

What is CI/CD?

Intro:

- CI/CD stands for Continuous Integration/Continuous Delivery (or Deployment). It's a set of practices and methodologies used in software development to automate and streamline the process of building, testing, and deploying software changes.
- Continuous Integration (CI) is the process of automatically building and testing code changes every time a developer commits code to the main code repository. This ensures that all changes are tested and integrated into the codebase quickly and frequently, catching any errors early on and preventing them from becoming bigger problems later.
- Continuous Delivery (CD) is the process of automating the release of code changes to production or other environments. This includes all necessary steps like testing, building, packaging, and deploying code changes. The goal of CD is to ensure that code changes can be released to production quickly, safely, and with minimal risk.
- Combined, CI/CD helps development teams to deliver software faster, more reliably, and with higher quality. By automating the process of building, testing, and deploying code changes, it reduces the amount of manual work required and minimizes the risk of human error.