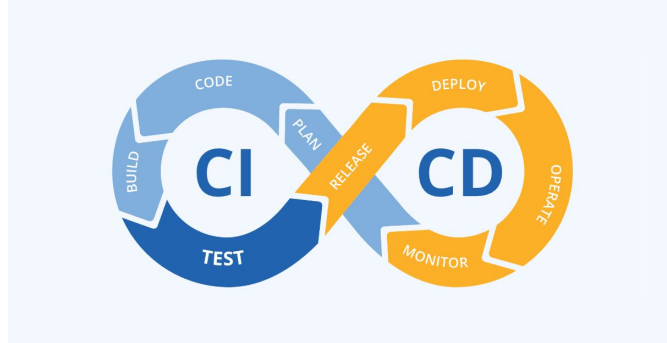

FUNDAMENTALS AND BENEFITS OF CI/CD

How Organizations Save Cost And Deliver Faster

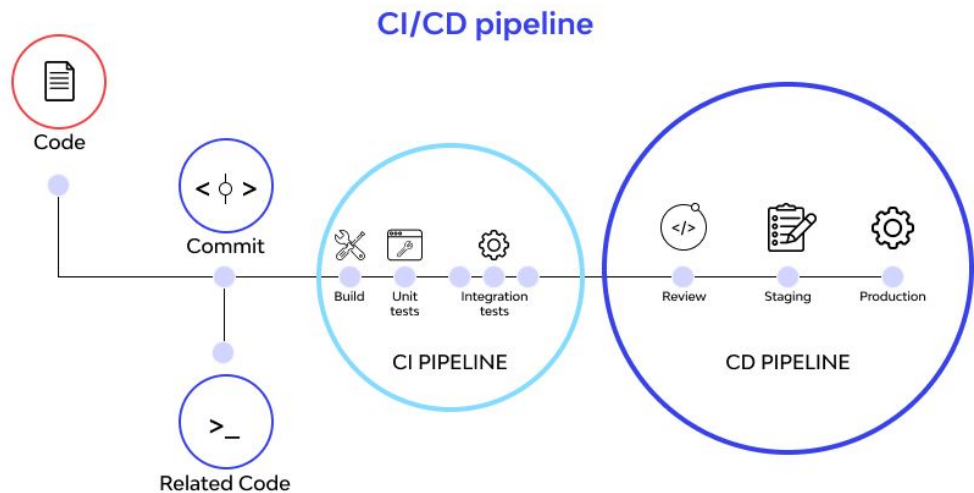
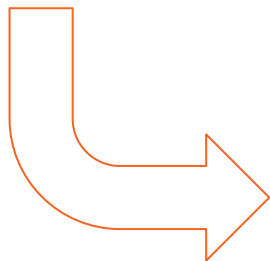
What is CI/CD?

Continuous Integration is a development practice of code integration into a shared repository. Each integration is verified by an automated build and automated tests.

Continues Delivery is an extension of continuous integration. It aims to reduce the time the development teams takes between writing one new line of code and using it in production.



How does the CICD Work?



Benefits

Continuous Integration

- Reduces Code Conflicts
- Faster Code Merge
- Catch Compile Errors After Merge

Continuous Deployment

- Faster & More Production Deployments
- Avoid Manual Intervention
- Automated Rollbacks In Case of Failure.



Continuous Integration

- Increase Revenue
- Reduce Cost
- Avoid Cost
- Protect Revenue



Continuous Deployment

- Increase in market share
- Faster feature delivery

Why We Should Invest Time In **CI/CD**?

Customer Satisfaction Buggy software harms your brand reputation Utilizing a CI/CD approach keeps your product up to date with the latest technology and allows you to gain new customers and guarantee long term contracts for your company.

Reduce Cost and Boost Profit Lowering chances of mistakes and limits the potential impact and loss that a deployment problem and bugs can cause.

Smaller Backlogs As most of the process is automated so your testers now have the time to deeply focus on the important phases of testing to get higher quality product.

Shorter MTTR It makes mean time to resolution shorter because of the smaller changes with the faster fault isolation.

Accelerated Time To Market The release frequency will increase dramatically which makes the way from development to production is too short.

Fault Isolation It helps to isolate the faults and makes it faster and easier to be detected by combining monitoring the systems to report the stage and locations of the faults

Increased Productivity Thanks to the automation of routine processes now the development team can focus on the crucial tasks only.

Flexibility & Responsiveness It makes applications updates faster which helps to release the new features faster and easier and fix the issues faster once a bug is detected.
