



DevOps with UrbanCode

Extend Agile ALM to Accelerate Business Value

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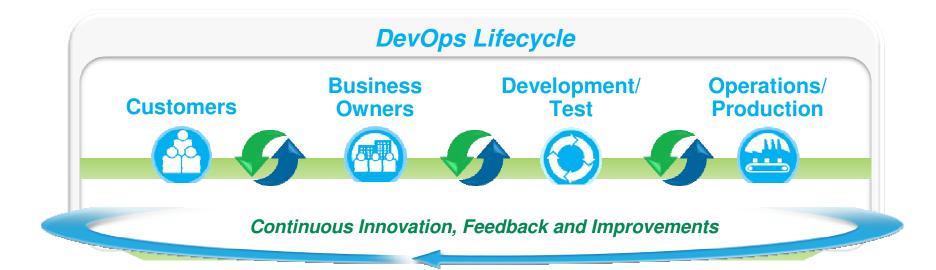
Agenda



- What is DevOps?
- Introducing UrbanCode
 - Deployment Automation
 - -Release Coordination
- Demo

DevOps

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



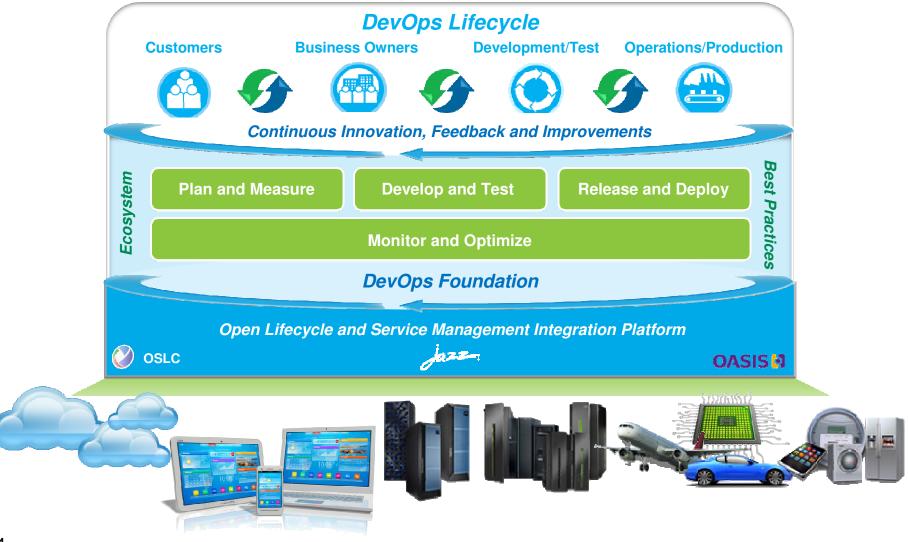
Accelerate Software Delivery

Balance speed, cost, quality and risk

Reduce time to customer feedback

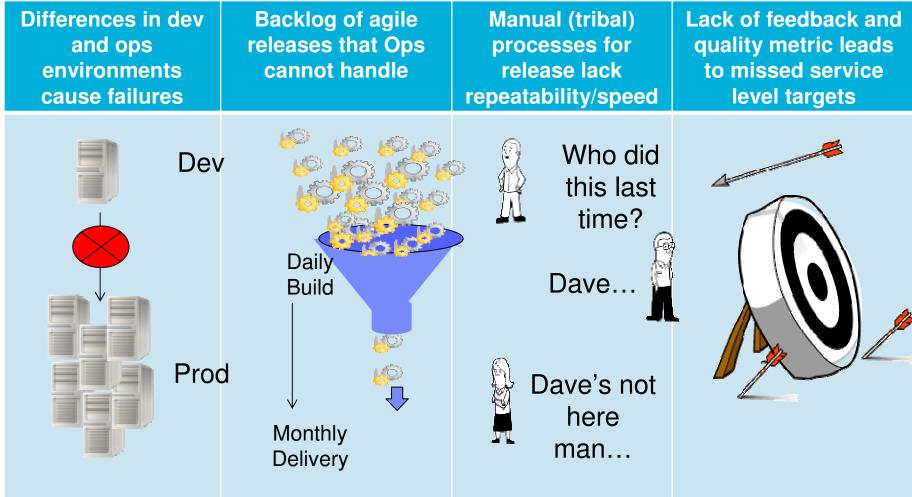


Adoption paths to a DevOps approach



Patterns of challenges





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Urbancode, an IBM Company



- 11 Years Build, Release and Deployment Experience
- Global Customers
- Enterprise scalability, security, compliance and automation
- Training, consulting and implementation services
- Based in Cleveland, OH

"One key benefit of UrbanCode is how quickly it can be implemented and used for deployments."

Gartner













UrbanCode is the premier Application Release Automation (ARA) solution

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



Drive down cost

Remove manual effort and wasted resource time with push button deployment processes

Speed time to market

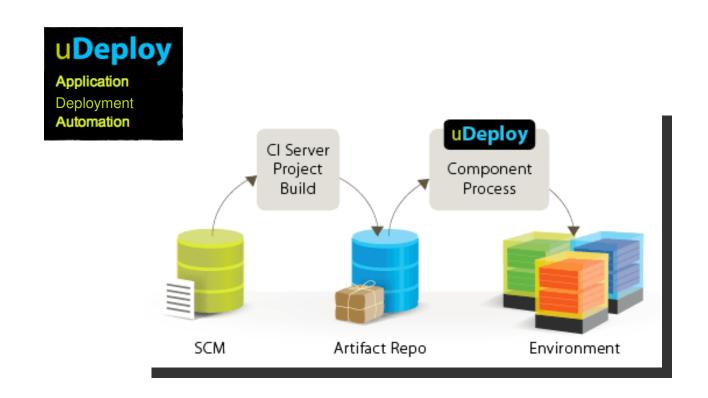
- Simple, graphical process designer, with built-in actions to quickly create deployment automation

Reduce risk

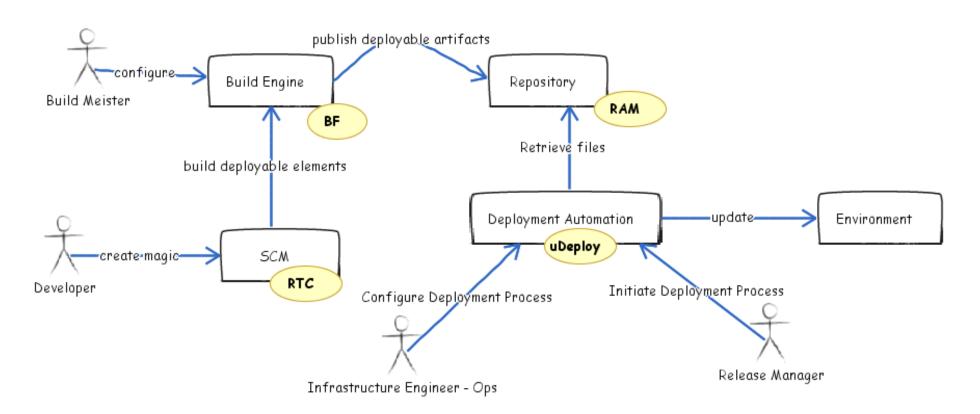
- Robust configuration management, coordinated release processes, audits, and traceability

uDeploy

Automating deployment of applications across dev, test, and production environments



Basic uDeploy Usage Model with Example Tools



Note: A build engine could send deployable elements directly to uDeploy codeStation



Application – Component Model

Components

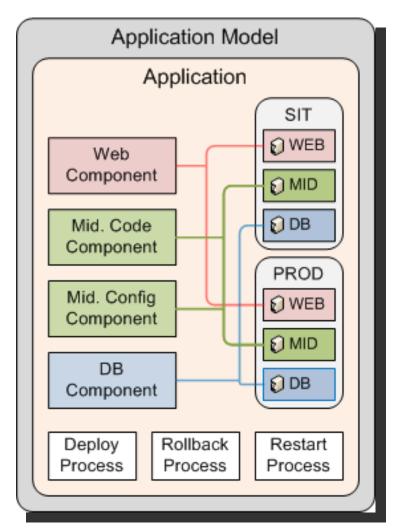
-Tiers or services

Environments

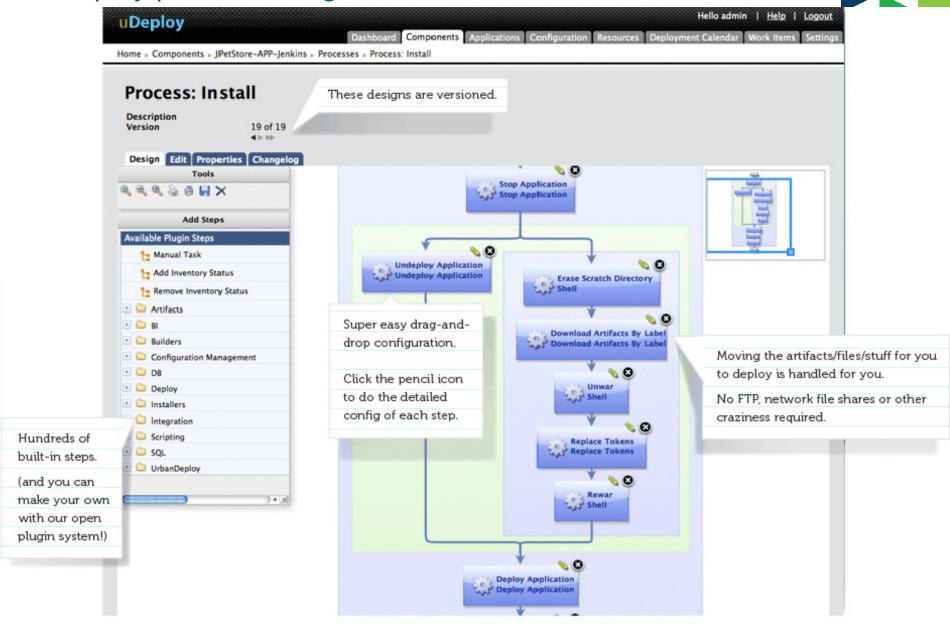
- -Target servers
- -Servers have roles
- -Env. Specific Config

Processes

-Coordinates Component processes

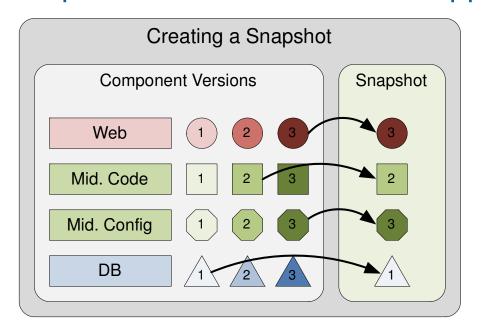


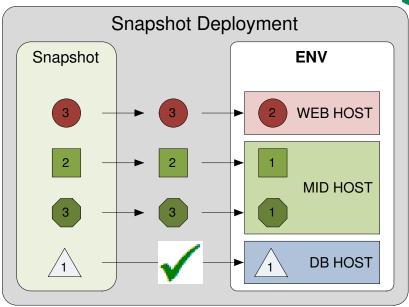
uDeploy process designer





Snapshots – A Version of the App





Contents of environments that pass tests

contain deployables and config

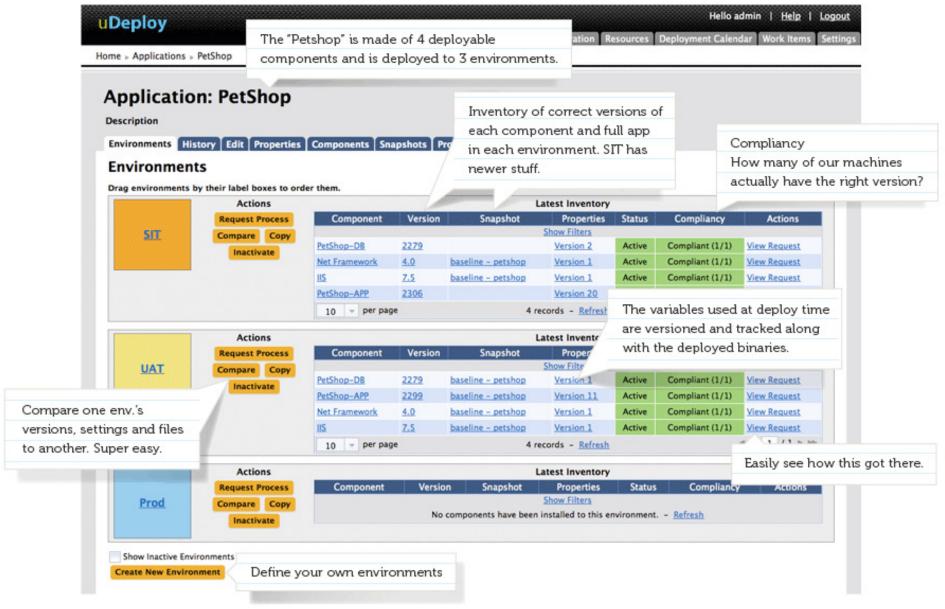
Deployments are based on deltas

They help with:

✓ Automation, Audit, and Visibility

Application environment inventory





uDeploy works in heterogeneous environments



Deployment Sources

Build servers

Source control tools

Maven repositories

IBM Integrations

RTC / ClearCase / Synergy

WebSphere Application Server

MQ

Message Broker

Other Java Platforms

WebLogic, Tomcat, Jboss, etc

Quality & Change Management

QualityCenter

Remedy

ServiceNow

Microsoft Platform

IIS

SharePoint & Biztalk

Infrastructure

Public / Private Cloud

Load Balancers

DataBases



Releases encompass more than application deployment

- Examples: Middleware, network, hardware changes in addition to application changes
- Steps known in development and integration, but missed in Prod

Interaction between applications in a release

- •Ordering of application deployment steps fails to account for dependencies between applications or deployment steps.
- Required artifacts or applications missed or wrong application versions deployed.

Difficulty coordinating dozens of participants

- Late breaking changes to deployment instructions or targeted artifacts are not communicated.
- Work product quality and process check lists scattered about many tools and not digested for at-a-glance status



Applications

Vendor Software

Middleware

Database

Network

OS & Patches

VM platform



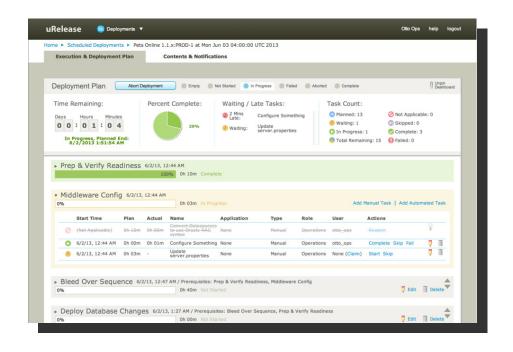
uRelease – Release planning and orchestration

Qualify with one question:

Do you have large monthly or quarterly releases that take hours/days and require dozens or that hundreds of people to get on a call?

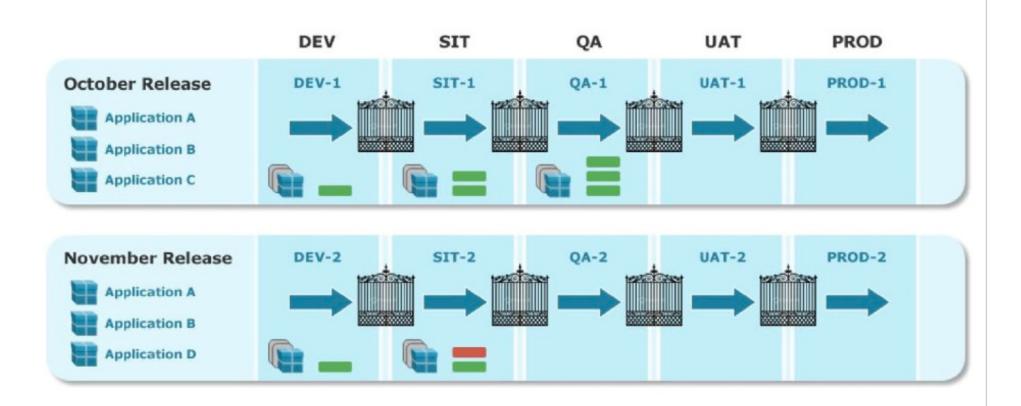
uRelease delivers

- Plan the release day
- Execute the release
- Communicate what's going on
- Allocate environments to releases
- Tie release back to development





uRelease Concepts

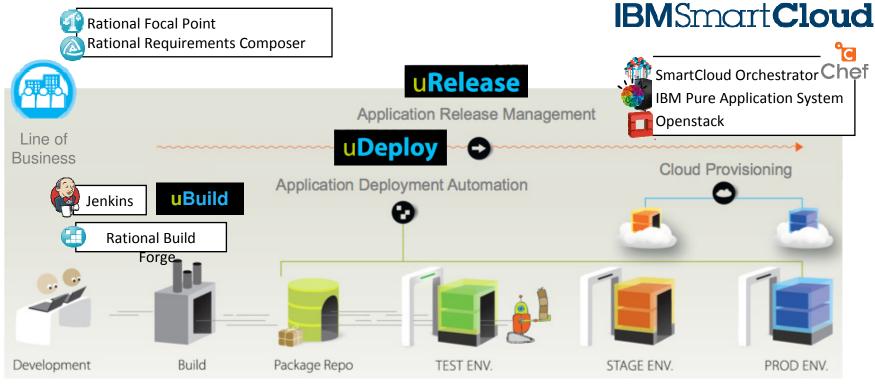


Automation & Management

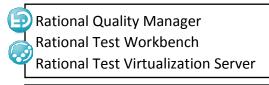
	uDeploy	uRelease
Application Release Automation		
Automate deployments	✓	
Visual process designer	✓	
Plug-in actions for application containers, web servers, network devices, database deployment, etc.	✓	
Model environments & deployment targets	✓	
Release Management		
Enforce quality gates for environments	✓	✓
Orchestrate changes across multiple applications		✓
Manage infrastructure in addition to application changes		~
Real-time status for long production releases		✓
Track the allocation of environments to releases		✓

















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How to get started?

- IBM DevOps Solutions
 - http://www.ibm.com/ibm/devops/us/en/
- Product Overviews
 - http://www.urbancode.com/html/products/deploy/
 - http://www.urbancode.com/html/products/release/
- DevOps learning Circle
 - https://www.ibm.com/developerworks/community/groups/service/html/communityview?communityUuid=860ff390-6cab-4f95-ab37-66d2ca7521b4
- uRelease Training Modules
 - http://www.youtube.com/watch?v=gLK86M13X7M&feature=youtu.be

Questions



Thank You

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End-to-end release planning & reporting

Real-time feedback for the delivery of business value



