

GitHub Technical Interview

**French-speaking Solutions Architect
Professional Services org**

Micheli Knechtel

Introducing myself

Micheli Knechtel

Languages: Portuguese, English, French and Spanish

Two Masters Degree and PhD in Optimisation

Architect, developer, teacher and researcher, but above all:
a student & nice person!



+15 years experience in IT



Worked companies



I'm a happy person, motivated and enthusiastic



Customer scenario

What is the problem that we wanna address ?

- The security team is asking for help ensuring proper reviews are being done to code being added into our repositories.
- We have hundreds of repositories in our organization.
- What is the best way we can achieve at scale?

In a holistic point of view ...

The customer scenario that we want to solve is much more than a matter of **automatisation!**

It's about **people, process** and **technology ... working together!**

BUT in this **jungle of hundred repositories**, without automatisation we not going to **survive!**

To improve the Code Review at Scale

We should ...

Define a process

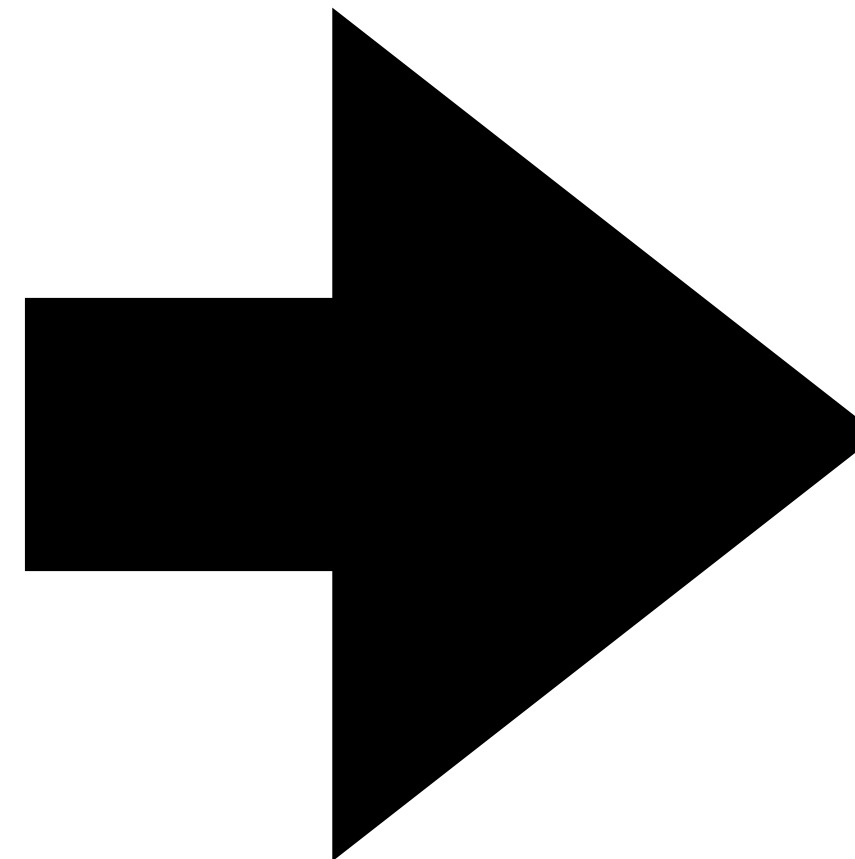
Set Up an Effective Workflow
Make Reviews Accessible to Global Teams
Require Code Reviews Before Merging

Setup a culture

Coaching developers.
Ensuring transparency across teams.
Sharing innovation

identify the technology

softwares
programming language
frameworks



**Have automatisation
as much as you can !!!**

The small piece of code
that I'm gonna present you, is all about that !

Technical solution

Automatisation

The technical solution, requested as part of interview evaluation, consists of :

- **WebHook** that sends an **event when a repository is created**.
- **WebService** that listen to such **event**, and **perform the following actions**:
 1. Create a **readme.md** file, if it does not exist.
 2. Sets protection of the **default branch**.
 3. Add an **issue** with a **@mention** to **outline** that **protection** was added.

Everything seems really good but ...

What is Webhook ?



A webhook is a HTTP callback:
an event-notification via HTTP POST that occurs when something happen !!!

Now that we have a good understanding ...

Let's jump to the demo!