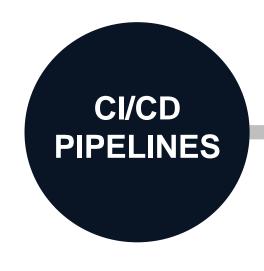
CI/CD pipelines By Ahmed Ashraf





What is continuous integration (CI)?



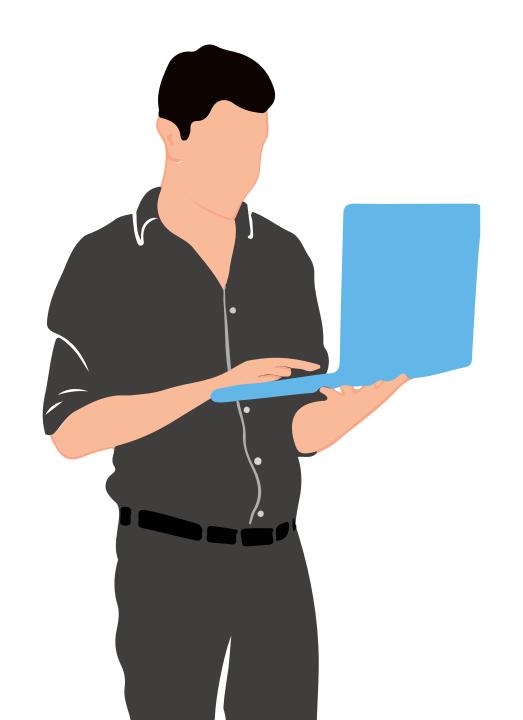
What is continuous Deployment (CD)?



Why is CI/CD important?



Benefits of CI/CD for the company



WHAT IS CONTINOUS INTEGRATION?

The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "Making".

WHAT IS CONTINUOUS DEPLOYMENT?

A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here. It's the process of "Moving" the artifact from the shelf to the spotlight







Benefits of CI/CD for the company

Less fire fighting

Testing code more often, in smaller batches, and earlier in the development cycle can seriously cut down on fire drills. This results in a smoother development cycle and less team stress. Results are more predictable, and it's easier to find and fix bugs.



Happier users and customers

Fewer bugs and errors make it into production, so your users and customers have a better experience. This leads to improved levels of customer satisfaction, confidence and reputation.

Recover faster

CI/CD makes it easier to fix issues and recover from incidents (MTTR). Continuous deployment practices mean frequent small software updates so when bugs appear, it's easier to pin them down. Developers have the option of fixing bugs quickly or rolling back the change so that the customer can get back to work quickly.



Accelerated time-to-value

When you can deploy anytime, you can bring products and new features to market faster. Your development costs are lower, and a faster turnaround frees your team for other work. Customers get results faster and gain a competitive edge.