



# UDAPEOPLE APP

CI/CD PROPOSAL

# OVERVIEW

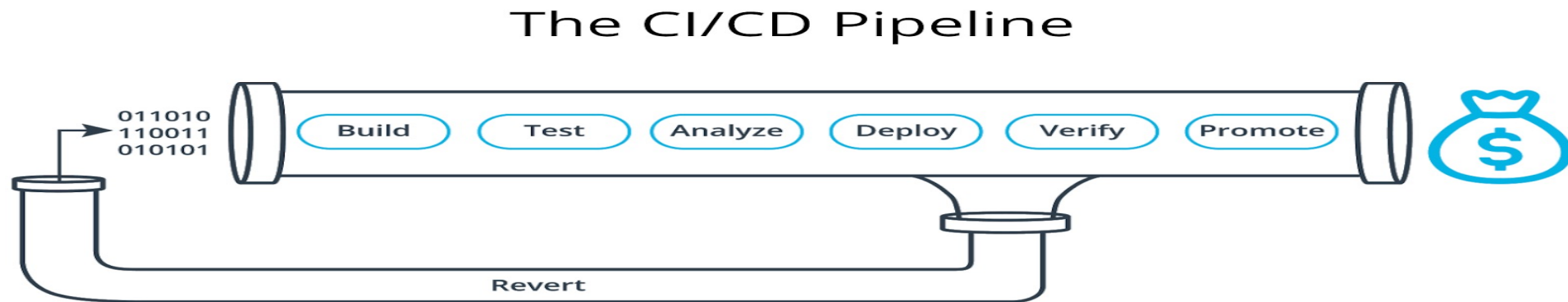
- What is CI/CD
- Challenges with our current implementation
- Benefits of adopting Devops principles
- Challenges implementing Devops principles

# WHAT IS CI/CD

CI/CD consists of three major concepts

- CI :- Continuous Integration is the practice of merging all developers' working copies to a shared mainline several times a day.
- CD:- Continuous Deployment is a software engineering approach where every change that passes all stages of your production pipeline is released to customers through automated deployments.
- Continuous Delivery is an overarching paradigm in which teams produce and release value in short cycles.

*Continuous Integration + Continuous Deployment = Continuous Delivery*



# CHALLENGES WITH OUR CURRENT IMPLEMENTATION

- We release new features manually which is prone to errors
- Delay in release since release needs to be carried out by an individual
- There is not sufficient time for product analysis when releasing new features/products
- We might release buggy products since the features did not go through proper full-feature tests
- Our customers might encounter issues using our products and we may not notice in time since there is delayed feedback

# BENEFITS OF ADOPTING DEVOPS PRINCIPLES

- Experience 1/60 of service failure
- Recover from failure faster
- Deploy 30 times more frequently
- Cost reduction due to less human errors
- Find problems faster
- Predict problems before they happen
- Real-time notification of issues
- Business stakeholders are involved in the deployment process
- Quicker feedback from our product users which gives better customer satisfaction

# CHALLENGES IMPLEMENTING DEVOPS

## PRINCIPLES

- High cost of transitioning to Devops
- Initial learning process