



IBM SolutionsConnect 2014 A New Era of Smart

Feb 19-2014 | Sofitel Sukhumvit Grand Ballroom, Bangkok, Thailand



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Testdrive Your Cloud to Fuel the New "Innovation as a Service"





Agenda

- Introduction
- IBM DevOps for Cloud
- IBM DevOps Solution Walkthrough
- Customer Success
- What's Next

Software drives today's innovation for a smarter planet Transforming the way we live, work, and play

ure Area



INSURANCE

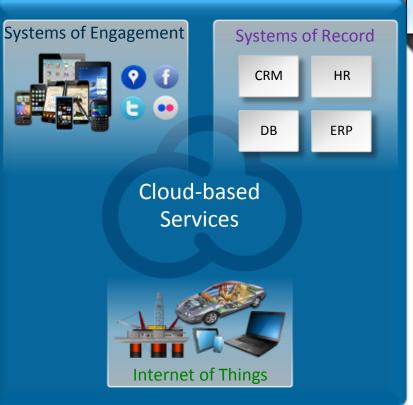


The New Era of Systems of Interaction

6 Billion SmartPhones worldwide

200 Billion

Physical assets with IT intelligence



System z System of Record

OLTP, SOA, on demand

IMS, CICS, DB2, Storage, Messaging, WebSphere

zEnterprise 196, 114, EC12, zBX, IBM zAware

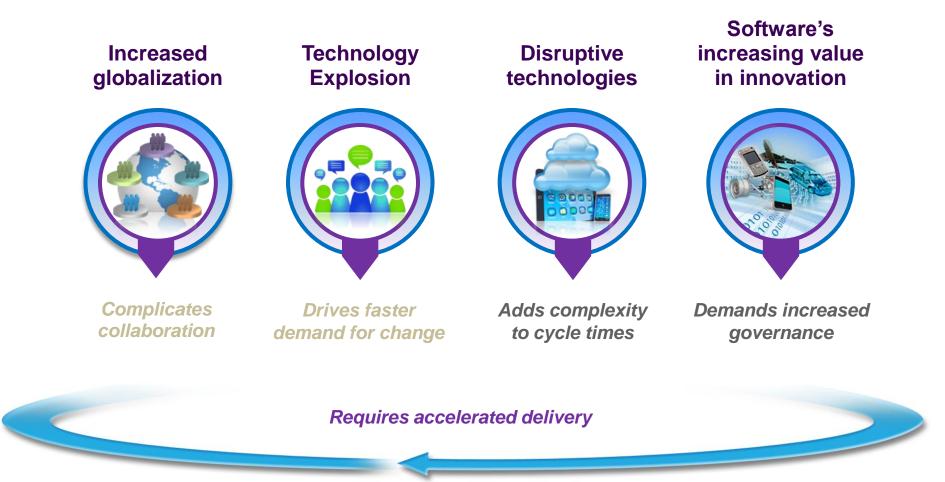
450 Billion

Business transactions / day over the Internet by 2020

60,000 Cyber attacks every day

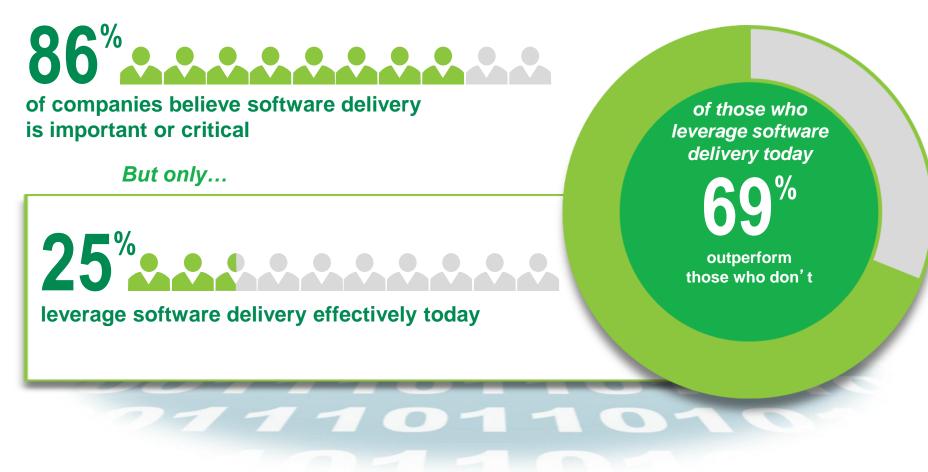


Software and systems delivery is undergoing rapid change Market dynamics and technological innovations create opportunity and challenges





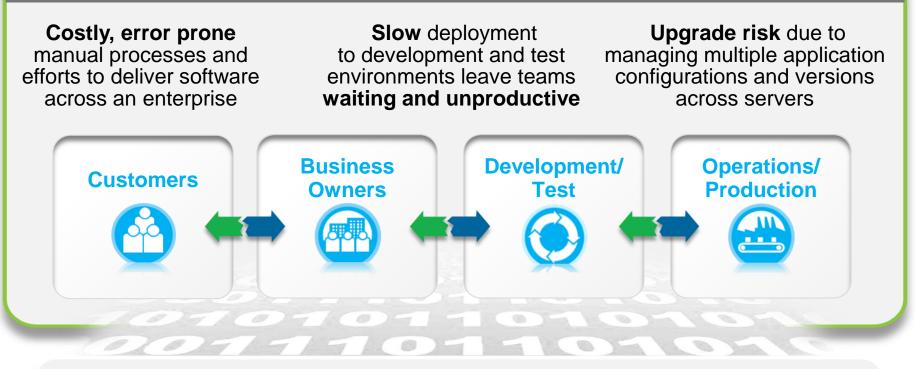
Software delivery is critical to success



Source: "The Software Edge: How effective software development drives competitive advantage," IBM Institute of Business Value, March 2013

And a lack of continuous delivery impacts the entire business





Knight Capital lost **\$440 million in 45 minutes** due to a misconfigured release New Zealand's biggest phone company, Telecom paid out **\$2.7 million** to some **47,000 customers who were overcharged** after a software glitch A bad software upgrade at RBS Bank left millions unable to access money for 4 days

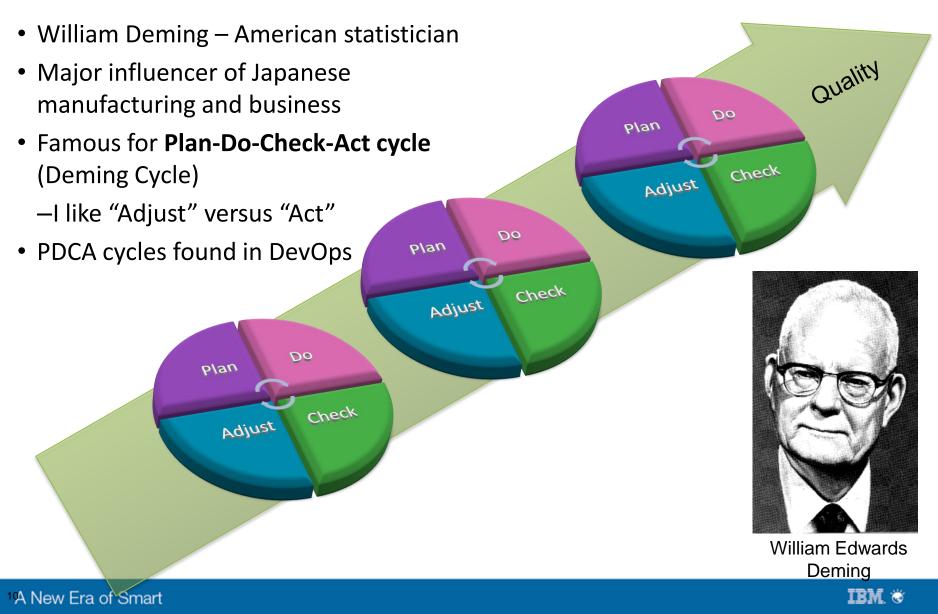


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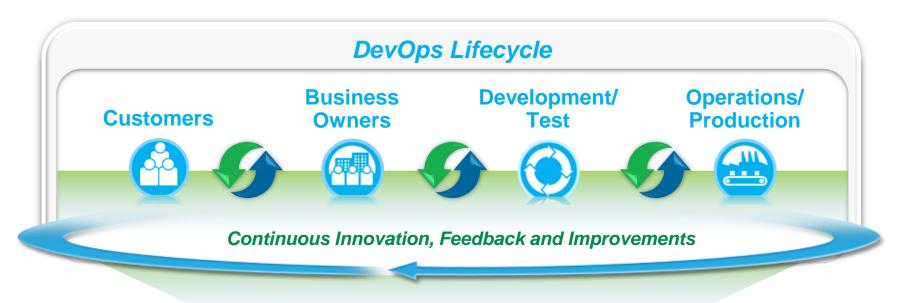
Deming Cycle





DevOps

Enterprise capability for continuous software delivery that enables clients to seize market opportunities and reduce time to customer feedback



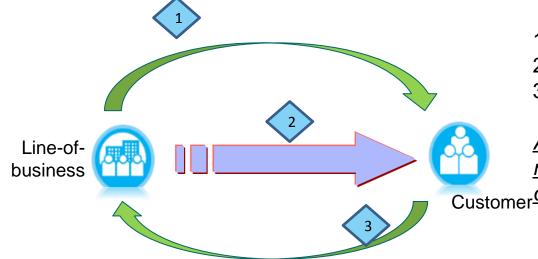
Accelerate Software Delivery

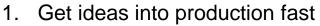
Balance speed, cost, quality and risk

Reduce time to customer feedback



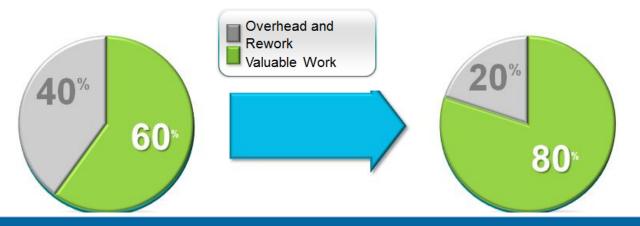
DevOps approach: Apply Lean principles to software innovation and delivery to create a continuous feedback loop with customers





- 2. Get people to use it
- 3. Get feedback

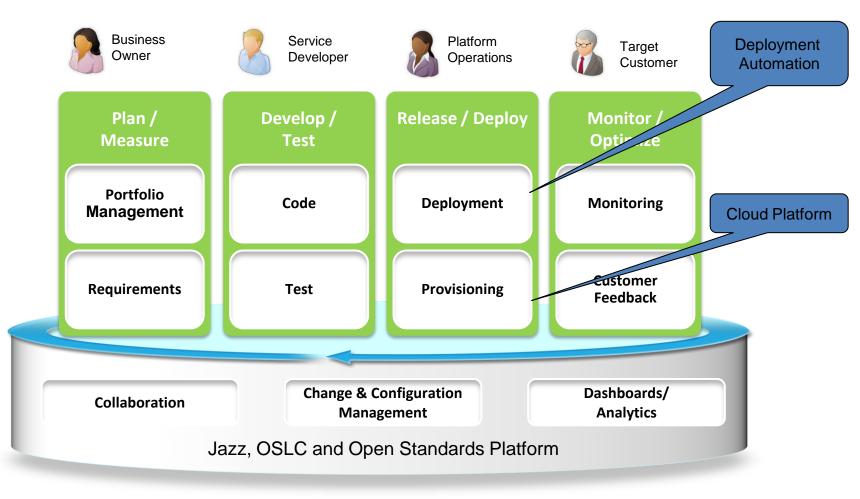
<u>Adopt DevOps approach to continuously</u> <u>manage changes, obtain feedback and ,</u> Customer<u>deliver changes to users</u>



Eliminate any activity that is not necessary for learning what customers want



DevOps Solution: Adoption paths, open platform and key capabilities





DevOps Principles and Values

- Develop and test against a production-like environments
- Iterative and frequent deployments using repeatable and reliable processes
- Continuously monitor and validate operational quality characteristics
- Monitor and improve

People	
Process	Ó
Tools	8

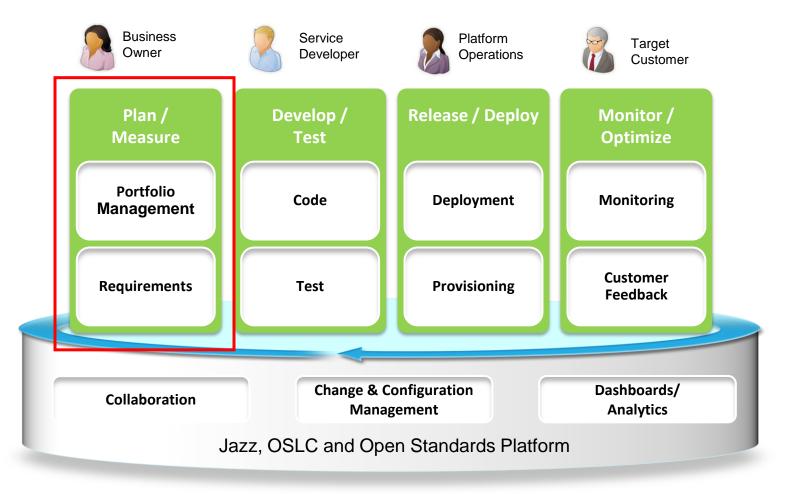


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DevOps Solution: Adoption paths, open platform and key capabilities





Poll Question 1.

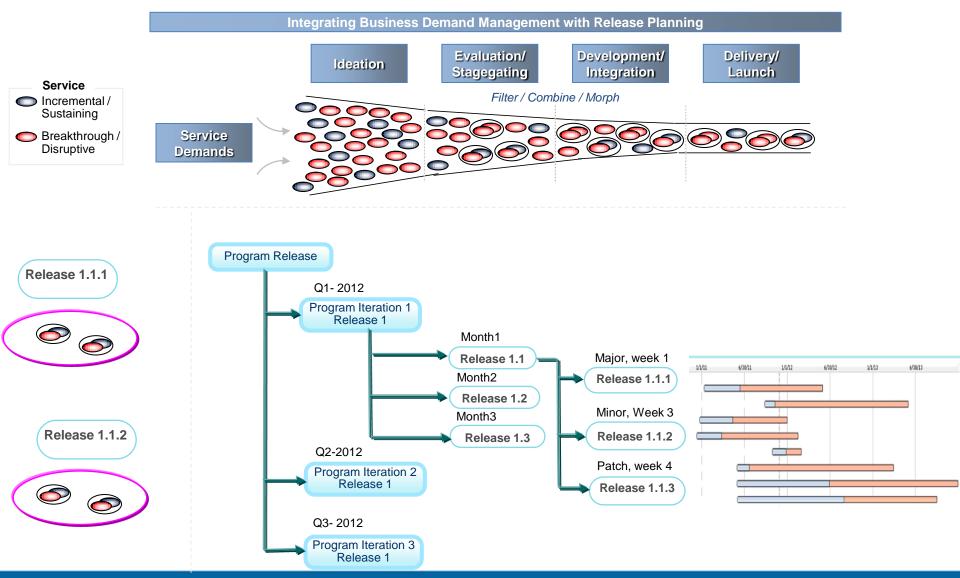
How do you decide which request to work on?

A. The loudest voice in the room

- B. The team availability
- C. A baseline criteria set



Develop Continuous Pipeline of Innovative Services & Releases





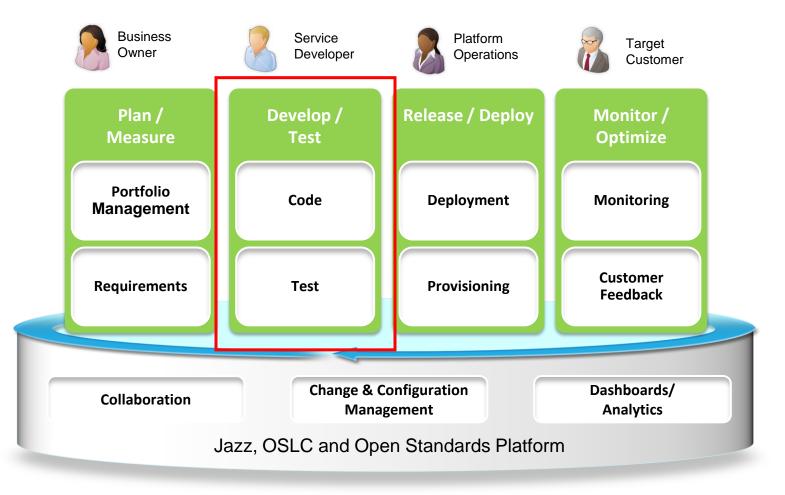
Plan and Measure Demonstration Scenario

A bank is undergoing a major IT transformation to prepare itself for a regional expansion.

- How to capture and prioritize the new business demands amidst current backlog
- How to plan the releases
- How to track release progress



DevOps Solution: Adoption paths, open platform and key capabilities





Poll Question 2.

How does the team decides whether the application is good for release?

- A. Gut Feel
- B. When time is up
- C. Test Results

TEST TEAM

STAKEHOLDERS



Traditional software delivery environments limit productive collaboration: Islands of People, Process and Information

LOG

LOGIC

LOOL D

TOOL C

DP

DB

DB

OGIC

LOGIC

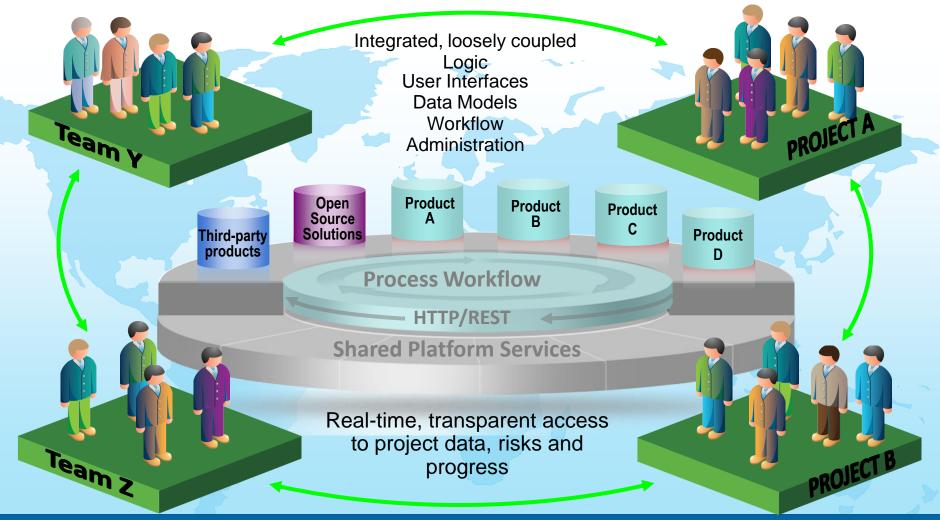
TOOL B

Little to no project visibility Data locked in proprietary APIs Poor process and workflow integration High maintenance and administration costs Persistent functional, geographic and organizational silos

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Collaborative Lifecycle Management -A platform for software integration and collaboration



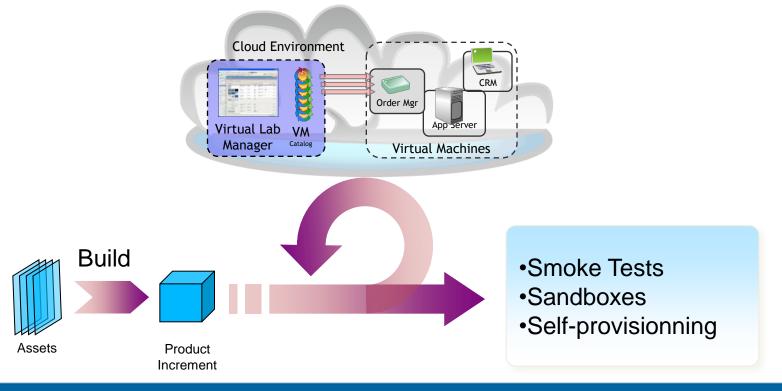
A New Era of Smart

IBM. 😇



Streamline your process with continuous integration & test

- Avoid time spent installing and configuring software just to discover basic build issues
- Smoke tests can be integrated as part of the continuous integration process through deployment automation and test virtualization
- Regression test results are made available to the entire team to shorten resolution





Develop & Test Demonstration Scenario

A bank IT team consisting of system analyst, developer and tester are collaborating to rollout a release.

- Requirements Elaboration
- Development Progress Tracking
- Test Tracking
- End to end traceability



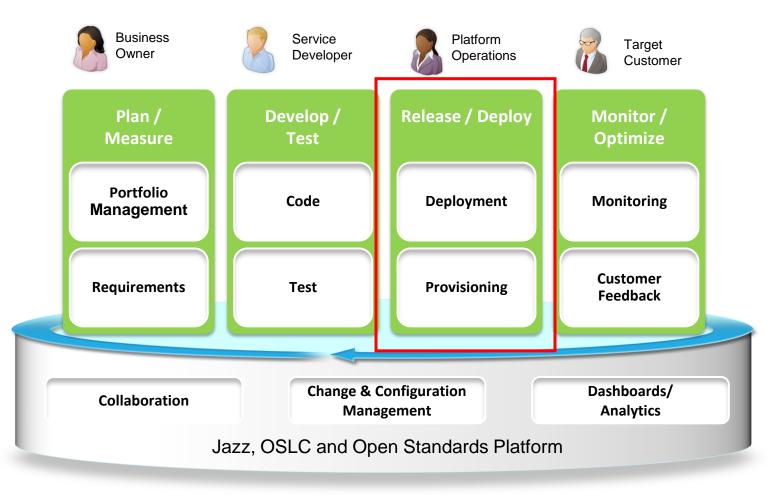
Poll Question 3.

How often do you rollout a new release of application or service?

- A. Once a year
- B. Twice a year
- C. More than 2 times a year



DevOps Solution: Adoption paths, open platform and key capabilities

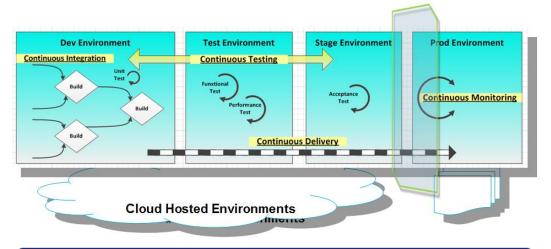


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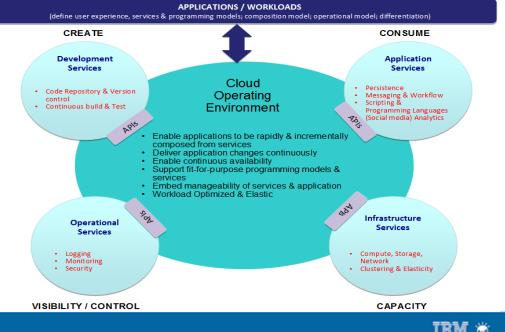


Addressed Cloud Workloads :

- Dev-Test
 - Developer/QA Self-service
 - Access to Production-like Environments
 - Environment and Middleware
 Configuration Management
 - Infrastructure as Code

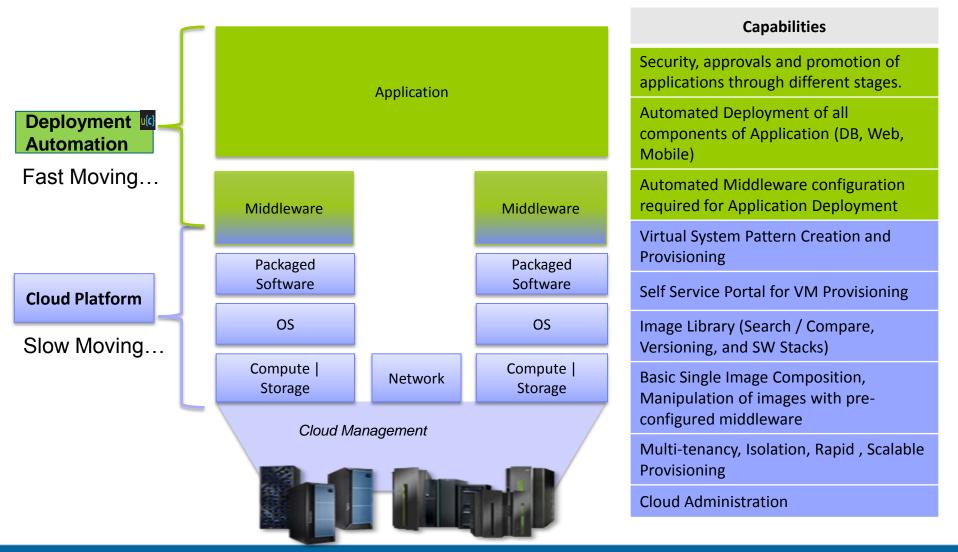


- Cloud Operation Environmer
 - Expendable Environments
 - Promotable Environments





Release Automation : Application Deployment + Environment Provisioning



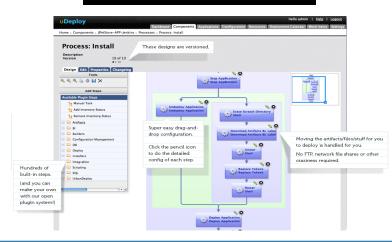


UrbanCode: Premier Release and Deploy Automation Solution

Enabling clients to more rapidly deliver mobile, cloud, big data and traditional applications with high quality and low risk



IBM UrbanCode Deploy



IBM UrbanCode Release

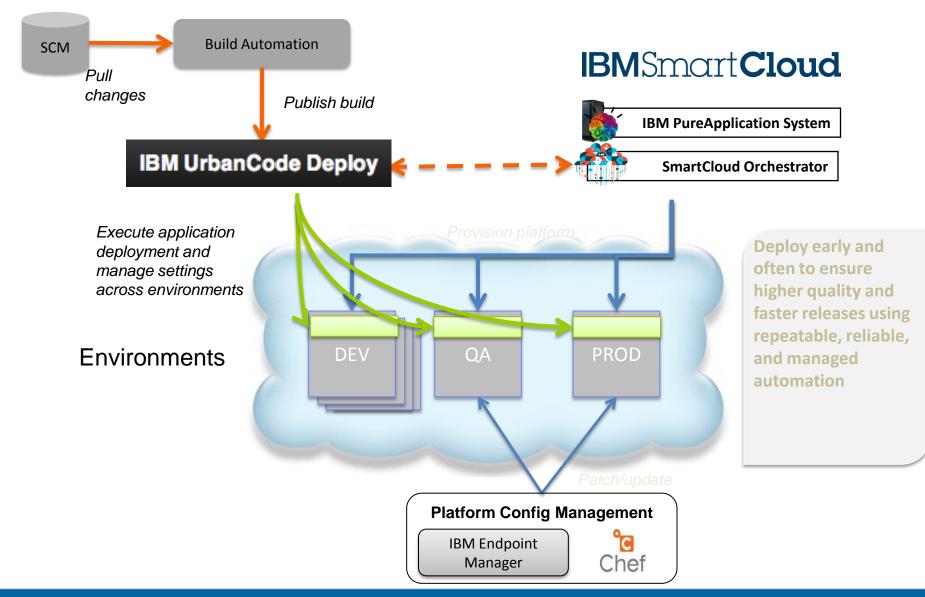
UREIEASE	nta > eCom	n 1.3 - Mar:PT-2 at Mon Fe	b 04 15:00:00 EST 2	013			Hello admin Logout
eComm	1.3	- Mar:PT-2 ST 2013			04		
SEGMENT PLAN	I NOT STAR	TED SEC	GMENT PLAN IN PRO	GRESS		SEGMENT P	PLAN COMPLETE
Time Remaining:		Percent Complete: V	Vaiting / Late Tasks:		Task C	ount:	
Days Hours OO:OO:	00		There are no late or wait time.	ing tasks at ti	Ø AL	orted: 0 🍑	Complete: 14 In Progress: 0 Remaining: 0
Application	Versio		Statuses		Gate		
Bill Pay System	None						
Wire Transfer Promote to Release Version egments	None						
Middleware Config Edit Segment	s	tart 2/6/13 9:25 AM	0:42 total	2/	6/13 10:07 AM	nd	Complete
Start Time	Duration	Name	Application	Туре	Role	User	Actions
2/6/13 9:25 AM	00:15	Convert Datasources to use Oracle RAC syntax	None	Manual	Admin	admin	
- 🥑 2/6/13 9:25 AM							
 Ø 2/6/13 9:25 AM Ø 2/6/13 9:40 AM 	00:02	Do something else	None	Manual	Admin	admin	
	00:02 00:15			Manual Manual	Admin Admin	admin admin	

Add Manual Task Add Automated Task

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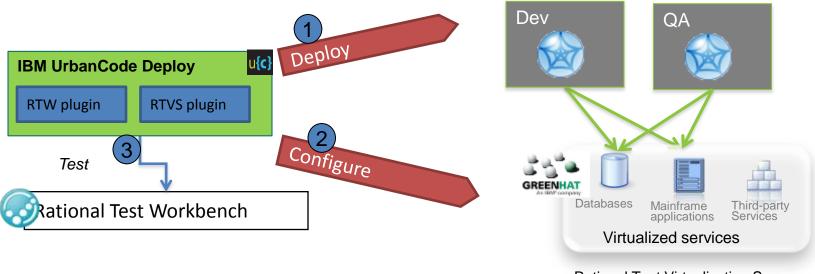


Improve Delivery Lifecycle with Software Defined Environments





Accelerate continuous testing with Service Virtualization



Rational Test Virtualization Server

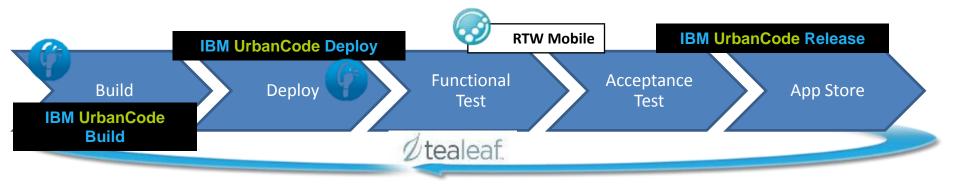
Deploy what is ready, virtualize the rest - *Enable continuous integration testing and progressive deployments throughout the software delivery lifecycle for complex applications*

Automate the creation of virtual test environments as part of the end-to-end DevOps process Establish a virtual system pattern with automated deployment to standardize and share test environments quickly and easily across projects and teams

Enable an end-to-end Agile software delivery process Increase the frequency of releases by testing earlier in the development cycle and deploying reliably to pre-production and production environments..

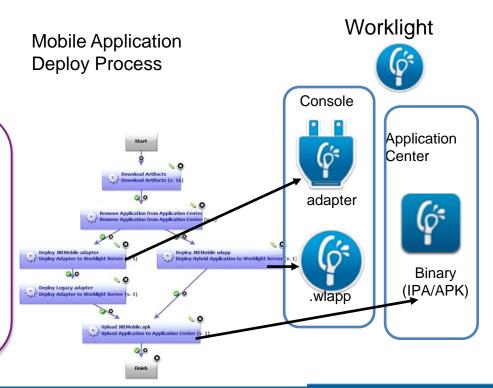


DevOps for Mobile



Accelerate delivery of mobile apps focusing on quality and user experience – Automate deployment of Worklight mobile applications as part of end-to-end delivery process.

Continuous Feedback and Optimization using Tealeaf helps monitor user sentiment and usage, letting teams react to poor feedback before it spirals





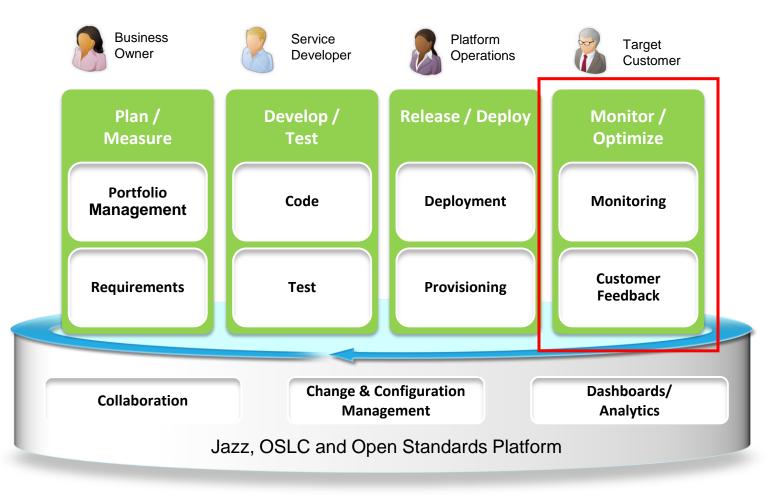
Release & Deploy Demonstration Scenario

An online trading company is governing and automating the deployment of online web application.

- Deployment of application from development to test
- Snapshot of test environment configuration i.e. Golden Image
- Approval of production deployment
- Deployment of application from test to production

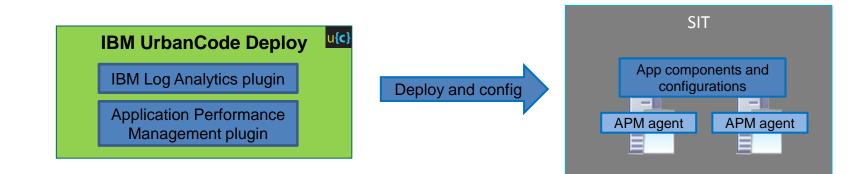


DevOps Solution: Adoption paths, open platform and key capabilities

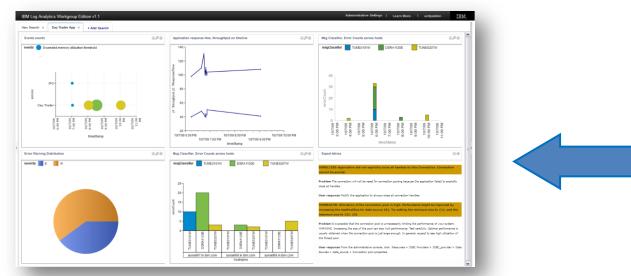




Application Lifecycle Integration – Monitoring & Log Analytics



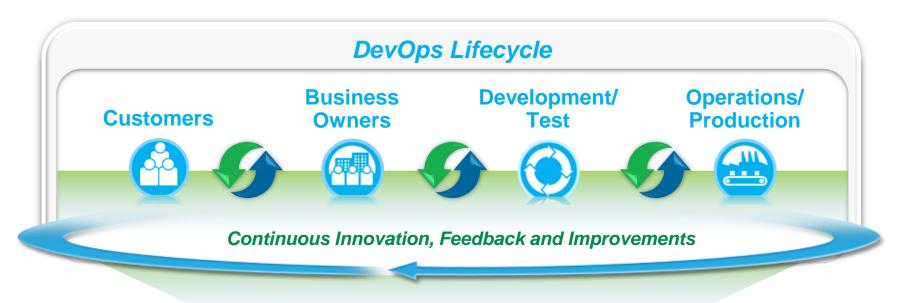
Application Dashboard





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Accelerate Software Delivery

Balance speed, cost, quality and risk

Reduce time to customer feedback



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Case Study: TIAA-CREF

Do the right things right

- Attack the high value and high risk items first
- Predict and quantify the outcomes and resources
- Measure honestly with distributions of outcomes
- Learn what customers really want and steer with agility



"We've achieved a 1600% increase in delivery velocity, in 7 months, using a DevOps approach."

> John Kosco Director of IT Operations

Case Study: WebMD

Accelerate delivery of usable increments for continuous outside-in feedback

•Provide a continuous delivery pipeline that automates deployments to test and production environments

•Reduce overhead with push-button deployments

•Quantify change stability and measure transparently for compliance



"Before it took 2 days to deploy a build, with uDeploy and our new processes, it takes us less than 60 seconds."

Matthew Wilson Director, Consumer Web Operations



DevOps maturity model

Industry norm

	Plan / Measure	Development / Test	Release / Deploy	Monitor / Optimize
Scaled	Define release with business objectives Measure to customer value	Improve continuously with development intelligence Test Continuously	Manage environments through automation Provide self-service build, provision and deploy	Automate problem isolation and issue resolution Optimize continuously
Reliable	Plan and source strategically Dashboard portfolio measures	Deliver and integrate continuously Manage data and virtualize services for test	Standardize and automate cross-enterprise Automate patterns-based provision and deploy	Optimize applications Use enterprise issue resolution procedures
Repeatable	Link objectives to releases Measure to project metrics	Deliver and build with test Centralize test management Link lifecycle information	Plan departmental releases and automate status Automated deployment with standard topologies	Monitor using business and end user context Centralize event notification and incident resolution
Practiced	Document objectives locally Manage department resources	Manage Lifecycle artifacts Schedule SCM integrations and automated builds Test following construction	Plan and manage releases Standardize deployments	Monitor resources consistently Collaborate Dev/Ops informally



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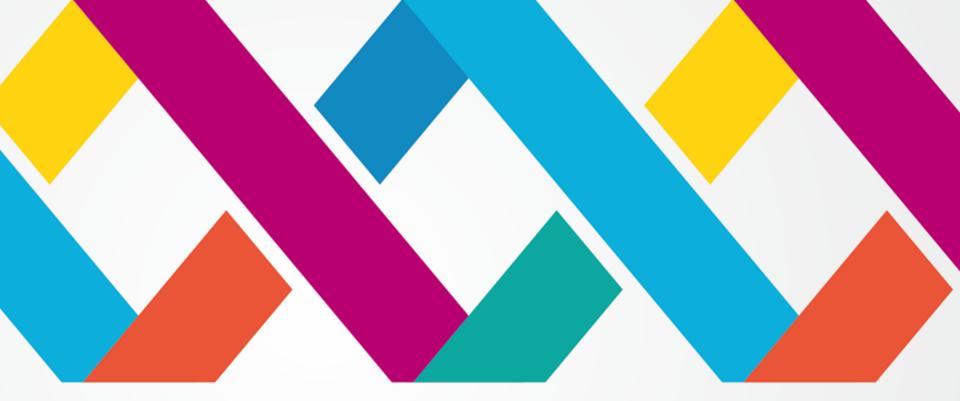
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What's Next ...

- Technical Exploration Workshop
- Assessment Workshop
- Pilot



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Thank You