Agile Dev
Better Software
DevOps WEST

A TECHWELL EVENT

DW5

DevOps Engineering
Wednesday, June 6th, 2018, 2:45 PM

Proving Out Your DevOps Pipeline Using a Minimum Viable Product

Presented by:

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TECHWELL™

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Tim Guay

AgileWorks Inc.

Tim Guay is an agile coach, practitioner, course author, and instructor for a wide variety of organizations, ranging from startups to Fortune 50 companies in Canada, the US, the UK, and France. He has been an agile practitioner since 2002 and has been a leader in promoting agile and DevOps best practices. He currently sits on ICAgile's DevOps Track Certification Committee. Tim has taught well over a thousand students, receiving excellent evaluations. He is certified by the Scrum Alliance to teach the CSD course as well as CSP continuing education courses. He is also certified by ICAgile to teach a wide range of courses, including the Fundamentals of DevOps certification course. Tim has presented, and will present, at several conferences on various agile topics.

AgileWorks

DevOps MVP

Tim Guay, Agile Coach and Trainer

- Agile Practitioner since 2002
- PMP, CSM, CSD, CSP, PMI-ACP, ICP-FDO, ICP-ASD, etc....
- Sits on the ICAgile DevOps Track Certification Committee
- Authored multiple Lean and Agile courses
- Clients include; JP Morgan Chase, Citigroup, Accenture, Cisco, Intuit, Comcast, State of Washington, and the Royal Canadian Navy (to name a few).

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Objectives

- Provide a broad understanding of;
  - The dangers of a Big Bang DevOps Implementation
  - Using a MVP to drive a DevOps pilot
  - Advantages of using an MVP for identifying issues
  - Advantages of using an MVP for proving out the pipeline
  - What makes a good DevOps MVP

The Problem

Premature Optimization

Big Bang   Big Data

Big Risks

Constraints   Silos

Culture

Brownfields   Monoliths

Keeping the Lights On

Dangers of Big bang

- People
- Process
- Business
- Technology

Is it Worth Betting the Farm?

What is a DevOps MVP?

- Deliver business value
- Prove out your pipeline
- Flush out issues
- Manage risk
- Incremental and iterative DevOps migration
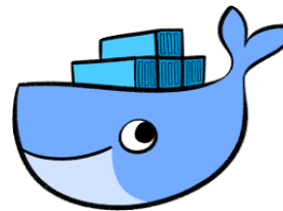
Using a MVP to drive a DevOps pilot

- People
- Process
- Business
- Technology

DevOps MVP vs. MVP

- Conceptually the same, but…
- Vanilla MVP doesn't care how it is built
- DevOps MVP totally cares
- May need more than one

JAVA Unit Testing

Java + JUnit 5

AWS

Goals of using a DevOps MVP

- Minimize risk with rapid feedback while…
  - Visualizing
  - Optimizing
  - Aculturating
  - Automating
  - Delivering

Advantages of using an MVP

- Easy to sell
- Fails fast
- Flushes out issues
- Builds capability
- Builds confidence
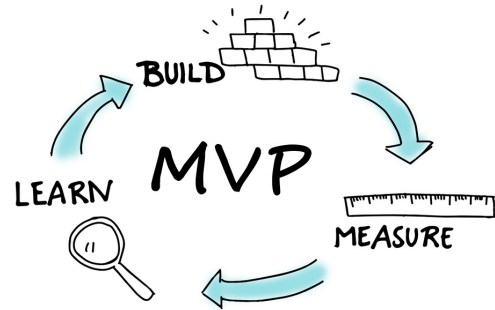- Boils a pot not an ocean

What makes a good DevOps MVP

- Delivers real value to the customer
- Everybody at the table
- Exercises the entire pipeline
- A Minimal Viable Process
- Validates our DevOps architecture
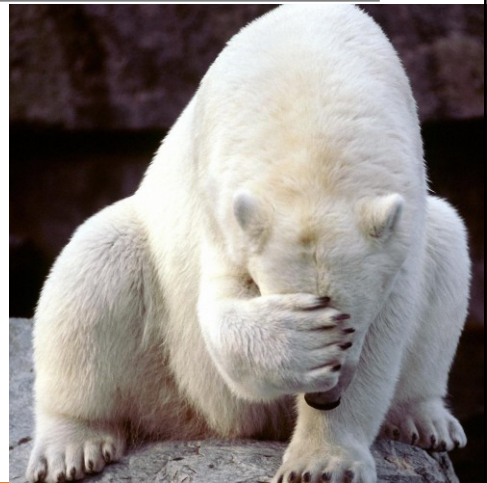- Wins hearts and minds

Creating a DevOps MVP

- Look for a low hanging fruit pilot
- Adress cultural issues
- Address process issues
- Train team
- Create a Minimal Viable Pipeline
- Lots of telementry

Antipatterns

- Pay lip service to the business value
- Overfocus on the tooling
- One MVP to test it all
- MVP not viable
- Can't call the baby ugly

Then What!

- Discuss Learnings
- Persist or Pivot
- Address Issues
- Refactor your pipeline
- Launch another DevOps MVP