



THE DEVOPS MATURITY CURVE

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Training: Sept 23-24 // Conference: Sept 25-26, 2014













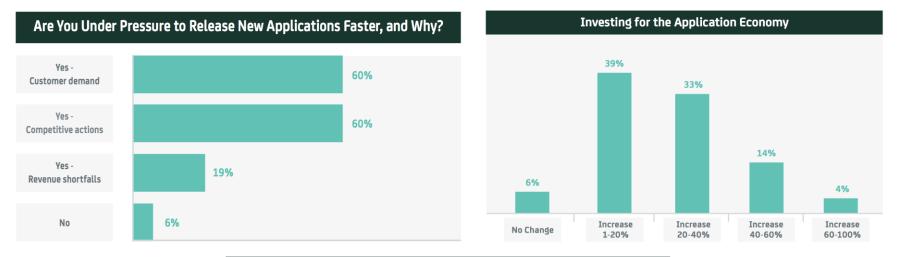








How To Survive & Thrive In The Application Economy CA, September 2014



Percent of Development Done In-house





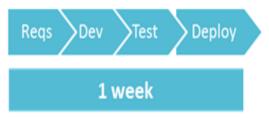
NETFLIX



Rates Of Software Releases Are Increasing



Today/Tomorrow





10 deploys per day Dev & ops cooperation at Flickr

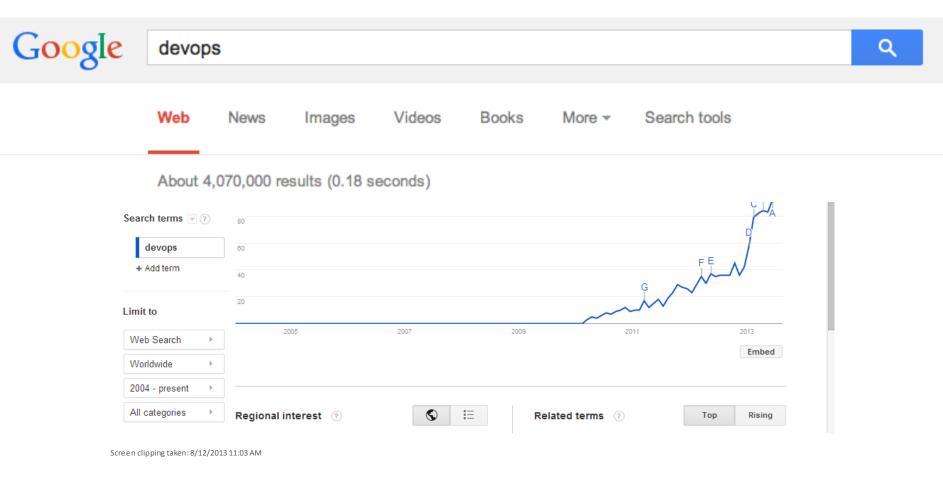
> "New application projects surge in 2013 and beyond."



Continuously Deploying Culture Scaling Culture at Etsy



The Appeal of DevOps...Increase Number of Releases



"Its all about number of releases!"

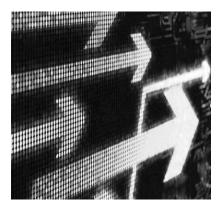


Key Themes Within DevOps

A scientific, Data Driven approach to product development



Using Automation and to manage infrastructure as code



Better Collaboration between Development And Operations

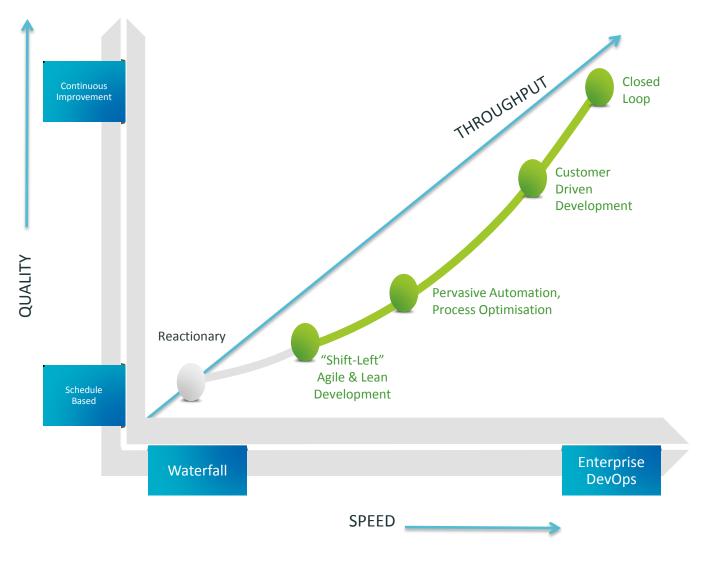


Development and Operations adopting best practice from each other





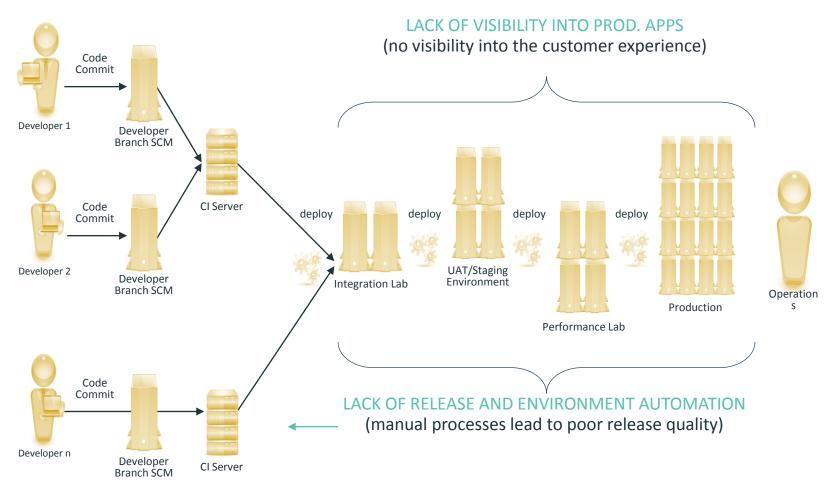
DevOps Maturity Model



The Challenge of Today's Complex and Dynamic IT Environment

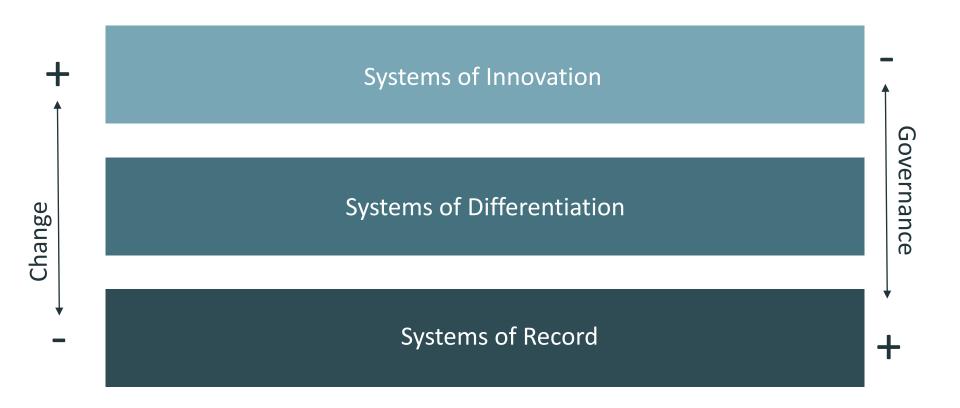
(too many bugs escape downstream)

LACK OF AUTOMATED TESTING (small changes could have major unintended consequences)





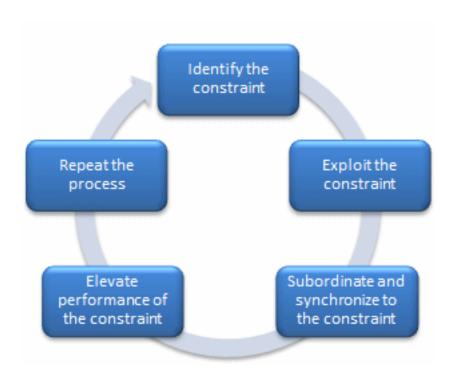
Pace-Layered Application DevOps Approach





Source: Gartner

The Theory of Constraints

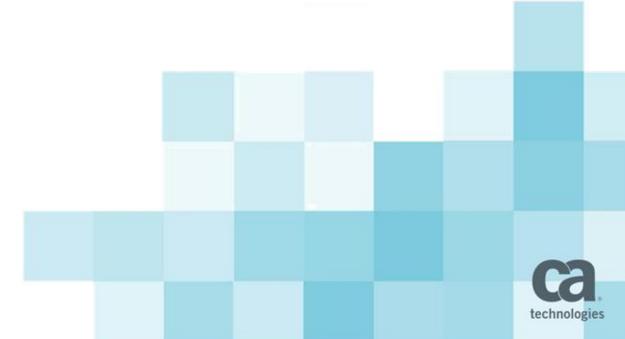


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The Theory of Constraints uses a process known as the Five Focusing Steps to identify and eliminate constraints (i.e. bottlenecks).



Snap Poll: Do you have an Agile development strategy?

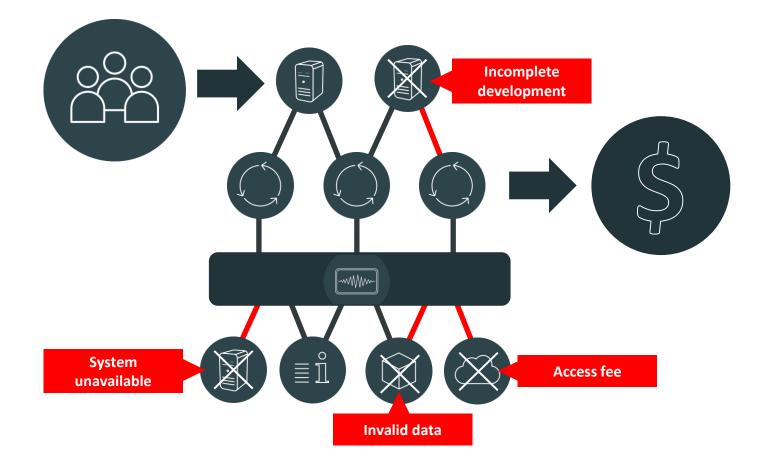


Kanban principles #1

6	3	5	3	5
Pending	Analysis	Development	Test	Deploy
	Doing Done	Doing Done		



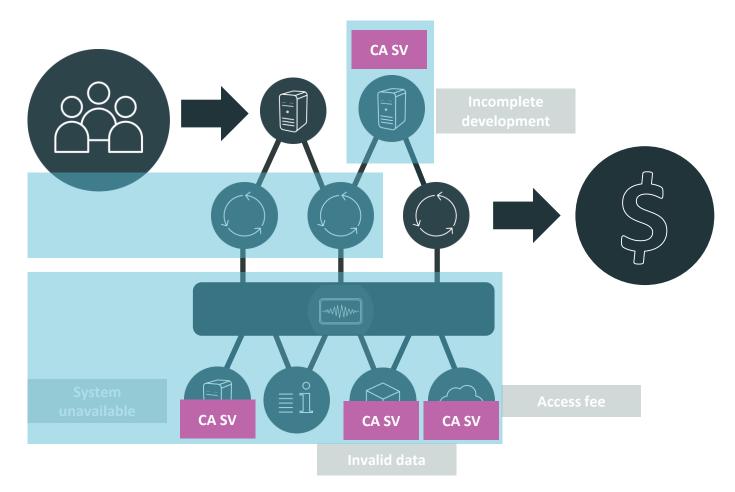
Constraints for Agile Development



"I can't do anything until I have everything... and I never have everything!"



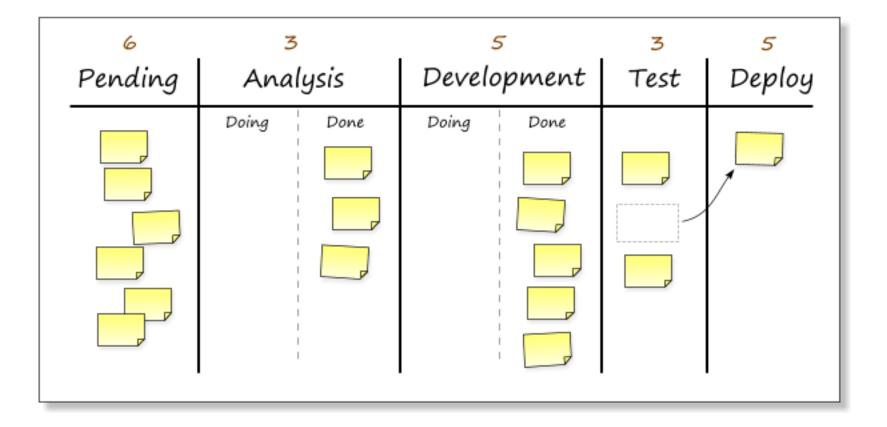
Service Virtualization



"I have everything I need, when I need it!"



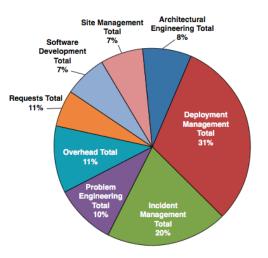
Kanban principles #2





High release volumes also bring challenges

"Gartner believes that more than 80% of all mission-critical IT service outages result from people and process errors and failures, and of those outages, more than **50% result from a lack of coordination between change, release and configuration management processes**."



Data Source: Deepak Patil, Microsoft Global Foundation Services via James Hamilton (Amazon Web Services) http://mvdirona.com/irh/TalksAndPapers/JamesHamilton_POA20090226.pdf

High Costs 75% of IT operation teams' is spent on application release. (Forrester, 2009)



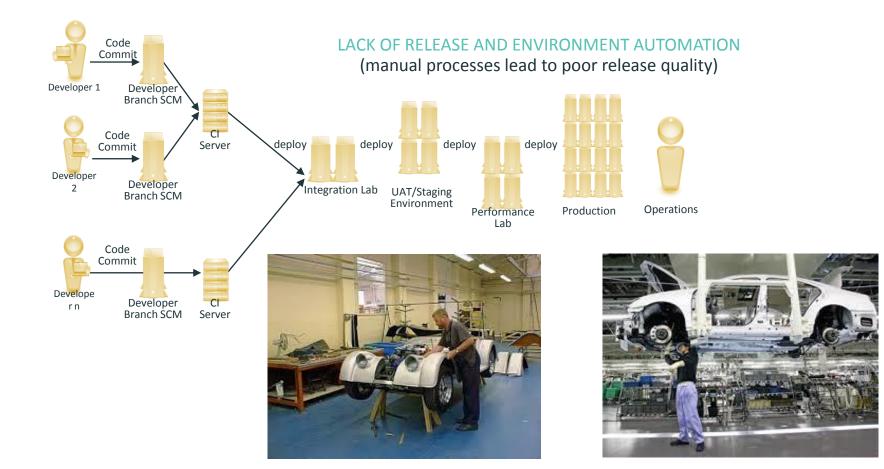


Release Failures 60% of application failure & downtime is release related. (IDC Survey 2009)

Gartner

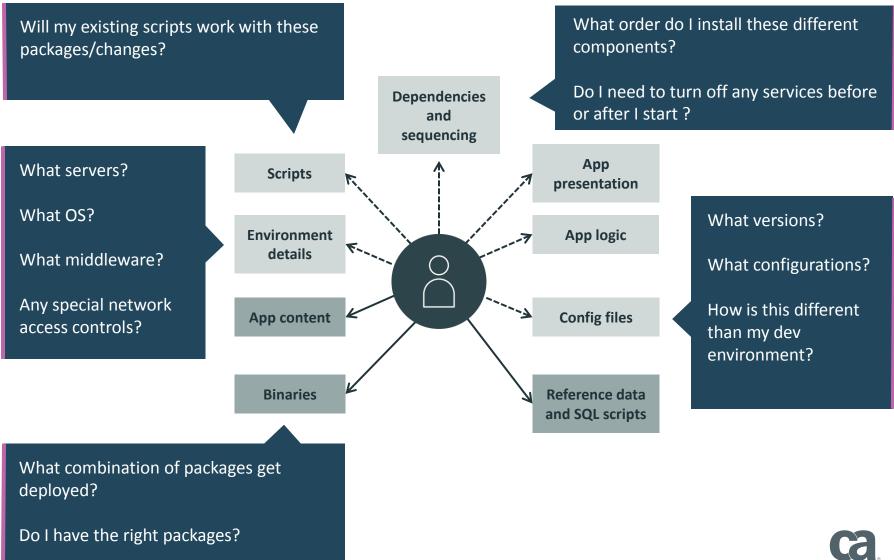
G00258557 Four Steps to Optimize Configuration Management Process and Tools | Published: 31 October 2013 | Analyst(s): Ronni J. Colville

Automate where you can – process not a project



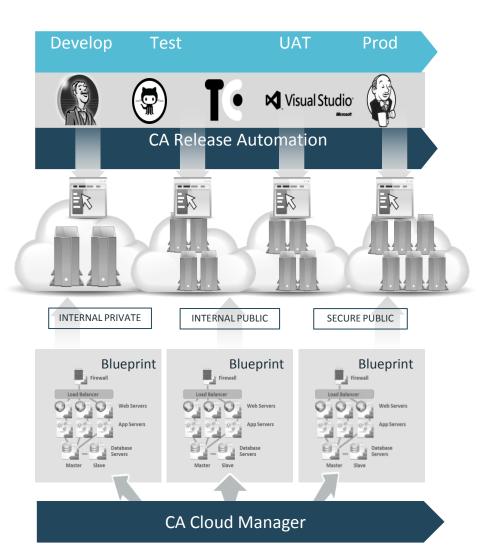


Release Automation Automating the Steps Required to Deploy the Software Package



technologie

CA's Continuous Delivery



Total Integrated Solution - Orchestrating and Accelerating the Software Development Lifecycle

Increase speed/frequency of software releases Automate workflow across existing tool chains Automate application release and promotion

On-demand platforms and environments that end-users need

Governance, visibility, and cost transparency that managers require

Leverage hybrid clouds and enable cloud portability



What can you measure?

- Number and frequency of software releases
- Defect escape ratio
- Time/cost per release
- MTTR
- Outages / performance issues impact
- Cost of resources to deliver applications





ING Bank



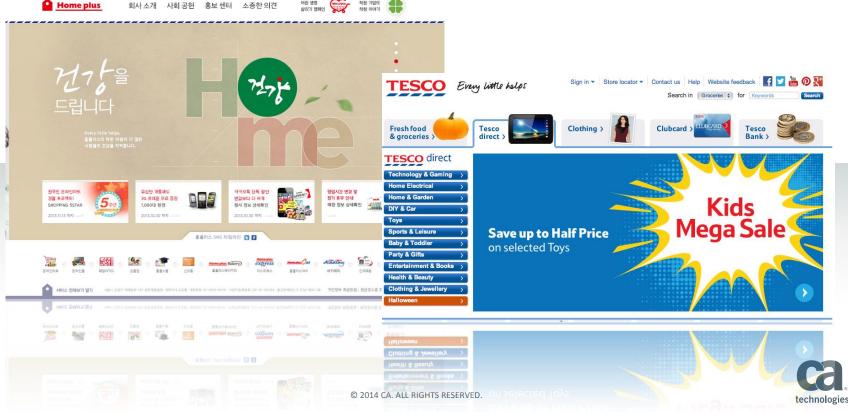




Tesco background

- **Global retailer**
- 530,000 employees across 12 markets

- **75 million** shopping trips/week
- **Online grocery expansion** key to future growth



어린 생명

The business challenge





The ROI/business impact



Change the skills required to perform deployments. "Lower the barrier to entry"



Allow collaboration between **geographically** dispersed teams.



Reduce deployment time from days to minutes



New state of IT



IT extremely responsive to the business

Highly agile X 45 0 pe 0 Ena 0 ser

4500+ deployments per month Enabling Rapid delivery of services

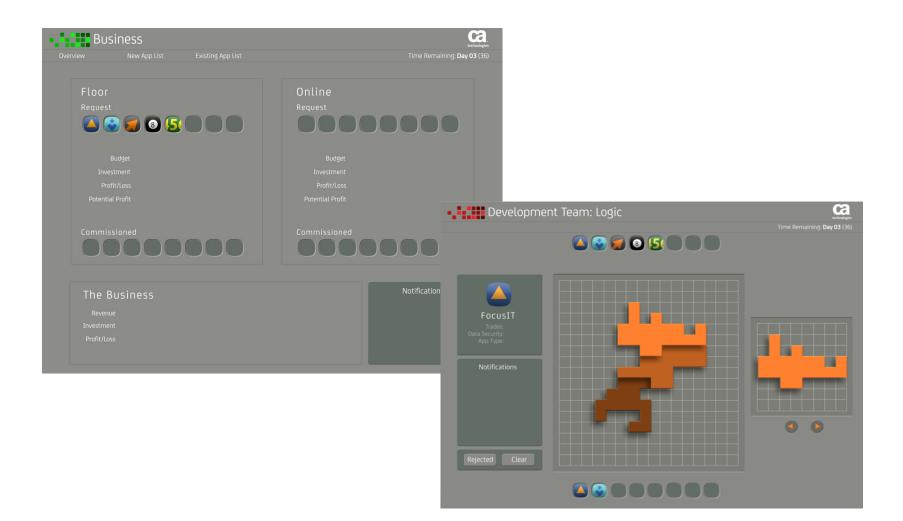


Ask yourself these and more

- 1. Where are your "brake points"?
- 2. Is each release a project or a process?
- 3. Are you automating as much as you can?
- 4. How important is governance?
- 5. What do you measure and how often?



Come to the stand or ask to join the Sim Game







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