

Agile Cloud Migration with Ansible

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I'm from Made Tech.

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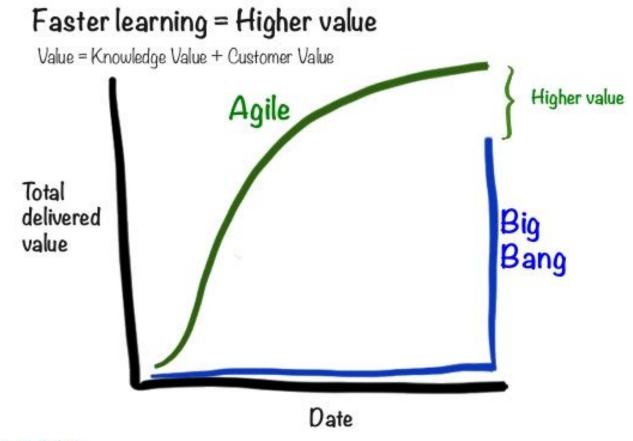
Ask us how we career in soft

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Improving software delivery

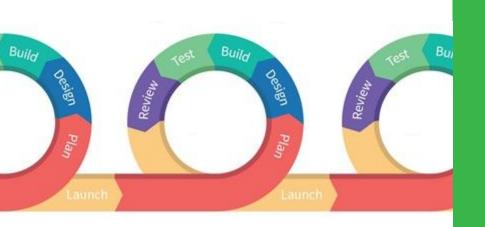
35% of migrations reverted

2017 http://it-trends.solarwinds.com



Henrik Kniberg

Applying Agile to Cloud Migrations



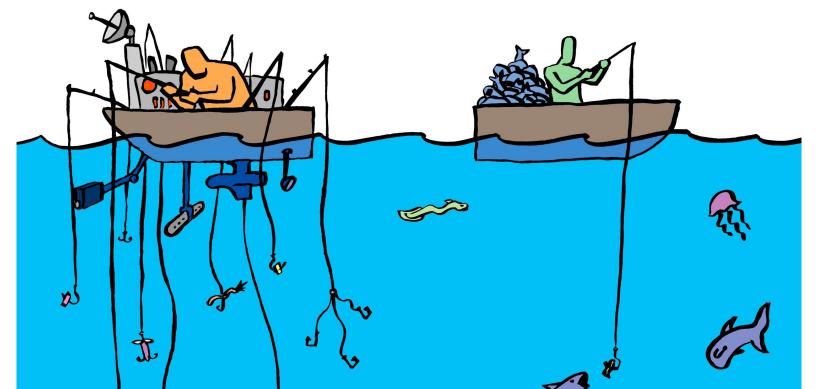
- 1. Roadmap to the Cloud
- 2. Reducing Risk
- 3. Adopting Tools

1. Roadmap to the Cloud

	Example: Greenfield App Roadmap	Example: Cloud Migration Roadmap
Vision	Build customer focussed platform to test recommendation engine and bring products to market	Migrate to the cloud
Goal	Prove whether product recommendations and personalisation are relevant and useful	Reduce costs and modernise infrastructure
Capability	Be able to answer questionnaire and be recommended a product	Be able to run apps in the cloud

	Example: Greenfield App Roadmap	Example: Cloud Migration Roadmap
Vision	Build customer focussed platform to test recommendation erMassive in scope and bring products to market	Migrate to the cloud
Goal	Prove whether procNot a bad start but what and personalisatiorabout the users?j useful	Reduce costs and modernise infrastructure
Capability	Be able to answer questionnaire Too generic recommended a product	Be able to run apps in the cloud

Limit scope of roadmap to a single app or single process/workflow



What can you migrate to a live environment in 6 weeks?

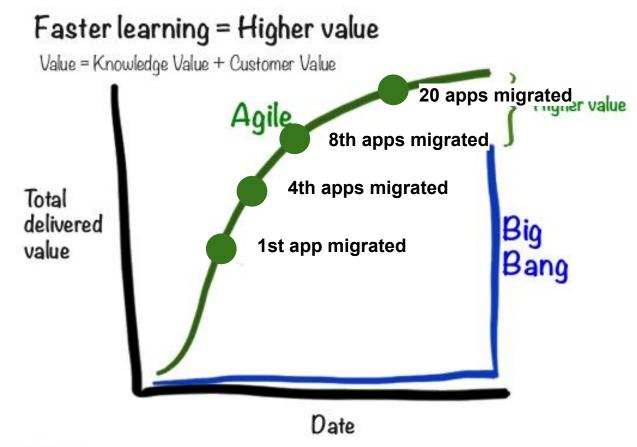
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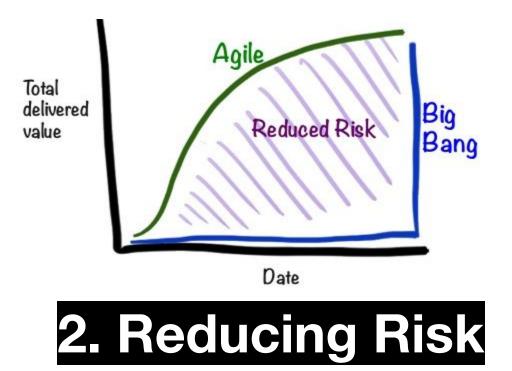
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	Example: Greenfield App Roadmap	Example: Cloud Migration Roadmap
Vision	Build customer focussed platform to test recommendation engine and bring products to market	Build expertise and toolset for cloud migrations by migrating an application to the cloud
Goal	Prove whether product recommendations and personalisation are relevant and useful	Have 1 team who are confident with cloud Have business using migrated application
Capability	Be able to answer questionnaire and be recommended a product	Be able to access supply chain application Be able to deploy the supply chain app





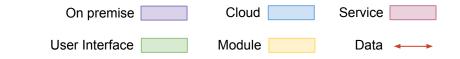
Migrating an on-premise monolith

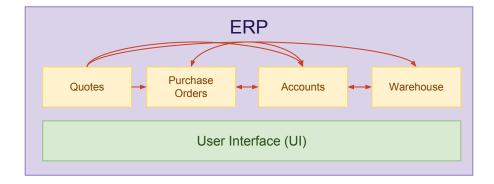


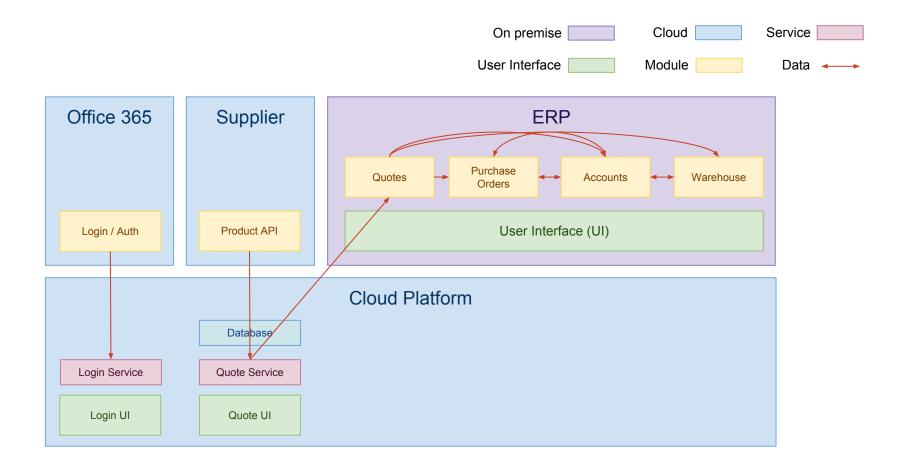
Option A: Lift and Shift

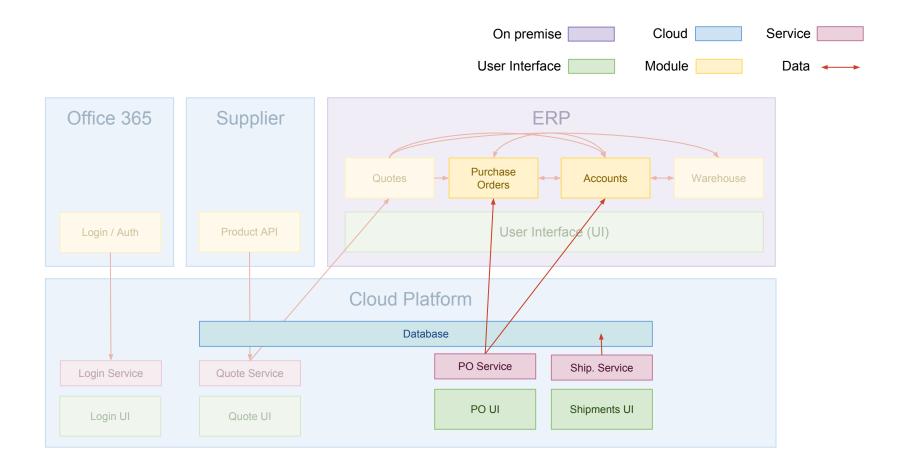
Option B: Gradual Change

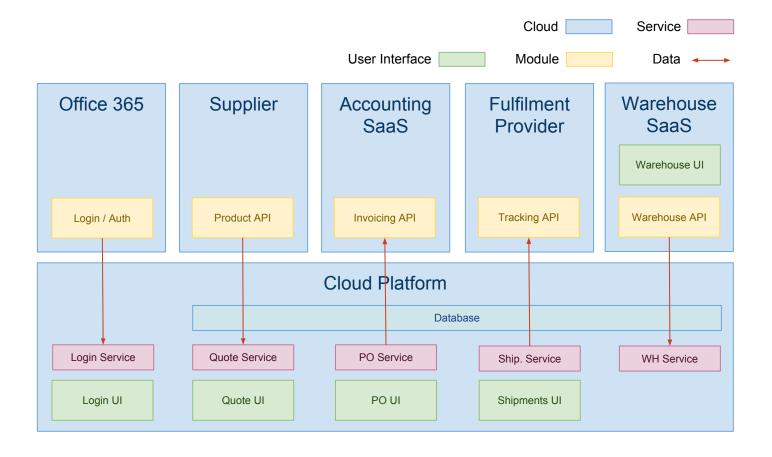
	Pros	Cons		
Option A: Lift and shift	 Less change to business process Reduce costs sooner Increase reliability (no longer on-prem) 	 Business still locked into monolith Expensive licenses Integrations with monolith are expensive Big bang can mean big failure 		
Option B: Gradual Change	 Migrate department at a time Less risky as biting off smaller chunks Fit software to business, not business to software Can learn and adapt as we go 	 Keep on-prem for longer More complex to manage Risk of reinventing wheel User experience not as consistent 		







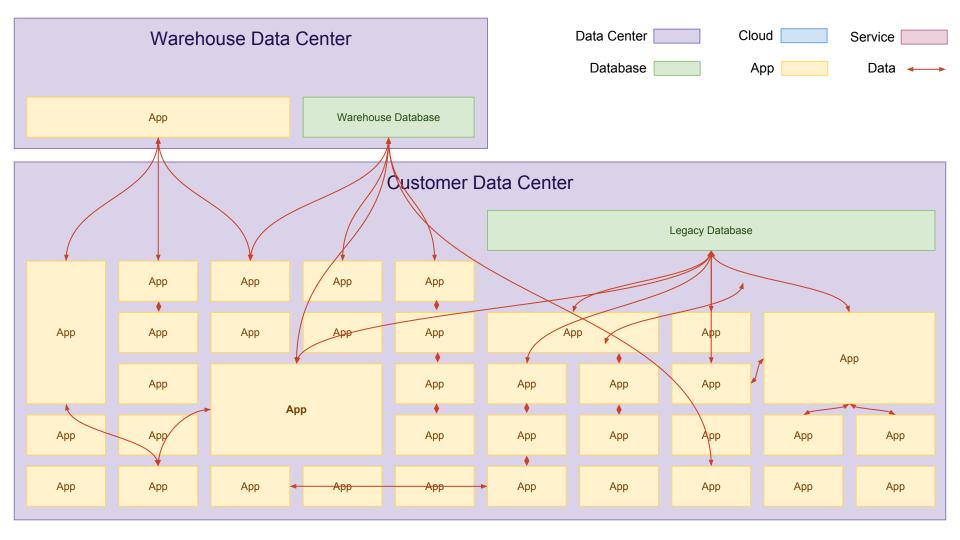




Migrating 50 highly coupled applications



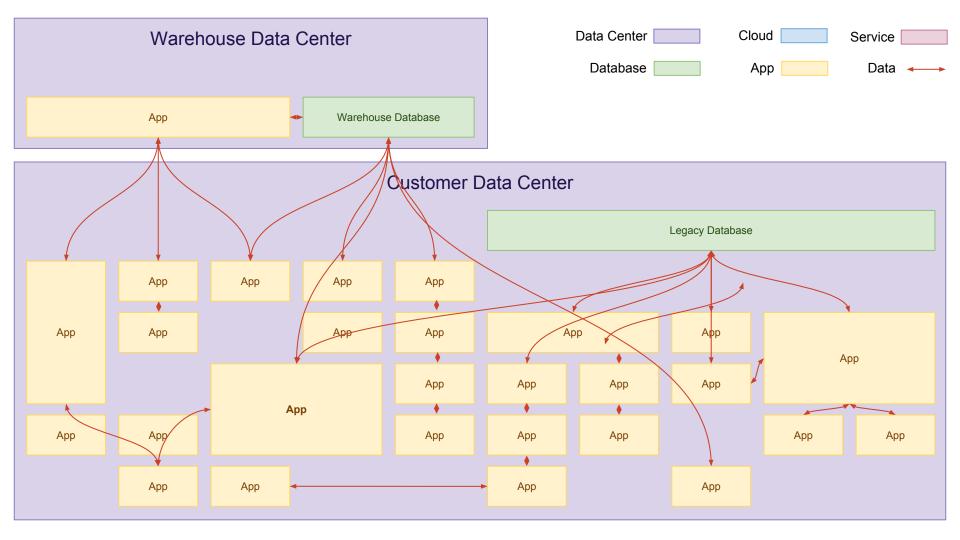
Option A-Z: Where do you start?



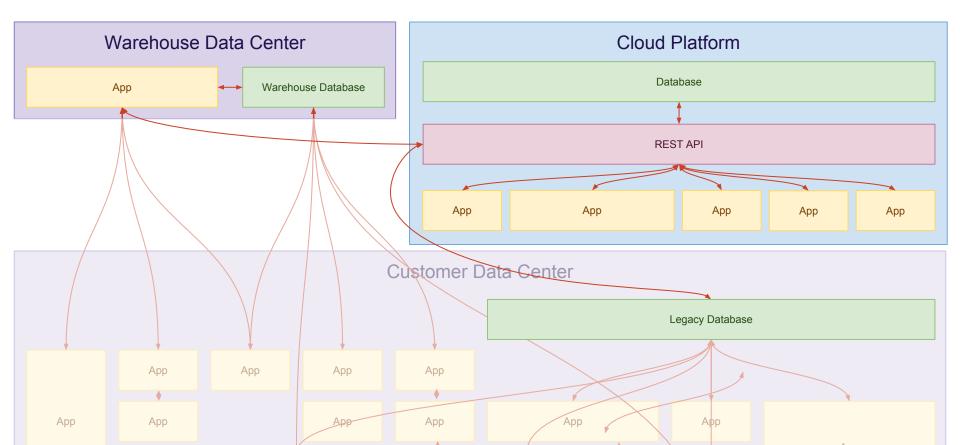
What is still in use?

What is mission critical?

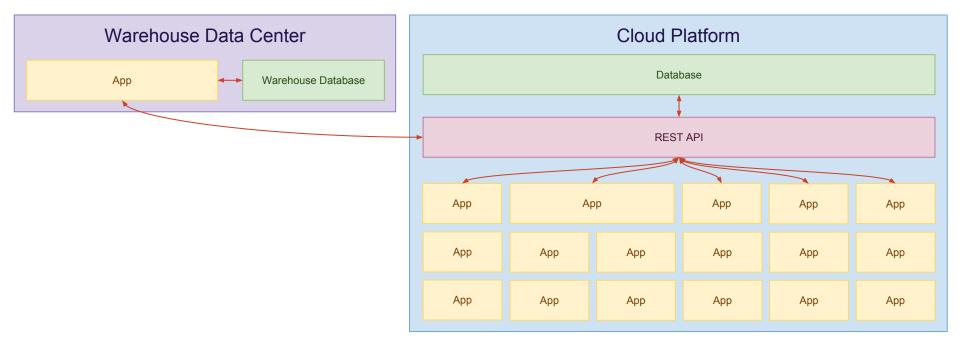
Who uses what? (dept. and role)



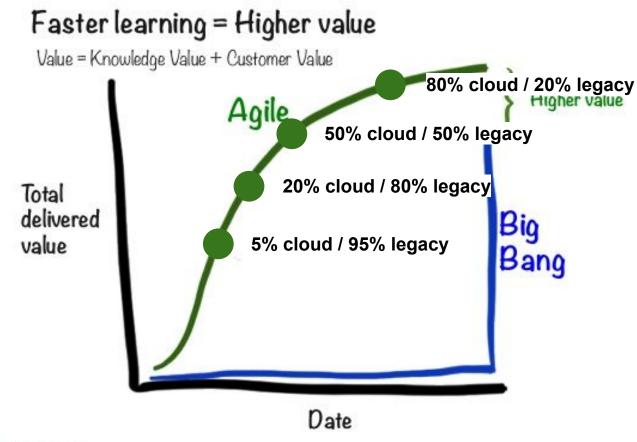
Data Center	Cloud	Service
Database	Арр	Data 🛶



Data Center	Cloud	Service	
Database	Арр	Data	←→



The road to the cloud is an imperfect path



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3. Adopting Tools

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Lack of expertise doesn't have to mean outsourcing



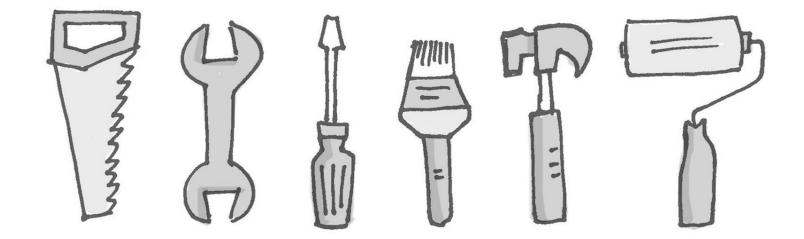
Create space to learn and fail

ANSIBLE

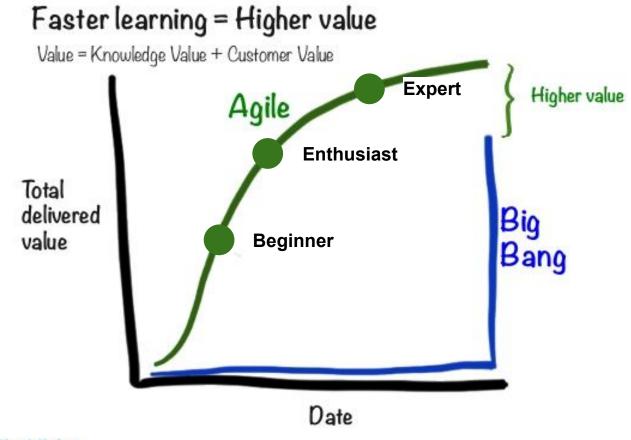
Build experience with tools

	Beginner	Enthusiast	Expert
Usage	Single team using it Used on limited set of applications	Multiple teams Reusable at server level: - Ruby app - DB - Queue	Entire organisation using Multiple roles per server: - base security - language - DB
Edition	Community	Community (supported?)	Ansible Tower (or similar)
Infrastructure	Very little, run from engineers machines	Evaluating centralisation with Tower or Jenkins	Heavy automation and centralisation
Expertise	Focus on learning the basics of Ansible	Focus on reducing duplication Begin Ansible/DevOps guilds to share ideas	Focus consolidation as estate grows Collaboration between devs + ops + security

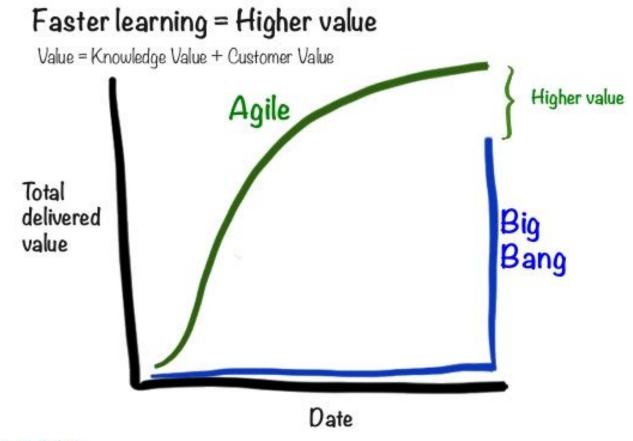
Ansible makes it easy to dip your toe in



Simpler to get going with Ansible for both infra and configuration



Henrik Kniberg



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BUILDING HIGH PERFORMANCE AGILE TEAMS

A Made Tech





Thanks!

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