A Presentation on

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

CI/CD At A Glance

What is CI/CD?

It is a software development practice that streamlines the development process and improves the quality of software. CI/CD enables developers to frequently integrate their code changes into a central repository and then deploy those changes to a live environment automatically .

Continuous Integration (CI):

This is an automated process of integrating code changes into a shared repository, with automatic testing and feedback on the success or failure of the integration.

Continuous Deployment (CD):

An automated process of releasing software updates to production environments frequently, with the ability to roll back when necessary.

Continuous Delivery (CD):

An engineering practice in which teams produce and release value in short cycles.

Benefits of CI/CD

CI/CD:

- increases revenue
- build and increases customer's satisfaction
- reduce cost
- protect revenue and
- avoid cost

Increase Revenue

Faster releases and updates can translate to more features and capabilities for customers, which can drive adoption and revenue growth. This also gives more customer satisfaction.

Protect Revenue

CI/CD can help prevent errors and downtime, which can protect customer satisfaction, build customers trust and retention

Reduce Cost

Automated testing and deployment can reduce the need for manual testing and deployment efforts, leading to cost savings. CI/CD also help reduce the cost of fixing errors and bugs, by identifying andfixing them earlier in thedevelopment process.

Avoid Cost

CI/CD can ensure less bugs in production and less time in testing code.
It also prevent embarrassing or costly security holes, less human error
and faster deployments. All these helps to avoid incurring huge costs during
development and deployment.

Conclusion

CI/CD tool is a must-have for any serious development team. Adding CI/CD tool to our arsenal will lead to faster build and deployment for our UdaPeople product thereby creating more revenue for our organization.