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The History of DevOps Essay

The purpose of DevOps in the digital world is to improve the workflow of IT operations and software development. It focuses on optimizing collaboration, fast delivery, and automation to businesses to increase efficiency and reliability. The main foundations in the DevOps rely on these three topics: Lean, Agile, and Continuous Delivery.

The Lean Movement

The introduction of the lean movement began with the automotive industry. Toyota initiated this approach to focus on continuous improvement, flow in small batches, and what they call “Kaizen.” Kaizen is a business term that refers to activities that continuously improve all aspects of a manufacturing process, from the CEO to the assembly line workers. However, regarding software, the lean movement focuses on eliminating waste, improving workflow, and delivering high-quality products. It was adapted to focus on reducing delays, removing unnecessary steps in the development pipeline, and emphasizing customer value.

The Agile Manifesto

The Agile Manifesto was a document that 17 developers contributed to; it was created in 2001. It included 14 principles and four agile values that addressed problems with slow and rigid software delivery. Agile is an iterative process that involves customer collaboration to improve quality. It also emphasized effective responses in changing requirements to deliver this value. While it did improve how developers wrote code, it didn’t fully encapsulate how software was delivered and operated in production. DevOps emerged to close this gap.

The Continuous Delivery Movement

Continuous delivery focuses on keeping code deployable and constantly updated. CD involves practice procedures such as automated testing, version control, and automated pipelines. These ideas were merged to convert software development procedures that result in safe and constant updates.

Conclusion

Combined, these pillars can contribute to development speed and operational stability. It builds on Lean’s efficiency, Agile’s versatility, and the automation of the continuous delivery method. Today, these processes and contributions factor in the prosperity of companies and continue to empower teams to innovate faster and safely distribute code.

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