The Room of Requirements for Developers

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Scaling AI Magic with Internal Portals

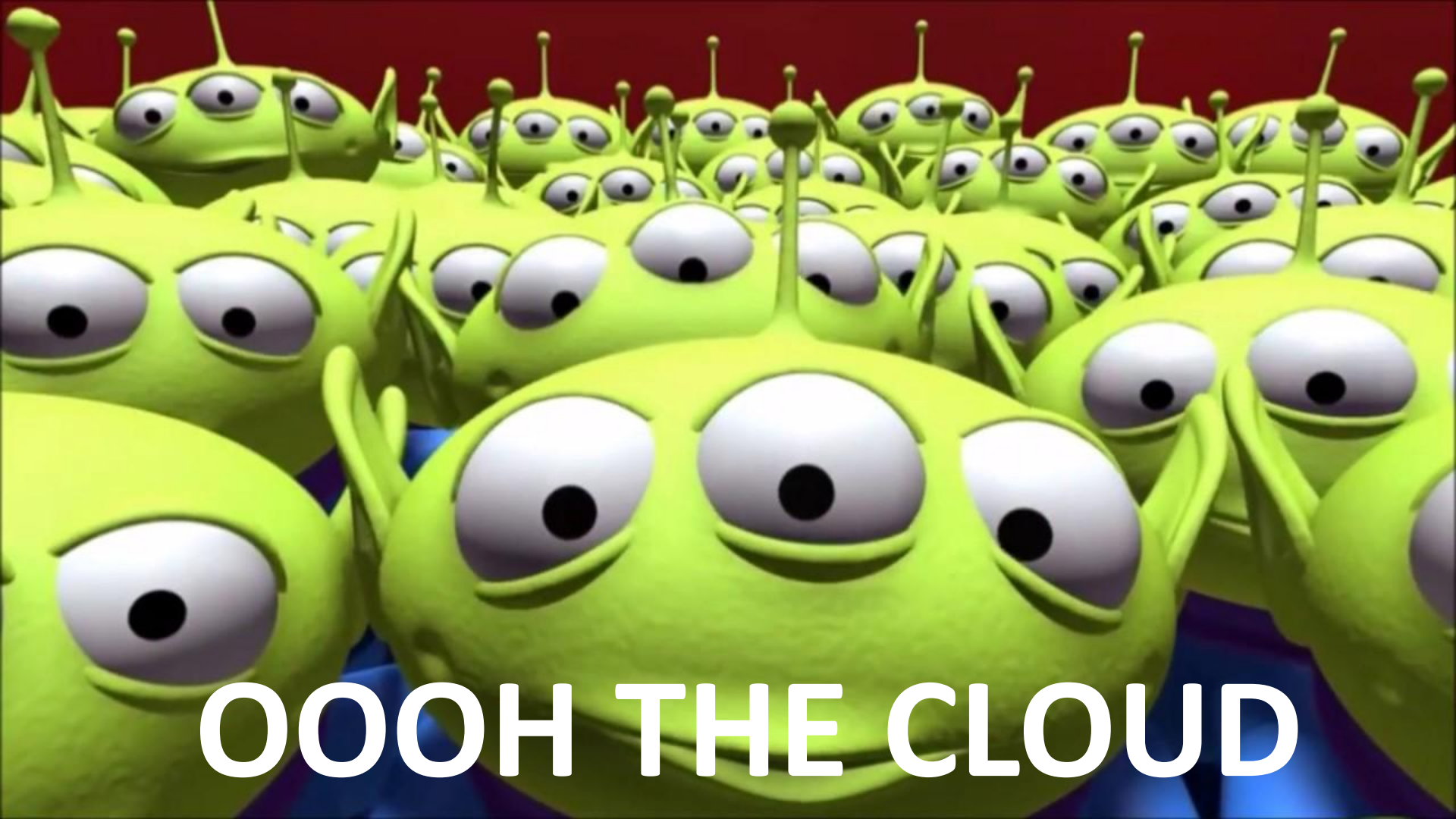
Maarten Vandeperre
Solutions Architect

Camille Nigon
Solutions Architect

Muggle world

Platform engineering & AI-dev challenges

Platform Engineering?!


OOOH THE CLOUD

Govts/
Orgs
Sovereign,
open
standards &
local control
Vendor
lock-in &
opaque
clouds

What happened?!

Shift Left: Increasing cognitive load

It’s not just app development anymore

Dev
Ops
DevOps
FinOps
MLOps
GitOps
DataOps
DevSecOps
BizDevOps
BizDevSecOps
BizDevSecFinMLOps

Organizational Impact & Cognitive Load

Traditional App Delivery

Dev

- Applications
- App Deploy
- App Build
- Entitlement/Billing
- Runtime
- Java
- Guest OS
- Guest Virtualization
- Clustering/HA
- Host Virtualization
- OS
- Hardware

Ops

Key:

- Dev Responsible
- Ops Responsible

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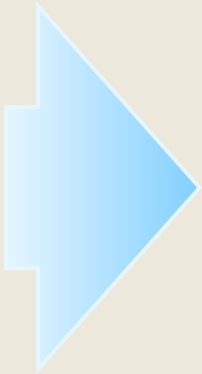

Key:

- Dev Responsible
- Ops Responsible

Modern App Delivery

Usability

Observability

Quality

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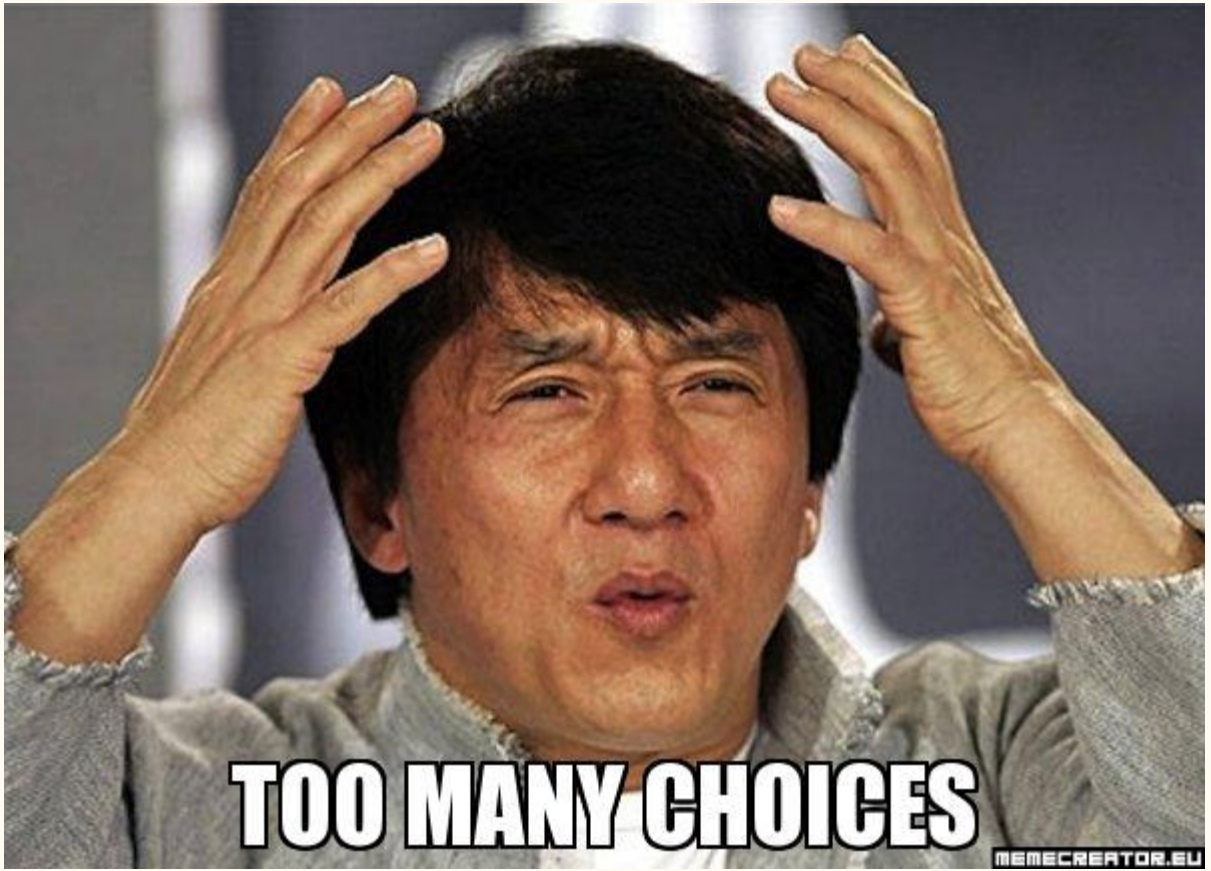
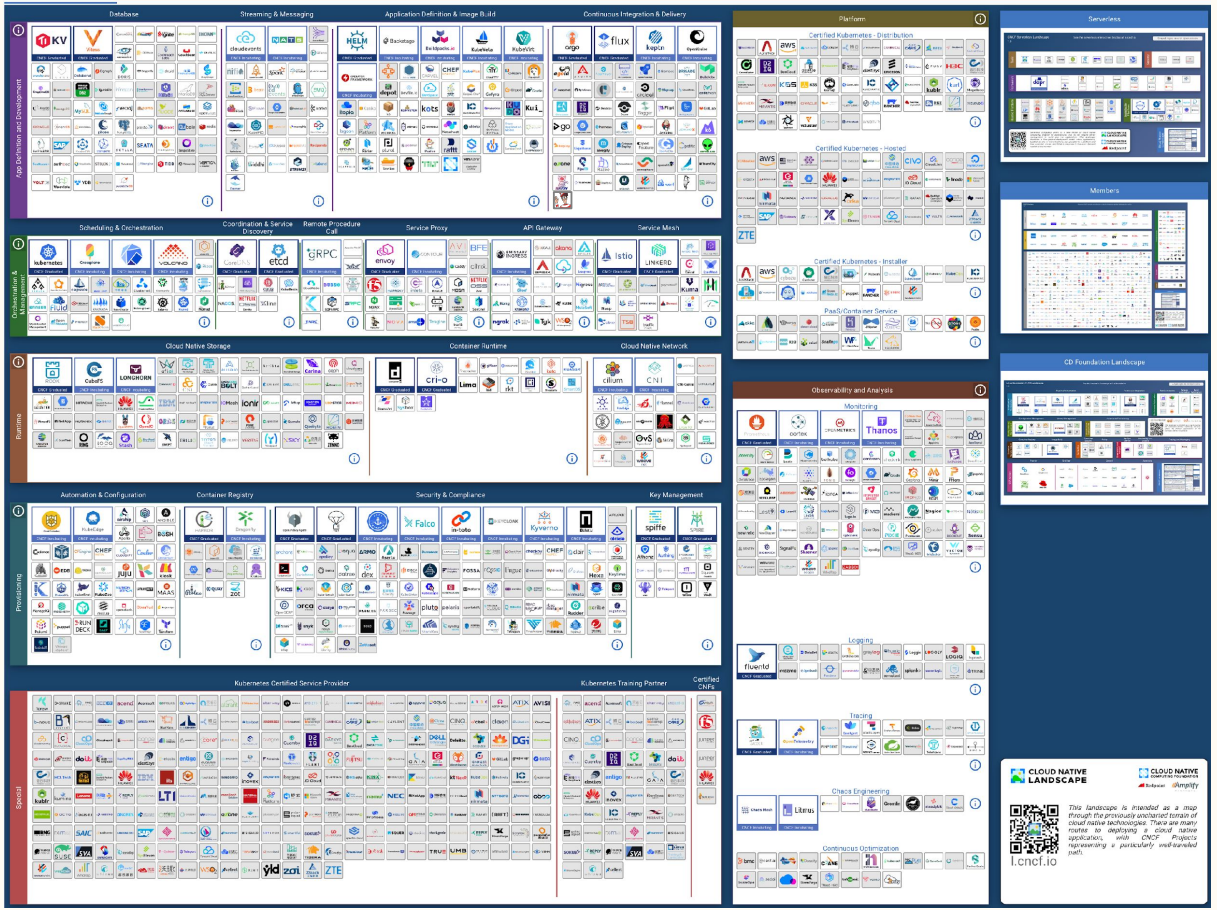
Tools: Too much choice



The Cloud-Native Grocery Store

Where's Waldo?
Where's Charlie?
Where's Wally?



Source: https://landscape.cncf.io/

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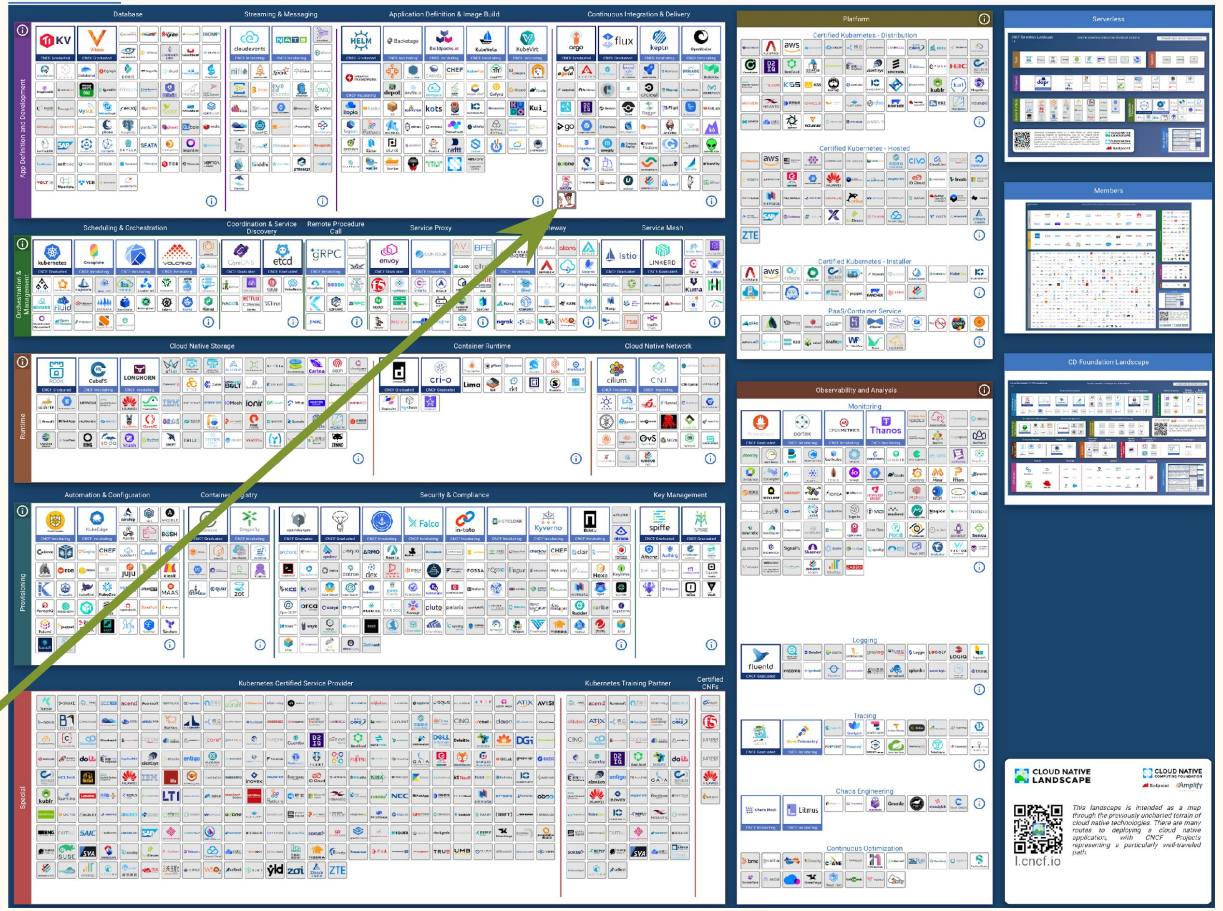


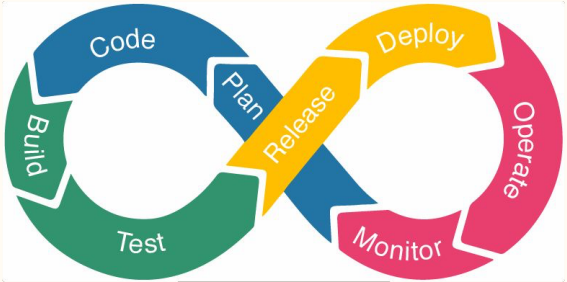
Source: https://landscape.cncf.io/

But... How to overcome these struggles?

Platform Engineering

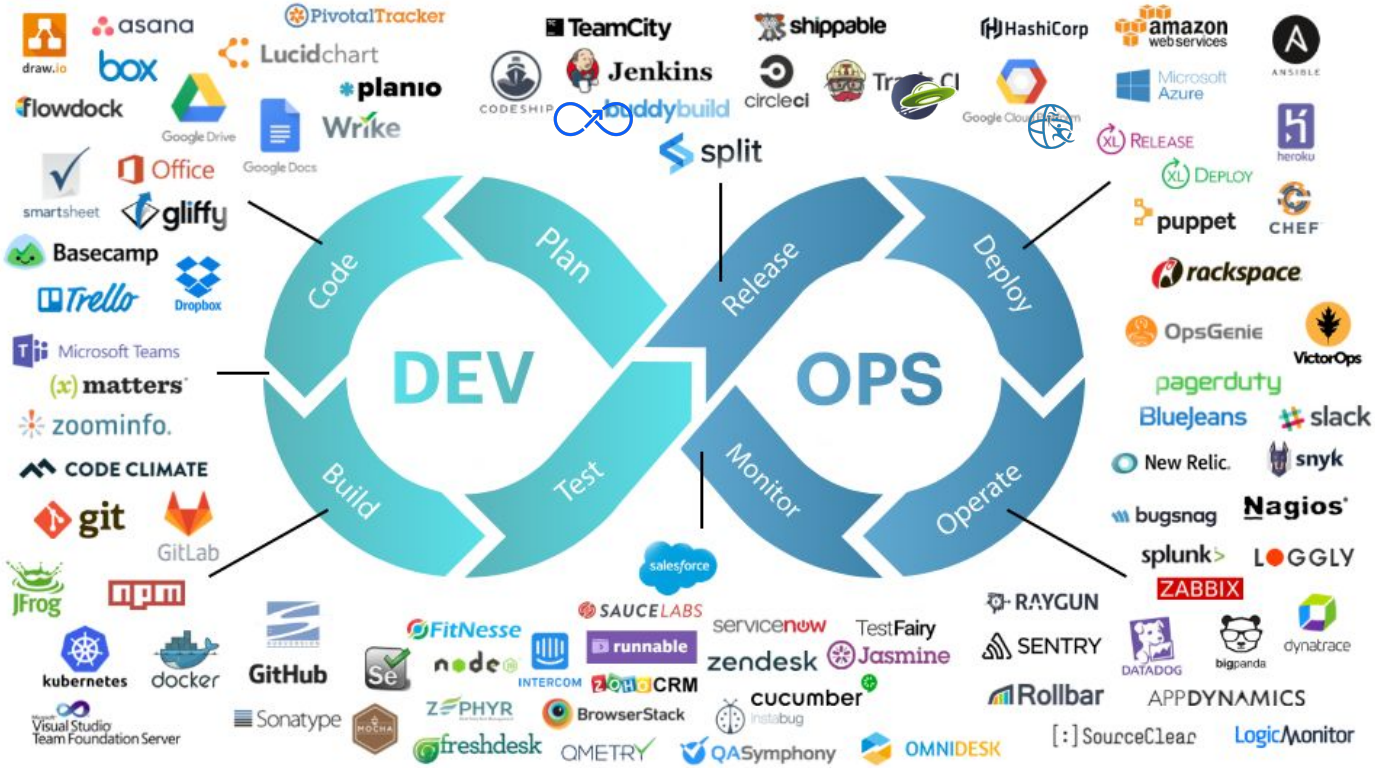
The Platform Engineering recipe - Ingredients

- Integrated Development Environments
- Version Control Systems
- Resources - containers, databases, storage, compute, transit, etc.
- Runtimes and frameworks
- Artefact, container registry
- Kubernetes
- Observability
- Vulnerability scanners
- CI tools
- GitOps/CD tools
- Infrastructure as Code tools



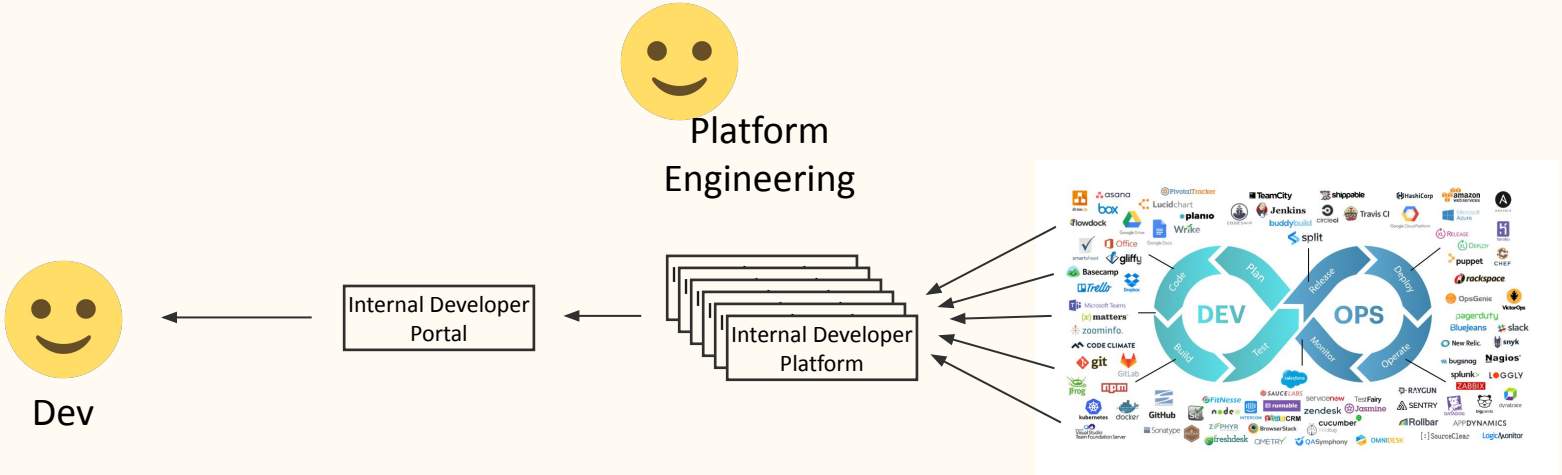
List inspired by: https://www.configure8.io/blog/internal-developer-portal-vs-internal-developer-platform-whats-the-difference-and-why-both-matter

Bake your own Platform



Source: https://www.openxcell.com/devops/

So, what does this look like?



Organizational Impact & Cognitive Load

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Applications

Platform Engineering

App Build

App Deploy

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Guest OS

Ops

Entitlement/Billing

Guest Virtualization

Clustering/HA

Host Virtualization

OS

Hardware

Internal Developer Platform

Developer Portal

!! Product

Platforms and portals

Flying letters:
https://d1e4pidl3fu268.cloudfront.net/57759859-89af-4a67-9b3b-59f3e6c5cbec/letters.jpeg

Flying letters:
https://tenor.com/view/harry-potter-sorcerers-stone-daniel-radcliffe-mail-jump-gif-5101797

A developer portal on OpenShift is like Hogwarts for developers: templates are your spell books, pipelines your enchanted corridors, while governance and security act like professors keeping things safe.

The portal itself, your Room of Requirement, always giving you exactly what you need (e.g., to spin up new projects) with a flick of your wand.

Keep your options open

Maarten Vandeperre

Master of applied Java charms and function-calling rituals.

Camille Nigon

Professor of Magical Intelligence

Source: https://contentful.harrypotter.com/usf1vwtuqyxm/1LwRJ7C8d6q8kmAOo4QAcc/ed6000b0ab1d1aac4e63ef10446ec6e2/HaryPotter_PM_B4C9M1_HarryRonHermioneSeeDarkMark_Moment.jpg?q=75&fm=jpg&w=2560

Pop-up image

Source: https://static1.cbrimages.com/wordpress/wp-content/uploads/2021/11/Harry-Potter-Dumbledores-Army.jpeg

Pop-up image

Source: https://www.reddit.com/media?url=https%3A%2F%2Fi.redd.it%2F4e6kjgn62o1a1.jpg

Pop-up image

Source: https://static0.gamerantimages.com/wordpress/wp-content/uploads/2023/06/hp-spellcast.jpg

Pop-up image

Source: https://www.usmagazine.com/wp-content/uploads/2018/08/harry-potter-inspired-cocktails.jpg?crop=182px%2C94px%2C1539px%2C869px&resize=1600%2C900&quality=86&strip=all

Pop-up image

Source: https://static0.gamerantimages.com/wordpress/wp-content/uploads/2023/08/hp-snape-double-agent.jpg?q=50&fit=crop&w=1100&h=618&dpr=1.5

Pop-up image

Source: https://thewonderofminiatures.home.blog/wp-content/uploads/2012/11/f632e-repottingmandrakes.jpg
Code: https://github.com/maarten-vandeperre/cdc-based-integration-example/tree/main

Pop-up image

Room of Requirement / Dev Portal

The Room of Requirement is a magical, secret room in Hogwarts Castle that appears only when a person is in great need of it, providing whatever the user requires.

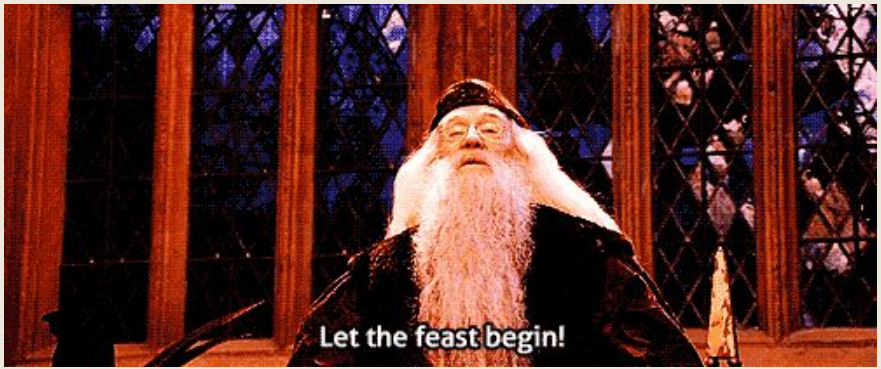
Recap

- Reduce sovereign AI's cognitive load with platform engineering
- Embed security in your CI pipelines
- Break the silos: collaborate for victory (and against the dark forces)
- Keep in control of your data and your models
- Find out how to enter your Room of Requirement
  developers.redhat.com

We turn developer work into wizardry. 🪄

Digital sovereignty isn't that complex...

... Stay in control!!!



Info

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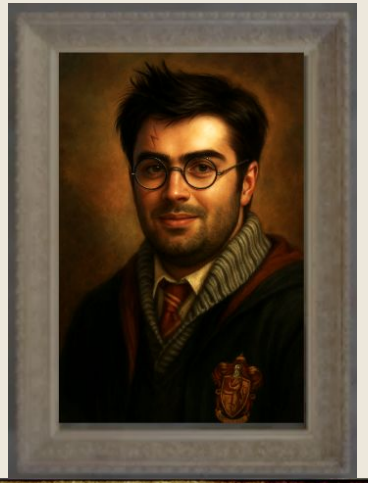

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https://maarten-vandeperre.be

👉 https://github.com/camille-maarten/presentations

👉 ✨ developers.redhat.com ✨