CI/CD – AUTOMATING FOR EFFICIENT SERVICES

BENEFITS OF BUILDING AND DEPLOYING A CI/CD SYSTEM FOR AN EFFICIENT AND FUNCTIONING PROVISION OF OUR SERVICES

CONTINUOUS INTEGRATION (CI)

This is the practice of integrating changes from different developers and engineers in a team into a mainline as swiftly as possible. This makes sure the codebase being worked on by each individual does not divert too much and become traceable to its originating source among the individuals.

Continuous Integration is also important as it will enable better transparency. It is not just developers who will benefit from this, but the business as a whole. In this way, continuous integration helps to facilitate more effective planning, and it also ensures that teams are better equipped to turn those plans into reality.

CONTINUOUS DELIVERY (CD)

Continuous Delivery is the ability to get changes of all types, including new features, configuration changes, bug fixes and version updates into production or available to users, safely and quickly in a sustainable way.

We achieve all this by ensuring our code is always in a deployable state, even in the face of teams of thousands of developers making changes on a daily basis. We thus completely eliminate the integration, testing and hardening phases thus delivery time and cost are greatly reduced.

BENEFITS OF ADOPTION OF CI/CD SYSTEM

- Having a CI/CD system process would not only be beneficial to the engineers and developers, but also managers and executives of the organisation. All parties will gather valuable feedback and gain insights about the data available much faster.

- Reduction of overhead across the development and deployment process.

- Provides early detection and prevention of system bugs and errors, thus protecting our system from possible downtimes and customers dissatisfaction.

- Fosters collaboration between team members for an efficient and productive working environment.

- Reduces manual testing time, effort and cost of financial commitment.

HITCHES OF CI/CD SYSTEM

- Inadequate provision of processes automation strategy on how to plan cost and budget.

- CI/CD systems require constant support and management.

- Not all developers are ready to take up the challenge of spending their valuable time on relearning processes.