



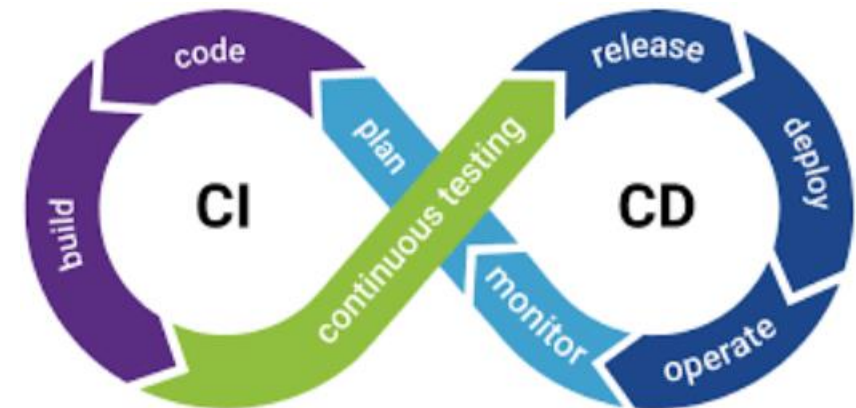
CI/CD AUTOMATION POWER

By Mohamed Khalil



CI/CD Meaning

- CI stands for Continuous Integration in which incremental code changes are made frequently and reliably. While CD stands for Continuous Deployment.
- Automated build-and-test steps triggered by CI ensure that code changes being merged into the repository are reliable.
- The code is then delivered quickly and seamlessly as a part of the CD process.



Benefits of CI/CD

- Increase revenue
 - CI/CD provides faster and more frequent production deployments which means new valued features are released more quickly adding profit to our application.
 - We can make automatic checks using CI/CD before deploying to production which decreases the employees needed for this function and also decreases the time to market.
- Protect revenue
 - Automated smoke tests can be launched reducing the downtime from related crash or major bug.
 - Also quick undo is available to return the production state back to working state in case of any failure.

Benefits of CI/CD (Cont.)

- avoid cost

- Less bugs in production and less time in testing as CI/CD Catches Unit Test Failures
- CI/CD Prevents embarrassing or costly security holes as it helps in detecting security vulnerabilities.
- Less human error and Faster deployments are provided as Infrastructure Creation is automated.

Reduce cost

- Catch Compile Errors After Merge Less developer time on issues from new developer code
- Automate Infrastructure Cleanup Less infrastructure costs from unused resources

THANK
YOU