

IBM SolutionsConnect 2013

L'IBM TechSoftware nouvelle génération

28, 29 et 30 août
IBM Client Center Paris



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Transformez vos opportunités en succès

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Accélérer le développement d'applications avec DevOps

RAT06

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Our Challenges

Line-of-business

Takes too long to introduce or make changes to digital apps and services

Operations

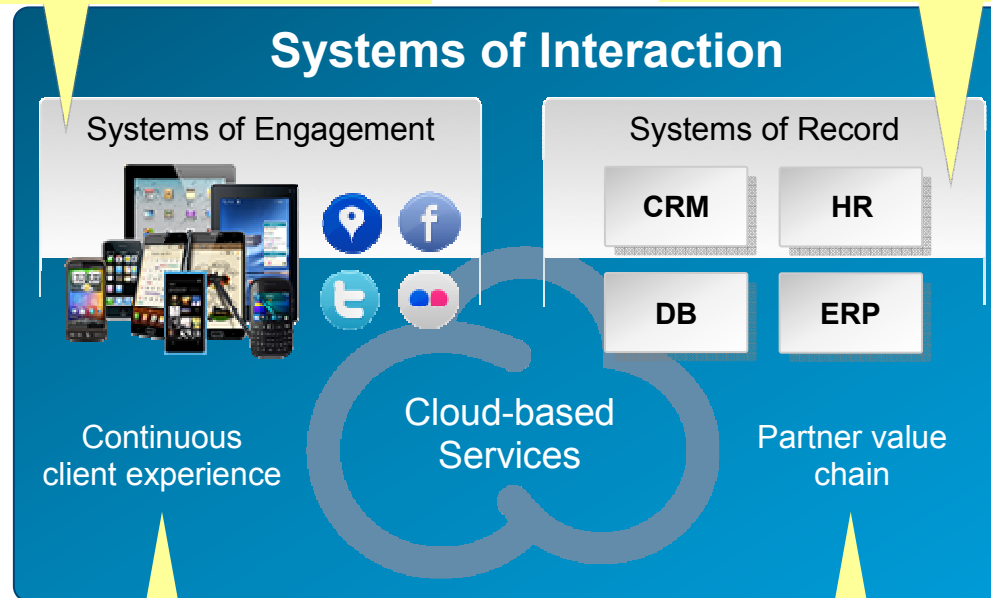
Rapid app releases impacts system stability and compliance

>70%

of resources devoted to maintaining existing systems and products

4-6 Weeks

to deliver application changes to customers



>80%

of applications rolled back

>50%

of partnered projects fail to meet objectives


Development/Test

Speed mismatch between faster moving front office and slower moving back office systems, delaying time to get feedback

Suppliers

Delivery in the context of rapid changes

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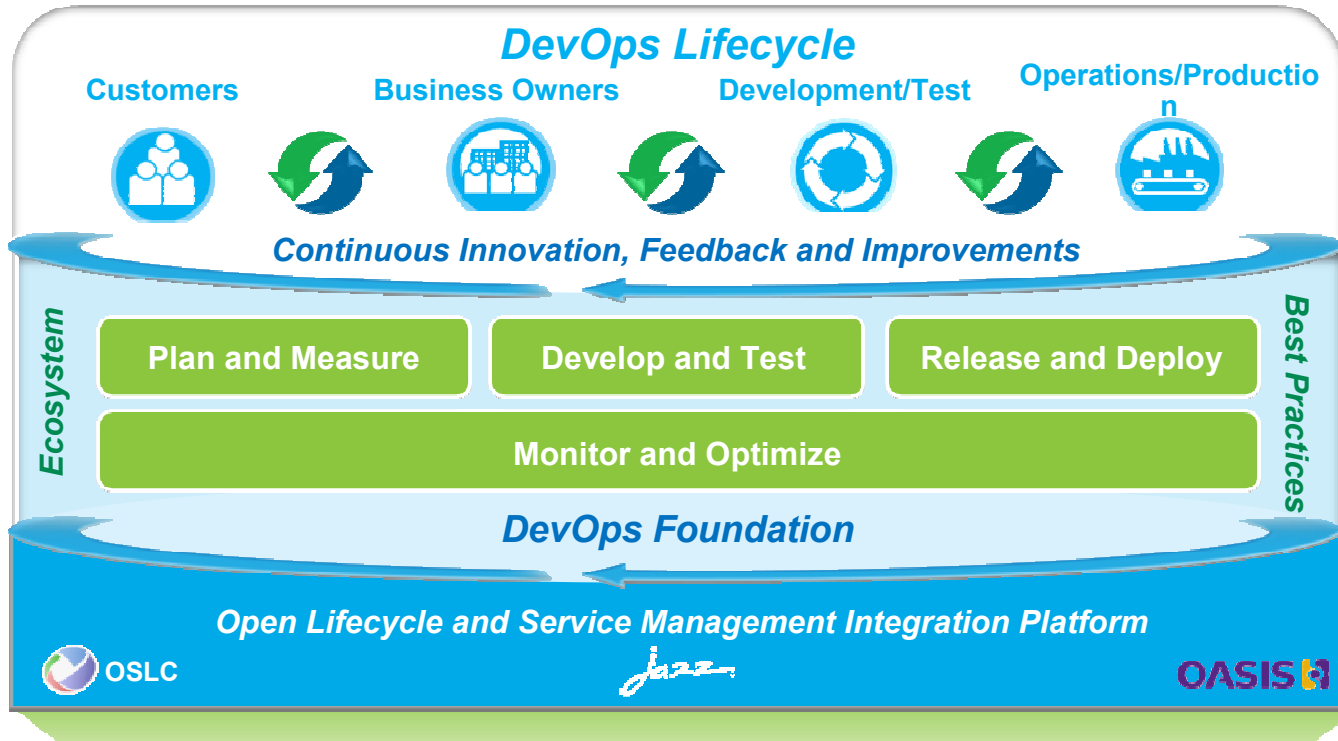
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The DevOps approach



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

Accelerate Software Delivery

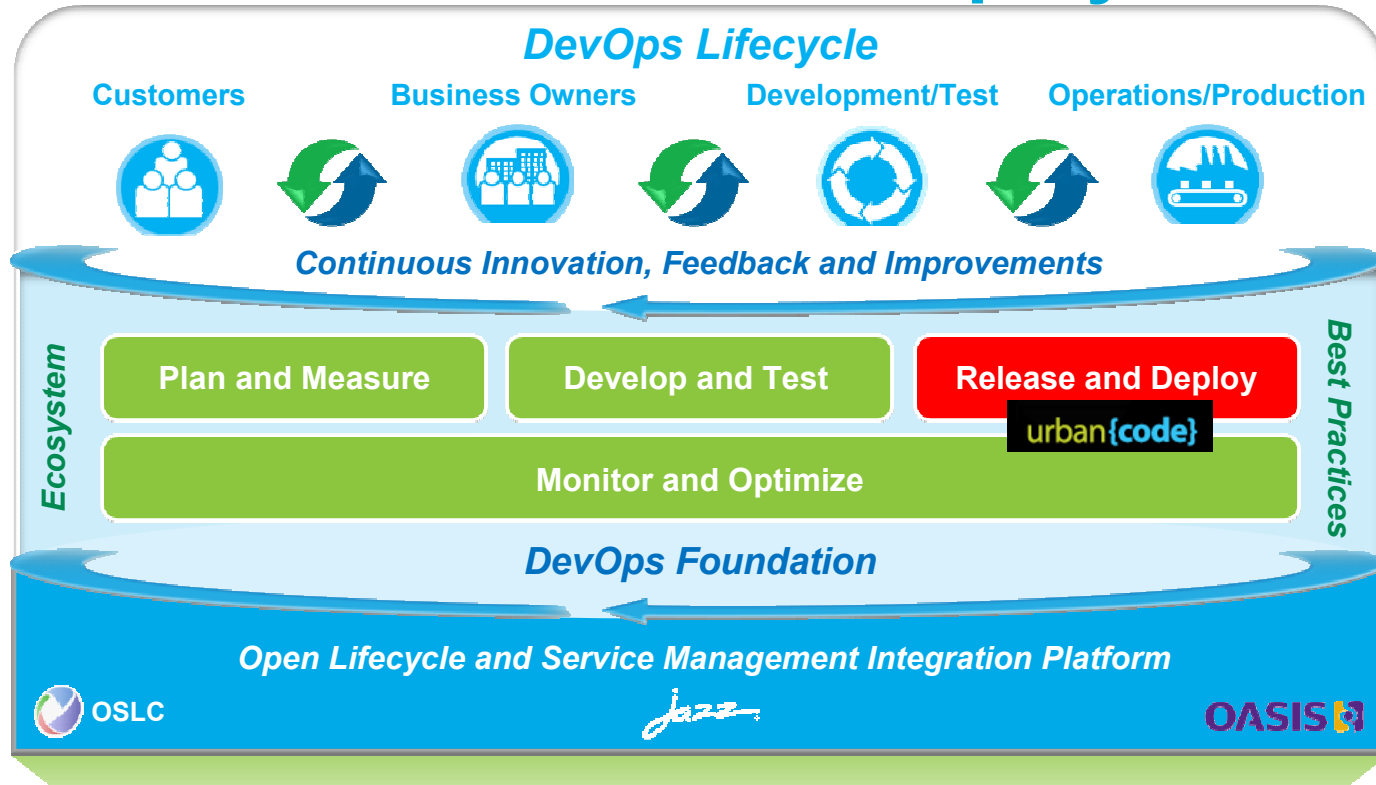
Balance speed, cost, quality and risk

Reduce time to customer feedback

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UrbanCode for Release and Deploy



Accelerate Software Delivery

Balance speed, cost, quality and risk

Reduce time to customer feedback

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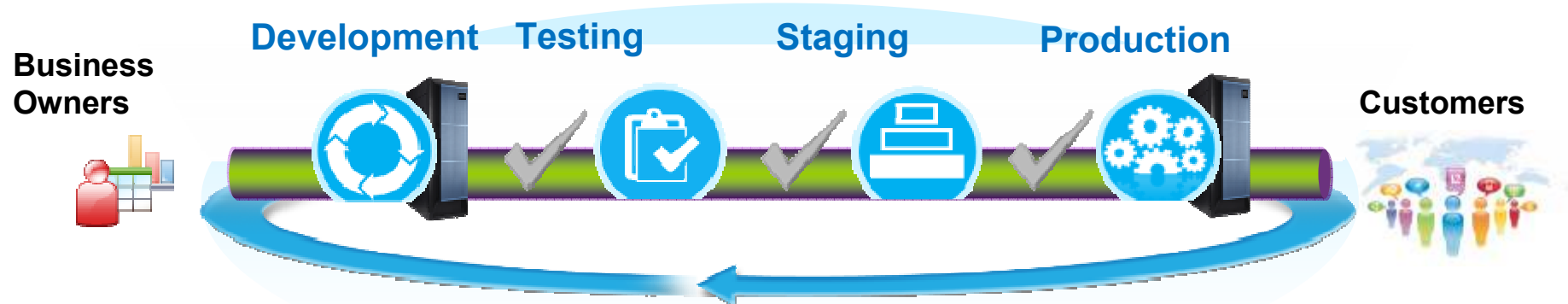
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A Continuous Delivery Pipeline



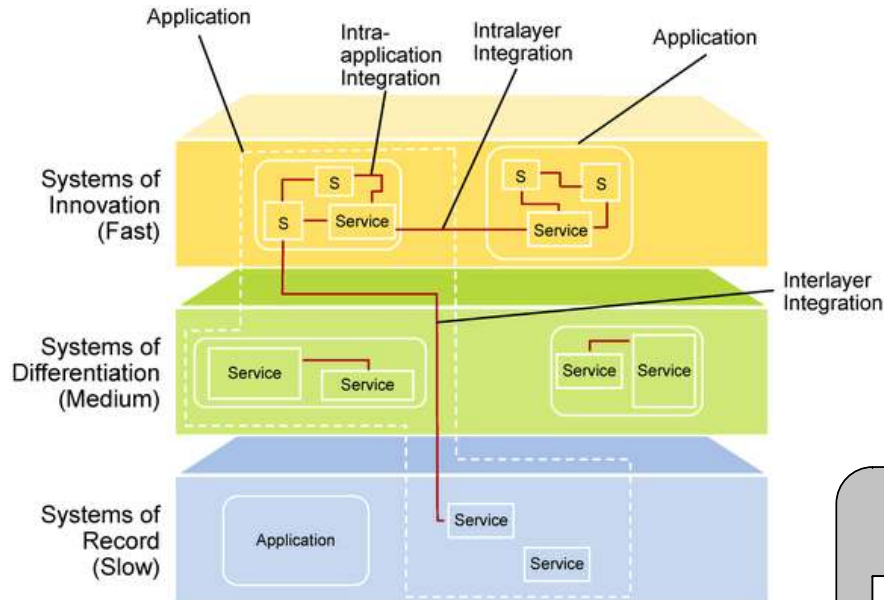
Ensure applications are production-ready throughout the lifecycle and can be released at any time while minimizing rollback due to quality issues

- Validate on more production-like conditions earlier
- Automate hand-offs/promotions to increase velocity through the different stages
- Standardization on processes and assets between Dev and Ops
- Automated monitoring and dashboarding of quality and performance against service level agreements at multiple stages

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Where are the changes?




Source: Gartner (October 2012)

Layers	Change Frequency
App. Config.	High
App.	High
Mid. Config.	Medium
Mid.	Low
OS Config.	Low
OS	Low
Hardware	Low

urban{code}

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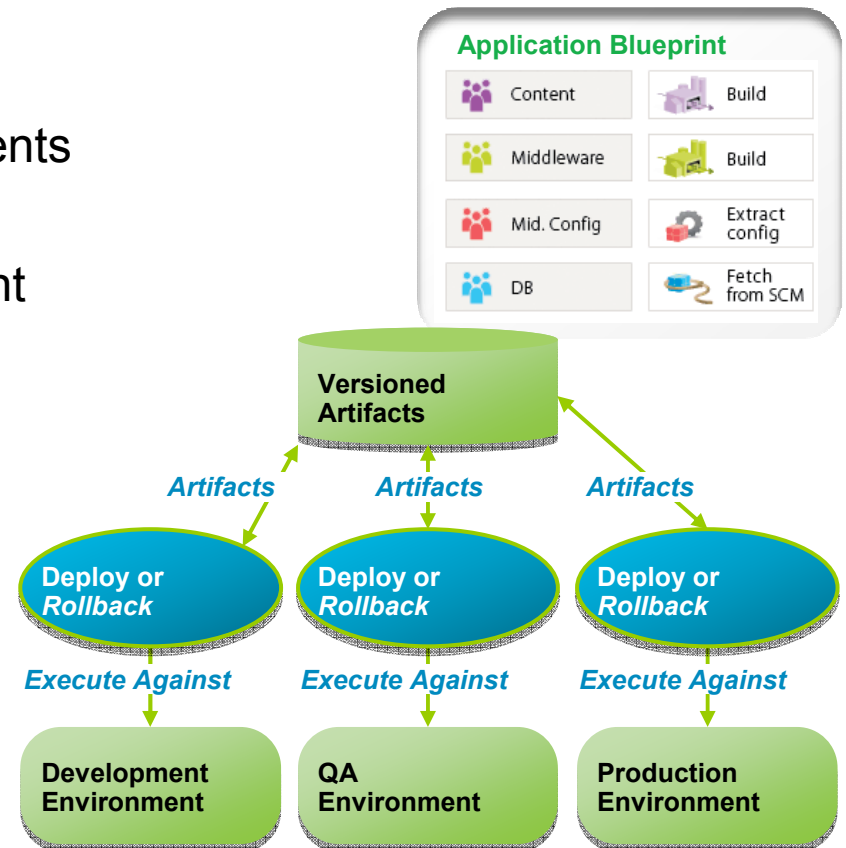
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UrbanCode Deploy Application Deployment Automation

Deployment of Applications through Environments

- Blueprints to model complex applications
- Per environment configuration management
- Compliance: audit trails and security
- Easy to use process designer
- Inventory: what is where



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UrbanCode Deploy

Application Deployment Automation

The screenshot displays the UrbanCode Deploy web interface for the application 'JPetStore'. The interface includes a navigation bar with 'uDeploy' and user information 'Hello admin | Help | Logout'. Below the navigation bar, there are tabs for 'Dashboard', 'Components', 'Applications', 'Configuration', 'Resources', 'Deployment Calendar', 'Work Items', 'Reports', and 'Settings'. The main content area is titled 'Application: JPetStore' and includes a 'Description' section and a set of tabs: 'Environments', 'Gates', 'History', 'Edit', 'Properties', 'Components', 'Snapshots', 'Processes', 'Calendar', 'Tasks', 'Changes', and 'Security'. The 'Environments' section is active, showing a list of environments: SIT (blue), UAT (orange), and PROD (yellow). Each environment has a set of actions: 'Request Process', 'Compare', 'Copy', and 'Inactivate'. Below each environment, there is a table titled 'Latest Desired Inventory' with columns: Component, Version, Snapshot, Properties, Status, Compliance, and Actions. The SIT and UAT environments show three components: JPetStore-APP (Version 1.0, Snapshot Version 6), JPetStore-DB (Version 1.1, Snapshot Version 5), and JPetStore-WEB (Version 1.1, Snapshot Version 3). The PROD environment shows no components installed.

Environment	Component	Version	Snapshot	Properties	Status	Compliance	Actions
SIT	JPetStore-APP	1.0	Version 6	Version 6	Active	Compliant (1/1)	View Request
	JPetStore-DB	1.1	Version 5	Version 5	Active	Compliant (1/1)	View Request
	JPetStore-WEB	1.1	Version 3	Version 3	Active	Compliant (1/1)	View Request
UAT	JPetStore-APP	1.0	Baseline	Version 6	Active	Compliant (1/1)	View Request
	JPetStore-DB	1.0	Baseline	Version 6	Active	Compliant (1/1)	View Request
	JPetStore-WEB	1.0	Baseline	Version 2	Active	Compliant (1/1)	View Request
PROD	No components have been installed to this environment. - Refresh						

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UrbanCode Deploy

Hundreds of Integration steps

- **Deployment Sources**

- Build Servers
- SCM Tools
- Maven Repositories
- Other Repos: (ie: FRS)

- **J2EE Platforms**

- Application Servers
- Message Queues
- Message Brokers

- **Infrastructure**

- Public / Private Cloud
- Load Balancers

- **BI & EAI Platforms**

- Tibco
- Business Objects
- Informatica

- **Microsoft Platform**

- IIS
- SharePoint
- BizTalk
- SQL RS

- **Databases**

- MS SQL Server
- Oracle
- JDBC

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UrbanCode Release

Release planning and orchestration

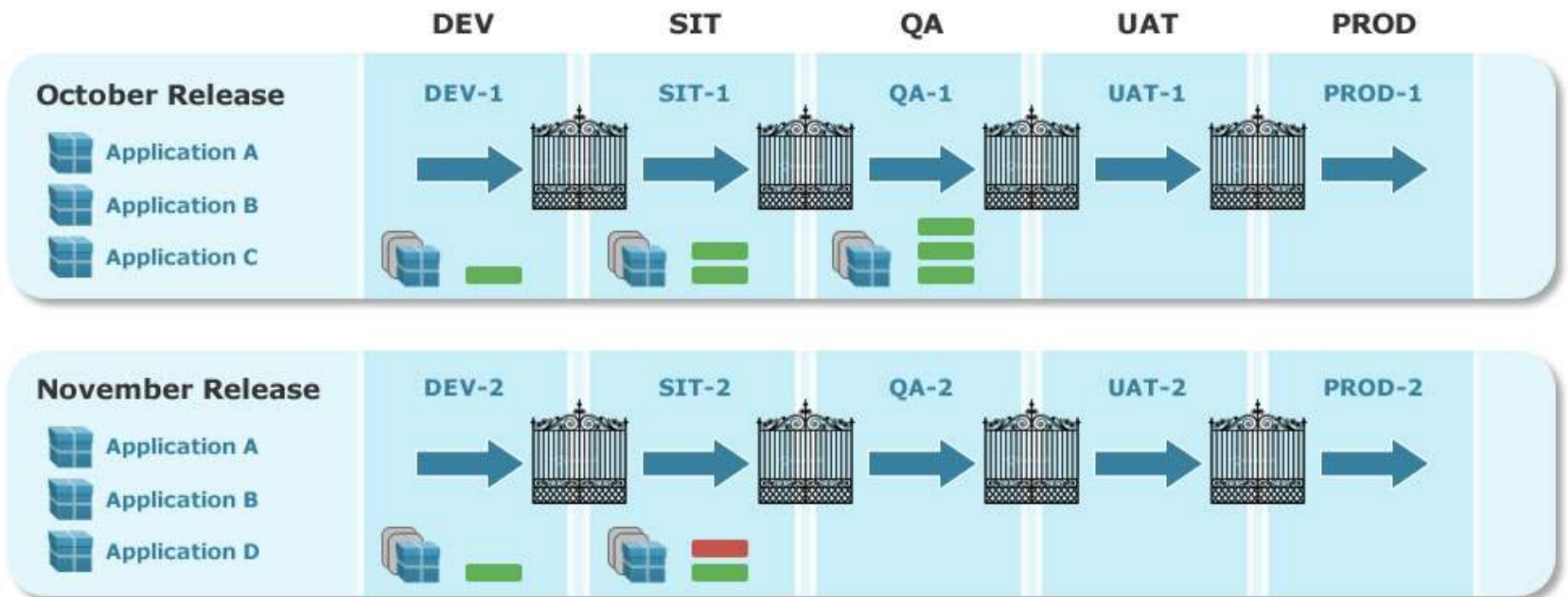
- Enforce release quality gates for environments
- Orchestrate changes across multiple applications
- Manage infrastructure in addition to application changes
- Provide real-time status for long production releases
- Track the allocation of environments to releases

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UrbanCode Release

Release planning and orchestration



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UrbanCode Release

The screenshot shows the UrbanCode Release web interface. The browser address bar indicates the URL: `ec2-107-20-114-86.compute-1.amazonaws.com:8080/scheduledDeployment/0b827401-5645-4d5f-acd9-7fa2ee90eba7#execution`. The page title is "uRelease: Pets Online 1.1.x".

The main content area is titled "Execution & Deployment Plan" and "Contents & Notifications". It shows a deployment plan for "Pets Online 1.1.x:PROD-1 at Mon Jun 03 04:00:00 UTC 2013".

The deployment plan status is "In Progress". The "Time Remaining" is 0 days, 0 hours, 1 minute, and 04 seconds. The "Percent Complete" is 29%. The "Waiting / Late Tasks" section shows 2 minutes late tasks: "Configure Something" and "Update server.properties". The "Task Count" shows: Planned: 13, Waiting: 1, In Progress: 1, Total Remaining: 15, Not Applicable: 0, Skipped: 0, Complete: 3, Failed: 0.


The deployment plan consists of several tasks:

- Prep & Verify Readiness (6/2/13, 12:44 AM): 100% Complete (0h 10m)
- Middleware Config (6/2/13, 12:44 AM): 0% In Progress (0h 03m)
- Bleed Over Sequence (6/2/13, 12:47 AM): 0% Not Started (0h 40m)
- Deploy Database Changes (6/2/13, 1:27 AM): 0% Not Started (0h 00m)

The "Middleware Config" task is expanded, showing a table of tasks:

Start Time	Plan	Actual	Name	Application	Type	Role	User	Actions
(Not-Applicable)	0h-15m	0h-00m	Convert Databases to use Oracle RAC syntax	None	Manual	Operations	otto_ops	-Reopen
6/2/13, 12:44 AM	0h 00m	0h 01m	Configure Something	None	Manual	Operations	otto_ops	Complete Skip Fail
6/2/13, 12:44 AM	0h 03m	-	Update server.properties	None	Manual	Operations	None (Claim)	Start Skip

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UrbanCode Release vs UrbanCode Deploy


	UrbanCode Deploy	UrbanCode Release
Application Deployment Automation		
Automate deployment of applications and components	✓	
Visual process designer	✓	
Plug-in steps for application containers, web servers, network devices, database deployment, etc.	✓	
Model deployment targets with properties.	✓	
Release Management		
Orchestrate changes across multiple applications.		✓
Coordinate changes outside the scope of application deployment automation.		✓
Real-time status for long running production deployments.		✓
Visibility and control of quality process.		✓

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UrbanCode solutions deliver measureable business results

International Investment Firm *Driving Down Costs*



Release process required considerable effort and delayed by manually-introduced errors

- Solution: Automated release process
- Results: Cost avoidance of over \$2.3M/year, reduced release time from 2-3 days to 1-2 hours and virtually eliminated test team down-time

Online Retailer *Speeding Time-to-Market*



Significant delays getting application changes to production

- Solution: Scaled up continuous deployment
- Results: Deployment time reduced by over 95% with easy scale and deploying to over 250 servers within 2 months of implementation

Higher Education *Speeding Time-to-Market*



Agile development teams constrained by slow deployment to dev and test environments

- Solution: Accelerate deployment by enabling development teams to self deploy with automation
- Results: Deployments cut from hours to minutes and a greater number of servers with fewer resources

SaaS Software Provider *Reducing Risk*



Difficulty managing multiple customer configurations and versions of software deployed across servers

- Solution: Automate managing configuration and version deployment
- Results: Execute customer specific releases, reduced deployment outages by over 90%

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UrbanCode Business Advantages

- Automated software release and deployment **reduces errors**
- Push-button deployments **improves productivity** for developer and operations
- Built-in best practices provides for **faster time-to-market**
- Enforced Security and traceability ensures **compliance and auditability**



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Proof Of Technology:

Automatisation des déploiements avec UrbanCode

- Date: 27 Septembre 2013
- Lieu: IBM, Bois-Colombes,
- Inscription sur <http://www-05.ibm.com/fr/events/tec/>

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IBM Technical Summit

 **Démarquez-vous.** 17 Octobre | IBM Client Center Paris

5 bonnes raisons d'y participer

- 1 Découvrez comment vous pouvez tirer parti des tendances actuelles clés telles que DevOps ou la Mobilité et livrer vos produits plus rapidement, améliorer les processus et la qualité, et atteindre vos objectifs commerciaux.
- 2 Approfondissez vos connaissances sur l'offre Rational en assistant aux sessions et testez-les en passant des certifications gratuites !
- 3 Rencontrez les experts IBM, nos partenaires ainsi que d'autres utilisateurs dans le cœur de verre où de nombreuses surprises vous attendent !
- 4 Développez votre réseau avec plus de 200 participants ayant des fonctions variées et travaillant dans des divers secteurs.
- 5 Assistez aux sessions plénières animées par des intervenants très dynamiques et laissez-vous surprendre !



IBM Technical Summit 2013 est l'événement dédié aux développeurs de produits et logiciels. Les participants y apprendront comment améliorer leurs pratiques, la prédictibilité et la collaboration pour la livraison logicielle, lors de sessions plénières et des ateliers thématiques axés sur quatre thématiques principales : DevOps, Mobilité, ALM/Agilité et System & Software Development.

www.ibm.com/software/fr/rational/technicalsummit

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