**The History of DevOps**

Juedeja Richard

Computer Science, Bellevue University

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Professor Sue Sampson

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The Start of DevOps

Before DevOps, project development followed the Waterfall Model. Projects had 5 phases: Requirements, Design, Implementation, Verification (Testing) and Maintenance. One team was responsible for every aspect of the project and each phase could take months or years to complete before there was anything to show stakeholders. This process was long and costly and wasted a lot of time and effort with the constant backtracking that it required. Each phase had to be completed for the project to move on to the next stage and issues that arose could force the team to start over from the very beginning.

The Father of DevOps

In 2007, Patrick Debois, recognized the growing frustration with the current Model of Development and sought to find a way to do it better. In 2008, he attended a conference where he met Andrew Shafer and the two them began holding meeting where they discussed applying the Agile Methodology to Operations. In 2009, Patrick held his first DevOpsDays conference in Belgium where the term was first coined. In 2010 and 2013 the book Continuous Delivery and The Phoneix Project laid out the terms and policies for small but fast, automated and functional production for software development. These along with Agile were rapidly being adopted by companies to the improve speed of delivery, efficiency, quality and customer satisfaction of products and services.

The Lean Movement

Credit for the beginning and Perfection of integrating the production process is given to Henry Ford. He developed a way to produce cars on an assembly line by having it broken down into interchangeable pieces. People that worked in his factories didn’t have to know everything there was to know about how a car functions for them to assemble it because they were only responsible for one part of it. With machines added to the mix the process of each step took less time but the overall time for the finished product increased. Toyota was then able to swoop in with a few key changes to the way their machines ran to give high quality and variety in cars with a lower costs.

Lean was described in the book “The Machine that Changed The World” with 5 principles. First, Identify the Value desired by the customer. Second, map the Value Stream or the stream added by each step in the process. Third, create Continuous Flow between steps. Fourth, establish Pull. And Lastly, Seek Perfection by constantly striving to improve the value of the process.

The Agile Manifesto

As the Agile process became more popular 17 software developers met and drafted the Agile Manifesto. The Manifesto had four key Values to guide their work.

* Individuals and interactions over processes and tools
* Working software over comprehensive documentation
* Customer collaboration over contract negotiation
* Responding to change over following a plan

This Value were based on 12 principles the reiterated their commitment to creating great software that is of high value and meets the needs of the customers.

The Continuous Delivery Movement

Continuous Delivery(CD) is a core part of DevOps and a mandatory requirement for many organizations as it runs on the idea of continuously delivering value to your customers. It is a Lean practice that prioritizes keeping production up to date by finding the best way to go from code development to deployment. Things like a release pipeline are used to allow us to test fast while holding longer test untill after the quicker ones are completed successfully.

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