**The History of DevOps**

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The evolution of DevOps is rooted in three key movements: Lean development, the Agile Manifesto, and Continuous Delivery.

**Lean Development**

The Lean movement, originating in manufacturing with Toyota's practices in the 1950s, adapted its principles for software development in the late 1990s. The Lean Institute formally introduced this approach in 1997, emphasizing customer value and waste elimination (Kim, Humble, Debois, & Willis, 2016). Lean development focuses on optimizing processes by streamlining workflows, reducing cycle times, and improving quality. This continuous improvement mindset fosters efficiency and enhances overall productivity.

**The Agile Manifesto**

In 2001, the Agile Manifesto emerged as a response to traditional project management limitations. It outlines values prioritizing individuals and interactions, working software, customer collaboration, and adaptability (Kim, Humble, Debois, & Willis, 2016). This shift from rigid planning to a flexible, iterative approach has transformed development practices, enabling faster delivery and responsiveness to change—core aspects of DevOps.

**The Continuous Delivery Movement**

The Continuous Delivery movement builds on Lean and Agile principles, advocating for the ability to release software at any time. This approach emphasizes automation in the delivery process, ensuring that code changes are built, tested, and deployed seamlessly (3Pillar Global, n.d.). Gaining traction in the early 2010s, Continuous Delivery addresses the need for rapid, reliable software delivery, reducing deployment risks and enhancing quality.

**Conclusion**

The history of DevOps intertwines with Lean development, the Agile Manifesto, and Continuous Delivery, each contributing to a methodology focused on value delivery through collaboration and continuous improvement. Understanding these foundational movements is essential for fostering innovation in software development.

References

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