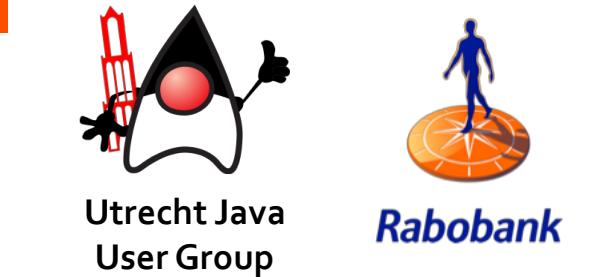




A journey from Java EE to cloud-native microservices

Vincent Oostindië, 15-10-2018



Utrecht Java
User Group

Rabobank



Rabobank NL Online today



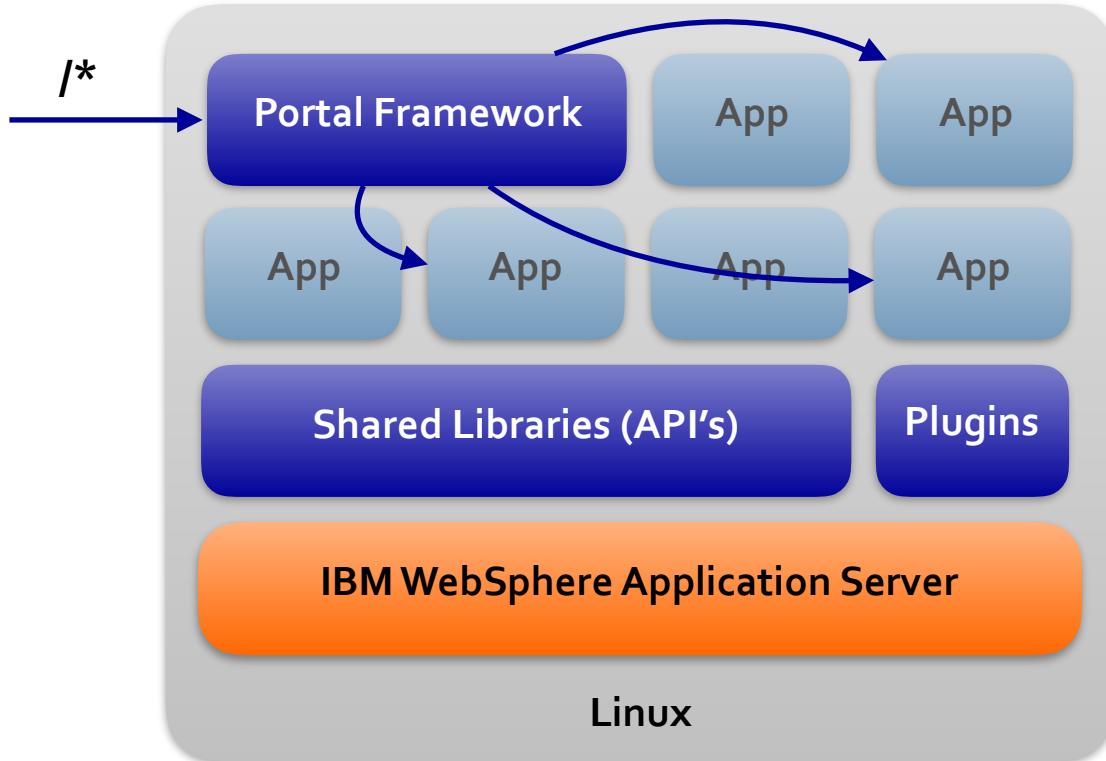
Rabobank

The image displays three devices showcasing the Rabobank NL Online platform across different screen sizes and formats.

- Desktop Browser:** Shows the main "Mijn Overzicht" (My Overview) page. It includes sections for "Betalen" (Payments), "Berichten" (Messages), and "Actueel" (News). A sidebar on the left provides links for "Overboeken" (Transfer) and "Betaalverzoek" (Payment Request). A large central message bubble reads "In je eigen huis oud worden?" with a "Doe check" button.
- Mobile Browser:** Shows a simplified "Mijn Overzicht" page with "Betalen" and "Actueel" sections. It also features a "Creditcards" section and a "Creditcard gegevens ophalen" (Get creditcard details) button.
- Smartphone:** Shows a compact "Mijn Overzicht" interface. It includes "Betalen", "Actueel", and "Creditcards" sections, along with a "Creditcard gegevens ophalen" button. At the bottom, there is a navigation bar with icons for "Overzicht", "Zelf regelen", "Overboeken", "Contact", and "Meer".



Rabobank's Online Platform 2008 - 2018



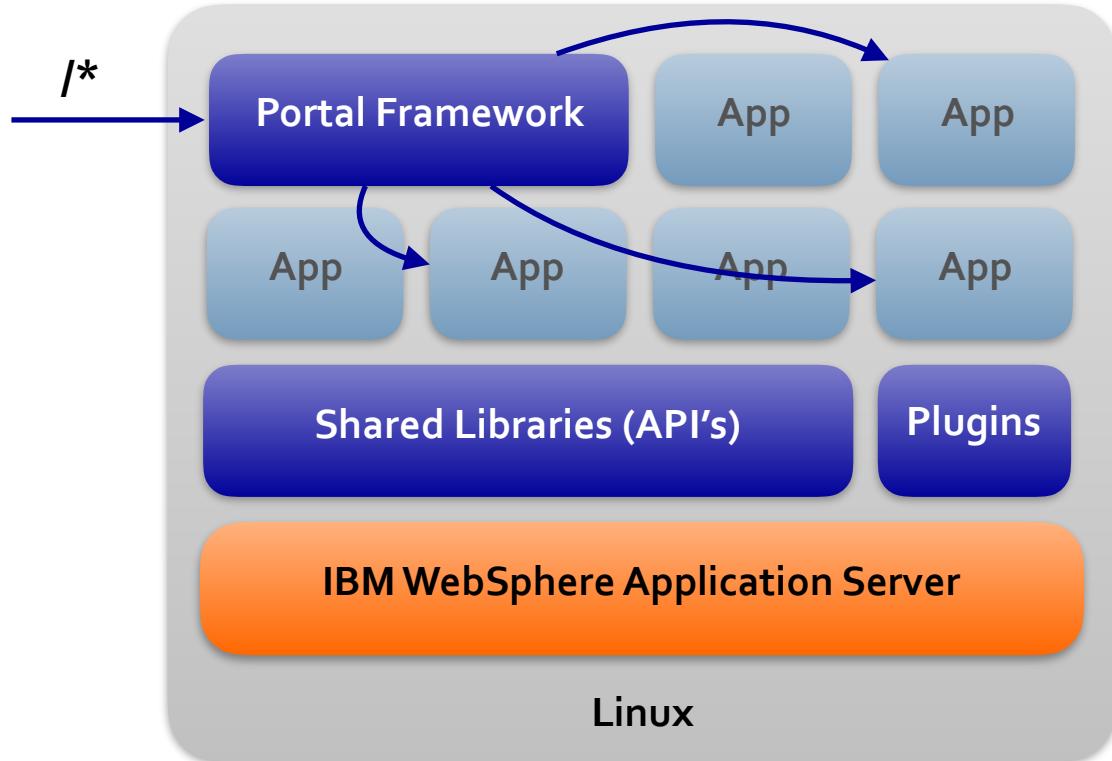
Topology

- Independent boxes
- Deployment units
- Horizontally scalable
- URL-based load balancing

Portal Framework

- Page rendering
- Portlets & services
- Monitoring & throttling
- User profiles & preferences
- URL security
- Session storage
(and more)

Rabobank's Online Platform 2008 - 2018



Very successful!

400+

Applications

2100

TPS, easily

2 mln

Logons per day

and very few disturbances

But: time to move on!



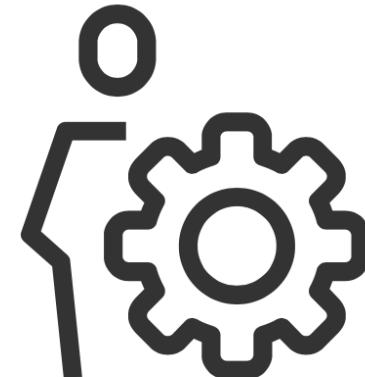
3 main drivers



Aging technology



Scalability limits

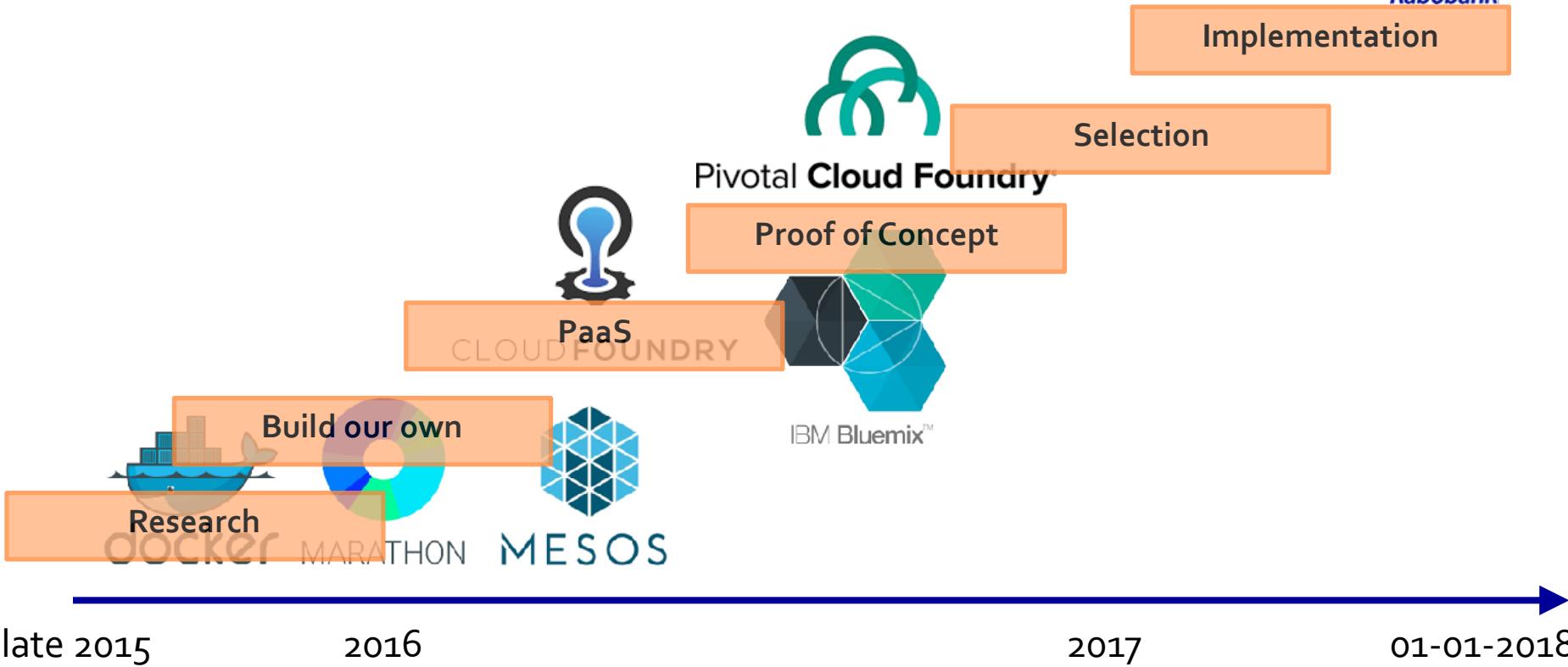


DevOps

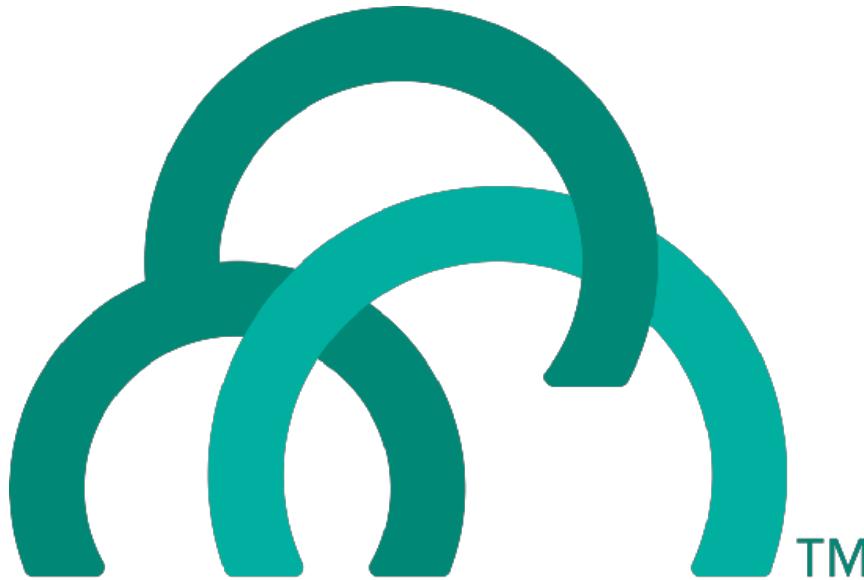
We need a microservices platform!



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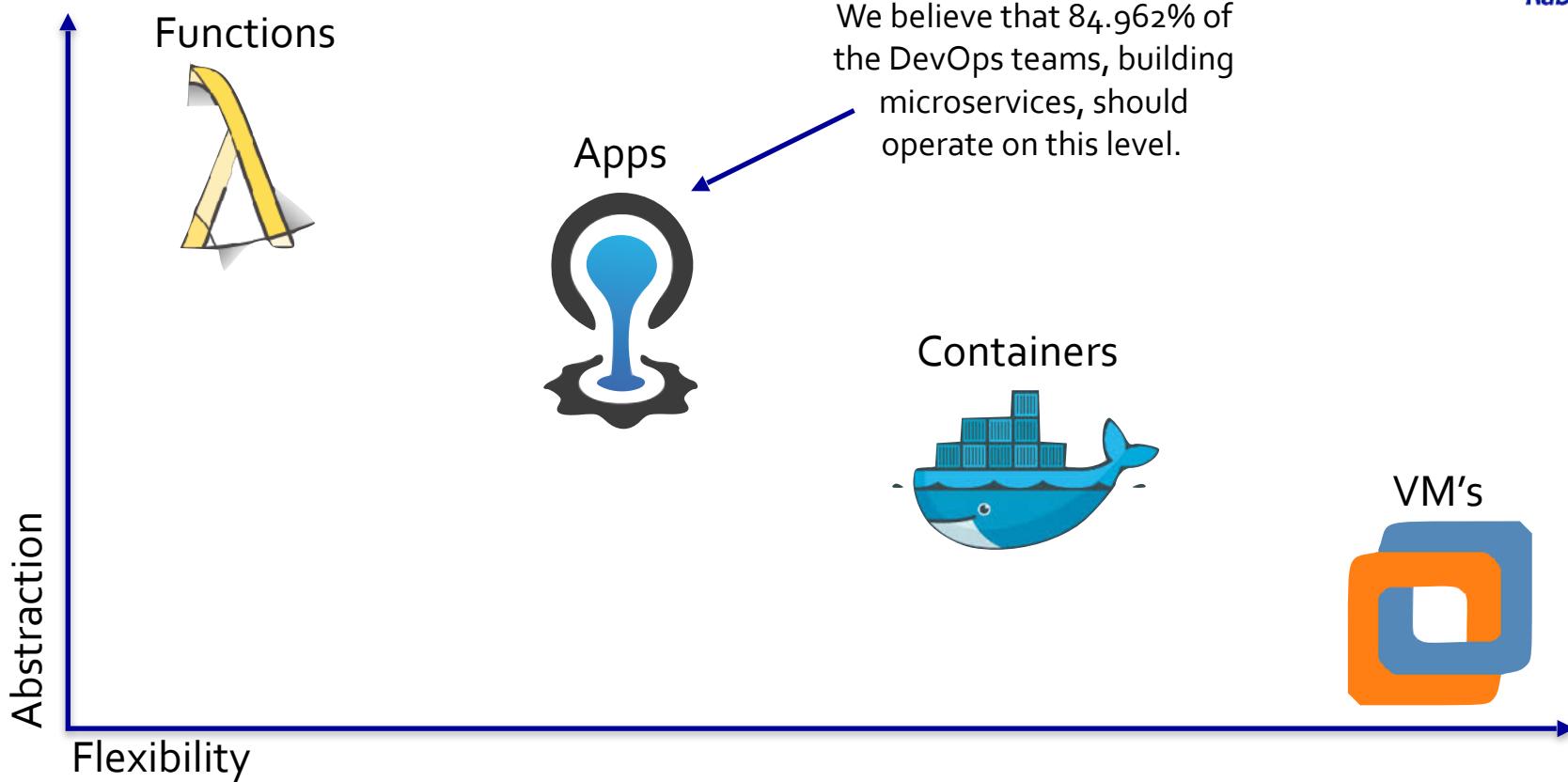


We've selected Pivotal Cloud Foundry



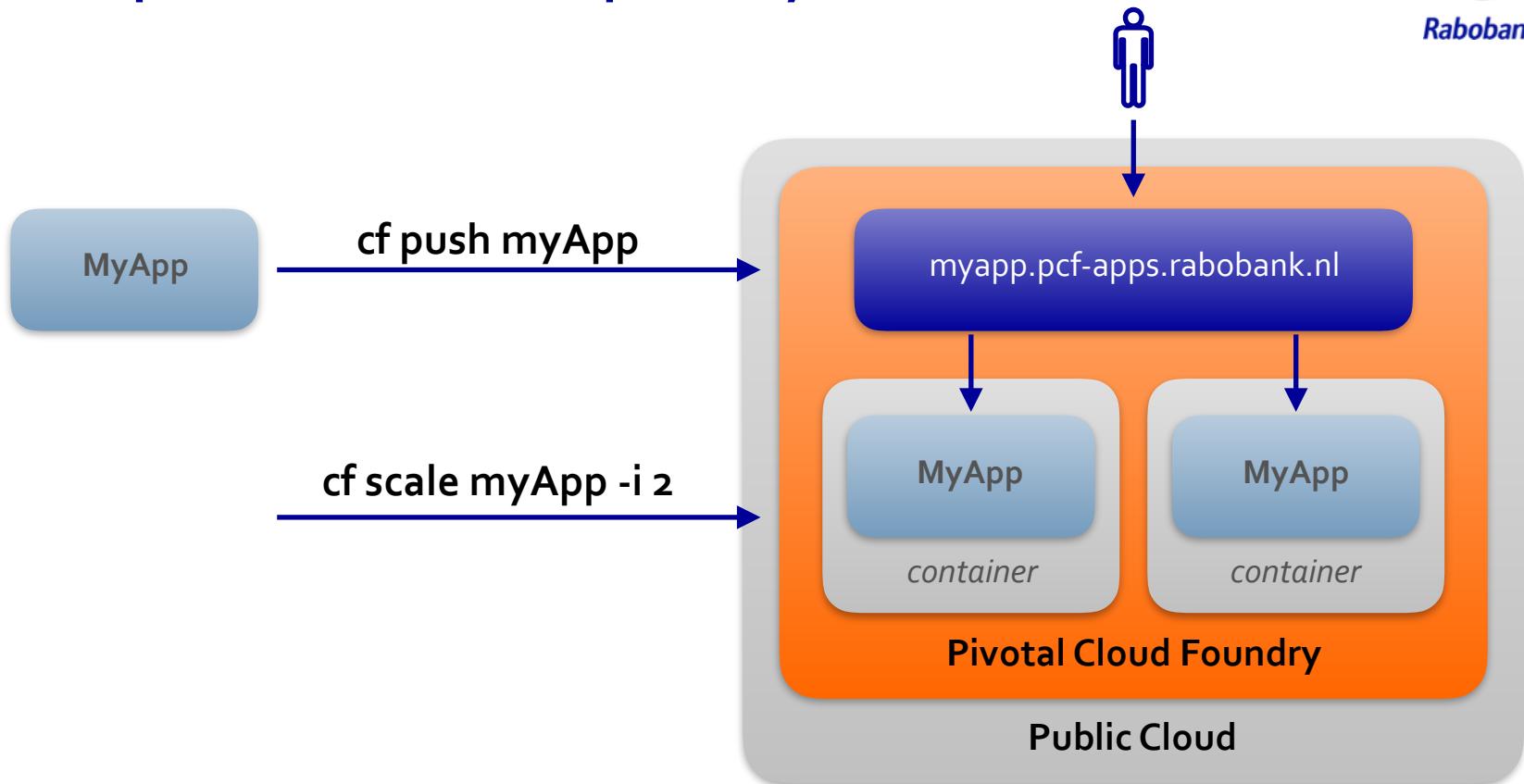
As *the* microservices platform for the Rabobank as a whole
(Oh, and by the way, it runs in public cloud)

On picking the right abstraction



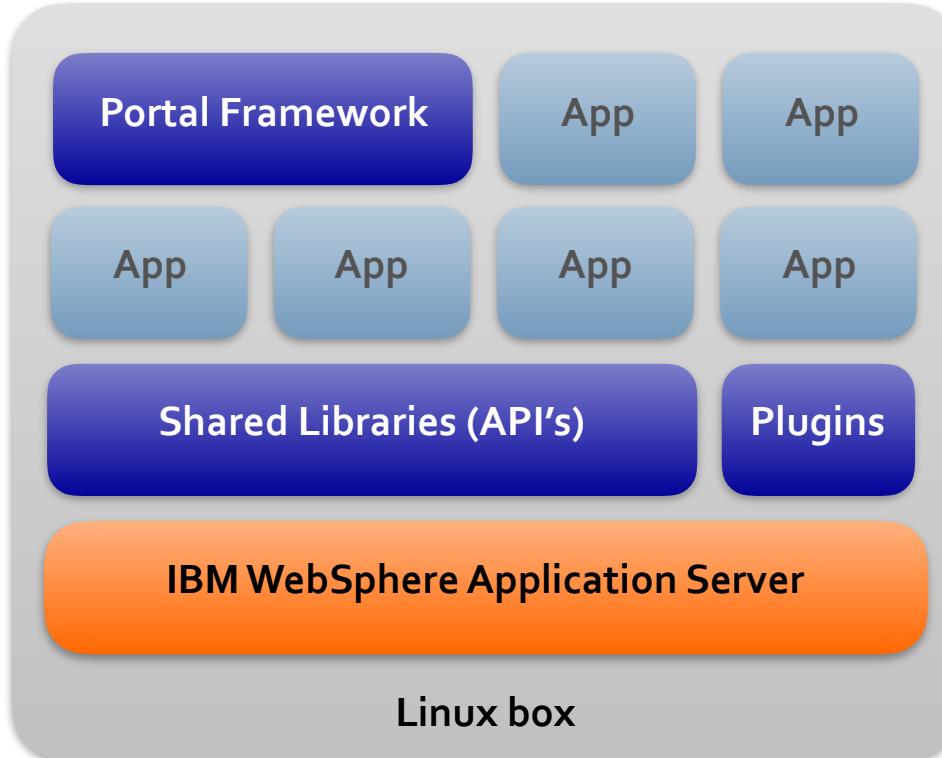


Our promise: simplicity



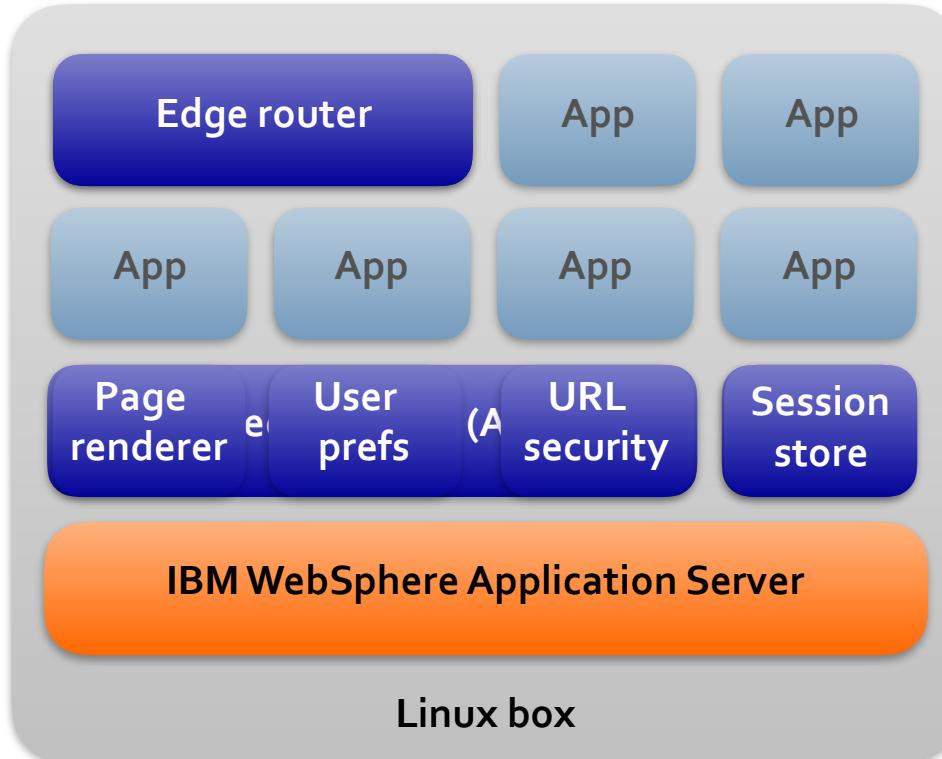


How to migrate the Online Platform?



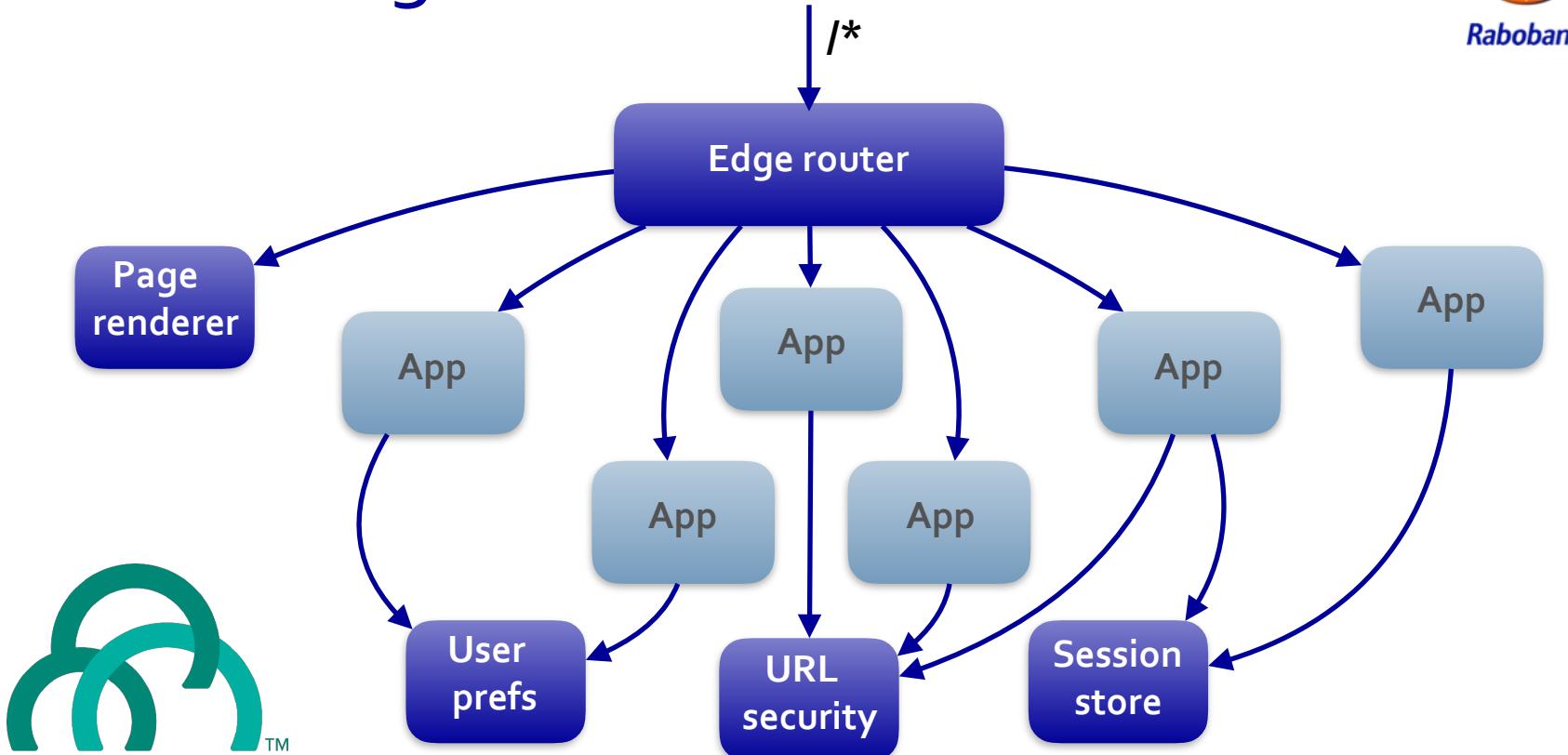


How to migrate the Online Platform?





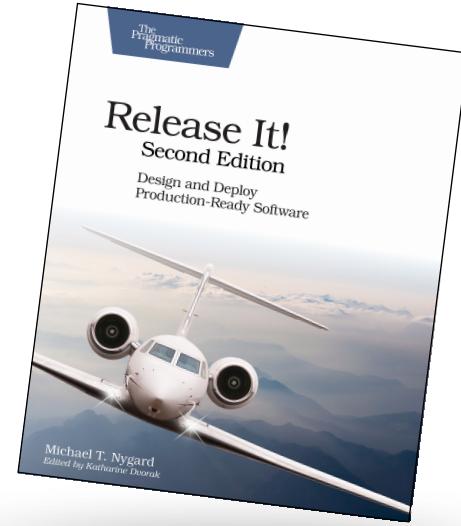
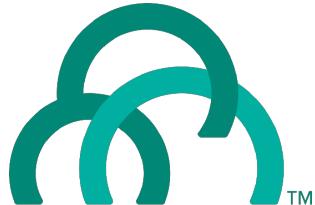
How to migrate the Online Platform?



The technology is awesome...

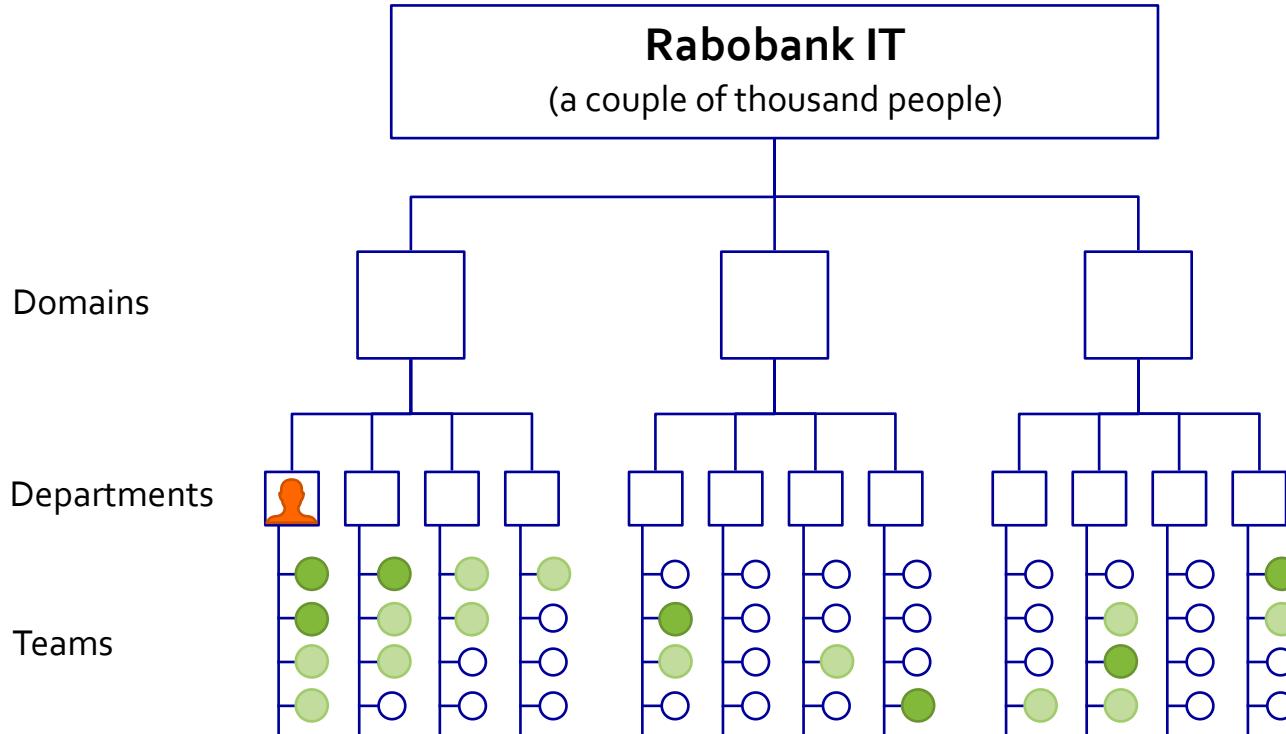


Spring Boot



...but, just half of the story!

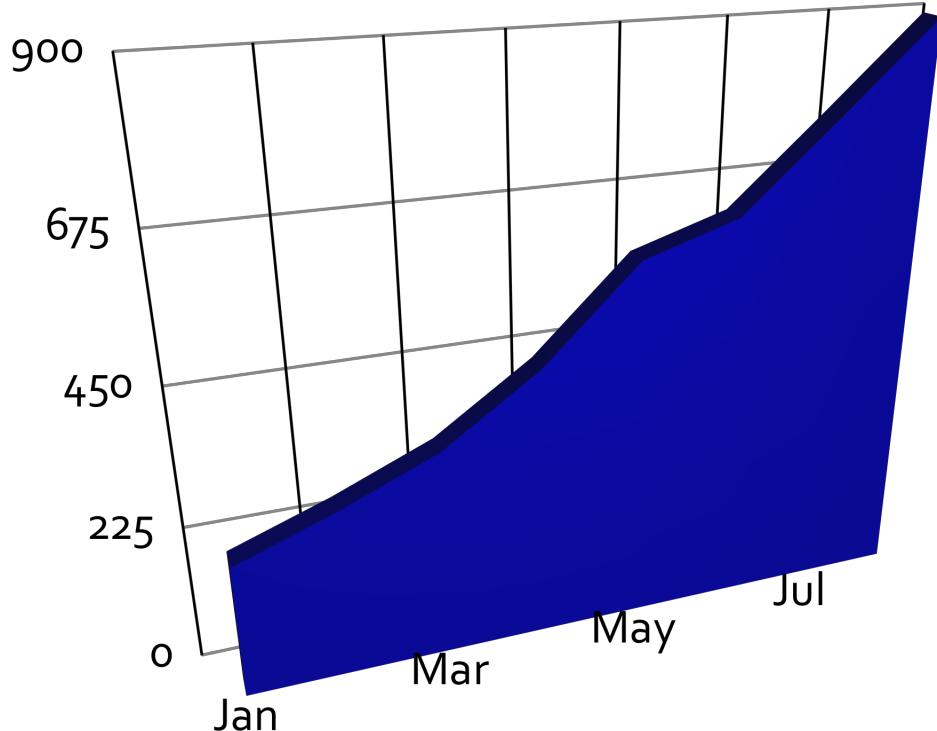
The other half: people!



Differences in
Way of working
Technology stacks
Team maturity



Where we are today



100+

Teams

900+

Instances

As of August 2018

Growing fast!
and of course: we're hiring :-)