

Road to DevOps: Are we ready?

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AZURE SATURDAY SPONSORS



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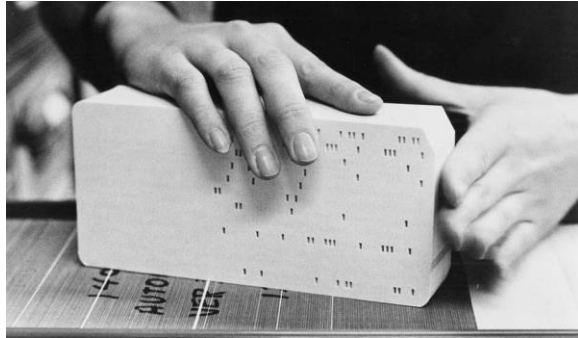
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C:\> CMD IT Solutions



Software Develop and delivery – long time ago!



Software Develop and delivery – long time ago!



Bill Gross ✓

@Bill_Gross

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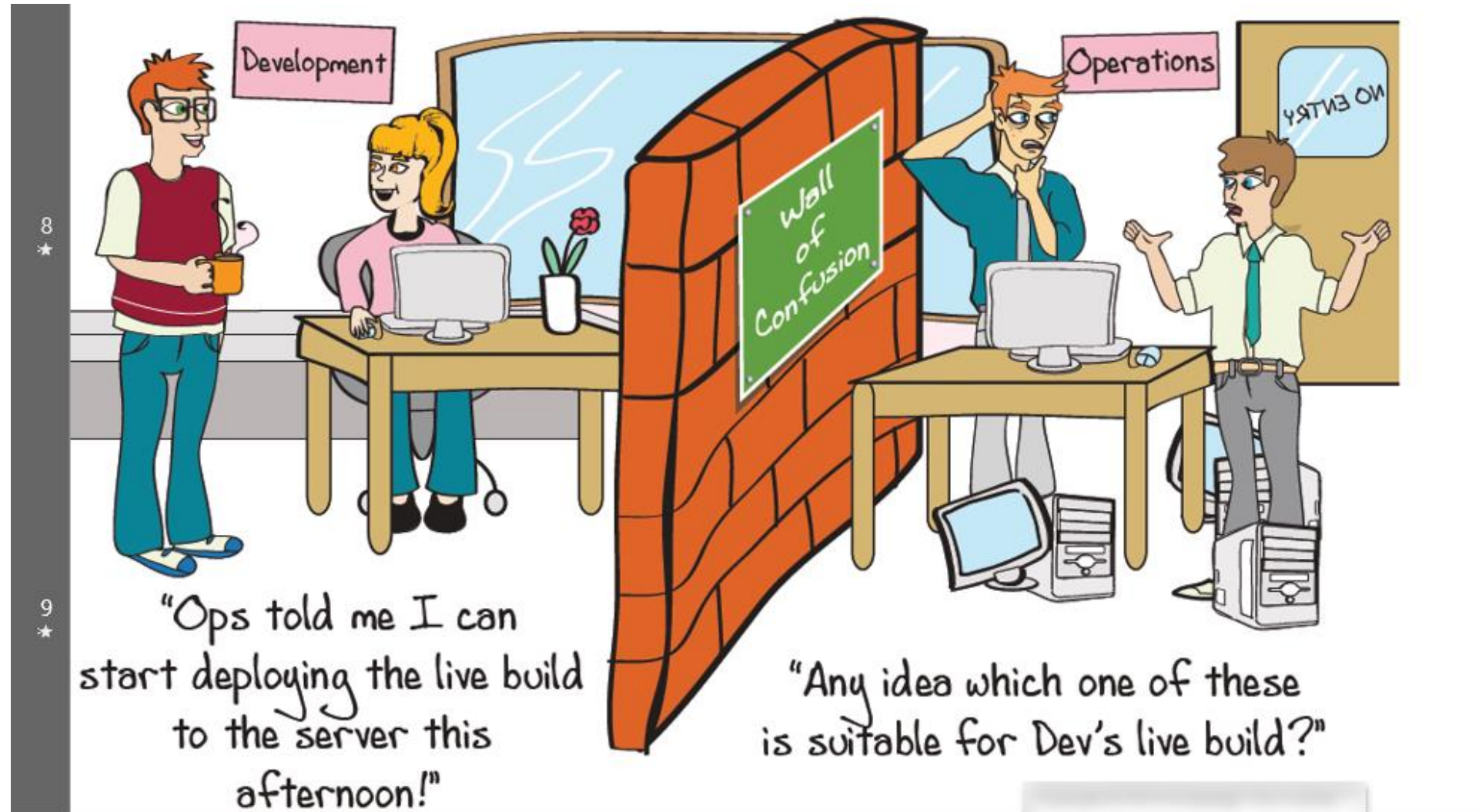


In the "I'm getting old" department..., a kid saw this and said, "oh, you 3D-printed the 'Save' Icon."

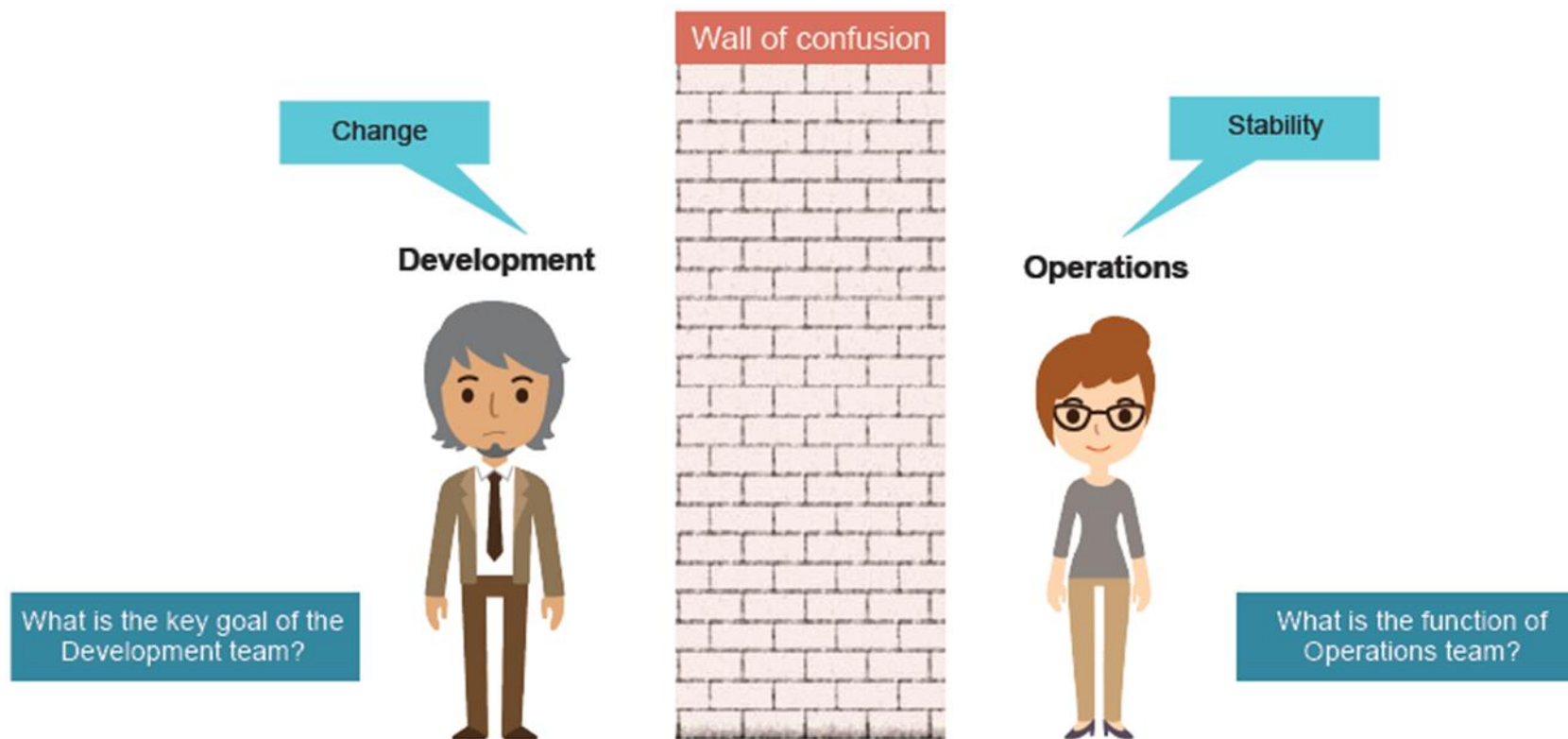


11:48 PM - 17 Oct 2017

What is Dev, what is Ops?



What is Dev, what is Ops?



We 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.
You can't log into application " - Dev or Ops?
- "There is an issue with build server.
The Code doesn't build. " - Dev or Ops?

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....)

Problems Devs and Ops – TODAY!

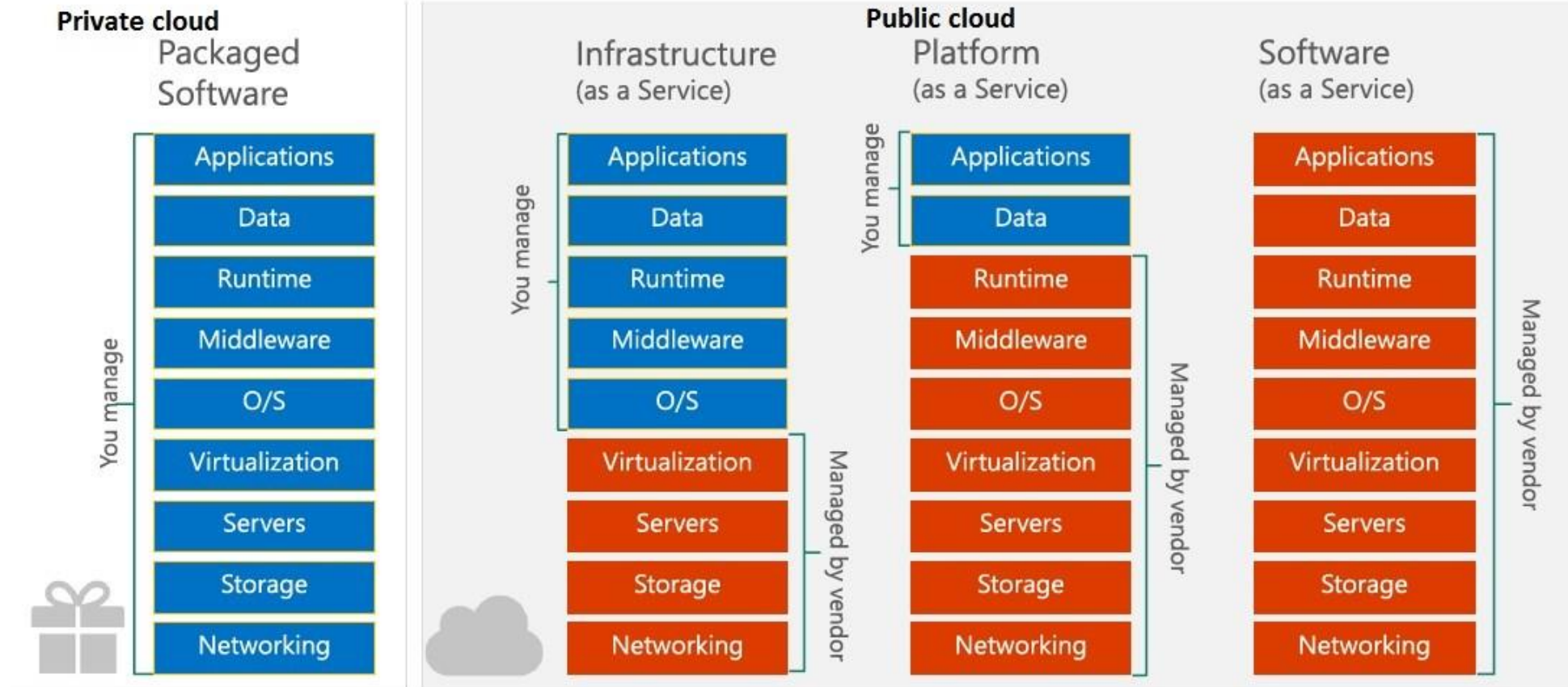
- Main problems today's any product development, especially in IT:
 - Delivery speed
 - Stable Environment
 - Requirements are unknown - upfront
 - Changes, Changes, Changes
- Main challenges in IT today :
 - Concept to Cash
 - Time to Market
- The Plan is NOTHING, Planning is EVERYTHING!
- What is common to: Uber, Spotify, Airbnb, Apple Pay...?

THEY KILL THE TRADITIONAL WAY OF DOING BUSINESS

Speed and reliability

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

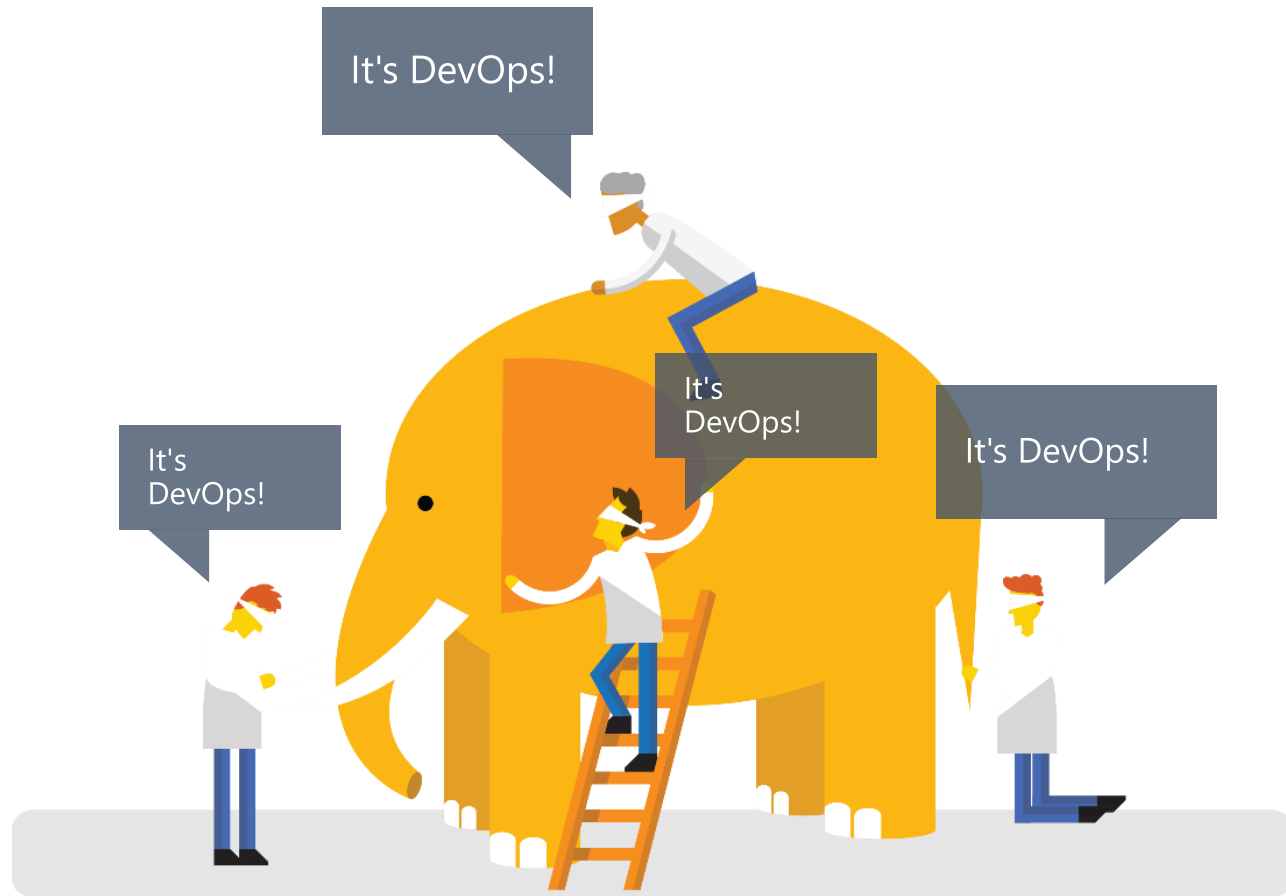
Solutions?



Solutions?



What is DevOps anyway?



What is DevOps anyway?

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

-Donovan Brown

What is DevOps anyway?

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

What is DevOps anyway?

PROJECT EXECUTION METHODOLOGIES – THE CHANGE

WATERFALL



AGILE



What is DevOps anyway?

PROJECT EXECUTION METHODOLOGIES – THE CHANGE

WATERFALL



AGILE

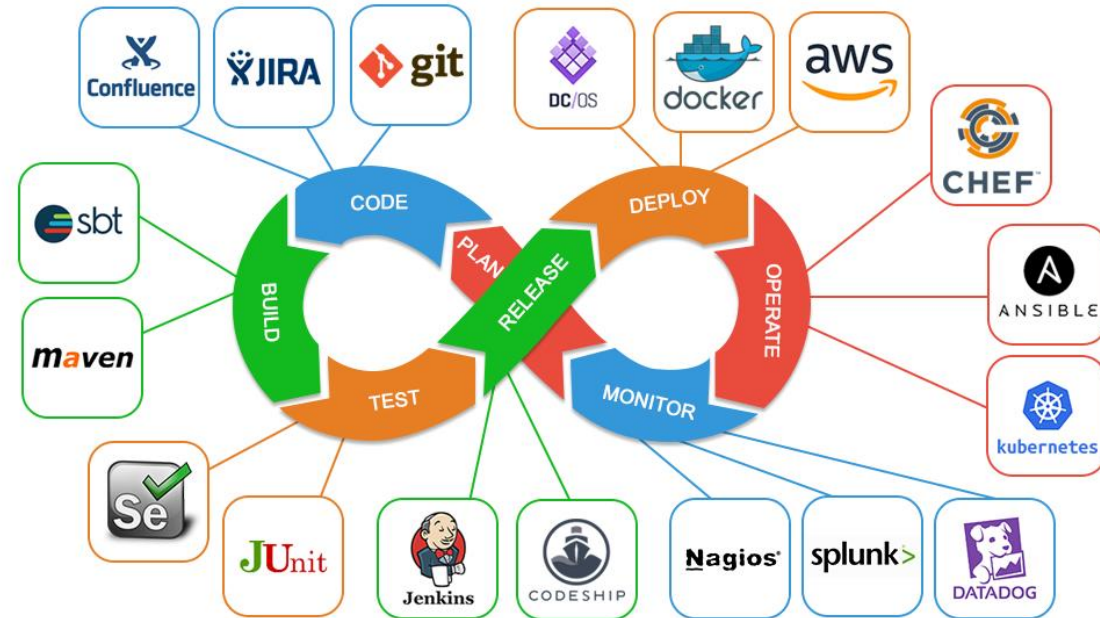


DEVOPS



What is DevOps anyway?

- Automation – Automate EVERYTHING



What is DevOps anyway?

- Continuous Delivery
- Continuous Integration
- Continuous deployment

“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 Integration

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

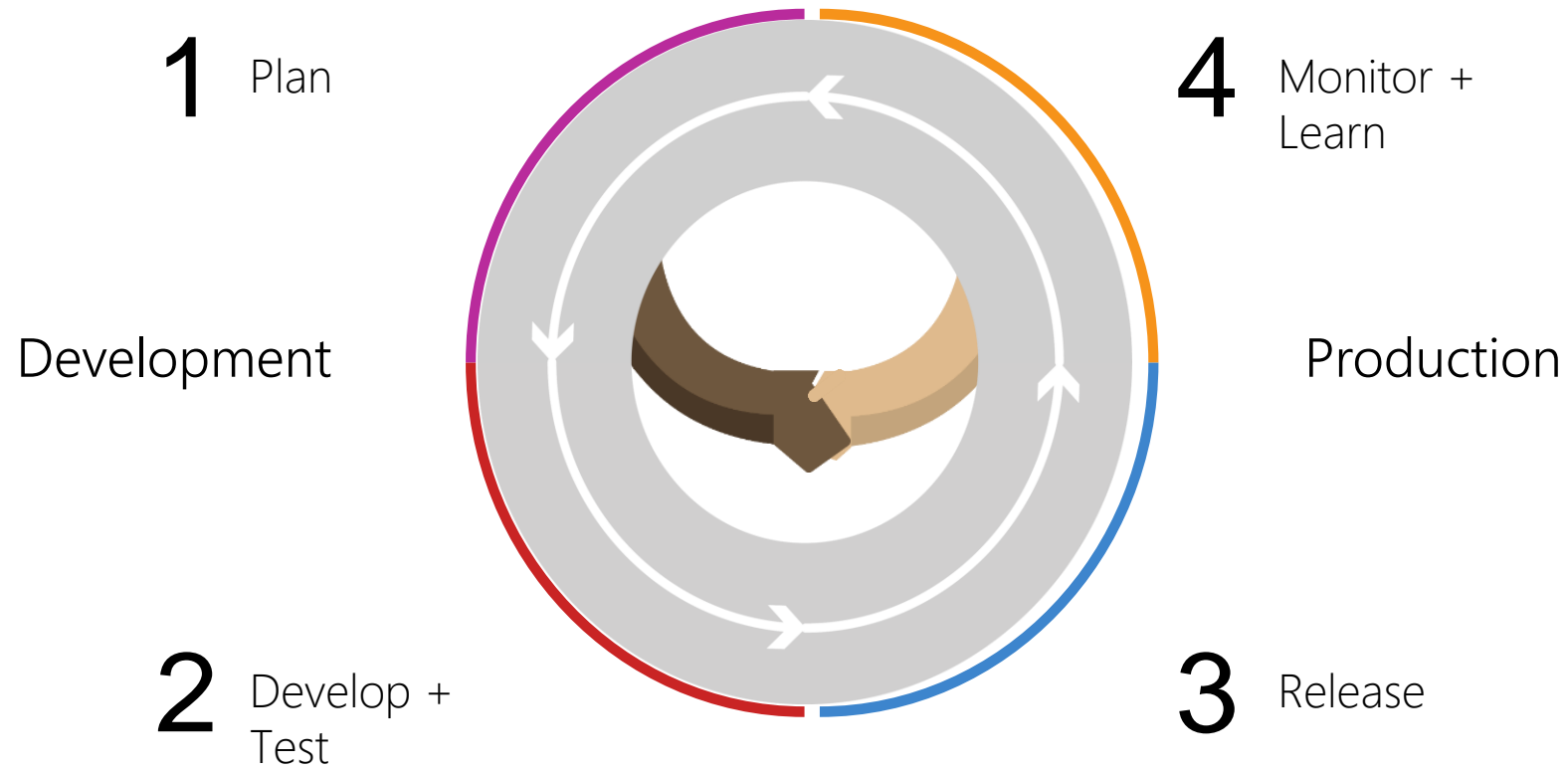
Martin Fowler

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

What is DevOps anyway?



The Conclusion!

- DevOps is a completely new way **Thinking**
- DevOps is a completely new way of organizing
- DevOps is a whole new way of working
- DevOps does not recognize departments within IT, especially DEV and OPS
- DevOps must be recognized by management or is doomed to fail
- DevOps is introduced step by step, as it changes habits
- DevOps introduction requests - time and patience

The Conclusion!

FAIL FAST
LEARN FASTER