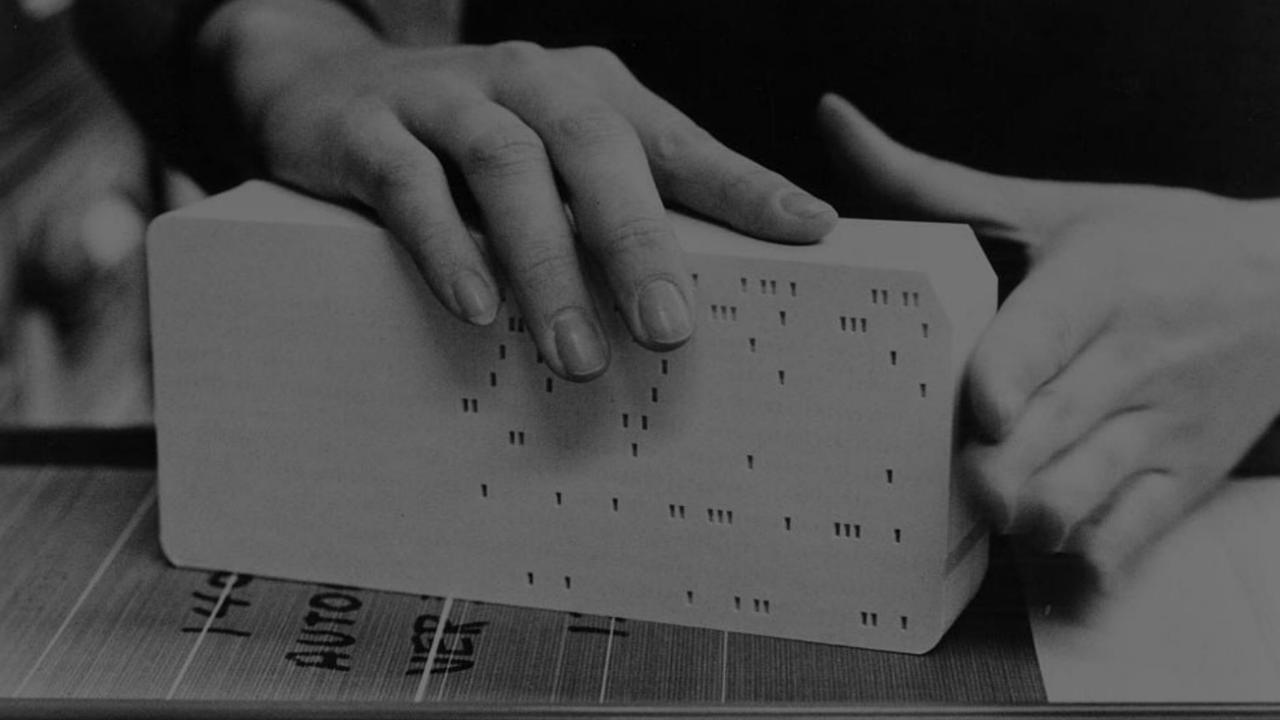
arcsin(2) 0°=1[a0] Road to DevOps: Are we ready for transformation? Mustafa Toroman

Mustafa Toroman

- Solution Architect @ CLOUDEON part of Devoteam
- @toromust
- Microsoft Azure MVP, C# Corner MVP, DOI ambassador



How did we deliver software in the past?





In the "I'm getting old" department.., a kid saw this and said, "oh, you 3D-printed the 'Save' Icon."



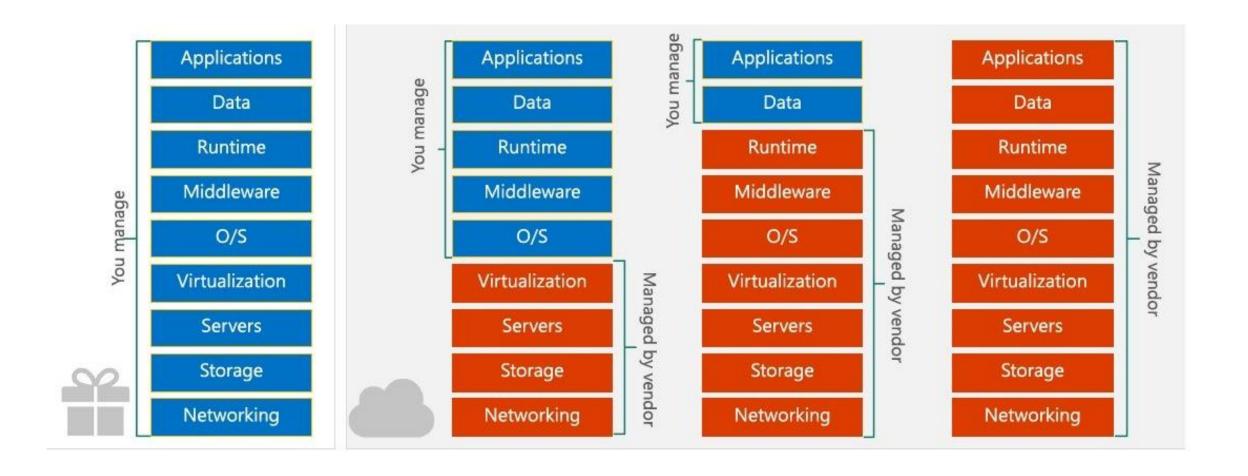






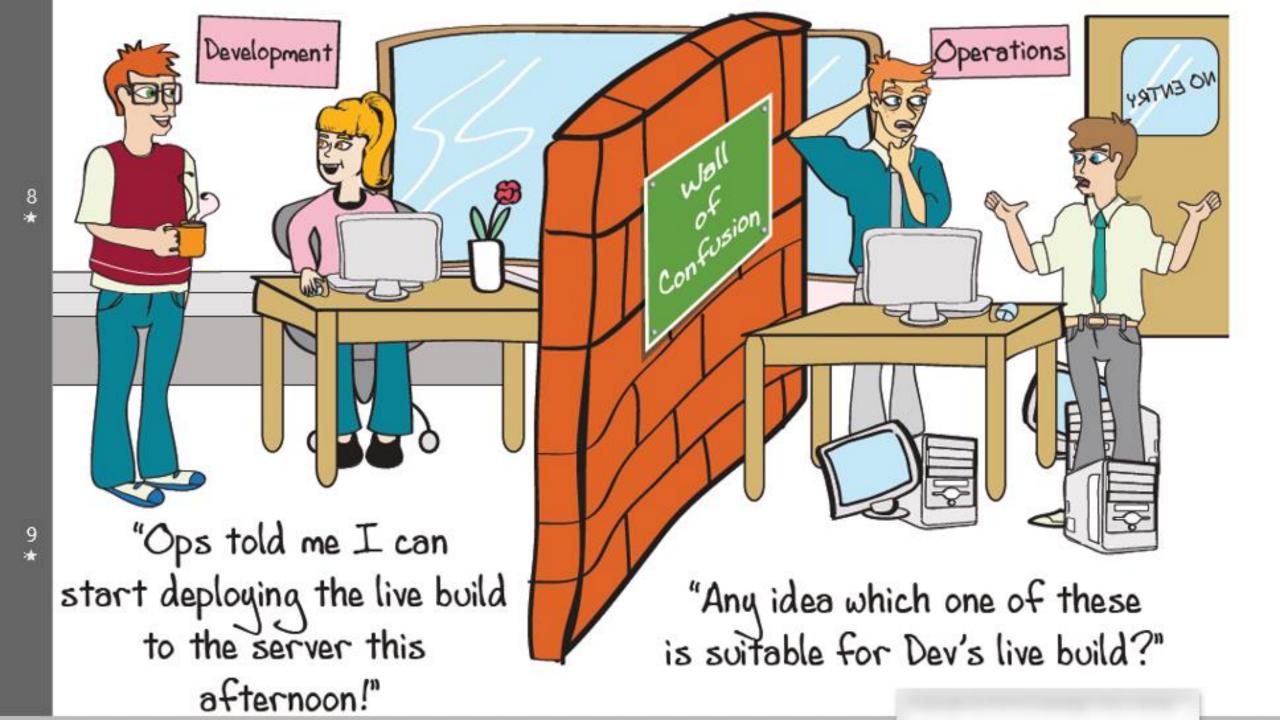


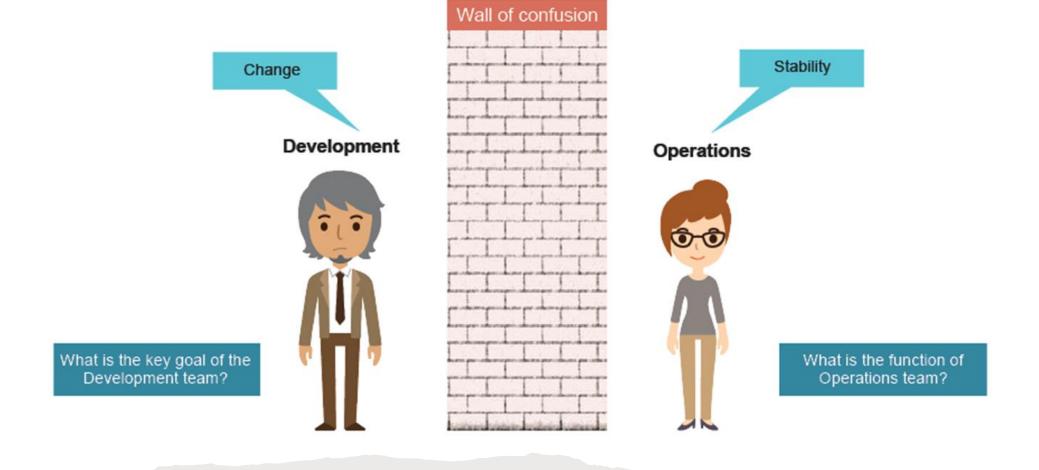












Us or them?

"It works on my machine..."

- Dev

"It's not the server, it's your code."

- Ops

"6 days after successful deployment,
Server experiences high load."

- Dev or Ops?

"Software is deployed to test environment.
- Dev or Ops?
You can't log into application "

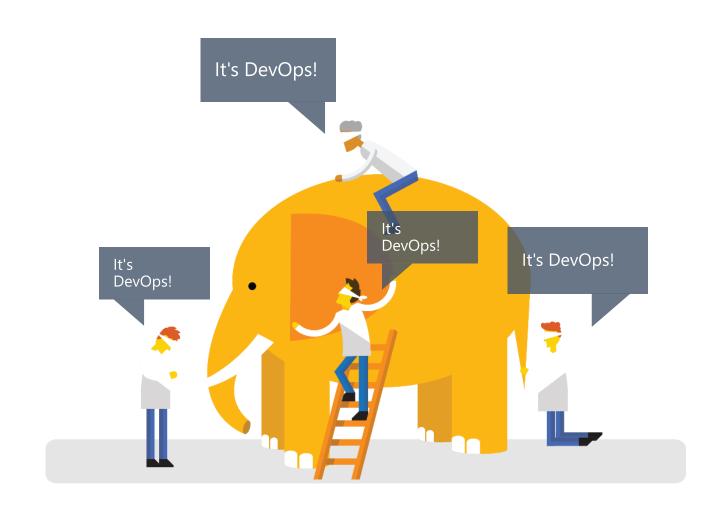
"There is an issue with build server.

- Dev or Ops? The Code doesn't build. "

Dev and Ops problems – TODAY!

- There is no formalized "Handover" Between Two Teams
- Operations is facing with problems in the Production
- Organization "Silos" Isolated Work ("We" "They")
- Development is all about "new things" (change), and Operations worries that "all works" (stability)
- Different Tools
- Disinterest for Other Team
- Different environment (DEV-TEST-PROD)
- Blame Game
- Different Processes (Scrum, ITIL, Waterfall....)



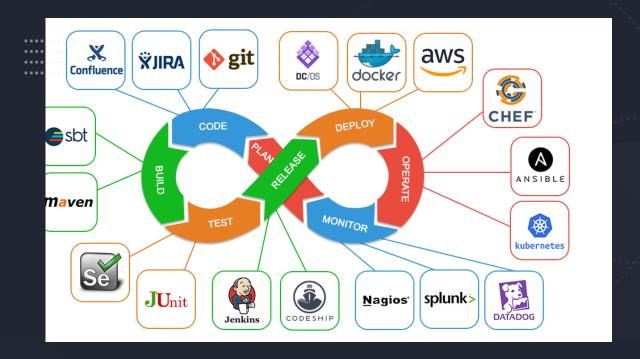


• "DevOps is the union of people, process, and products to enable continuous delivery of value to our end users."

-Donovan Brown

- DevOps is primarily:
 - New culture
 - New way of thinking

Automation – Automate EVERYTHING



Continuous Integration

Continuous Integration usually refers to integrating, building, and testing code within the development environment.

Martin Fowler

"Continuous Delivery is about putting the release schedule in the hands of the business, not in the hands of IT. Implementing Continuous Delivery means making sure your software is always production ready throughout its entire lifecycle – that any build could potentially be released to users at the touch of a button using a fully automated process in a matter of seconds or minutes.

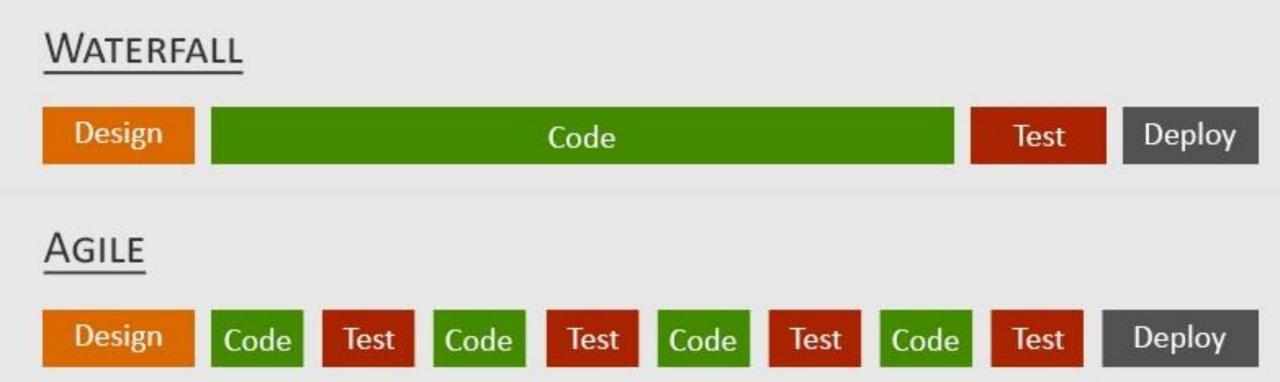
Continuous Deployment

Continuous Deployment is subtly different to Continuous Delivery in that release are automatically pushed into production when all tests pass. In Continuous Delivery release is a human decision.

Source: Dave Farley

COMPANY	DEPLOY FREQUENCY	DEPLOY LEAD TIME	RELIABILITY	CUSTOMER RESPONSIVENESS
Amazon	23,000/day	minutes	high	high
Google	5,500/day	minutes	high	high
Netflix	500/day	minutes	high	high
Facebook	1/day	minutes	high	high
Twitter	3/week	minutes	high	high
Typical enterprise	once every 9 months	months or quarters	low/medium	low/medium

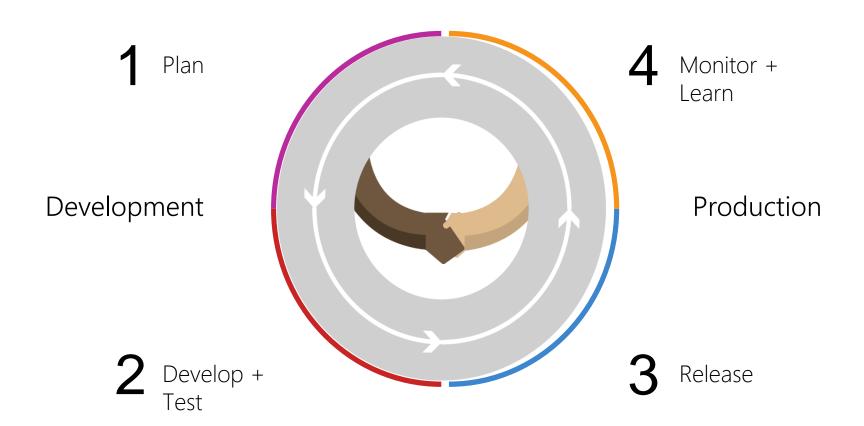
PROJECT EXECUTION METHODOLOGIES - THE CHANGE



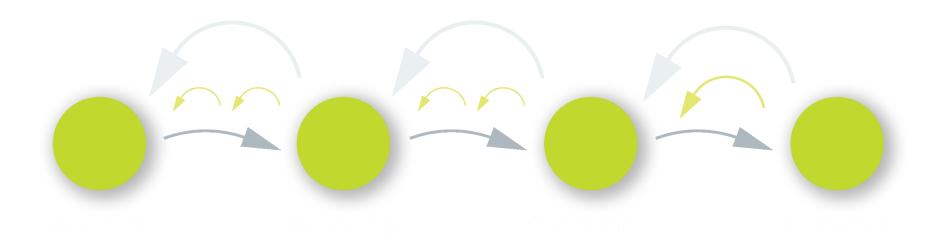
PROJECT EXECUTION METHODOLOGIES – THE CHANGE



Design



Increase Feedback



Experimentation and Learning



Tools and practices

Rethinking project management practice

- ✓ Use the **same tools** as the **team**
- ✓ MVP 'Done is better than perfect'

HOW TO APPLY THIS TO YOUR ORGANIZATION

- ✓ Start small
- ✓ Implement end to end automation
- ✓ Build a culture that embraces the change
- ✓ Reward **teams**, not individuals
- ✓ Create a common outcome based dashboard

