UDAPEOPLE
CI/CD BENEFITS

What does CI/CD Stand for?

CI/CD has three key ideas:

1) Continuous Integration - the process of merging developer branches to the main branch several times a day.

2) Continuous Delivery – Software changes can be released quickly in an automated way 24/7

3) Continuous Deployment – Having frequent automated deployments without any human interaction

Benefits of CI/CD (1)

Current problem:

- Manual Deployment Process can fail often – leading to manual intervention/rollback

CI/CD Solution:

- Smoke test and rollback phase are automated
- This will lead to cost savings due to reduced downtime/less manpower involved and having an automated rebuilding of deployment

Benefits of CI/CD (2)

Current problem:

- Poor Software Quality/No adequate unit testing/error prone release process

CI/CD Solution:

- Automated compiling and testing via Continuous Integration
- Saves in costs due to reduction in human errors

Benefits of CI/CD (3)

Current problem:
- Fortnightly/Monthly 'Big Release' – single release making customers wait many weeks to see their changes

CI/CD Solution:
- Automated deployment will allow changes to be pushed to production at any given point in time
- Customers will be more satisfied with the output as a result.