

CI/CD BENEFITS PROPOSAL

UDAPEOPLE

OVERVIEW

- ▶ What is CI/CD?
- ▶ Why CI/CD?
- ▶ WHAT ABOUT BUSINESS VALUE?

Continuous Integration

Continuous Integration describes the process of merging developer branches to the main branch several times a day. CI puts an emphasis on test automation and finally generates a high quality, deployable artifact.

Continuous Delivery

In addition to Continuous Integration, Continuous Delivery makes sure that changes of a software product can be released quickly to customers in an automated way and at any point in time.

Continuous Deployment

Continuous Deployment extends Continuous Delivery in such a way that it allows frequent automated deployments without any human interaction.
Typical phases in Continuous Deployment are Infrastructure Provisioning, Smoke Testing, Production Deployments and automated Rollbacks.

WHY CI/CD ?

Continuous Integration

- Detects bugs/errors as quickly as possible and fresh mind to fix it.
- Reduces integration issues
- Faster development
- Improve compliance: It is a big deal for businesses to make sure it is auditable especially governance and financials
- Happy Developers/Business Team

WHY CI/CD ?

Continuous Delivery/Deployment

- Consistent process
- Fewer handoffs
- More deployments
- Confidence in deployment
- Reduce overheads

WHAT ABOUT BUSINESS VALUE ?

Technical

- Catch Unit test/compile errors
- Detect Security Vulnerabilities
- Automatic clean resources
- Faster and Many deployments
- Automatic Rollback
- Automatic Deployments

Process outcome

- Faster testing/fixes
- Reduce compliance issues
- Reduce manhours/no leftover of unused resources
- Bigger Market Share/Release features
- Lesser production downtime/Costumer satisfaction
- Less Man-hours

Business Impact

- Reduces Cost/Increases Profit
- Reduces cost in audit/Increase profit
- Reduces infrastructure cost
- Increases revenue
- Increases revenue/reduce cost
- Reduces costs