



CICD



CICD Definition:

- Purpose of CICD is to automate the process of integration and deployment to have a robust process that can run without any interference from the developers , so we can save time and cost.
- Aims to focus more on development instead of operations , so we detect issues early and take a great actions based on the alerts.



CICD Stages:

- Build & Integration testing : build source code from different developers and check the integrations issues.
- Static analysis : run code smells checks against the rules defined to measure code quality
- Unit testing : execute the unit testing so we can detect the issues early and measure code coverage.
- Deploy : deploy our application to cloud environments or local environments so we can run smoke testing
- Smoke testing : test the deployed versions so we can take action weather to promote or destroy and revert to the old instance



CICD benefits :

- Save developers time and cost so they focus on code quality only
- Detect issues early so they can fix it
- Perfectly save business applications by detecting issues early and take actions so the business continue running.