What is DevOps and What Can It Do?

Presented by SAMSUNG

REDHAT SUMMIT 2016
Welcome

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Samsung Business Services

Founded Services Innovation Lab
Leads Off-the-Radar Enterprise Innovation
Most rewarding x challenging position to date
We build things people use everyday
Think Fast #1

Hacker?
Word Association
Word Association
My Association

De-Personified View

$N$ machines vs. Your Machine(s)

Fast will lead to Fail
Think Fast #2

DevOps?
Associations - Theory

Concept

DEVELOPMENT

QA

OPERATIONS

X
def.
defined as a “culture, movement or practice that emphasizes the collaboration and communication of software developers and other IT professionals”
Associations - Practice
Associations - Practice

Company

- Delivery
- Methodology ?
- Lifecycles ?
- Stake Owners ?
## Associations - Practice

<table>
<thead>
<tr>
<th>Company</th>
<th>Toolchain(s)</th>
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<tbody>
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<td>• Release</td>
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<td>• Methodology ?</td>
<td>• Configuration</td>
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<td>• Orchestration</td>
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## Policies

- Step 1 - ∞
- Products 1 - ?
- Have We? Can I? syndrome
Question

You Need it.
But What Really Works?
A Simple Plan

if ( your-org == real-business )
then ( require ( 'devOps' ))
else ( fail + then require( 'devOpsLite' ));

DevOps.proc
• proc_1() - Big Picture vs. Reality
• proc_2() - Business, and By-Products
• proc_3() - Bring together, Break apart, then Re-assemble
• proc_4() - Start Smart, it Never Stops
• end() - Here's an example
proc_1() - Big Picture

DevOps Must(s)

Enterprise Scale Ecosystem
DevOps Must(s)

- Far Exceed Multi-Source User Expectation
DevOps Must(s)

- Far Exceed Multi-Source User Expectation
- Be Integrated and Automated
DevOps Must(s)

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- Be Simple, Secure and FTE

(proc_1() - Big Picture)
DevOps Must(s)

- Far Exceed Multi-Source User Expectation
- Be Integrated and Automated
- Be Simple, Secure and FTE
- Increase Revenue(s) and Free
proc_1() - Realistic Picture

Most Organizations
Most Organizations

- Immediate ROI Focused
Most Organizations

- Immediate ROI Focused
- Right Staffed or Just Collaborative
Most Organizations

- Immediate ROI Focused
- Right Staffed or Just Collaborative
- Want World Record without Exercising
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DevOps Must(s)
- Developer Lead Operations
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- Developer Lead Operations
- Be Next-Generation Viral
- Not get in the way
- Have Strict Controls
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- Immediate ROI Focused
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DevOps Must(s)

- Developer Lead Operations
- Be Next-Generation Viral
- Not get in the way
- Have Strict Controls
- Encourage participation through shaming
proc_2() - Your Business and By-Products

By Products

- Micro Apps the new Prodo-types
proc_2() - Your Business and By-Products

By Products

- Micro Apps the new Prodo-types
- Internal projects are unorganized
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By Products

- Micro Apps the new Prodo-types
- Internal projects are unorganized
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- Custom one off
proc_3() - Bring together, Break apart
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"Just like our Customers, we want data from these systems. And Yesterday!"
proc_3() - Bring together, Break apart

"Just like our Customers, we want data from these systems. And Yesterday,..." 

"Our business needs more analytics for making better decisions."
proc_3() - Bring together, Break apart

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"My Organization and Architects support these technologies."
proc_3() - Bring together, Break apart

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"These corporate policies must be enforced and procedures followed."
proc_3() - Bring together, Break apart

"Just like our Customers, we want data from these systems. And Yesterday...

"Our business needs more analytics for making better decisions."

"My Organization and Architects support these technologies."

"These corporate policies must be enforced and procedures followed."

"They said that last time. Let's re-purpose the old stuff."

-Smart Person who understands DevOps
proc_3() - Re-assemble

Design is key

Design Pattern of Everything
proc_3() - Re-assemble

Design is key
- Loosely coupled; tightly encapsulated; distributable; continuables
proc_3() - Re-assemble

Design is key
- Loosely coupled; tightly encapsulated; distributable; continuable
- Balance between in-progress and in production
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- Common Practices Should Never Be Written, Maybe only once.
Design is key

- Loosely coupled; tightly encapsulated; distributable; continuable
- Balance between in-progress and in production
- Common Practices Should Never Be Written, Maybe only once.
- Assemble and Integrate more than Engineer
proc_4() - Start Smart

Concepts across Company

Educate, Integrate, Replicate, Support Forever
proc_4() - Start Smart

Concepts across Company

Educate, Integrate, Replicate,

Support Forever

○ Deployment is Everything
proc_4() - Start Smart

Concepts across Company

Educate, Integrate, Replicate,

Support Forever

- Deployment is Everything
- Start Small but End-to-End
proc_4() - Start Smart

Concepts across Company

Educate, Integrate, Replicate,
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- Deployment is Everything
- Start Small but End-to-End
- Analytics should match Experience
proc_4() - Start Smart

Concepts across Company

Educate, Integrate, Replicate,
Support Forever

- Deployment is Everything
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- Analytics should match Experience
- Re-Gift Great Packages
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...DevOpsLite
end() - Here's an Example
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First Customer
- 6 People - 4 weeks
- 0 projects to date
- Event Experience
  - Multi-Platform
  - Deployment
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RedHat MAP to the Rescue
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RedHat MAP to the Rescue
• Provided Backend Services, Connectors and Deployment that powered v1.0
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- Profitable Product to build a DevOps practice around
- Leading to 3 Products, 15+ Releases, 35+ Demos in 18 months same 6 people
Question

Does DevOps Work?

Yep.
Thank You

Richard Balsewich

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