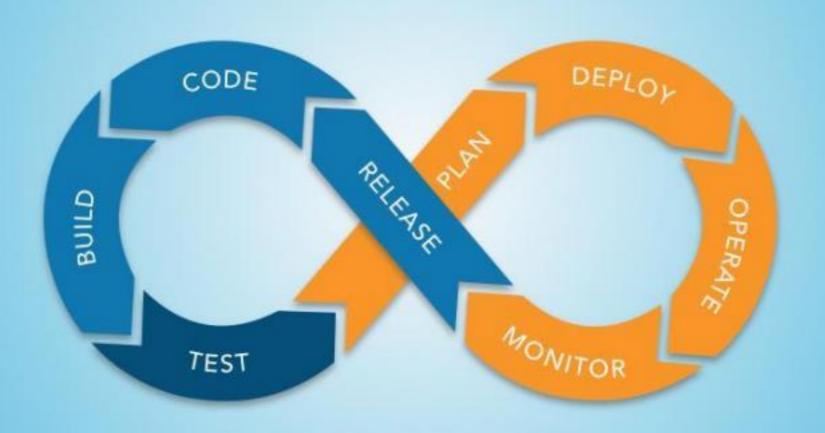Business Benefits of CI/CD

❖Faster time to market

- Without CI/CD: Spent more time to waiting up our product to market
- With CI/CD: Easily to delivery production to public

❖Reduced risk

- Without CI/CD: System will detect the rick late, and more rick can't be detect before up to production
- With CI/CD: The risk will be detected early. So, our product can delivery with minium issue can be occuring production

❖Shorter review time

- Without CI/CD: The Reviewer will spend more time reviewing the code. And spent too much effort doing this repeat.
- With CI/CD: The Reviewer will save more time doing this repeat. Even do not spend time doing this

❖Better code quality

- Without CI/CD: Code will be committed and stored on GIT without check. Or maybe had been checked by the reviewer, but it will be lost more time to do this.
- With CI/CD: Some tools had been added to CI/CD flow. Code can be automatically checked and reported early. Even, some plugins can fix some easy bugs in code.

❖Smoother path to production

- Without CI/CD: Old process, the DevOps engineer must do more steps to deploy new code or new products to the server. And some issues will occur during deployment time.
- With CI/CD: Simplify flow to deploy. Or maybe can deploy with one click.

❖Faster bug fixes

- Without CI/CD: When fixing and deploying some bug, you will do step by step (Eg: Review, Checklist,…) and it will be lost more time.
- - With CI/CD: Because we don't spend more time reviewing, and checking code, and easy to deploy to production. So we will do faster bug fixes.

Business context that will benefit from the automation tools

❖ Increased Workplace Happiness

- With CI/CD tool, employees do not have to do boring work many times, spend more time doing other tasks more efficiently.

❖ Higher Productivity

- Products are made through many automated steps, automatic regular checks should reduce errors, help improve product quality

❖ Less fire fighting

- Testing code more often, in smaller batches, and earlier in the development cycle can seriously cut down on fire drills. This results in a smoother development cycle and less team stress. Results are more predictable, and it's easier to find and fix bugs. -> Avoid Cost

❖ Less developer time on issues from new developer code

❖ Reduce Costs

- Automation in the CI/CD pipeline reduces the number of errors that can take place in the many repetitive steps of CI and CD. Doing so also frees up developer time that could be spent on product development as there aren't as many code changes to fix down the road if the error is caught quickly. Another thing to keep in mind: increasing code quality with automation also increases your ROI