IF1006 – DevOps Software delviery way: SDLC Challanges

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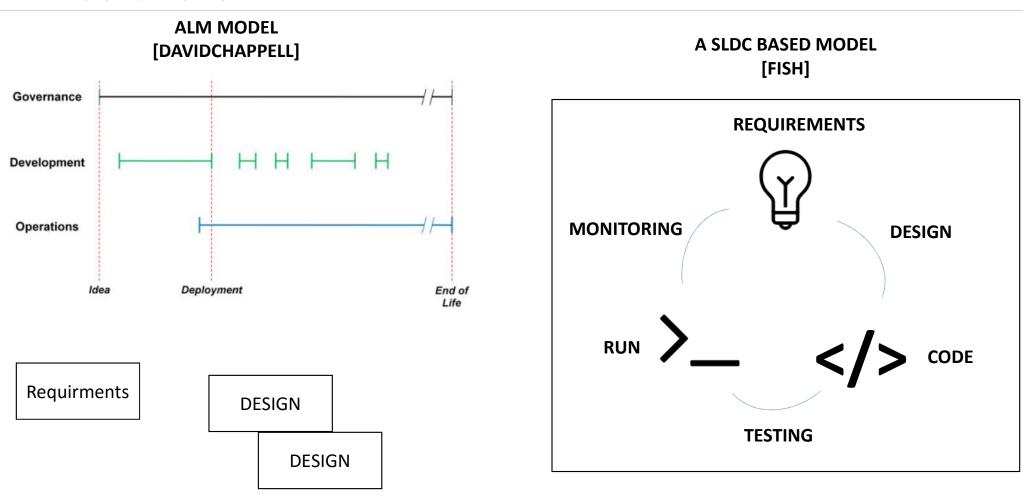
What did we learn until here?

- Digital transformation requeres new wat to do software (product)
- The customer needs is changing in a fast way and we need to provide rapid responses;
- Cloud is a key element for Digitital tranformation;
- Cloud help the software delivery;
- We need to eliminate the DevOps Bubble.
- Testing are a fundamental part of Software delivery

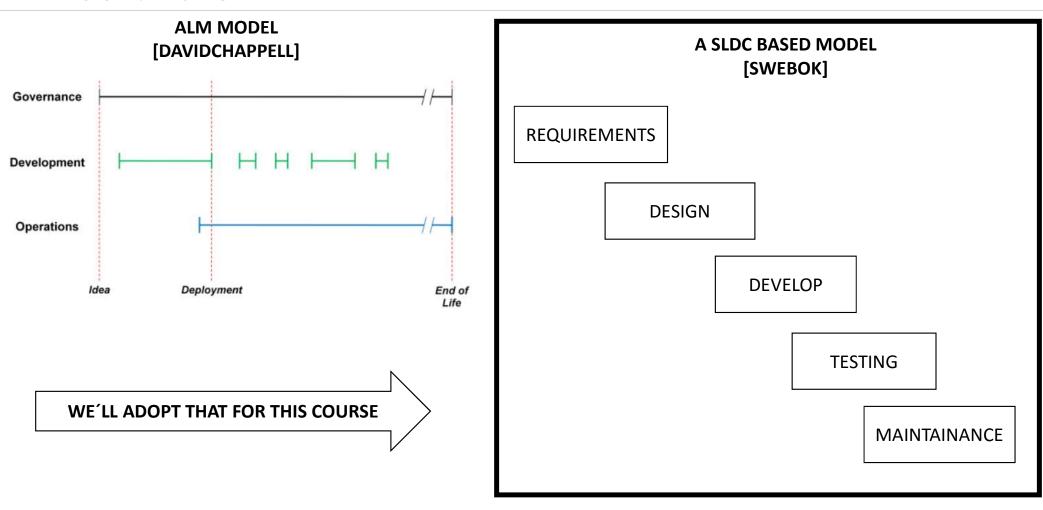
What is software development?

*In a general context

Models to see our way to develop/deliver/manage software



Models to see our way to develop/deliver/manage software



Last years in software delivery (2012)

Knight Capital Says Trading Glitch Cost It \$440 Million

By NATHANIEL POPPER AUGUST 2, 2012 9:07 AM 9 356

Runaway Trades Spread Turmoil Across Wall St.

Wrong decisions trhough whole SDLC turn deployments a nightmare.



Errant trades from the Knight Capital Group began hitting the New York Stock Exchange almost as soon as the opening bell rang on Wednesday. Brendan McDermid/Reuters



Last years in software delivery (2013)



Failures in software development projects inflicts negative impacts in our daily lives.

Home > Vertical IT > Healthcare IT

NEWS ANALYSIS

Healthcare.gov website 'didn't have a chance in hell'

The failure rate for software development projects is high generally, particularly large ones like Healthcare.gov, says Standish Group data













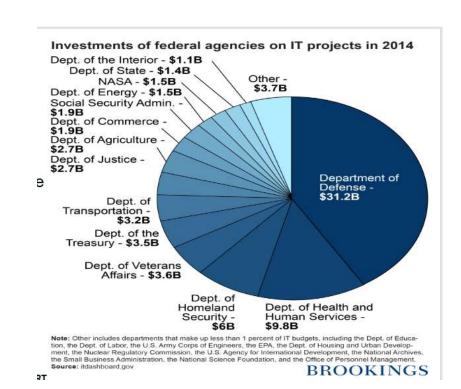




Healthcare.gov website 'didn't have a chance in hell' https://goo.gl/GngXFy

Last years in software delivery (2014)

75.6 billion dollars on IT projects in 2014. Only 6.4% of software is delivered to federal agencies.



Doomed: Challenges and solutions to government IT projects https://goo.gl/CL64YO

Last years in software delivery (2015)

The complexity in/out software Has broken projects.

The Telegraph



HOME » NEWS » UK NEWS » IMMIGRATION

Home Office's 'flagship' £350m immigration computer system ditched

National Audit Office says IT contract failed to deliver, as it discloses backlogs are still a problem in the immigration service



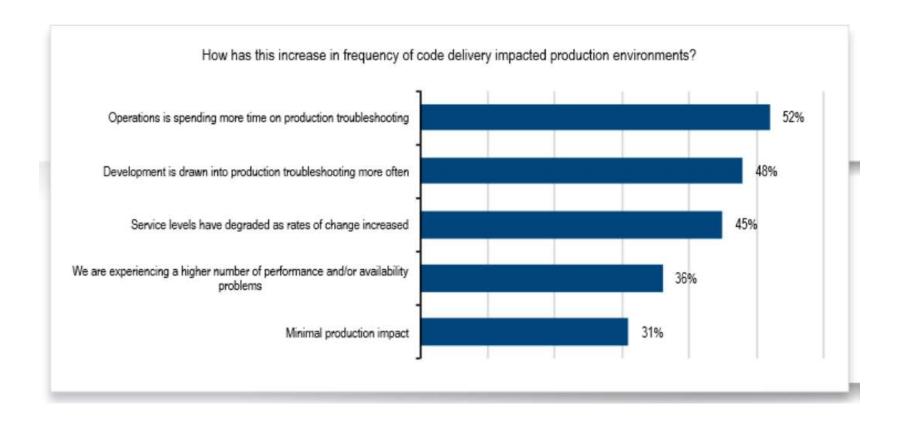
Home Office's 'flagship' £350m immigration computer system ditched (2014) https://goo.gl/toCt2a

Last years in software delivery (2016)

from their core function of writing code. 69 percent of study participants share the view that developers, at their North American organizations, spend 20 to 60 percent of their time on non-functional requirements such as authorization, scaling, high availability, and provisioning. By automating these relatively trivial tasks, each developer could reclaim 1–3 days per week with which they could write more code and add more business value.

Modified From Apprenda Bridging The Gap: 10 Considerations For Building The Application-Centric Enterprise

Last years in software delivery (2016)

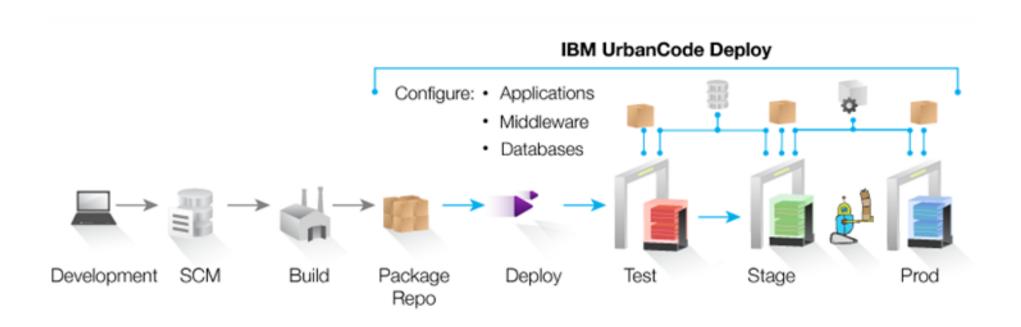


EMA. DevOps, Continuous Delivery, and the Cloud Journey: an evolutionary model.

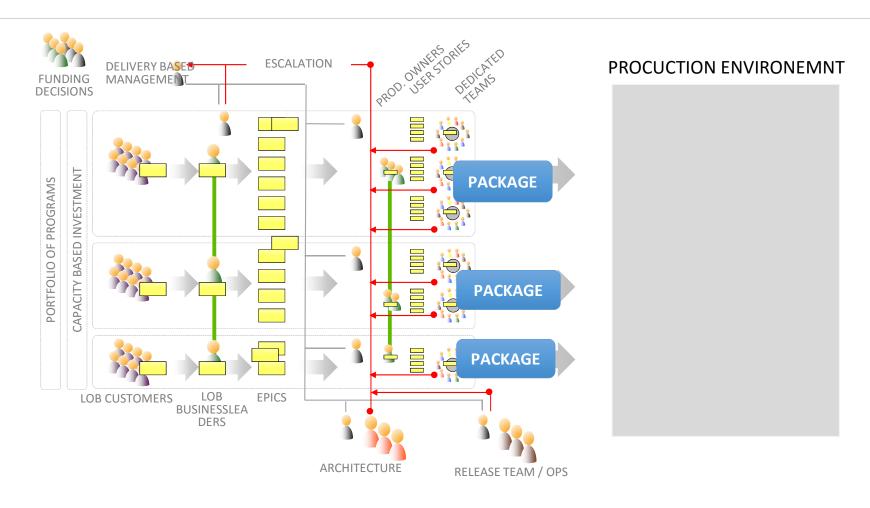
What do you thing about current software delivery reality?



Code path



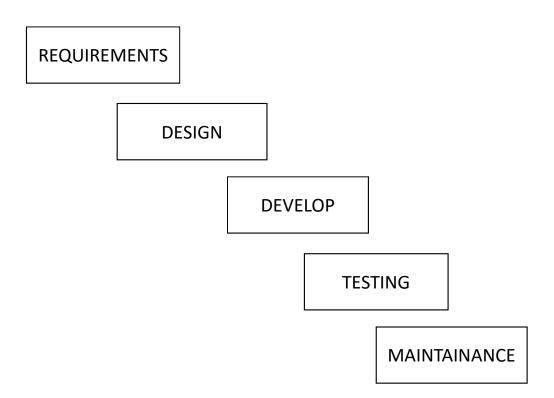
Lets look at this development environment



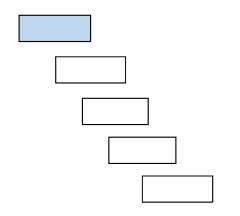
Exercise

The team is in very high pressure due to deadline. What do you do to mitigate the risk of wrong package deployments?

Where is the problem?

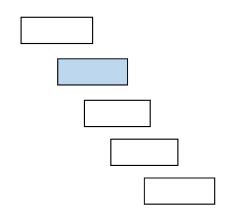


Requirements



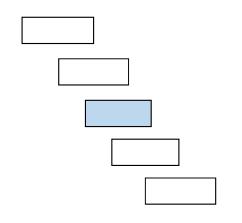
- Lack of detail
- Invisible requirements: even well document documents suffer with lack of strategic content (business);
- Isn't ease to client talk about their needs

Design



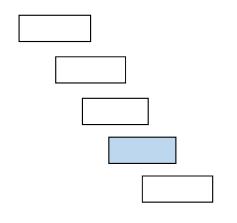
- Estimation;
- Flexbility of plans;
- Software architecting;

Code



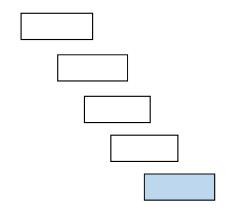
- Skill;
- Creative process;
- Slow;

Testing



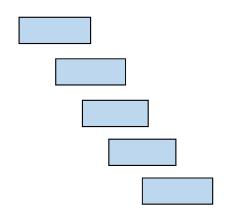
- Understand other ideas;
- Distribuition of systems;
- Multidisciplines (today they need test infrastructure);

Maintainance



- Receives all decision from others stages;
- Heterogeneity of devices;
- Massive distribution;

SDLCs are under constant pressure



- Time-to-Market;
- New and growing requirements;
- User is more exigent;

Result of misalignment inside organizations

- We are spent more Money than needed;
- Development environments are more expensives;
- We are empowering silos and historical barriers.
- We lack opportunities;

Result of misalignment inside organizations

- Dev + Ops [THIS IS OUR FOCUS]
- Buz+Dev+Ops
- Dev+Test+Ops
- Dev+Sec+Ops

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