CI/CD
What are the benefits

Agenda

- ▶ 1. What is CI/CD?
- ▶ 2. What are the benefits of CI/CD?

1. What is CI/CD?

▶ CI and CD stand for Continuous Integration and Continuous Delivery/Continuous Deployment.

▶ The main concept of CI/CD is a solution that automation and continuous monitoring throughout the lifecycle of apps, from integration and testing to deployment.

1. What is CI/CD?

▶ **Continuous Integration** is a DevOps software development practice where developers regularly merge code changes into a central repository, after which automated builds and tests are run.

▶ **Continuous Delivery** is the process of building, testing, and deploying from a build to a production environment.

▶ **Continuous Deployment** is a strategy in software development where code changes to an application are released automatically into the production environment, human intervention is not required.

2. What are the benefits of CI/CD?

▶ **Automation**: CI/CD will automate builds, tests, and deploy so you have more time for code, not more tasks to do.

▶ **Smaller code changes**: If something goes wrong during a rollout, it is usually far easier to identify the root cause when it involves only one or two changes.

▶ **Bring products to market faster**: When organizations implemented CI/CD, which can bring new features to market faster rather than waiting for the entire app to be completed.

▶ **Reduce costs**: Using automation in the CI/CD pipeline helps reduce the number of errors that can take place in the many repetitive steps of CI and CD.

▶ **Better code quality:** Automating tests ensures they are performed consistently, making the results more reliable.

Conclusion

▶ Continuous Integration, Continuous Delivery is a software development and delivery process created to ease the workload of developers.

▶ In addition, CICD helps in fast-tracking system update releases and quick-reaction to customer feedback.