CI/CD BENEFITS PROPOSAL

OVERVIEW

❑- WHAT IS CI/CD?

   ❑CI/CD is a method of automation used in systems deployment. Its comprised of three main concepts.

   ❑Continuous Integration – the process of merging developer branches to the main branch several times a day. Introducing CI to the aforementioned scenario allows software developers to work independently on features in parallel.

   ❑Continuous Delivery – ensures changes of a software product can be released iteratively and quickly to customers in an automated fashion.

   ❑Continuous Deployment – Continuous delivery is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time.

PAIN POINTS – WHAT IS CI/CD SOLVING?

- Error prone deployments, leading to callouts, continual need for on call support and increased costs.

- Version control. We have no knowledge and traceability of what we are deploying.

- Manual process of deployment is too time consuming.

- What are all these pain points resulting in? Increased Costs..

HOW CI/CD SOLVES THESE PROBLEMS.

- Implement continuous Integration automate compiling, testing, and artifact code

- Automate infrastructure creation through version controlled YAML jobs.

- Automate manual deployment steps for smoke tests and rollbacks.

COST BENEFITS TO THE BUSINESS.

- Reduce Cost – We can catch errors before code is deployed to production, as well as detect security vulnerabilities before it effects us.

- Automate – Jobs are automated such that we don't have to spend time cleaning up a failed test / infrastructure.

- Increase Revenue – Faster and more frequent deployments will lead to increased revenue