



CI/CD PROPOSAL

Benefits of CI/CD to Achieve, Build, and Deploy Automation for
Cloud-Based Software Products



CI/CD OVERVIEW

- **Continuous Integration:** The practice of merging all developers' working copies to a shared mainline several times a day.
- **Continuous Deployment:** A software engineering approach in which the value is delivered frequently through automated deployments.

WHY CI/CD IS NEEDED (BENEFITS)

- **Increase Revenue:** CI/CD provides several benefits to the business, one of the many benefits includes a faster release rate. Since every process to deployment is automated, Several steps to take code to production will be automated. This in turn will increase revenue since value-generating features will be pushed to market at a quicker rate.
- **Avoid Unnecessary Costs:** CI/CD also helps in catching unit test failures, this prevents bad code from being shipped to production thereby enhancing the quality of the product. On the business side of things, this will avoid unnecessary costs associated with bugs from code in production.

WHY CI/CD IS NEEDED (BENEFITS) ..

- **Protect Revenue:** CI/CD provides a easy system to undo deployments and rollback code with bugs and breakages, this will prevent the occurence of a downtime and protect revenue being generated from the product.
- **Reduce Costs:** CI/CD also help in cleaning up unused resources, thereby reduce the amount of money being used to pay for servers and services etc.

CONCLUSION

- With these benefits in place, it would be a good idea to incorporate CI/CD pipelines to facilitate easy development, increase revenue, reduce cost, avoid unnecessary cost. etc.