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Module 1.3 Assignment

The History of DevOps

DevOps which is a set of practices that combine software development and IT operations originally was implemented as a result of issues that development teams used to face in the software development process. Such issues included longer deployment times and poor communication between teams but with the implementation of DevOps and other software development practices improvements in efficiency and flexibility were introduced into the deployment process.

The Lean Movement

The Lean Movement aims to decrease the amount of non-important activities or otherwise wasteful parts of the software development process. Some principles of the lean movement include optimizing flow, reducing wait times, and overall just reducing any excess work. By completing these principles a development team ends up reducing time wasting activities and becoming more efficient in the process ultimately reducing the time it takes to output a given feature or project.

The Agile Manifesto

The Agile method of project development meanwhile was created in order to address the potential issues that the typical waterfall method had which often resulted in more strict requirements for documentation and project timelines. The Agile method placed importance on collaboration, adaptability, customer satisfaction, and rapid delivery. Basically the Agile method aimed to create a faster and more flexible approach to software development. Due to these improvements the Agile method greatly impacted DevOps as a whole and to this day remains as one of if not the most popular and widely used method of software development by most organizations.

The Continuous Delivery Movement

The Continuous Delivery method or CD for short similar to Agile was introduced to development teams in the 2000s. The goal of CD is to ensure code changes are reliable yet also rapidly deployed into production in response to customer feedback. In other words CD allows for customer feedback to be quickly implemented in a reliable manner. Unlike Agile, CD places importance on automating the build, testing, and deployment processes in order to reduce the likelihood of errors. This ends up resulting in faster product releases which naturally ends up being more beneficial to customers. Today CD plays an important role in DevOps giving development teams the ability to deploy code changes in hours rather than days or even weeks.

Sources:

[What is Lean? Lean Manufacturing & Lean Enterprise | ASQ](#)
[Manifesto for Agile Software Development](#)
[The Ultimate Guide to Agile Continuous Delivery](#)