Welcome Udapeople

Fundamentals and Benefits of CI/CD

Introduction to CI/CD

- Fundamental of CI/CD
- Benefits of CI/CD
- What is Continuous Delivery
- CI/CD Best Practices

Fundamental of CI/CD

- **Continuous Integration**: The practice of merging all developers' working copies to a shared mainline several times a day.

- **Continuous Delivery**: An engineering practice in which teams produce and release value in short cycles.

- **Continuous Deployment**: A software engineering approach in which the value is delivered frequently through automated deployments.
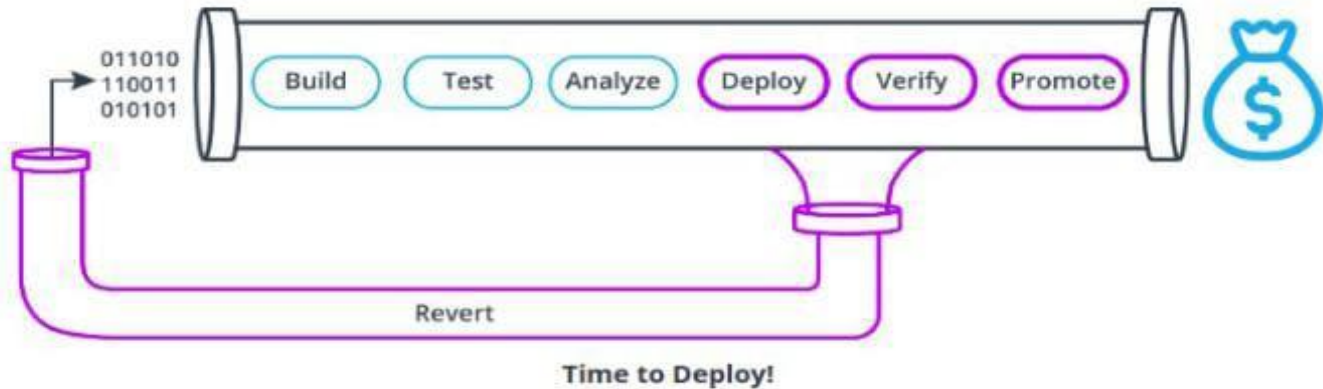
- **Benefits of CI/CD**

1. **Reduce risk**

2. **Deliver faster**

3. **Expend less manual effort**

4. **Generate extensive logs**

5. **Make easier rollbacks**

● What is Continuous Delivery

Continuous Deployment can be an incredible tool in your arsenal. Not only does CD save time, but it opens some unexpected doors that have a ripple effect over the entire organization

- **CI/CD Best Practices**

1. **Developers aren't fixing things, they're writing code.**
2. **Code is in production.**
3. **Developers have the bandwidth to focus on solving business problems.**
4. **It's easier to innovate.**
5. **Attract and retain talent.**
6. **Everyone does what they do best.**