Automatic Processing of Software Development

CI/CD benefits to revenue and cost for the business

What is CI/CD

CI/CD stands for Continuous Integration / Continuous Deployment, meaning that for each completed code by the developers, it gets integrated with the rest of the system and deployed to production.

Automation tools are applied to the CI/CD process to enforce:

- Repeatability in the process
- Easy Maintenance and Updates
- Quality of the code deployed to production
- Accelerated release cycles
- Improved Time to Market

Repeatability in the process

Leveraging the right automation tools, it is possible to be sure that every time the process is triggered, the same outcome is to be expected.

This allows for any team member, including the ones that have recently joined the team, to be able to provide value in a very short amount of time without fear of having a different outcome from the work produced by a senior member.

Quality of the code deployed to production

Having integration testing in place provided by the automation tools, allow us to check and catch every new code for issues before it gets released to production.

This allows for superior quality of the application and modules presented to the customer.

Easy Maintenance and Updates

In the same fashion, maintenance and updates can be addressed without the need of downtimes or maintenance windows.

CI/CD Automation tools allow for hot swap of modules or even the whole application with minimal impact to the customer improving the overall level of satisfaction.

Accelerated release cycles

By releasing the developers of the hassle of manually integrating and deploying code, they will be able to focus on new features and releases enabling improved velocity of value delivered to the customer.

Time to Market

By having an accelerated release cycle, the natural outcome is to have shorter times of new features to market.

This allows for quick deployment of campaigns or experiments and has the possibility of showcasing the company as innovative as it will continuously show improvements and new features.

Conclusion

Having setup a CI/CD automatic process, pose several benefits like:

- ***Reducing costs*** by having developers spend less time on issues and removing unused infrastructure resources
- ***Avoiding costs*** by detecting errors and vulnerabilities before they affect the customer
- ***Increasing revenue*** by having new value-generating features released more quickly and less time to market
- among others…