Continues Integration:

- Lead time: Early feedback and build/test automation help decrease the time it takes to go from code committed to code successfully running in production.
- Deployment frequency: Automated tests and builds are a pre-requisite to automated deploy.
- Time to restore service: Automated pipelines enable fixes to be deployed to production faster reducing Mean Time to Resolution (MTTR).
- Change failure rate: Early automated testing greatly reduced the number of defects that make their way out to production.

Business benefits of CI CD pipelines:

- Create Revenue By having more automated & well tested code in production reduces time to market thus enabling business to create more revenue.
- Protect Revenue since there is a automatic roll back mechanism in place in case of any failed deployment which could cause loss in revenue can be avoided.
- Control Costs due to code analysis (devsecops) or test automation costly security loopholes or vulnerabilities can be avoided which could control the cost otherwise incurred.
- Reduce cost Using IAC or general cleanup practices, unused resources can be cleaned up to reduce cost. This also reduces time to fix compile time errors produced by another developer.

CI CD Pipeline: