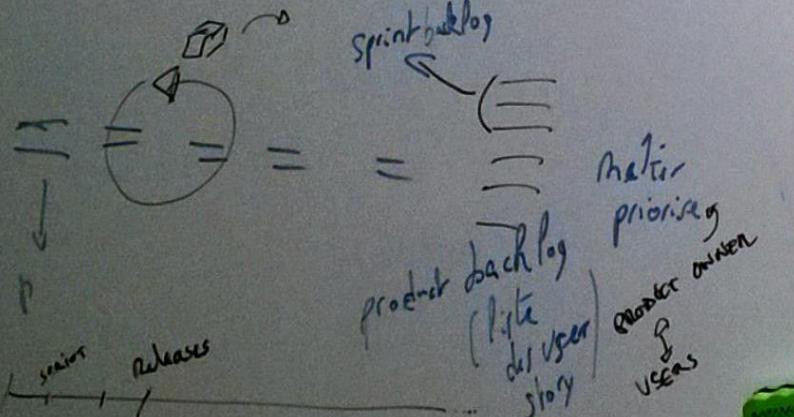
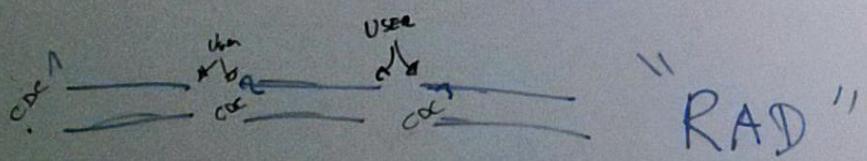
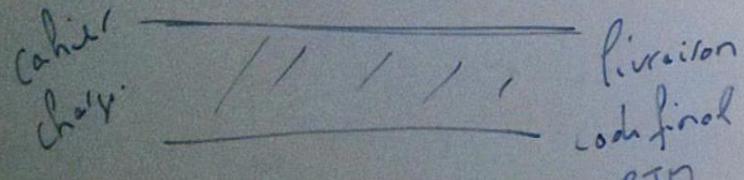
ITIL™ Edition 2011 Processes & Functions





ITIL possible de faire plus simple ?

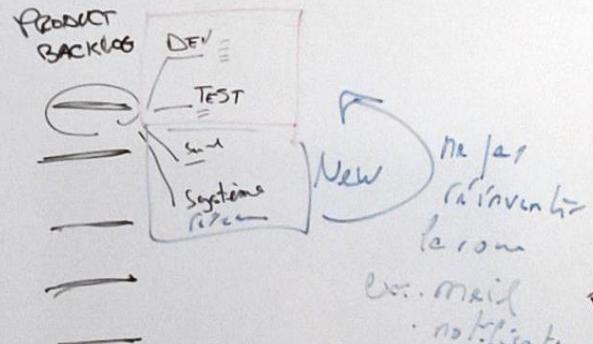
Méthodes Dev



sprint = durée régulière

prédictible
planification

cultivée



SCRUM = milie



VELOCITÉ

victor story → estimation points

sprint = durée fixe



moyenne de point par sprint

Outils

INTEGRER L'IT

RAS DE FRUSTRATION
si PLANIF + ANTICIP.

NEDE VOCABULAIRE

Prérequis ?

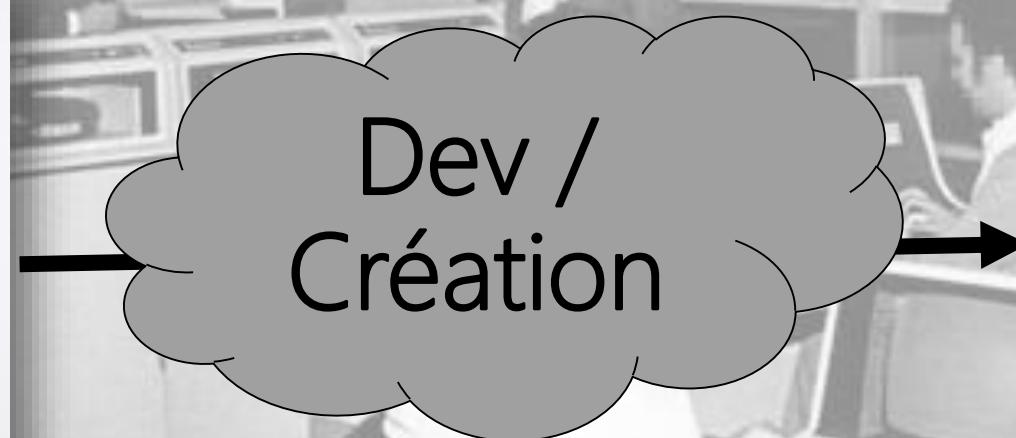
Par où commencer ?

En brefs méthodes

Méthode de travail – côté développeurs



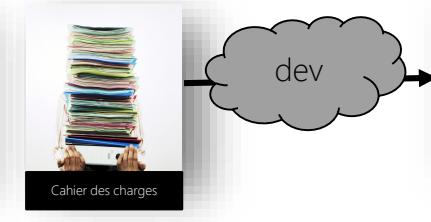
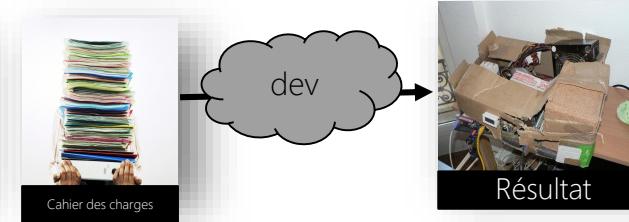
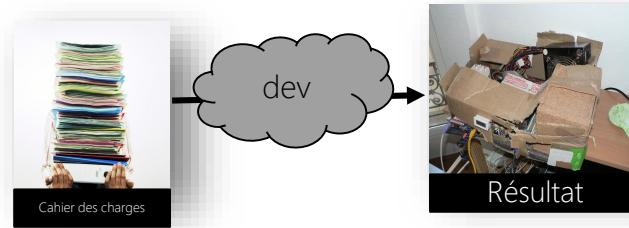
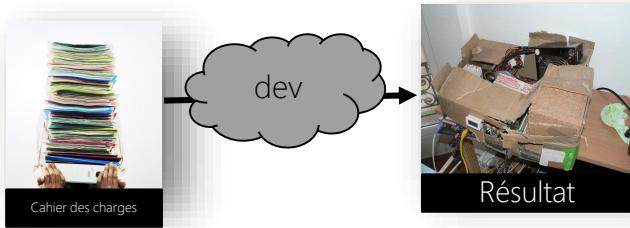
Cahier des charges



Résultat

Méthode de travail – côté développeurs

« Nouvelle » approche : On découpe⁽¹⁾



$$\begin{matrix} \text{Mauvais} \\ + \\ \text{Mauvais} \end{matrix} \quad = \quad \text{Mauvais}$$



⁽¹⁾ mais on ne met pas à jour le besoin

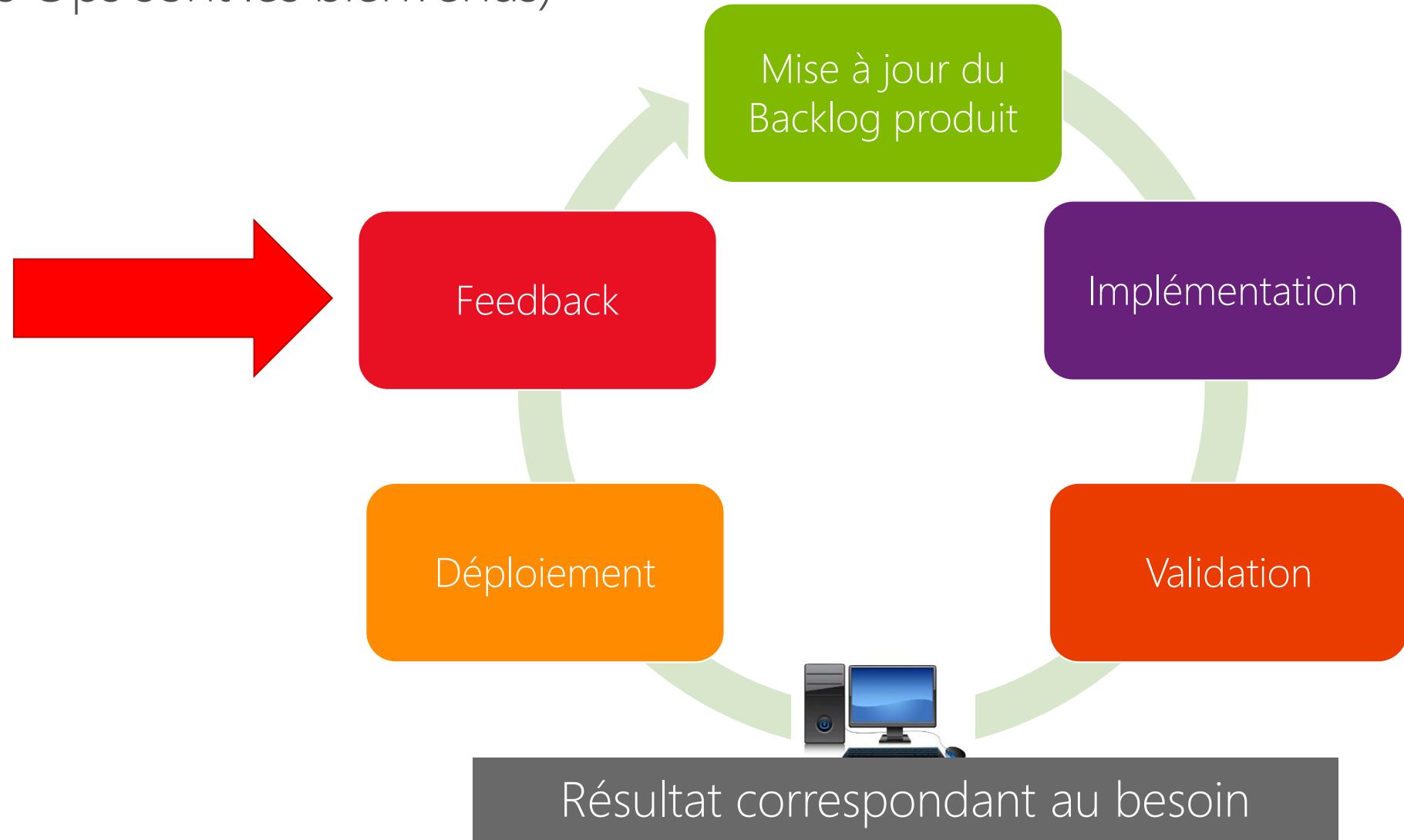
Méthode de travail - côté développeurs

- Méthodes traditionnelles : métaphore du BTP
- Méthodes agiles : autres métaphores plus adaptées
- Scrum = mêlée au rugby



Méthode de travail - côté développeurs

(les Ops sont les bienvenus)



Feature Suggestions

Welcome to the Windows Phone Feature Suggestion Box! Please vote feature suggestion or submit your own!

We've created this site as a tool to help Microsoft understand how customers use Windows Phone and we welcome your feedback.

Standard Disclaimer – our lawyers made us put this here ;-) Please note that the Windows Phone Feature Suggestion Box is moderated and is a voluntary participation-based project, and if your submission is not a product feature suggestion it may be removed. Please do not send any novel or patented ideas, copyrighted materials, samples or demos which you do not want a license to Microsoft. See the "Terms of Use" link below for more information. Please limit your suggestions to 25 words or less.

CAST YOUR VOTES! – community feedback is active and growing ... As a result, we are going to increase the number of votes you have available for your favorite suggestions from 10 to 20. Keep those suggestions coming!

Please enter your feature suggestion...

Enter your idea here

Hot ideas	Top	New	Category
Status	My feedback		

Enter your idea here

Hot ideas	Top	New	Category
Status	My feedback		

52,085
votes

Cortana Should Speak and Understand My Language - Release It Worldwide

Vote

Stan

stan@microsoft.com

I agree to the terms of service

1 vote

2 votes

3 votes

4,957
votes

Vote

Branding should be named just Lumia. not Microsoft.

The Branding of the Microsoft phones should say Lumia in front not Microsoft. It looks really ugly and the name is too long. Lumia is just right and its a cool name.

754 comments · Hardware · Flag idea as inappropriate...

Marketplace 12,200

Messaging 2,353

Music + Videos 3,075

Office Mobile 606

Operating System 4,796

People and Contacts 1,544

Pictures 626

Power Management 331

Search 405

Security 806

Speech 613

Sync 650

Update 1,394

Web Browsing 11,187

Windows Live 280

Search



Give feedback

Windows Phone

35,539
votes

Windows Phone needs more personalization – like support for background themes and pictures

Vote

(General Feedback)

New and returning users may [sign in](#)

Do you have an idea or suggestion based on your experience with Azure? We would love to hear it! Please take a few minutes to submit your idea in the one of the forums available on the right or vote up an idea submitted by another Azure customer. All of the feedback you share in these forums will be monitored and reviewed by the Microsoft engineering teams responsible for building Azure.

This forum (General Feedback) is used for any broad feedback related to Azure. If you have feedback on a specific service such as Azure Virtual Machines, Web Sites, or SQL Database, please submit your feedback in one of the forums available on the right.

Remember that this site is only for feature suggestions and ideas!

If you have technical questions or need help with Azure, please try [StackOverflow](#) or visit our [MSDN forums](#)

I suggest you ...

- enter your idea (new feature, new scenario, etc) -

Hot Top ideas New Category ▼ Status ▼ My feedback ▼

729

votes

Vote

Reduce cloud costs, specifically storage and bandwidth

Cloud computing might be tempting when you are just starting a company because you don't need to worry about having your own infrastructure. But as you host more and more storage and demand more and more bandwidth, the current cost per GB models become pricey.

(General Feedback)

[Post a new idea...](#)

[All ideas](#)

[My feedback](#)

Availability 42

[azure.microsoft.com](#) 96

Offers 31

Search



Give feedback

[\(General Feedback\)](#) 103

[Additional Services](#) 21

[API Management](#) 50

[Azure Active Directory](#) 77

[Azure Automation](#) 32

[Azure Backup](#) 34

[Azure Pack](#) 122

Par où commencer ? L'organisationnel

- Penser amélioration continue
- Faire un état des lieux
 - Prendre conscience de là où on est, c'est le début de l'amélioration
- Commencer sur un périmètre réduit : une application, un espace géographique...
 - Commencer par une « petite » révolution

De l'importance des feedbacks internes

- Il faut mettre en œuvre un processus et des outils de collecte des feedbacks
- Chaque membre de l'équipe doit pouvoir participer
- La boîte à idée moderne :
 - Version privée de user voice ?
 - Forum privé ?
 - Yammer ?
 - Newsgroups

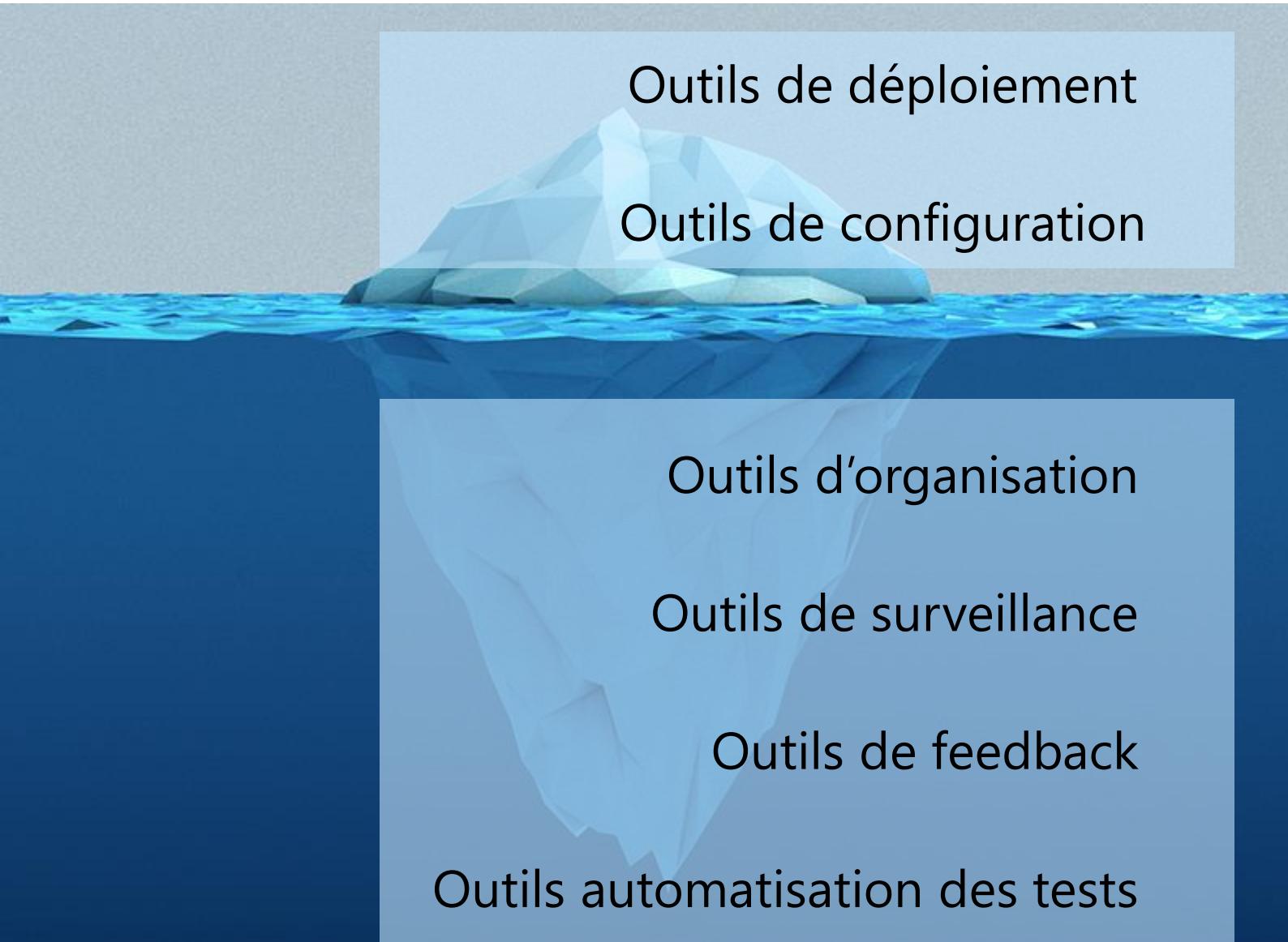


Le bon artisan a les bons outils

DevOps : quels outils
technologiques ?



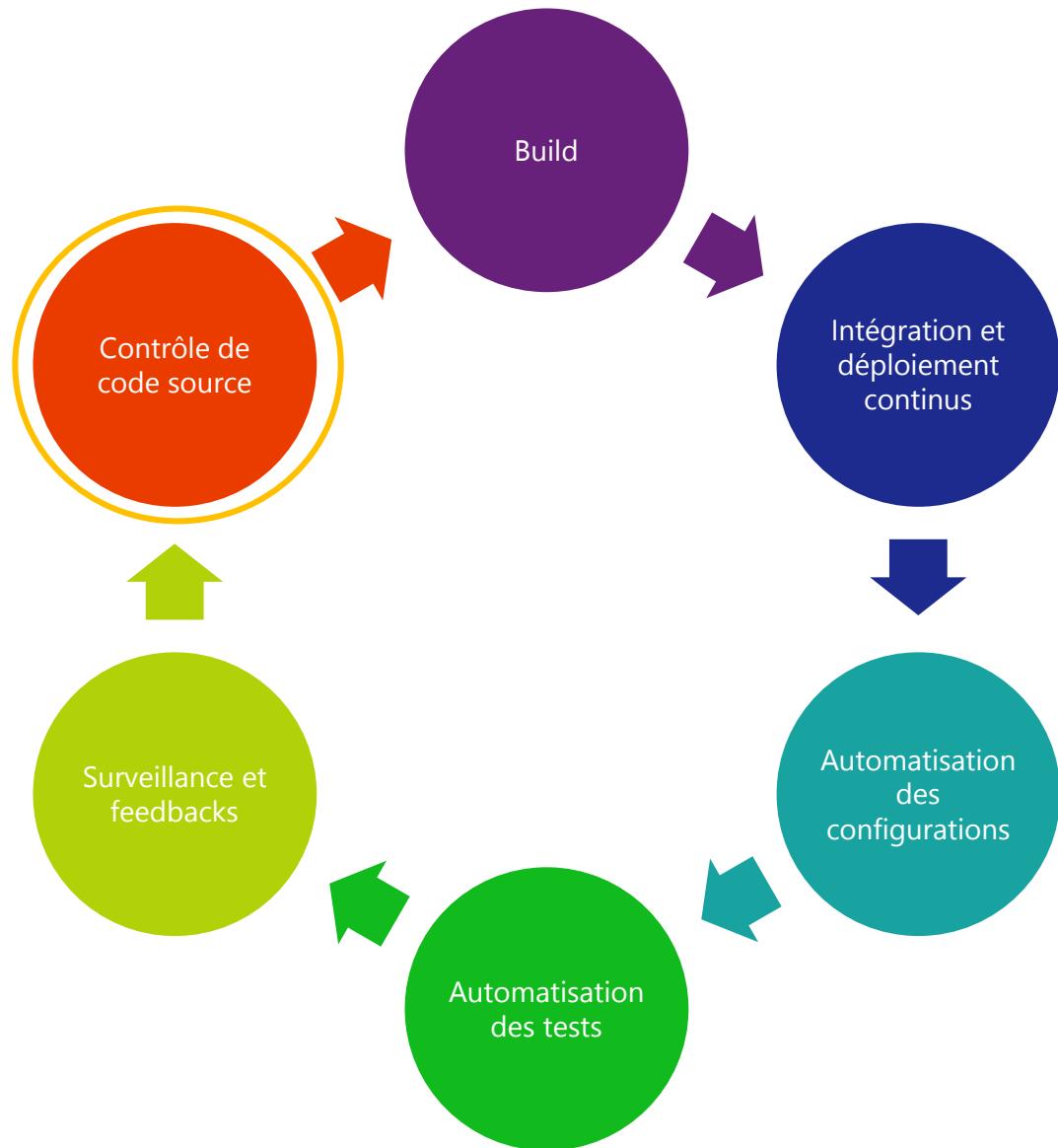
Par où commencer ? Les outils



Souvent DevOps
est perçu comme
« du déploiement
continu » dans
l'esprit des gens...

Les outils ce n'est
pas que pour le
déploiement

Contrôle de code source



- Visual Studio Online (TFVC / Git)
- GitHub
- Bitbucket



File Edit View Favorites Tools Help

Visual Studio Online / Keynote J1 Etienne Margraff | ?

HOME CODE WORK BUILD TEST Changeset id

Explorer Changesets Shelvesets

My favorites Team favorites

\$/Keynote J1

BuildProcessTemplates

src

app client thirdparty TIPDemo tools web .tfignore drop.bat

\$/Keynote J1/src

Contents History

Path: \$/Keynote J1/src

Name	Last Change	Comments
[..]	07/01/2015	
app	10/01/2015	
client	07/01/2015	
thirdparty	07/01/2015	
TIPDemo	22/01/2015	
tools	07/01/2015	
web	07/01/2015	
.tfignore	07/01/2015	

https://github.com/BabylonJS/Babylon.js GitHub, Inc. [US] BabylonJS/Babylon.js · GitHub

File Edit View Favorites Tools Help

Babylon.js: a complete JavaScript framework for building 3D games with HTML 5 and WebGL

1,017 commits 1 branch 35 releases 43 contributors

branch: master Babylon.js / +

Still fixing latest small issues

deltakosh authored Feb 9, 2015 latest commit d7a08c8a03

File	Description	Date
Babylon	Still fixing latest small issues	Feb 9, 2015
Exporters	fix Blender export	Jan 22, 2015
Previous releases	Moving previous releases	Oct 29, 2014
References	DepthRenderer	Jan 23, 2015
Tools	Updated gulpfile and buildyourownbabylonjs	Feb 4, 2015
.gitignore	Updating missing references for PolygonMeshBuilder	Jan 8, 2015
.gitmodules	DAE Exporter	Dec 5, 2013
Oimo.js	Update Oimo.js	Jan 15, 2015
babylon.1.14-debug.js	v1.14	Oct 23, 2014
babylon.1.14.d.ts	OculusGamepadCamera	Oct 16, 2014
babylon.1.14.js	v1.14	Oct 23, 2014
babylon.2.0-beta.debug.js	Still fixing latest small issues	Feb 9, 2015
babylon.2.0-beta.js	Still fixing latest small issues	Feb 9, 2015
babylon.2.0.d.ts	Fixing bug with CreateScreenshot	Feb 1, 2015

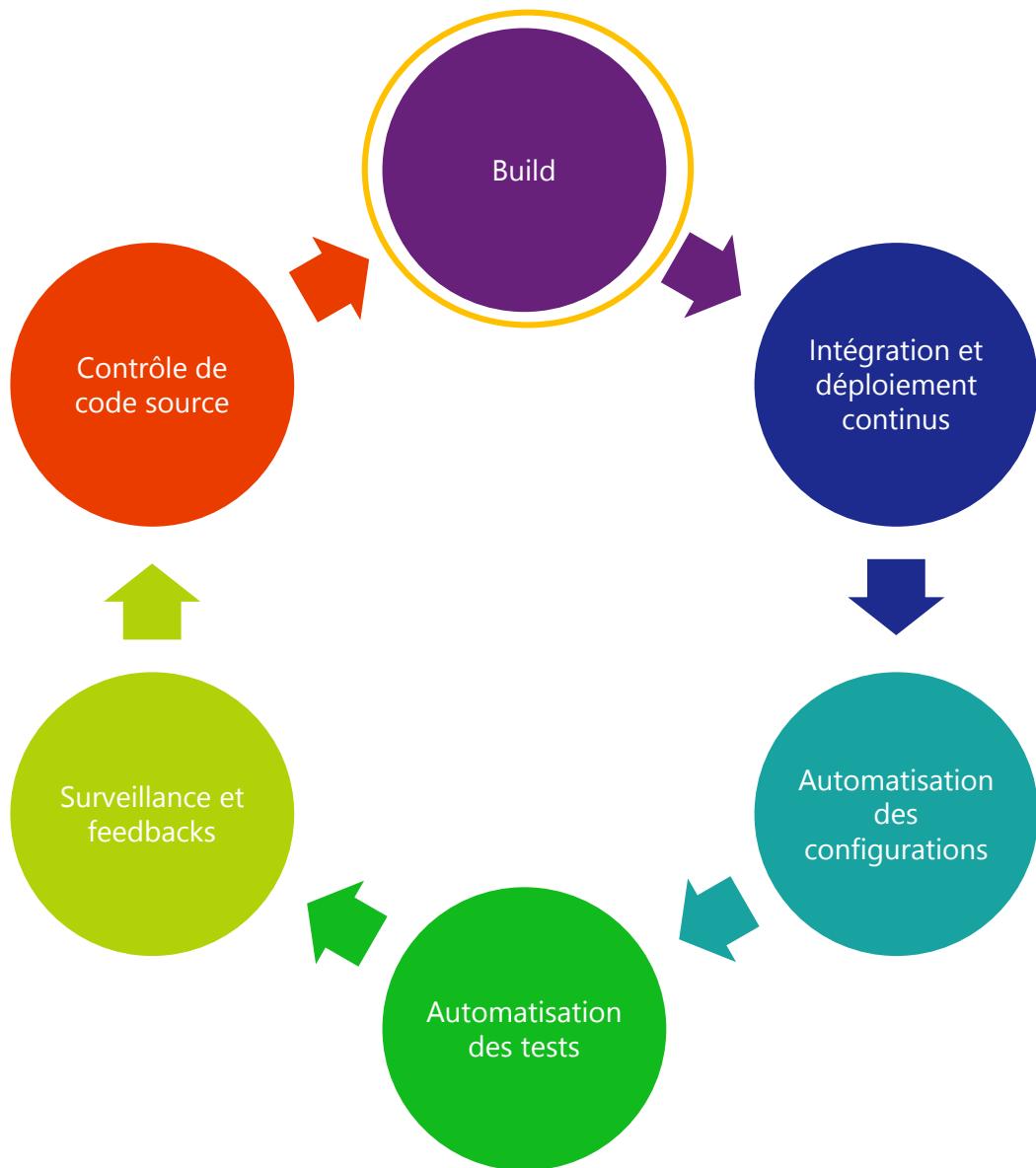
Code Pull Requests Wiki Pulse Graphs

HTTPS clone URL <https://github.com/l>

You can clone with [HTTPS](#) or [Subversion](#).

Clone in Desktop Download ZIP

Build : Compilation et packaging



- Visual Studio Online (Build System)
- Jenkins
- Teamcity



https://dxtefr.visualstudio.com/DefaultCollection/Keynote%20J1

All build definitions - Micro... X

File Edit View Favorites Tools Help

Visual Studio Online / Keynote J1 Etienne Margraff | ?

HOME CODE WORK BUILD TEST Search work items

Actions ▾

Search build definitions...

All build definitions

Queued Completed Deployed Quality Any Date Last 28 days by Anyone

Queue build...

	Name	Build Definition	Build Qu...
✓	Mobile App_20150114.10	Mobile App	
✗	Mobile App_20150114.9	Mobile App	
✗	Mobile App_20150114.8	Mobile App	
✓	Mobile App_20150114.7	Mobile App	
✓	Mobile App_20150114.6	Mobile App	
✓	Mobile App_20150114.5	Mobile App	
✓	Mobile App_20150114.4	Mobile App	
✓	Mobile App_20150114.3	Mobile App	
✗	Mobile App_20150114.2	Mobile App	

My favorites

No favorite build definition found.

Team favorites

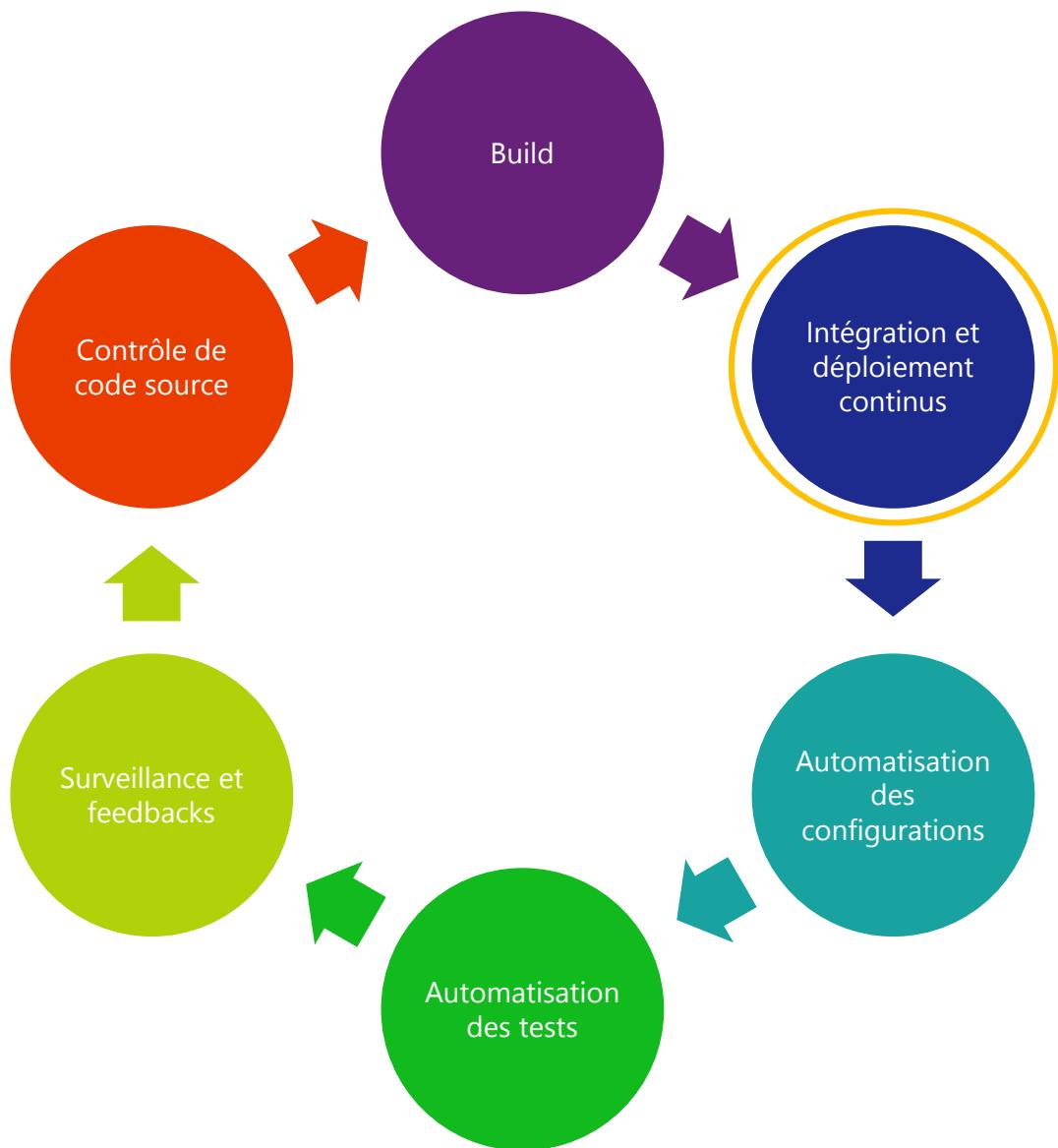
No team build definition found.

Build definitions

All build definitions

Mobile App

Intégration et déploiement continu



- Outils de déploiement
 - VS Release Management
 - Teamcity
- Plateforme de déploiement (IaaS)
 - Microsoft Azure
 - Amazon AWS



PREVIEW

Microsoft Azure

Stanislas Q.
MICROSOFT 



HOME



NOTIFICATIONS



BROWSE



ACTIVE



BILLING



What's new



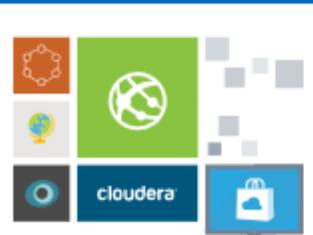
Browse all



Consommation interne de la plateforme Windows...



Help + support



Marketplace

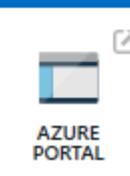
Billing
SERVICES DE LA PLATEFORME WINDOWS AZURE POUR VISUAL STU...



CREDIT LEFT
113.40 EUR
SUBSCRIPTIONS
3



Feedback



AZURE
PORTAL



Portal settings



NSG01-stan



Amazon Web Services

Compute



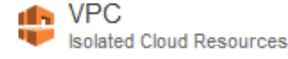
Storage & Content Delivery



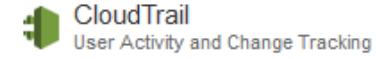
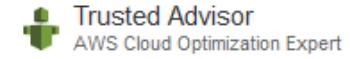
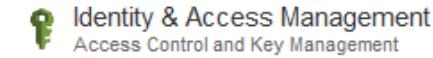
Database



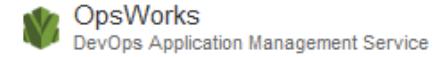
Networking



Administration & Security



Deployment & Management



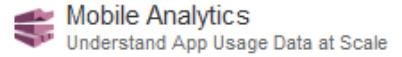
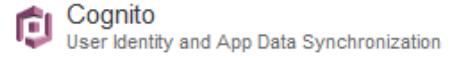
Analytics



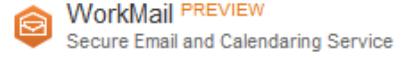
Application Services



Mobile Services



Enterprise Applications



Additional Resources

Getting Started

See our documentation to get started about how to use our services.

AWS Console Mobile App

View your resources on the go with the AWS mobile app, available from the Appstore, Google Play, or iTunes.

AWS Marketplace

Find and buy software, launch with by the hour.

Service Health

All services operating normally

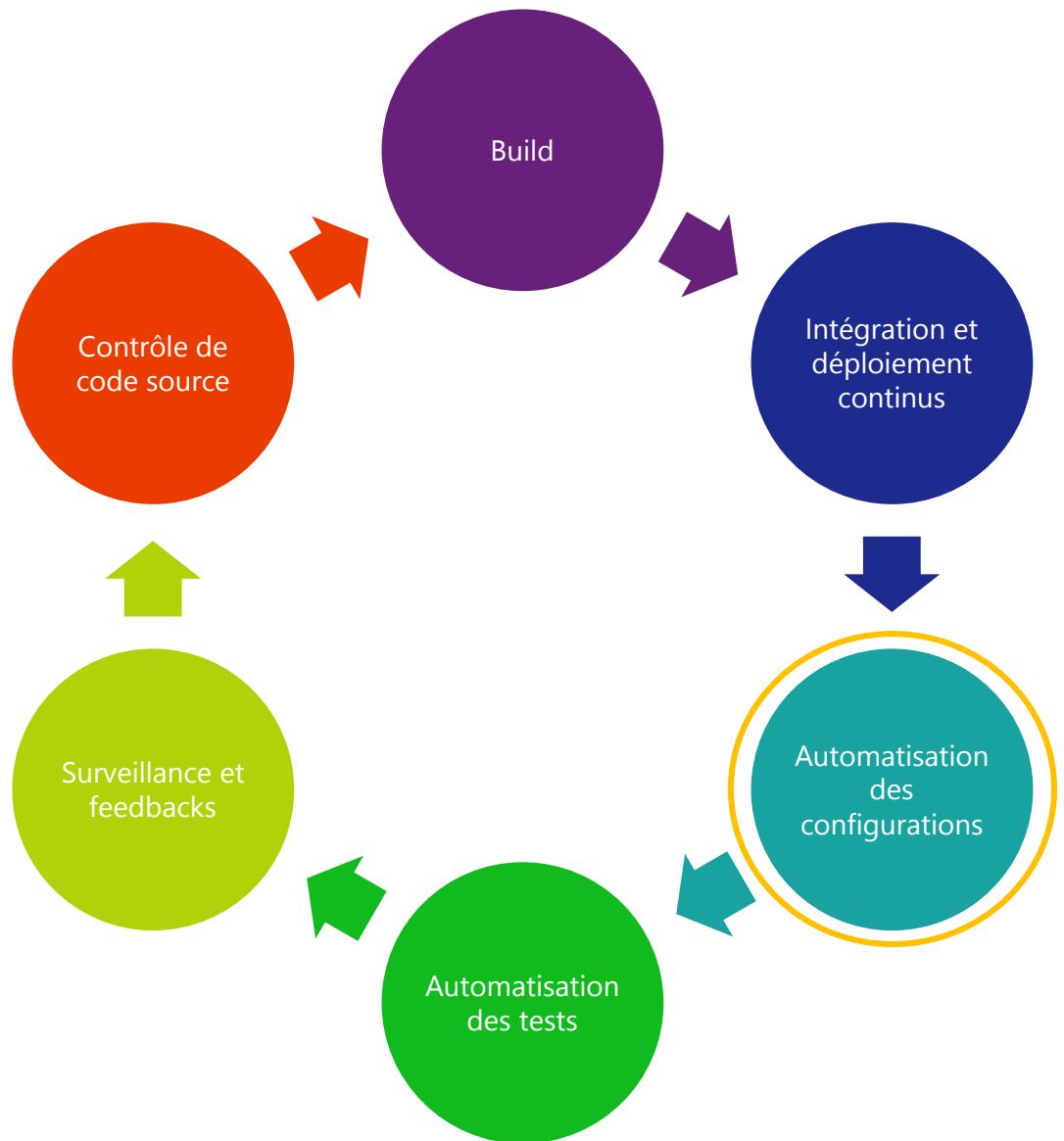
Updated: Feb 05 2015 18:47:00 GMT+0100

[Service Health Dashboard](#)

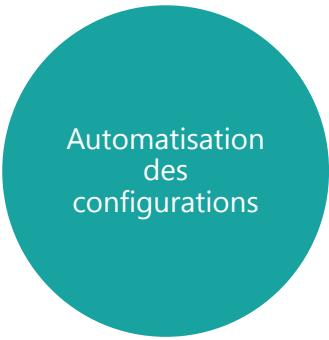
Set Start Page

[Console Home](#)

Automatisation des configurations



- SC Configuration Manager
- PowerShell DSC
- Chef
- Puppet
- Salt





SetTimeZone.ps1 x

```
9  #Requires -version 4.0
10 Configuration SetTimeZone
11 {
12     Param
13     (
14         #Target nodes to apply the configuration
15         [String[]]$NodeName = ((Get-ADComputer -Filter *).name),
16         [Parameter(Mandatory = $true)]
17         [ValidateNotNullOrEmpty()]
18         [String]$SystemTimeZone
19     )
20 }
```

```
PS C:\> icm -cn $cn -ScriptBlock {Invoke-Expression "cmd.exe /c time /t"}
```

```
02:38 PM
02:38 PM
02:38 PM
02:38 PM
```

```
PS C:\>
```

Stopped

Ln 7 Col 9

140%



CREATE A VIRTUAL MACHINE

Virtual machine configuration

VM AGENT ?

-
- Install the VM Agent

CONFIGURATION EXTENSIONS ?

-
- Puppet Enterprise Agent

Published by:  Puppet Labs | [Learn more](#) | [Legal terms](#)

-
- Chef

Published by:  Chef Software, Inc. | [Learn more](#) | [Legal terms](#)

-
- Custom Script

Published by:  Microsoft

SECURITY EXTENSIONS ?

-
- Microsoft Antimalware

Published by:  Microsoft | [Learn more](#) | [Legal terms](#)

-
- Symantec Endpoint Protection

Published by:  Symantec | [Learn more](#) | [Legal terms](#)

-
- Trend Micro Deep Security Agent

Published by:  Trend Micro | [Learn more](#) | [Legal terms](#)

LEGAL TERMS

If any third-party extensions have been selected for installation, I acknowledge that I am getting such software from the third-party publishers identified above and that such publishers' legal terms and privacy

Windows Server 2012
R2 Datacenter

At the heart of the Microsoft Cloud OS vision, Windows Server 2012 R2 brings Microsoft's experience delivering global-scale cloud services into your infrastructure. It offers enterprise-class performance, flexibility for your applications and excellent economics for your datacenter and hybrid cloud environment. This image includes Windows Server 2012 R2 Update.

OS FAMILY

Windows

PUBLISHER

Microsoft Windows Server Group

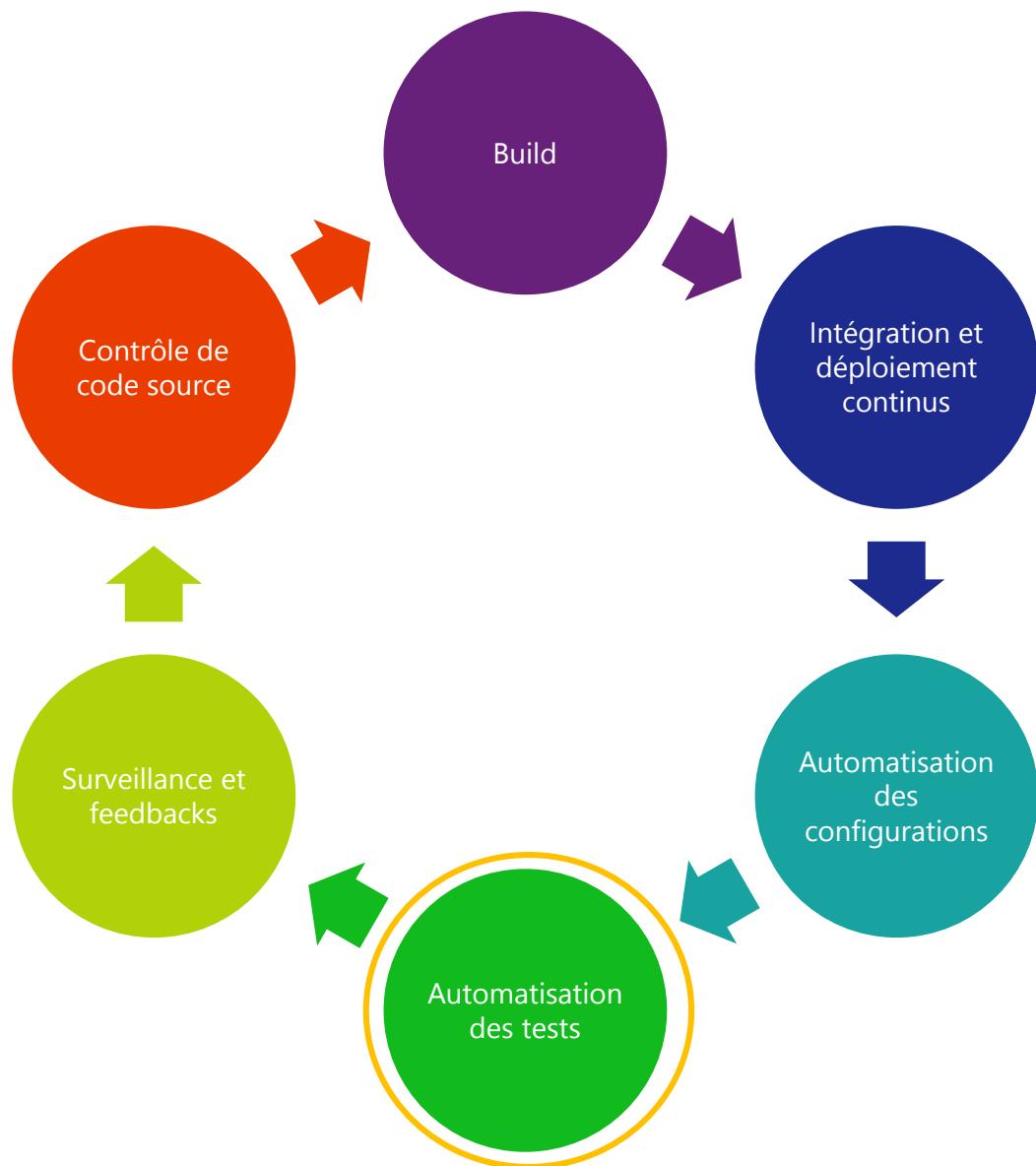
NUMBER OF
DISKS

1

PRICING INFORMATION

Pricing varies based on the subscription you select to provision your virtual machine.

Automatisation des tests



- Visual Studio Premium (Coded UI tests)
- QTP
- TestComplete



TestComplete - C:\Users\Public\Documents\TestComplete 8 Projects\AjaxInventoryClientTestSuite\AjaxInventoryClientTestSuite.pjs

File Edit View Test Debug Tools Help

New | Project Explorer Object Browser

Project Explorer

AjaxInventoryClientTestSuite

- AjaxInventoryProject
 - Advanced
 - Script
 - KeywordTests
 - EntryFormTest
 - LoginAction
 - LogoutAction
 - SetupTestData
 - VerifyPostedData
 - NameMapping
 - Stores
 - TestedApps
 - iexplore
- AjaxInventoryClientTestSuite Logs
 - AjaxInventoryProject Logs
 - Keyword Test Log [SetupTestData]
 - Keyword Test Log [SetupTestData]

Object Browser

Workspace

Start Page X VerifyPostedData X LoginAction X SetupTestData X Keyword Test Log [SetupTestData]...

Settings

TestComplete™
Version 8.0.161.7

Record a New Test Open an Existing Project Create a New Project TestComplete Interactive Help

Recent Projects

- SilverlightInventoryClientTestSuite
- WPFInventoryClientTestSuite
- FlexInventoryClientTestSuite

Getting Started

Start Here: Video Tutorials
Learn TestComplete basics quickly.

Step-by-Step Text Tutorial
Follow the tutorial steps to learn how to record and run tests and how to create checkpoints.

Links and Resources

[Send a question to support team](#) [TestComplete Samples](#) [Forums](#)

[Blogs](#) [Screencasts](#)

Project Explorer Code Explorer

Bookmarks Search/Replace Results To Do

CAPS NUM SCRL

QuickTest Professional - [Test*]

File Edit View Insert Automation Resources Debug Tools Window Help

New Open Record Run Stop

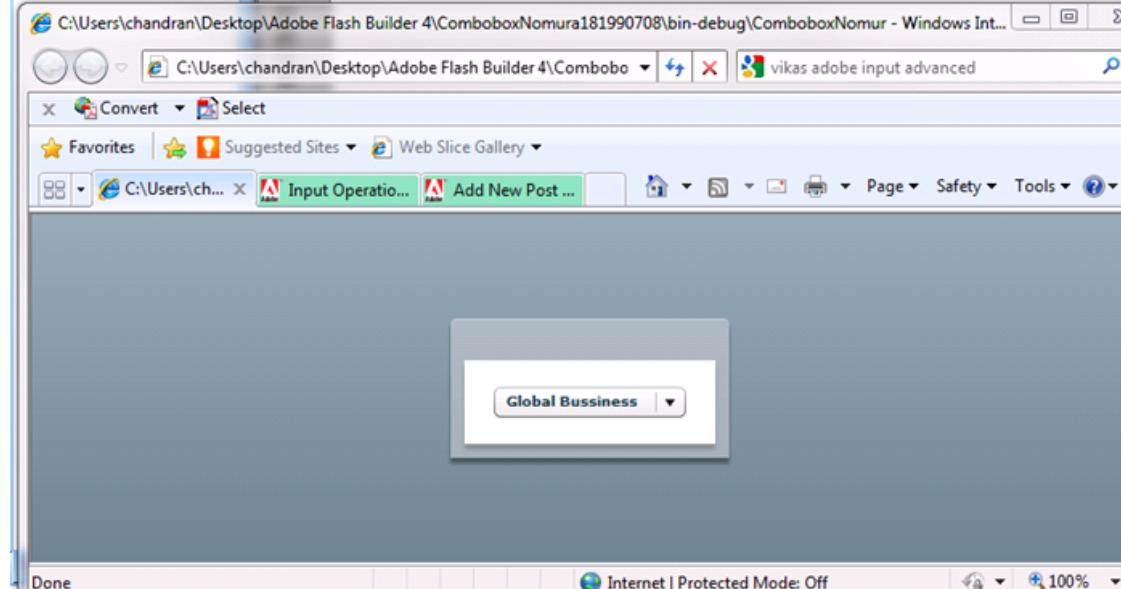
Test Flow Start Page Test

Action1

```

1: Browser("Browser").FlexApplication("ComboboxNomura181990708").FlexPanel("testComboBox").FlexComboBox("ComboBox1").Open
2: Browser("Browser").FlexApplication("ComboboxNomura181990708").FlexPanel("testComboBox").FlexComboBox("ComboBox1").Select "NHA Bussiness"
3:
4: Browser("Browser").FlexApplication("ComboboxNomura181990708").FlexPanel("testComboBox").FlexComboBox("ComboBox1").FlexListLabel("Global Bussiness").Check CheckPoint("Global Bussiness")
5:
6: 'Get the number of automation children
7:
8: num=Browser("Browser").FlexApplication("ComboboxNomura181990708").FlexPanel("testComboBox").FlexComboBox("ComboBox1").GetROProperty ("numautomationchildren")
9: print "Number of Automation Children :"&num
10:
11: 'Loop through them
12:
13: For i=0 to num-1
14:
15: 'Select the node inside the combobox by using GetAutomationChildAt method
16: set getNode=Browser("Browser").FlexApplication("ComboboxNomura181990708").FlexPanel("testComboBox").FlexComboBox("ComboBox1").GetAutomationChildAt(i)
17:
18: 'Access the properties of the node specified above using GetROProperty
19: getautomationname=getNode.GetROProperty("automationname")
20: getautomationindex=getNode.GetROProperty("automationindex")
21: print "AutomationIndex :"&getautomationindex & " AutomationName :"&getautomationname
22: Next
23:
24:
25:
26:

```



Object Repository - All Object Repositories

Action: Action1

Object Properties

- Name: Global Bussiness
- Class: FlexListLabel
- Repository: Local

Test object details

Name	Value
Description properties	classname: mx.controls.listClasses.ListItemRen...
automationname	Global Bussiness
automationindex	index:0
Ordinal identifier	Type: Value Value: None
Additional details	Enable Smart Identification: False
Comment	

QuickTest Print Log

File

Number of Automation Children :5

AutomationIndex : index:0 AutomationName : Global Bussiness

AutomationIndex : index:1 AutomationName : NSC Bussiness

AutomationIndex : index:2 AutomationName : Asia Bussiness

AutomationIndex : index:3 AutomationName : EMEA Bussiness

AutomationIndex : index:4 AutomationName : NHA Bussiness



Actions de l'interface utilisateur

◀ AssertForAddTwoNumbers

Vérifier que la propriété 'ControlType' de la zone de texte 'text...'

▶ RecordedMethod1

Mappage de contrôle d'interface utilisateur

◀ UIMap

▶ UIUserPromotedNotificationWindow

▶ UIItemWindow

▶ UIProgramManagerWindow

◀ UIAddtwonumbersWindow

▶ UITextBox1Window

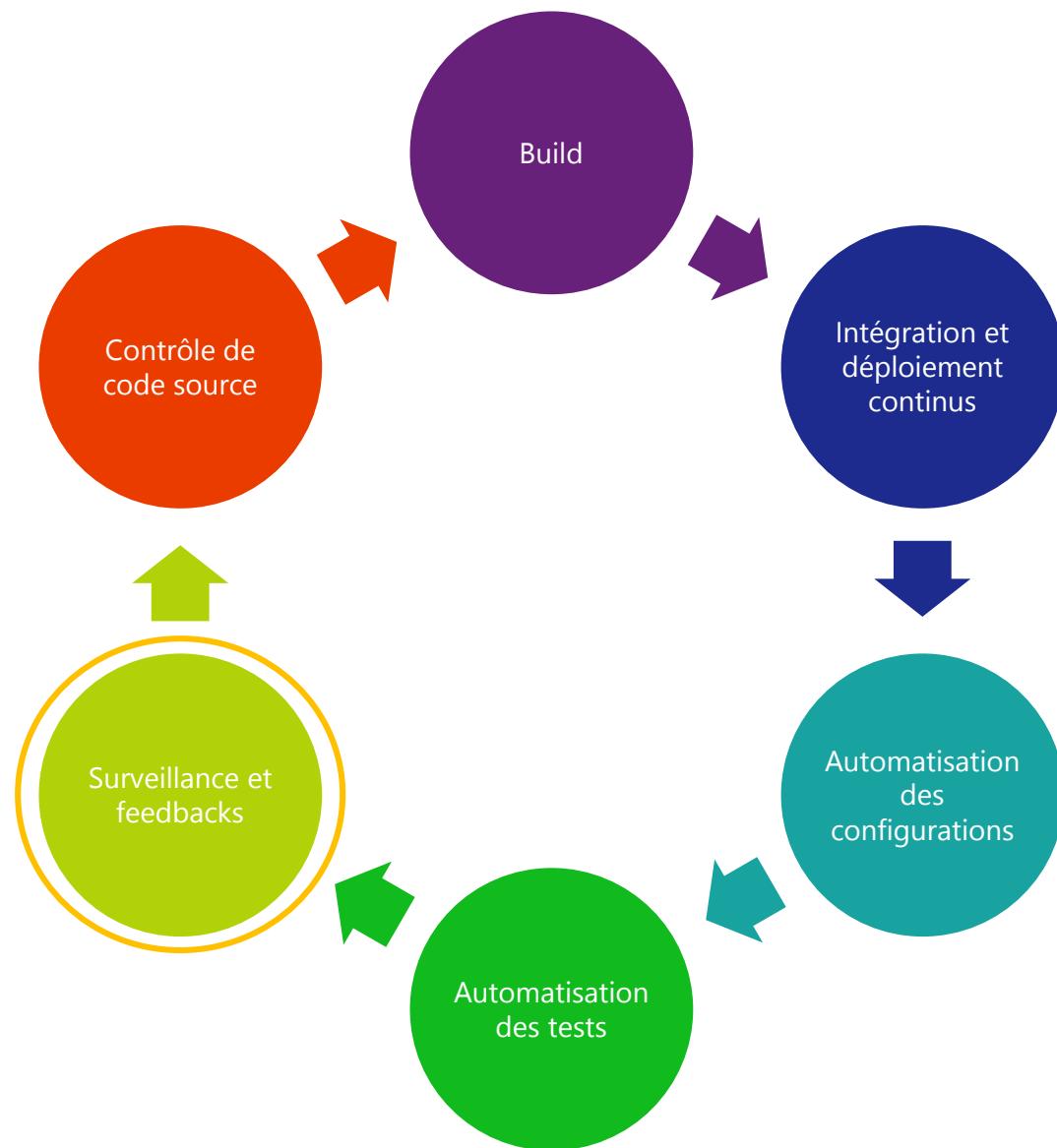
▶ UITextBox2Window

▶ UIAddWindow

◀ UITextBox3Window

UITextBox3Edit

Surveillance et feedbacks



- Surveillance
 - SC Operation Manager
 - Azure Operational Insight
- Collecte feedbacks
 - Uservoice.com
 - Getsatisfaction.com



Overview

Configuration Assessment

0 Servers with Alerts based on
352 rules**12** Servers with
Recommendations based
on 3.4K KB articles**52**

Server Analyzed

Malware Assessment

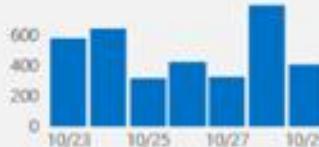


0 Servers with Active Threats

2 Servers with Inadequate Protection



Change Tracking

660Software changes in
the last 24 hours**445**Windows service
changes in the last 24
hours (excludes Status)

Log Management

Records over the last 24 hours
13.8M
Total Records (all time)

Capacity Planning

70.3 %

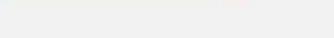
Available Cores

46.6 %

Available Memory

85.8 %

Available Storage



Intelligence Packs



Search Data Explorer

SQL Assessment

16

Servers Assessed

16Prioritized
RecommendationLast Assessed
Wed Oct 29 2014**11.9MB**

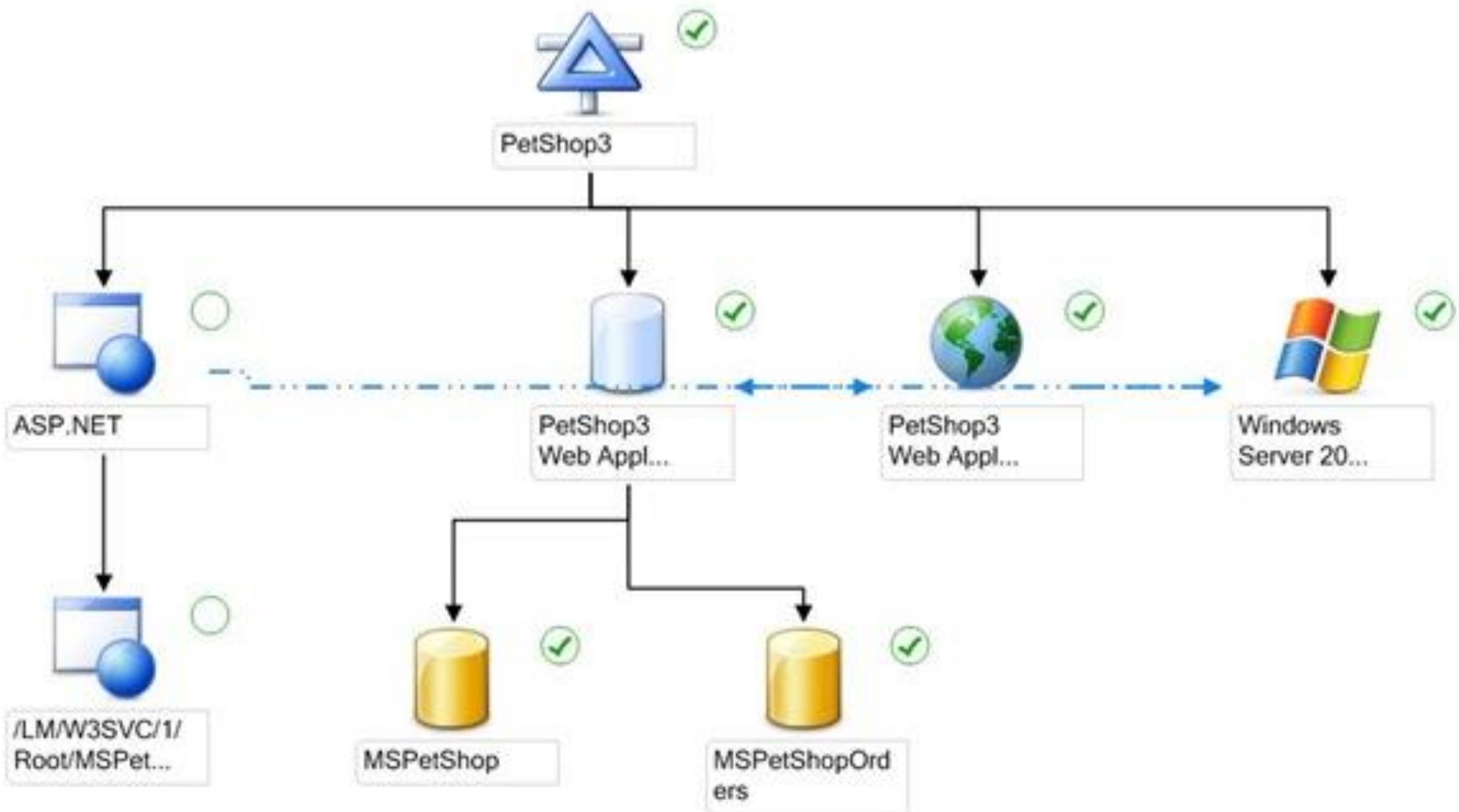
Servers and Usage



My Dashboard

Feedback

?



On termine en images !!!

Synthèse

Rassembler et collaborez



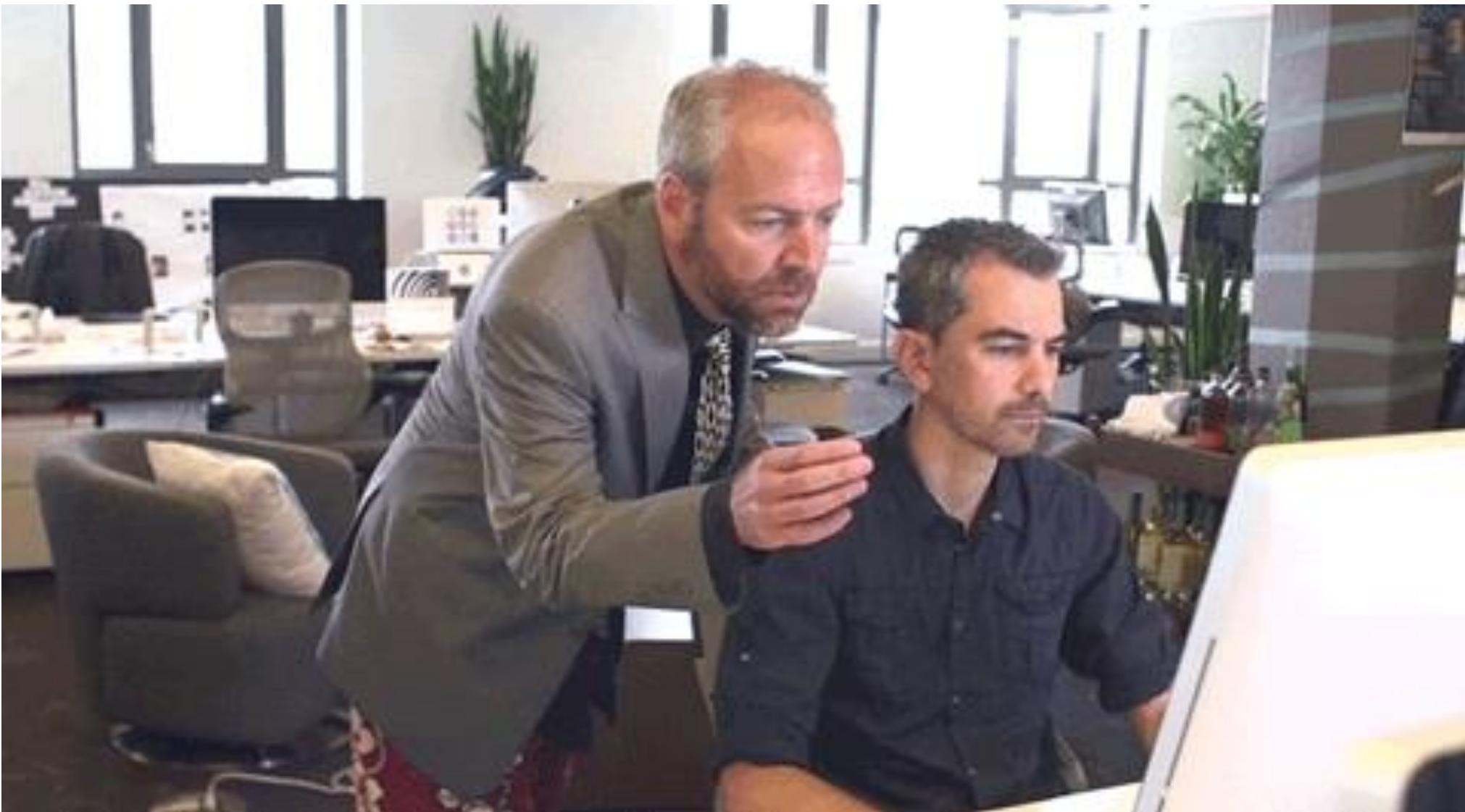
Tous responsables



Outiller, industrialiser, déployer en continu



Orienté business et demandes des métiers



Méthodologie en perpétuelle amélioration



Merci !!! Vous êtes prêts pour vous lancer et assister aux autres sessions DevOps



■ Donnez votre avis sur :

<http://notes.mstechdays.fr>

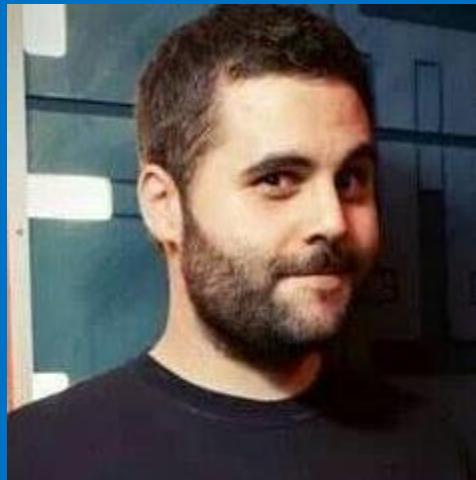


Merci de nous aider à améliorer les Techdays !!

Retrouvez nous sur la Microsoft Virtual Academy

<http://www.microsoftvirtualacademy.com>

Etienne Margraff



<http://aka.ms/meulta>
Twitter : @meulta

Stanislas Quastana

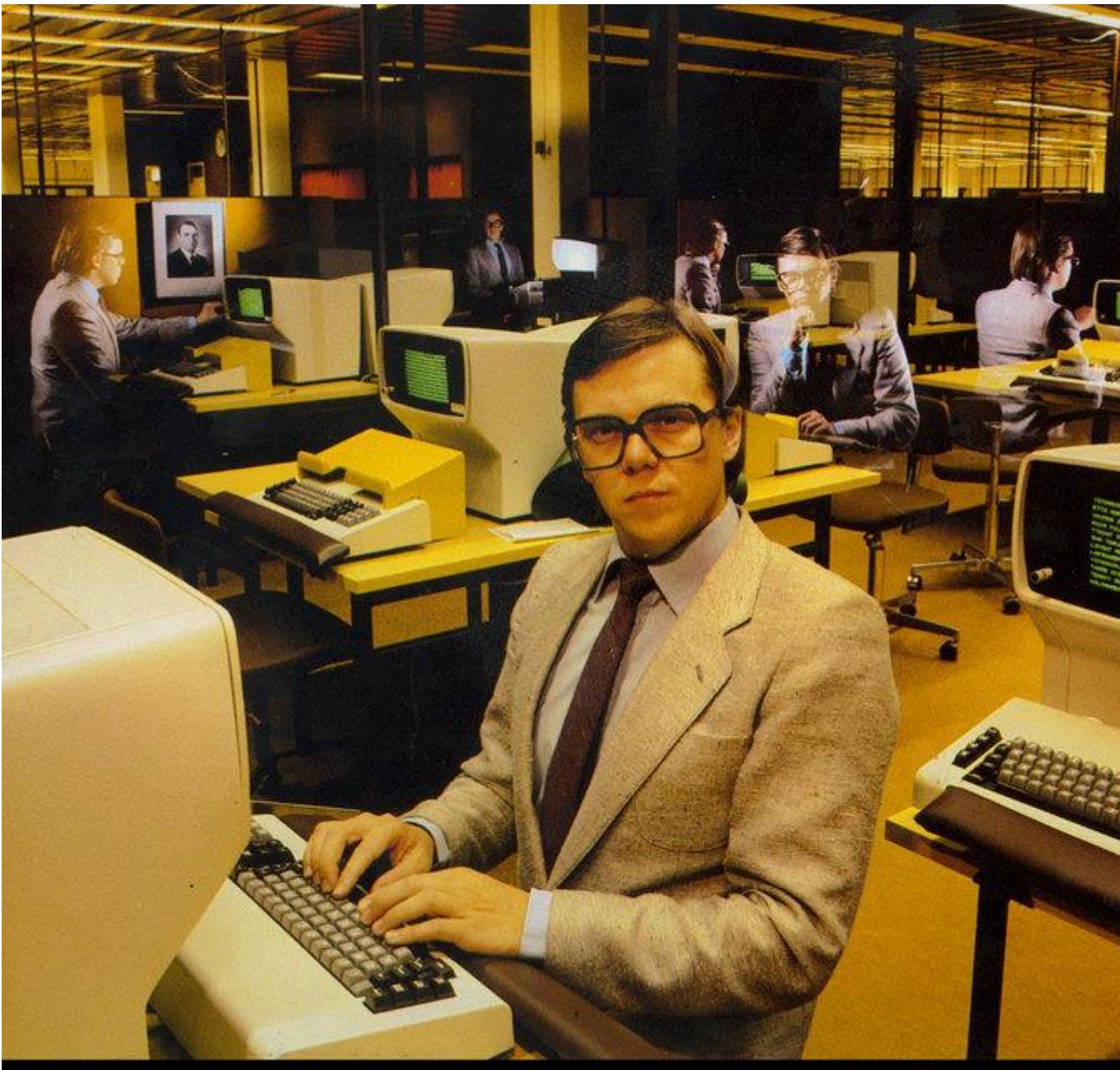


<http://aka.ms/stanislas>
Twitter : @squastana





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What Is This Devops Thing, Anyway?

- What problems are we trying to solve?
- Fear of change
- Risky deployments
- It works on my machine!
- Siloisation