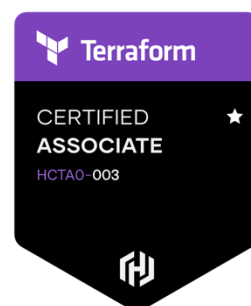...

Changing the project stack at the middle of the game

Rubem Mota @ xgeeks

synvert xgeeks

About Me

- Rubem Mota

- Technical Lead

- Full-Stack Developer

- Devops Enthusiastic

- Working on xgeeks for about 3 years

- Favorite Quote "Teach is learn for a second time"

@rubemlrm

rubemlrm

rubemlrm

01

Project

02

Challenges and Adaptation

03

Outputs

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Project Context

- 4 years of existence
- Kubernetes Runtime
- Multi Cloud
- Adoption facilitator
- Java Monolith
- Monitoring/ logging for Java based
- Pipelines for Java
- Java Kubernetes SDK Limited
- Around 30 Engineers
- 4 Development Squads
- 1 DevOps team

Change is coming

Internal alignment

Possibility of OSS contribution

Integration with internal tooling

"Perfect" Language for this product

Inner sourcing

Reduce resources footprint

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Challenges

Management of expectations

Team reorganization

Change

Leaving comfort zone

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Challenges

Handle project dependencies?

Which tools?

Knowledge

How to implement X?

How do we start?

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Challenges

Lack of confidence on software quality

CI/CD Pipelines

Deliver

Development Standards

Increase time to delivery

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Handle the change

Training

Focus on Cost Reduction

Realistic Migration Plan

Showcase Successful Examples

Align with Business Objectives

Self-growing

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Improve Knowledge

Guild

Project Standards

Training Courses

P.O.Cs

Contribution to OSS

Show and Tell

Implementation Reviews

Deliver Faster and Better

Pipelines

Application scaffold

Development Standards

Project Dependencies

Project tools

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Outputs

Change:

- Alignment with client internal teams

- Extended contribution outside the project itself

- Mindset shift

Knowledge:

- New tool set as a team and as developers

- Contribution to Kubernetes related open-source projects

- Improved know-how on kubernetes internals
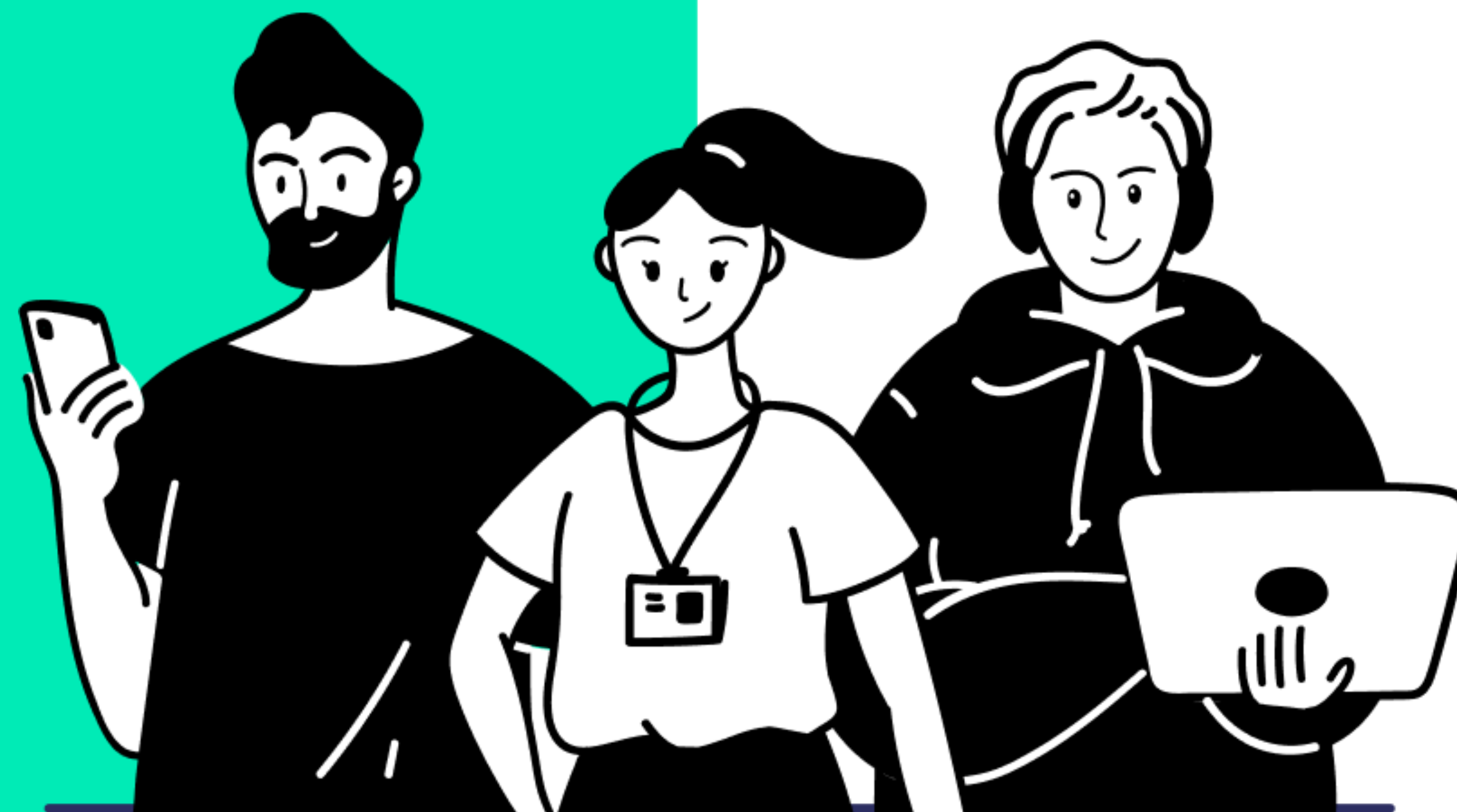
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Outputs

Deliver:

- API Landscape changed

- 6 new Golang microservices

- 2 new Golang libraries

- Project templating and CI/CD prepared for Java/Golang applications

- Shrink legacy monolith

- Reduction of microservices footprint

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QA

And you?

Which approch you would take for this challenge?