

Going Cloud

Die Cloud, die Antwort auf alle Fragen...



Deutsche OpenStack Tage,
26.09.2019
Berlin
Oz Tiram

noris network

WG: DOST 2019

WG: DOST 2019

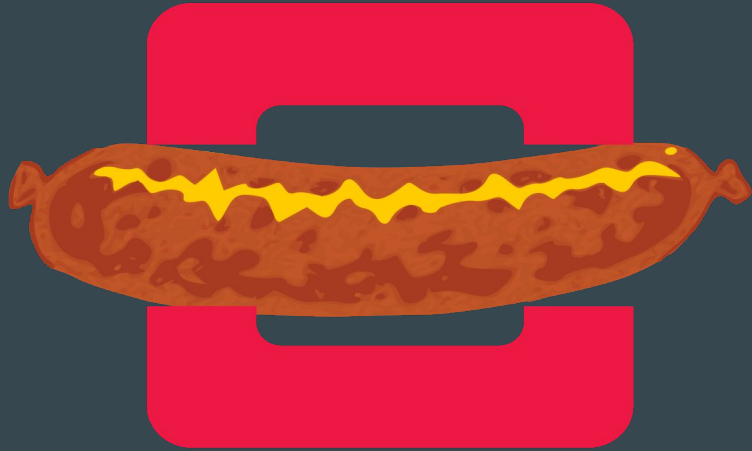
DOST?



Deutsche

OpenStack!?

Deutsche



OpenStack!?

The Cloud



There is no such thing as Cloud,

It's

just other
people's
computers.*



There is no such thing as Cloud,

It's

*just other**

*people's
computers.*

*Oh, I mean Public Cloud AWS, GCE, AZure ...

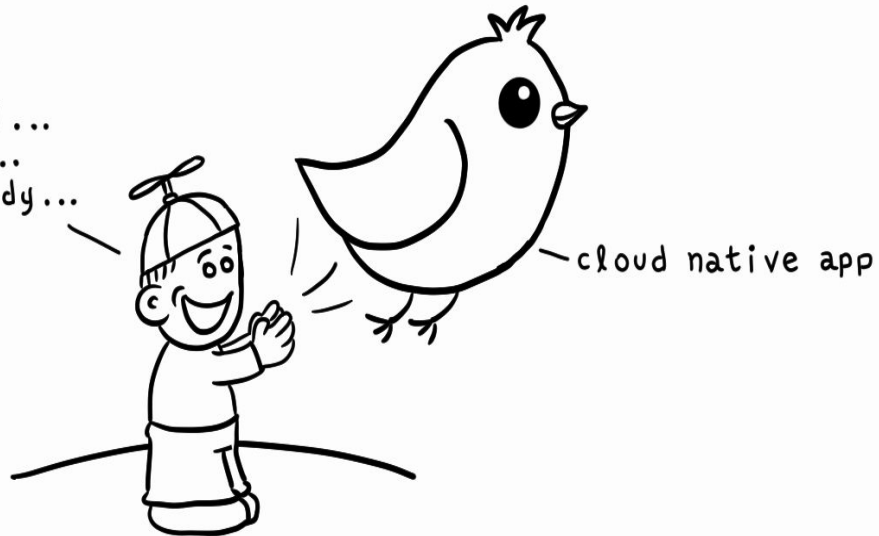


Public Cloud is Easy!



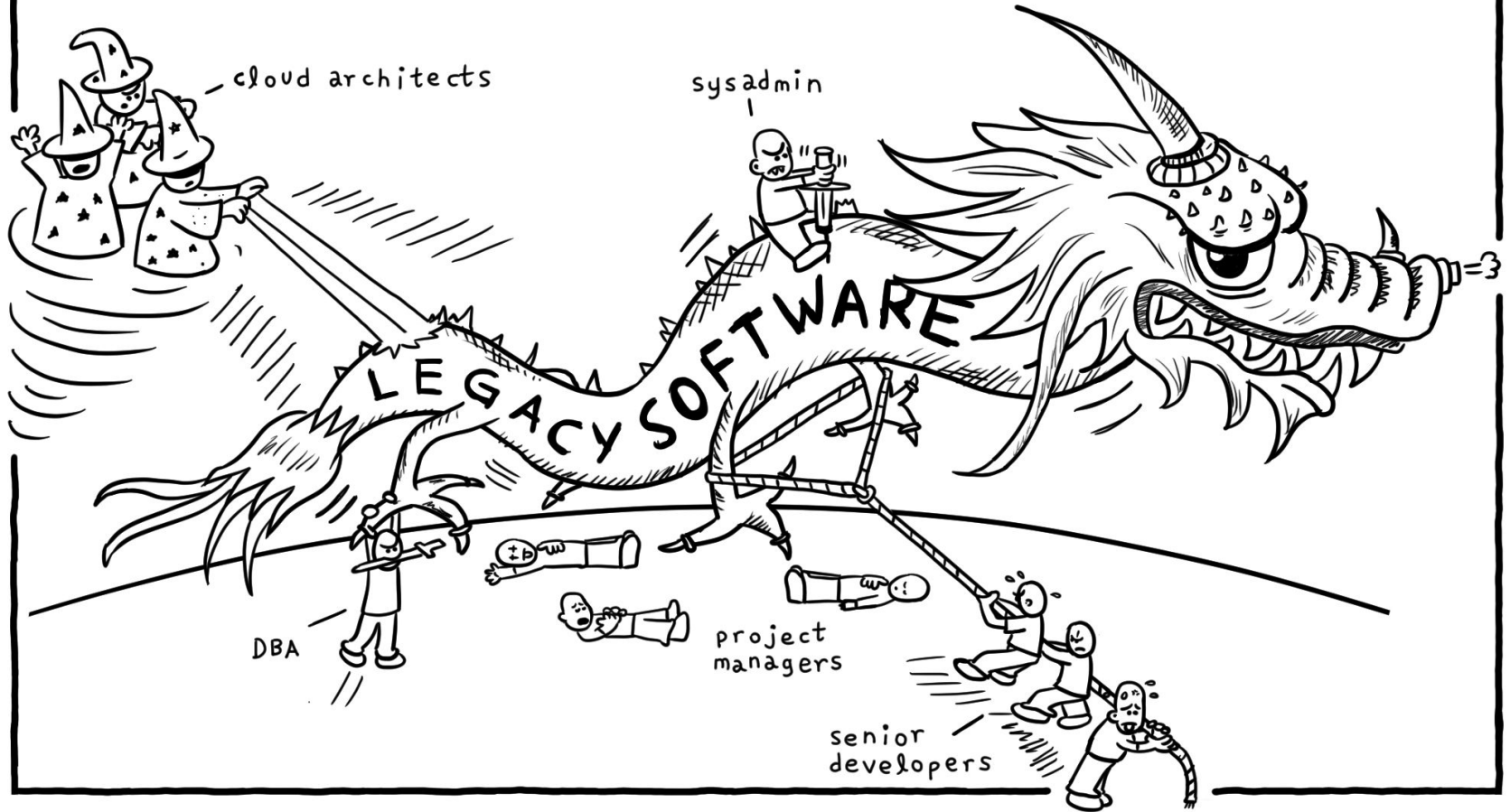
Startups Journey to Cloud

rails scaffold...
heroku deploy...
fly little buddy...

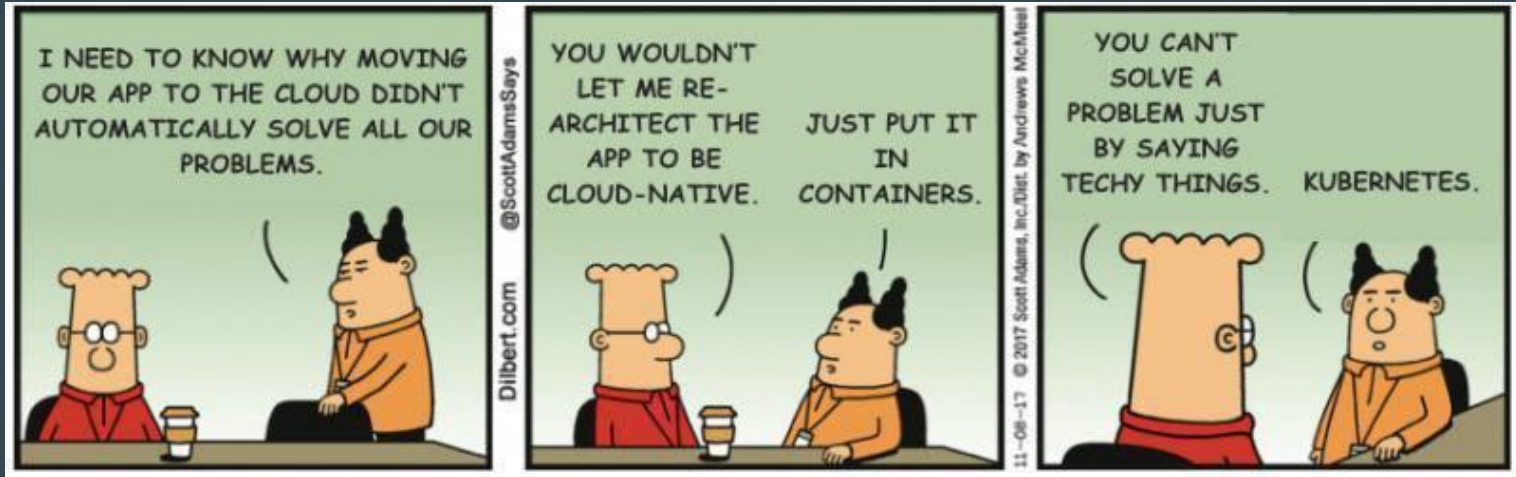


Daniel Stori {turnoff.us}
Thanks to Michael Tharrington

The Enterprise Journey to Cloud



1 Year later ...



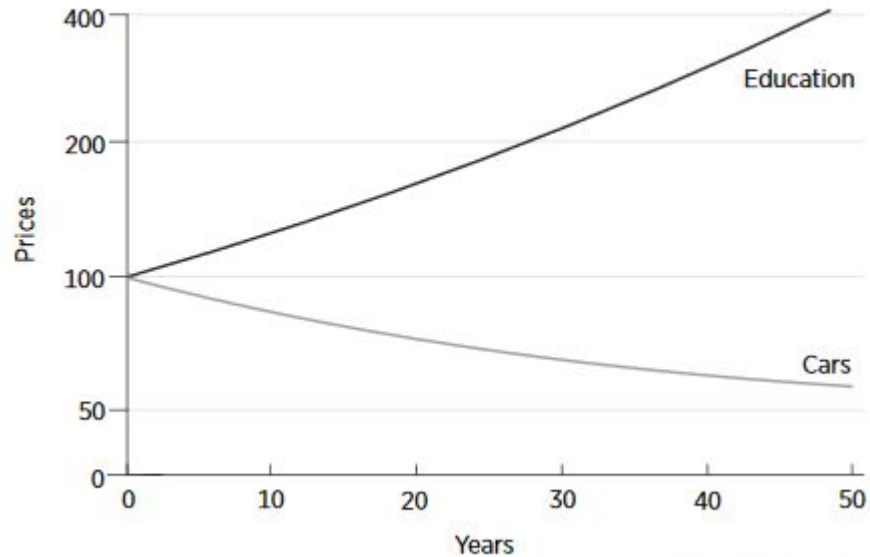
Baumol's model applied to Cloud Computing



Baumol's model applied to Cloud Computing

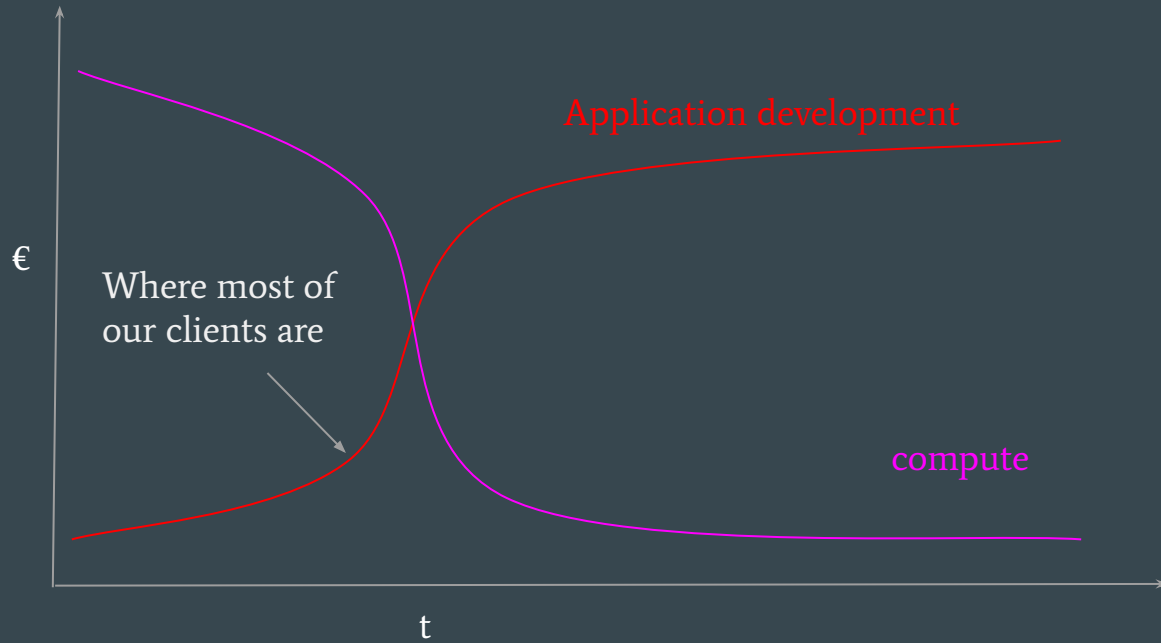


Figure 23. The Progressive and Stagnating Sectors:
Two Sides of the Same Coin



Note: The Y axis uses a ratio scale.

Cloud Migration Costs ...



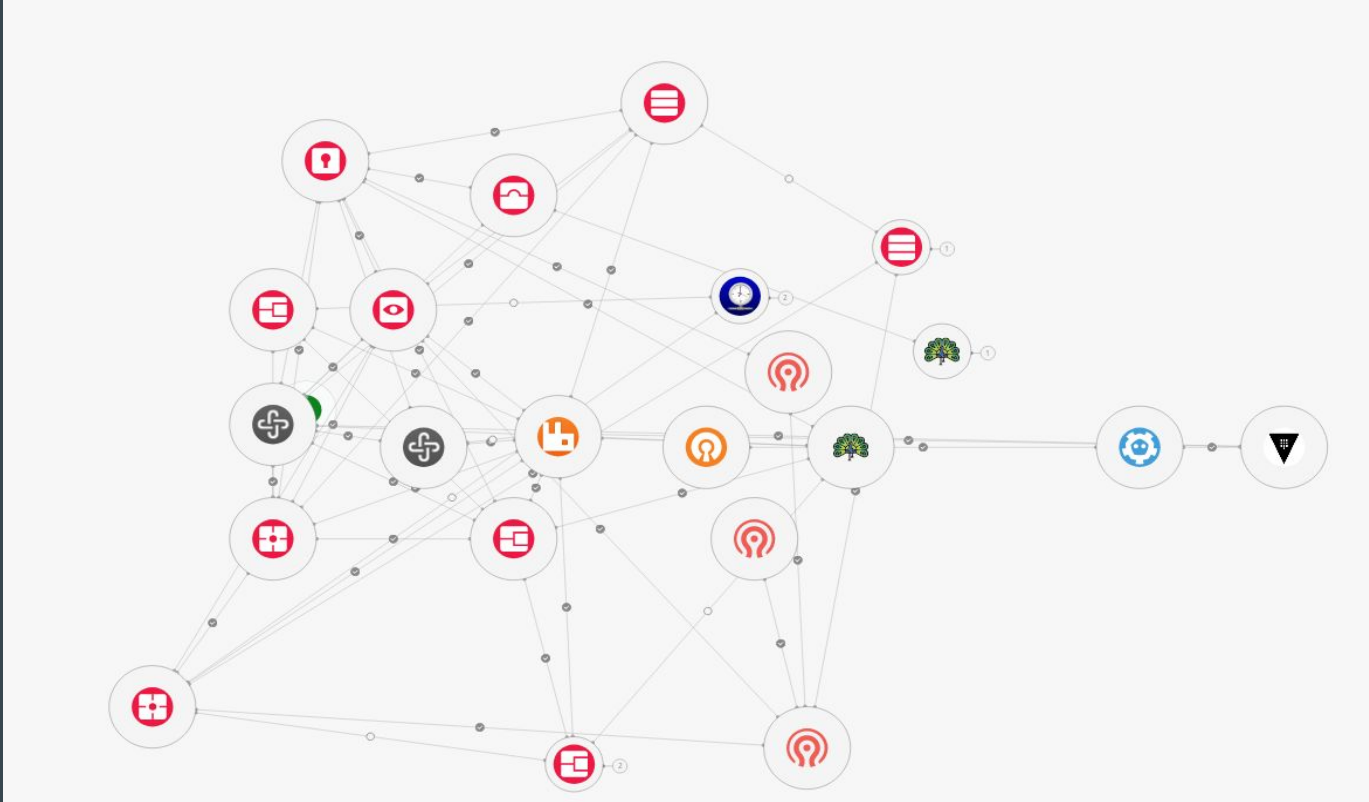
Problems with Public Clouds

- Varying APIs
- Varying Services
- Costs can be Opaque

Regulatory considerations

- Data residency
- International contracts
- Government specifications

Running your own cloud - OpenStack



Running your own cloud - OpenStack



Running your own cloud - OpenStack



The importance of OpenStack



- Competition
- Innovation

Or ...

Do you want to work for this guy?



Avoiding vendor lock-in

GRÜNDIGITAL

DAS GRÜNE
BLOG ZUR
NETZPOLITIK

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Digitale Resilienz staatlich gefördert – Open Source im Thüringer Vergabegesetz

Redaktion | 17. Juli 2019

Aus den Ländern, Blog, Gastbeiträge, sonstiges

Demokratie, E-Gov, E-Government, FOSS, Henfling, Interoperabilität, Landesstrategie, Offenheit, Open Source, Resilienz, ThürEGovG, Vergaberecht, Verwaltung



Suchwolke

Anhörung Anmeldung Antrag Beteiligung BND btADA
Bundesregierung Bundestag

Avoiding vendor lock-in

BUNDESMINISTERIUM DES INNERN, IMPRESSUM ÜBERSICHT KONTAKT
FÜR BAU UND HEIMAT (BMI)

Der Beauftragte der Bundesregierung für Informationstechnik

Politische Aufgaben Strategische Themen Innovative Vorhaben der Ressorts IT-Beschaffung Architekturen und Standards

Aktuelles

Donnerstag, 19. September 2019

Strategische Marktanalyse zur Reduzierung von Abhängigkeiten von einzelnen Software-Anbietern

Abschlussbericht August 2019

 [Download](#)
[PDF, 4MB, barrierefrei]

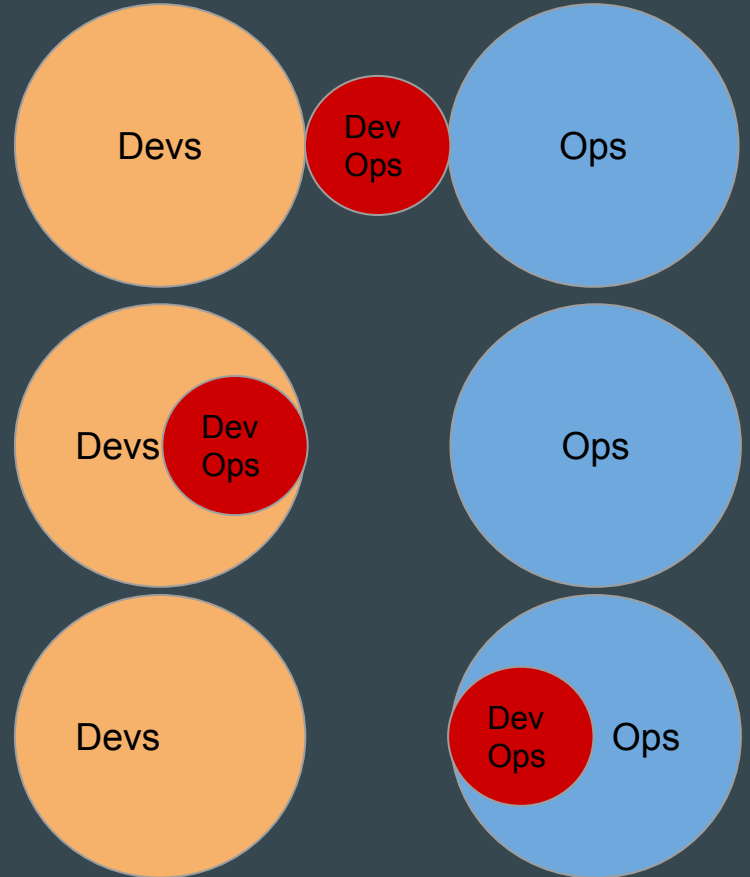
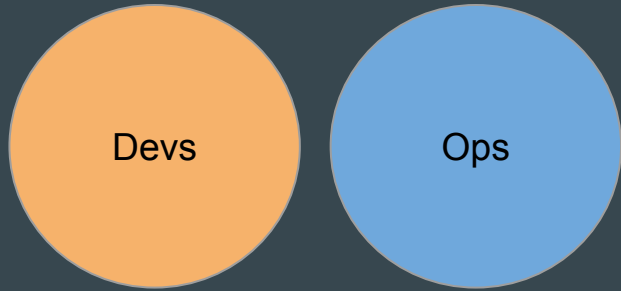
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 [Aktuelles](#) [Strategische Marktanalyse zur ...](#)

OK, I'm convinced. Take me to the cloud ...

A basic checklist for success cloud migration

1. Culture - Eliminate Anti-DevOps

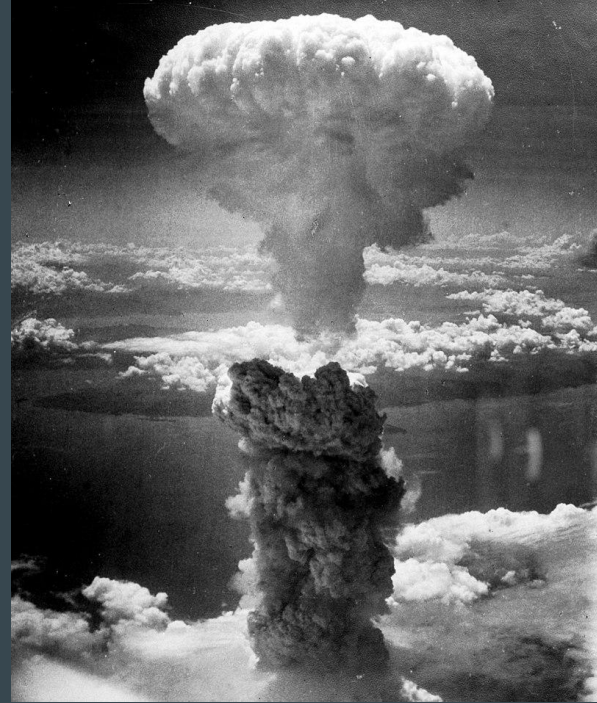


2. Adopt a “you build it you run it” culture



Checkout www.deveopstopologies.com for more.

3. Build an extensive CI pipeline, and assume parts of the application will fail



4. Learn to use Kubernetes

Containerize your applications

Abstract away differences between
different clouds



kubernetes

5. Test in production

~~QSU~~



5. Test in production

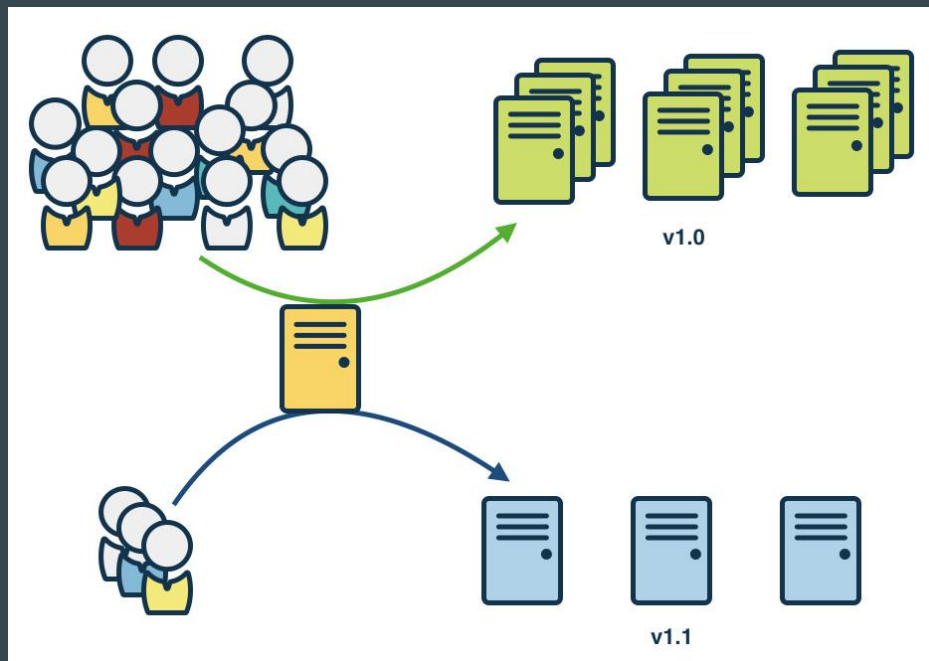
*Manual Testing is immoral.
It's not just dumb - and it is dumb -
it is immoral, because you are
taking people and you are asking
them to act like machines.*

Bob Martin, The land that scrum forgot.



5. Test in Production

- Canary releases
- A/B Testing
- Blue Green Deployments
- Rolling releases



Congratulations! You survived the journey to the cloud.

