Concept/Benefit Of CI/CD ...

Overview

- Continuous Integration is the practice of automatically building testing application frequently.
- Continuous Deployment is the process of automatically deploying and upgrading application on a server.
- Continuous Delivery is the practice of deploying every change to production like environment and performing automation integration and acceptance testing along the way.

Understanding the concept of CI/CD

CONTINUOUS INTEGRATION	CONTINUOUS DEPLOYMENT	CONTINUOUS DELIVERY
• Building • Testing • Merging	• Automatically release to repository	• Automatically deploy to production

Continuous Integration and Continuous Deployment enhances Continuous Delivery and Continuous Improvement ~ (End of manual Deployment).

Understanding the market

- 90% of production issues are software problems.
- Most of the success in production is based on decisions made at the front of CI/CD pipeline.
- Reduced costs for the business's bottom-line
- Developers no longer waste time on merge issues each time a feature is to be implemented.
- Deliver value faster.

Proposed deliverables

ADOPTING CI/CD	Enhances how quickly a service can recover from a disruption and restore services.
	Ensures that no build is left broken, so as not to block delivery which in turns affect revenue.
	Continuous Improvement is everybody's business. Improving checks and validation so build can fail as early as possible to reduce cost of running a pipeline.
	Failure is unavoidable, with CI/CD, if there's a problem, a quick rollback is possible. This minimizes downtime and risk that a deployed feature would affect users.