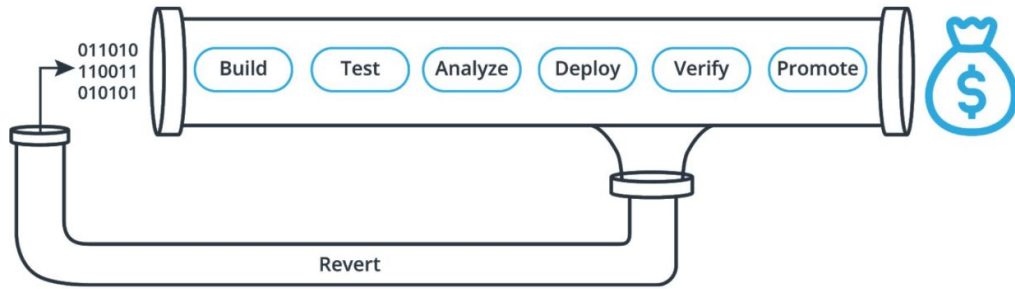


The CI/CD Pipeline



UDAPEOPLE

The organization leading the
future of HR



Introduction

This proposal is to offer the following...

- What the technical concept of DevOps can bring to your organisation
- The benefits of a CI/CD pipeline from a business standpoint
- How Udapeople can maximise revenue and efficiency

DevOps

What is DevOps?

Simply put DevOps is a concept which minimizes the bridge between both of your teams namely: Development and Operations.

How does this work?... We'll show you



CI/CD

- What is CI/CD?
- In short CI is Continuous Integration and CD is Continuous Deployment
 - Continuous Integration is when your developers are merging code several times a day. Its easier to merge these changes when we have an infrastructure in place that prevents potential conflicts, which in essence reduces the need for time-consuming communication between developers.
 - Continuous Delivery is a Engineering Mindset Paradigm - More about the approach
 - Continuous Deployment is where value is delivered contiguously through automating deployments

Benefits of CI/CD (Technical)

- You will be investing more time in delivering value rather than the cycle itself
- Prevents code getting lost in botched merges
- Prevent the time consumption from merge issues
- Manual Deployment increases chances of errors by human tasks
- Detected security vulnerabilities earlier
- Automate infrastructure creation
- Faster and more increased deployments
- Automated tests

Value to UDAPEOPLE Business

- Reduce cost from hiring more resources to handle merging code as less time is spent on issues from new code commit
- You are able to avoid potential significant costs as you can prevent security vulnerabilities by detecting them earlier, these can be costly.
- Reduce costs through automating infrastructure costs, there are less costs as a result from unused resources
- Increase revenue through making your customers happy as you have far more quicker frequent deployments, therefore gaining customers/keeping customers
- Protect Revenue through automated tests, you are reducing downtime from a bug and effectively keeping your sparkly reputation intact.