DevOps – Is not just an IT thing
Help people deliver software just a little bit better

Who is Talking

- Dave West
- Chief Product Officer Tasktop
- OSLC Steering committee
- X Product Manager for the RUP
- Author Head First OOAD
- Former Forrester Analyst

@DavidJWest | dwest@Tasktop.com
The Question

Risk / Cost of Failure
Perceived

.COM Silicon Valley IT Delivery Serious Embedded

DevOps

And can you learn from this community
Why can I talk about DevOps?

Market leader in ALM integration
- Neutral partner to 14 vendors, 70+ integrations
- 6 of the top 25 global banks, 3 of the top 7 US insurers

Driving open source and standards
- Defined Software Lifecycle Integration, leader in OSLC/OASIS
- Created Eclipse Mylyn (~1.5M DLs/month)

Strong and growing company
- Trusted by Fortune 100, OEMs by CA, HP, IBM & Serena
- 75 staff, Vancouver HQ, offices in Austin, Boston, Europe

Sitting in the intersection of tools and process
A Difference of focus

Build new stuff

Keep stuff running
Moving Further Apart?

Agile Development

ITIL Best Practices
Water-Scrum-Fall

- Portfolio Mgt
- Project Mgt
- Operations

- Traditional planning and release approach
- Lean Startup Ideas
- Team level Scrum process
The Changing Face of Done

Continuous Development

Vision

Product Backlog

Sprint Backlog

Daily Scrum

24h

Sprint

Product Increment

Sprint Planning

Sprint Review

Continuous Delivery

RELIABLE SOFTWARE RELEASES THROUGH BUILD, TEST, AND DEPLOYMENT AUTOMATION

JEZ HUMBLE

DAVID FARLEY

Foreword by Martin Fowler
A Broader View Is Required

- Developers increasingly wanting software deployed to get feedback faster
- Business increasingly focused on software to deliver value
- The unknown requires feedback and insight
What the Vendors Say

Microsoft approach

Lots of similar yet different points of view
Famous DevOps Talks

10 deploys a day
Dev and Ops cooperation at Flickr

A talk by John Allspaw & Paul Hammond
Velocity 2009
So What is DevOps?

- Depends on who you are
- Netflix, Etsy talk about NoOps, but is it Ops for a different sort of business?
- So DevOps is an optimized flow between operations and development in the context of the problems those groups are working with...
- There is no one size fits all DevOps
What does DevOps cover?

An holistic approach to DevOps is required...
# Two Sides to DevOps

**DevOps**

DevOps (a portmanteau of development and operations) is a software development method that stresses communication, collaboration and integration between software developers and information technology (IT) operations professionals. **DevOps** is a response to the interdependence of software development and IT operations.

*DevOps - Wikipedia, the free encyclopedia*

<table>
<thead>
<tr>
<th>People</th>
<th>Process</th>
<th>Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collaboration</td>
<td>Automation</td>
<td>Virtualization</td>
</tr>
<tr>
<td>Measurement</td>
<td></td>
<td>Architecture</td>
</tr>
<tr>
<td>Flow</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Two different sorts of artifacts

- **Work**
  - The things that drive work
  - Examples include defects, stories, tasks, tickets, incidents, etc..
  - Associated with time, cost, governance

- **Asset**
  - The things that are worked on
  - Examples include specs, code, binaries, builds, deployments, etc..
  - Treated like an investment, incurs debt, has a life
Assets

Build Automation

Continuous Integration

Release Automation

Continuous Delivery
First Fixes for DevOps

- Focus on release management
- Automating build, test, deploy
- Repeatable
- Measurable
- Documented
Software Lifecycle

Tasks / Management:
- PPM
- RM
- Dev
- QM Security

Operations:
- ITSM
- APM

Scaled Agile

Classic Agile
Disconnected processes break when you scale Agility
But 30-70% of software projects fail

Silo focus is breaking the value stream
A Framework for DevOps

Software Lifecycle

PPM  RM  Dev  QM Security  ITSM  APM

Spec  Code  Build  Test  Deploy

Build Automation  Release Automation
So What About Systems?
Some Ways Far ahead

Spec  Code  Test

Systems Engineer

Model Driven
But Some Ways Behind
Using Lean

- Visibility of the process
  - Balancing value and risk
  - Looking at constraints
  - Cleaning up waste
  - Increasing flow
  - Manage batch size
  - Enabling collaboration
  - Removing silos
Visibility requires automation

Software Lifecycle

PPM  RM  Dev  QM Security  ITSM  APM

Spec  Code  Build  Test  Deploy

Automated

Linked

Build Automation  Release Automation

Traceability…Flow…Reporting…Collaboration….
Customer example:
Lacked visibility among QA, BA & Dev
Multiple development teams using different tools and practices
Integrated planning, development and enterprise quality

“I’ve been able to trace from the requirements.. to the test executions, to the defects.. I was able to get the end-to-end traceability.” VP testing
What Can You Do?

Automate, Automate and Automate.....

- Feedback is key to delivering value
- Innovation and feedback are linked
- Look to bottlenecks, constraints, etc...
- Requires visibility of both assets and artifacts
- Treat the system of delivering and maintaining the product in a similar way