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Assignment 1

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DevOps combines development and operations of the software development lifecycle. Its main goal is to get the product to the customer with efficient testing and approvals. This is a relatively new concept, as before the operations and development teams were separate, causing unnecessary delays and mistakes. Combining these two teams helps with automation and the overall release of the product. **The Lean Movement** is basically removing unnecessary steps that would delay the product's release. DevOps uses these same ideas to make software delivery faster and smoother by automating tasks and improving teamwork. **The Agile Manifesto** focuses on teamwork and providing quick feedback from users. This helps the developers create the best product they can with that feedback. DevOps continues this idea by extending agility beyond just coding. It includes deployment, monitoring, and maintenance so that the entire software process is fast and flexible. The **Continuous Delivery Movement** is the process of automation, testing, and deployment.With Continuous Delivery, all code changes can go directly from development to production. It enabled companies to deploy small changes to the product throughout the course of a day, which is a lot better than having one big product to deliver. Integrating small changes throughout the day minimizes mistakes and makes the process smoother for certainteams. Automated tests find problems in advance, and therefore, there are fewer mistakes. This stabilizes the software and enables users to get new features and fixes much sooner. Overall, DevOps brings together the Development and operations teams, utilizing Lean, Agile, and Continuous Delivery to create faster, more reliable ways to build and deliver software.

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