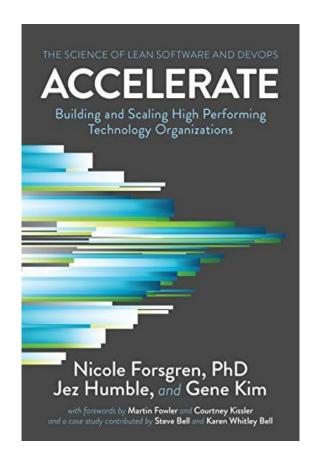


### Devops, Accelerate, DORA



- DORA: DevOps Research & Assessment (racheté par Google)
- Accelerate, State of Devops :
  - Étude annuelle depuis 2014
  - Méthodes scientifiques
  - Trouver ce qui rend un delivery performant
- Accelerate (livre): 2018



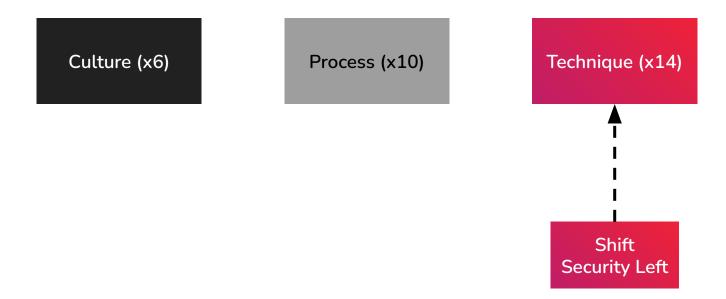




Performance de livraison logicielle	2 Indicateurs de vitesse	Lead Time	Deployment Frequency
	2 Indicateurs de stabilité	MMTR  Mean Time To  Restore	<b>CFR</b> Change Failure Rate

























## Lestate of Devops 2022

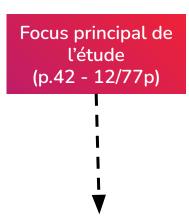


## Securing the software supply chain

In 2021, we found that securing the software supply chain is essential to reaching many important outcomes.

This year we dug deeper on software supply chain security, making it a primary theme of our survey and report. We leveraged the Supply Chain Levels for Secure Artifacts (SLSA) framework to explore technica practices that support the development of software supply chain security. We also used the National Institute for Standards and Technology's Secure Software Development Framework (NIST SSDF) to explore attitudes, processes, and non-technical practices related to securing the software supply chain.

Premier segment de l'exec sum (p4)



U4
Why supply chain security matters



#### **SCS**: Deux framework - complémentaires





NIST → SSDF

Le NIST

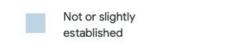
Considérations générales, définir une cible



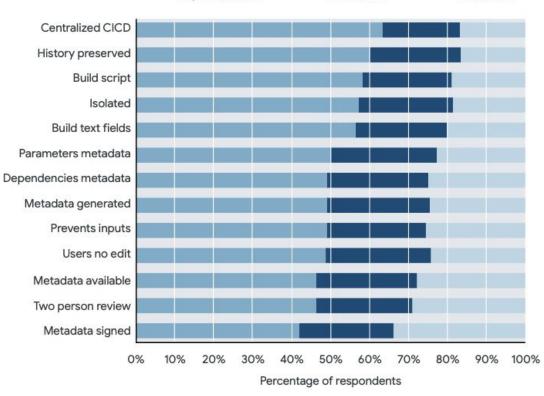
OpenSSF  $\rightarrow$  SLSA

Google, Datadog, Intel, ...

Considérations pratiques / mesure des efforts







Moderately

established

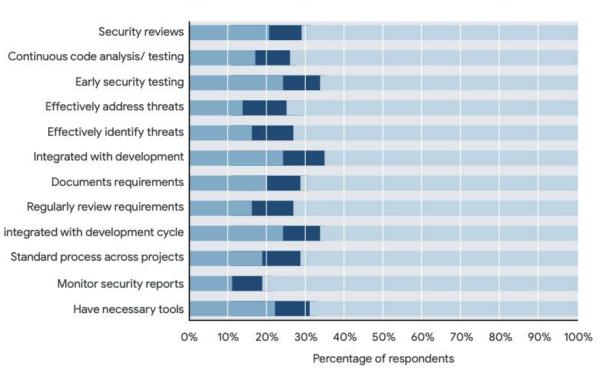
Completely or

very established

Figure 1. Establishment of SLSA practices

Survey responses about the establishment of SLSA practices. A majority of respondents indicated some establishment of all of these practices, but relatively few said they were "completely" established yet.





Agree

Neither agree nor disagree

Figure 2. Establishment of SSDF practices

Survey responses about the establishment of SSDF practices. Similar to SLSA, a majority of respondents agreed that their organization followed all of these practices.



### La sécurité a un problème de posture

« [...] a set of research interviews with professional software engineers found that their touchpoints with security teams were limited to either the start or end of a project, and the teams could be difficult to engage with. In the words of one participant, "We have an application security team, but I have never had my code reviewed by them... I am like most engineers, I avoid them usually." »

#### 2

#### L'impact le plus important sur la SCS



#### ACCELERATE

1-8: Capacités liées à la Livraison Continue 9-10: Capacités liées à l'Architecture 11-14: Capacités liées au Produit & Processus 15-19: Capacités liées au Lean Management 20-24: Capacités liées à la Culture

- CONTRÔLE DE VERSION
- 2 péploiement automatisé
- 3 INTÉGRATION CONTINUE
- DÉVELOPPEMENT À BRANCHE UNIQUE
- 5 AUTOMATISATION DES TESTS
- GESTION DES DONNÉES DE TESTS
- Z LA SÉCURITÉ AU PLUS TÔT
- 8 LIVRAISON CONTINUE

- 9 8
  - ARCHITECTURE FAIBLEMENT COUPLÉE
- ARCHITECTE AU SERVICE
  DES ÉQUIPES AUTONOMISÉES
- FEEDBACKS DES CLIENTS
- 12 FLUX DE VALEUR VISIBLE
- 13 TRAVAIL EN PETITS LOTS
- EXPÉRIMENTATION EN ÉQUIPE
- VALIDATION SIMPLIFIÉE DES CHANGEMENTS
- SURVEILLANCE DU SYSTÈME

17 [



- LIMITES D'ENCOURS
- VISUALISER LE TRAVAIL
- 20 S CULTURE GÉNÉRATIVE

a.k.a Westrum Culture

21



CULTURE DE L'APPRENTISSAGE

- 22 COLLABORATION DANS L'ÉQUIPE
- SENS DANS LE TRAVAIL
- LEADERSHIP TRANSFORMATIONNEL





« This data leads us to believe organizational culture and modern development processes (such as continuous integration) are the biggest drivers of an organization's application development security, and the best place to start for organizations looking to increase their security posture.











« Along with a reduction in perceived
security risks, respondents also
reported less burnout among team
members and an increased willingness
to recommend their organization as a
great place to work » \*

Tools and processes that help them incorporate secure practices into their existing development workflow, as opposed to unplanned work or "fire drills" when a threat is discovered, provide a mechanism for reducing security risks and increasing developer joy.

# MERCI