**The History of DevOps**

DevOps is an approach that improves how software is developed. By bringing development and operations teams together, it helps deliver software faster and more reliably. DevOps has roots in the Lean Movement, the Agile Manifesto, and the Continuous Delivery Movement, which all contributed to its practices and principles.

**The Lean Movement**

The lean movement began in manufacturing, especially with Toyota’s production system. Lean focuses on eliminating waste, improving efficiency, and delivering customer value. Key ideas include continuous improvement (Kaizen), just-in-time production, and efficient workflows.

In software development, lean principles help:

1. Reduce Lead Time
2. Eliminate Waste
3. Empower Teams

Lean tools like value stream mapping are core to DevOps practices, helping teams visualize and optimize processes.

**The Agile Manifesto**

In 2001, the Agile Manifesto introduced a flexible and collaborative approach to software development. It stresses:

1. Individuals and Interactions over Processes and Tools
2. Working Software over Documentation
3. Customer Collaboration over Contracts
4. Responding to Change over Plans

Agile promotes:

* Collaboration
* Frequent Updates
* Adaptability

Agile improved software development but did not focus on operations, which DevOps later integrated into its approach.

**The Continuous Delivery Movement**

The continuous delivery movement focuses on automating software delivery so updates can be released anytime. Jez Humble and David Farley helped shape this approach.

Key principles include:

1. Automation
2. Small, Frequent Releases
3. Feedback Loops

Continuous delivery lines up with DevOps’ goals by making sure integration and deployment (CI/CD) is seamless.

**The Emergence of DevOps**

The term DevOps was introduced in 2009 by Patrick Debois and Andrew Shafer. It grew from agile, lean, and continuous delivery. This concept ended up bringing together both development and operations. DevOps focuses on:

1. Collaboration
2. Automation
3. Continuous Improvement

DevOps transformed how software is built and delivered. This ended up producing many innovations like microservices and cloud computing.

**References**:

Atlassian. (n.d.). History of DevOps. [History of DevOps | Atlassian](https://www.atlassian.com/devops/what-is-devops/history-of-devops)

SPOClearn. (n.d.). History of DevOps: Origins & Growth Explained. [The History of DevOps: Origins, Growth, and Evolution Explained | Spoclearn](https://www.spoclearn.com/blog/history-of-devops-origins-growth-explained/)

3Pillar Global. (n.d.). Lean, Agile, and DevOps: A Focus on Delivering Value. [Lean, Agile, and DevOps: A Focus on Delivering Value - 3Pillar](https://www.3pillarglobal.com/insights/blog/lean-agile-and-devops-a-focus-on-delivering-value/)

Everything DevOps. (n.d.). A Brief History of DevOps and Its Impact on Software Development. [A Brief History of DevOps and Its Impact on Software Development](https://everythingdevops.dev/a-brief-history-of-devops-and-its-impact-on-software-development/)

Balmelli, L. (2024, March 29). A Brief History of DevOps and the Link to Cloud Development Environments. [A Brief History of DevOps and the Link to Cloud Development Environments - DevOps.com](https://devops.com/a-brief-history-of-devops-and-the-link-to-cloud-development-environments/)