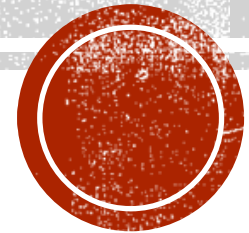
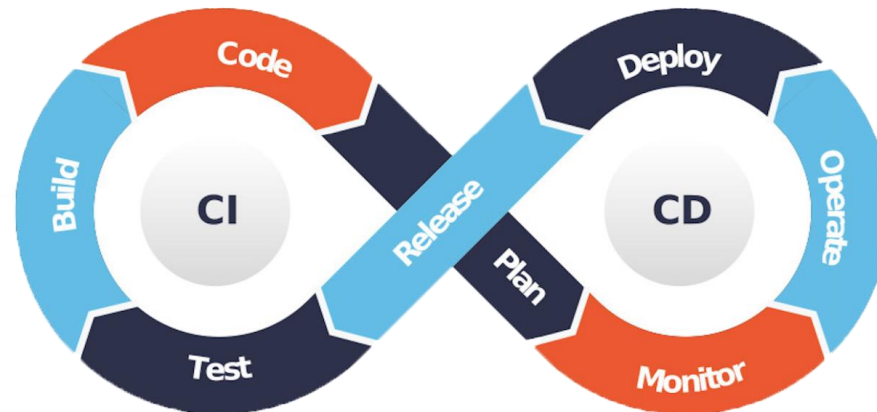
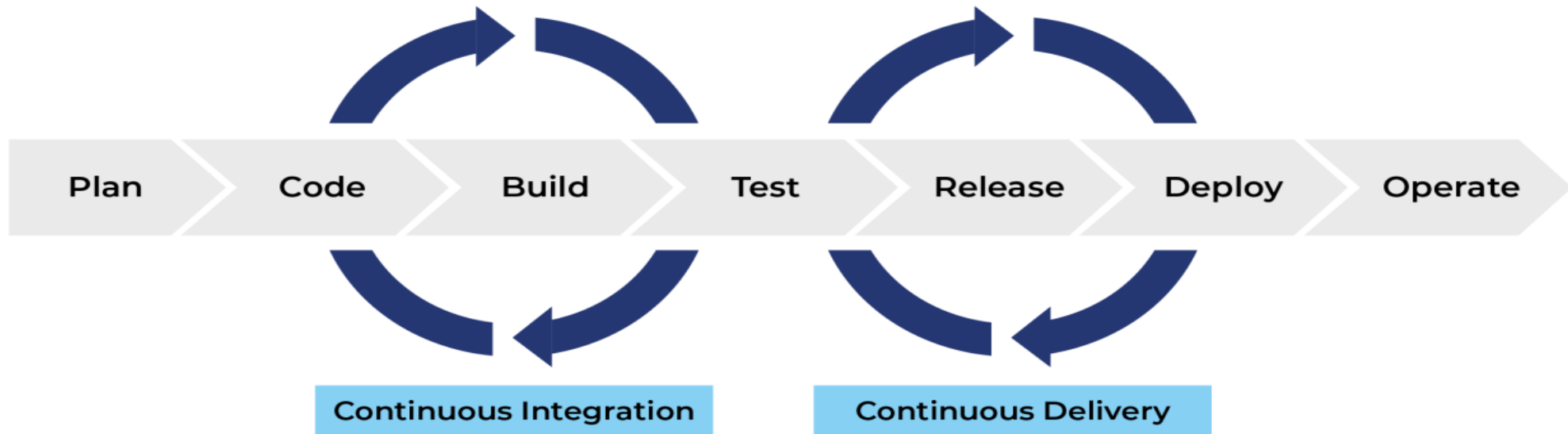


THE FUNDAMENTALS AND BENEFITS OF CI/CD



WHAT IS CI/CD AND PROCESS

- CI/CD, which stands for Continuous Integration and Continuous Delivery (or Deployment), is a set of software development practices that aim to automate the process of building, testing, and releasing software changes.
- Continuous Integration is the practice of frequently merging code changes into a shared repository and automatically building and testing the resulting codebase to ensure that it is stable and functional.
- Continuous Delivery (CD) is the practice of automatically preparing and releasing code changes to production in a safe and reliable manner.



BENEFITS OF CI/CD

- **Faster Time-to-Market**

- Allows for faster delivery of software products. The company can launch new products and updates more quickly.

- **Improved Quality**

- The automated testing ensures that code changes are thoroughly tested and verified. Reducing the risk of product recalls or customer dissatisfaction

- **Increased Efficiency**

- Automating repetitive tasks such as testing and deployment, developers can focus on writing code and developing new features. This benefit reduces costs by maximizing the productivity of developers



BENEFITS OF CI/CD

- **Enhanced Collaboration**

- Promotes collaboration between developers, testers, and operations teams. This benefit reduces costs by minimizing the risk of miscommunication and errors caused by manual processes, improving the efficiency of cross-functional teams.

- **Cost Reduction**

- Automation reduces the need for manual intervention, minimizing the risk of human errors and saving time and resources. This benefit reduces costs by streamlining processes, enabling the company to deliver more with fewer resources.

- **Rapid Feedback**

- Identifying issues earlier in the development process. This benefit reduces costs by minimizing the need for costly rework, enabling the company to deliver high-quality products more efficiently

