

Understanding DevOps

86%

About 86% of businesses believe that it is critical for them to develop and begin producing new software as soon as possible.



10%

Only 10% of companies claim to be extremely successful with regard to quick software development and deployment.



50%

About 50% of businesses believe that organizational silos are a barrier to delivering value to customers faster.

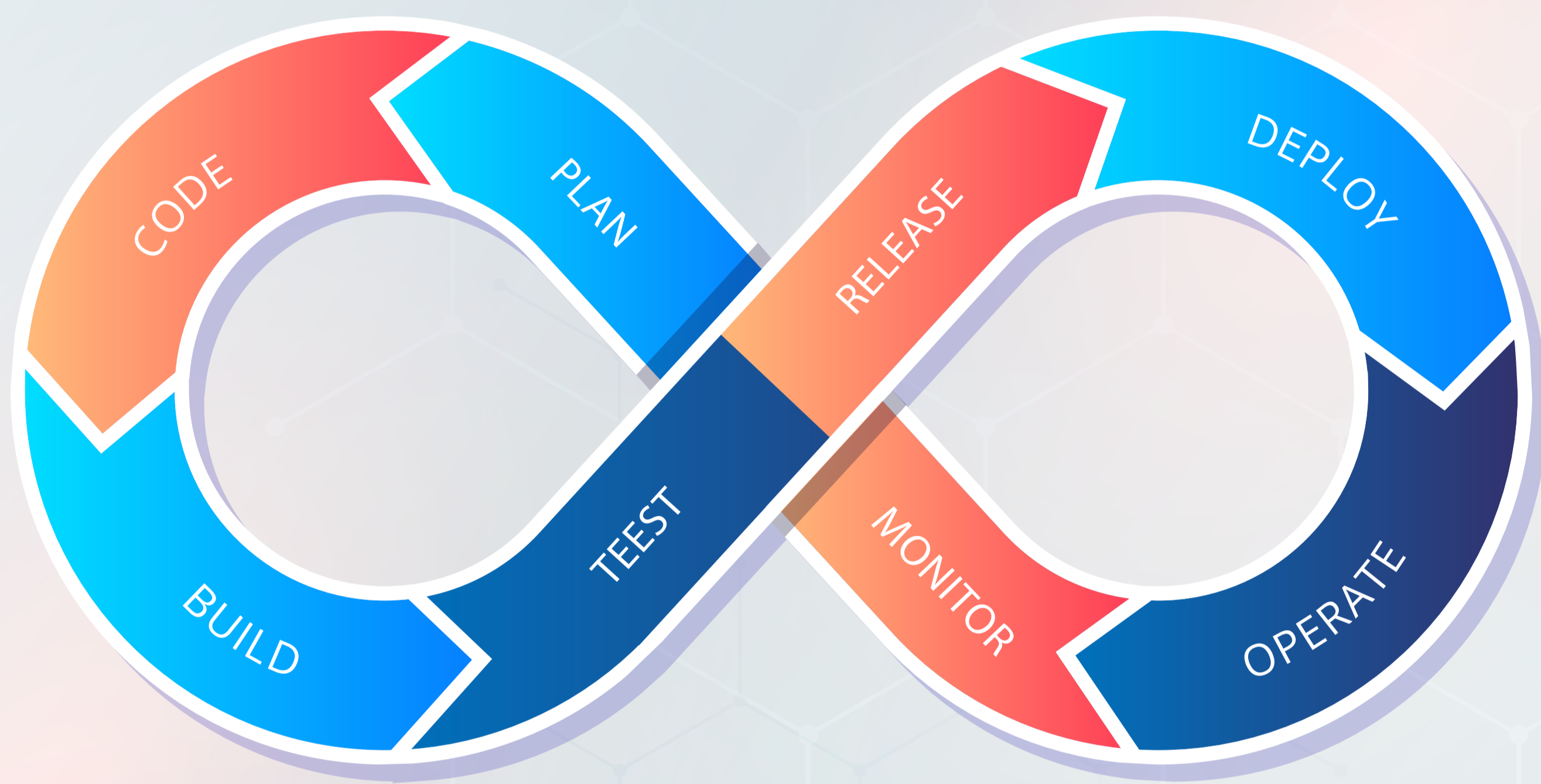


In today's modern digital world, the idea is to work more efficiently with clear communication and simpler processes. In addition, there is high expectation on shorter lead times and faster time to market. But, how can all these be achieved?

DevOps is the answer!

51%

DevOps is the collaboration between application development and development administration or the development and operations teams. Currently, **51% of firms use DevOps** to deliver software or plan to do so in the near future.



These are the eight phases of the DevOps life cycle. To be able to produce new software in a fast and efficient manner, interdisciplinary teams cycle through these phases constantly.

Continual Improvement (Plan and Code)

During this stage, actions are continuously identified and visually observed (e.g., with Kanban and Agile). As a result, all stakeholders have a clear understanding of the team's capabilities. Work can be divided and prioritized with ease.

Continuous Integration (Build and Test)

New code is tested for flaws at this phase. The quality assurance (QA) team ensures the software's reliability and tests its capacity to achieve set objectives in various test settings.

Continuous Delivery (Release and Deploy)

The updated version of the software can be moved to the production system once it has been tested and validated. This process starts with the installation of new code on the servers and ends with the final production or release. End users will have immediate access to new functions in this manner.

Ongoing Surveillance (Operate and Monitor)

Once the new app is up and running, the operations team can use tracking to gather data on the app's efficiency and consumption habits. The operations team keeps track of bugs and other issues that arise when using a product.

What is Azure DevOps?

Microsoft's Azure DevOps service, which is built on the Azure cloud computing system, provides a comprehensive collection of tools for managing software development projects.

99%

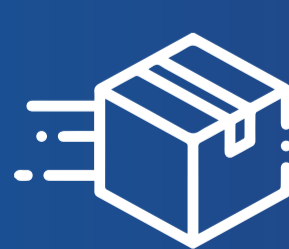
All DevOps services, including paid user-based extensions, are guaranteed to be available 99.9% of the time. Furthermore, with premium Azure Test Plans (Load Testing Service) and Azure Pipelines, it ensures 99.9% availability for load testing as well as builds and deploys processes. Azure DevOps insights will take your productivity to the next level.

Core Azure DevOps services



Azure Boards -

delivers a suite of Agile tools to support planning and tracking work, code defects, and issues using Kanban and Scrum methods.



Azure Pipeline -

provides build and release services to support continuous integration and delivery of your applications.



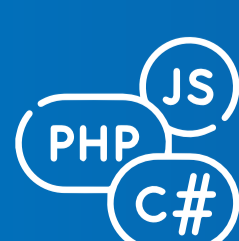
Azure Repos -

provides Git repositories or Team Foundation Version Control (TFVC) for source control of your code



Azure Test Plans -

provides several tools to test your apps, including manual/exploratory testing and continuous testing



Azure Artifacts -

allows teams to share packages such as Maven, npm, NuGet, and more from public and private sources and integrate package sharing into your pipelines