UdaPeople

CI/CD



What CI/CD?

- Continuous Integration (CI): It is practise of merging the developer's work to a shared mainline multiple times a day,
- Continuous deployment (CD): It is an engineering approach in which valuable features are delivered frequently through automated processes.
- Both CI and CD contribute to a Continuous Delivery of releases to the product in short periods of time.

1. Reduce Cost

- Catch build errors after merge which means less time on solving issues from new code.
- Automate infrastructure cleanup which reduces infrastructure costs from unused resources.

1. Avoid Cost

- a. Catch unit test failures which reduces bugs in production and time in testing.
- b. Detect security vulnerabilities which prevents costly security holes.
- Automate infrastructure creation which means less human error and faster deployments.

1. Increase Revenue

- Faster and more frequent production deployments providing New valuable features released more quickly.
- Deploy to production without manual checks whichreduces time to market.

1. Protect Revenue

- Automated smoke tests which reduces the downtime from a deploy-related crash or major bug.
- b. Automated rollback after a job failure which quickly returns production to a working version.