

Benefits of CI/CD adoption for UDAPEOPLE

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Overview

Continuous Integrations

It's all activity related to the code, in simple words it gathers the work from each developer and merge it into a single well baked source of code on very a frequent basis.

phases:

- Build/compile
- Unit Test
- Static Analysis
- Dependencies vulnerability test
- Store artifacts

Continuous Development

It's the activity of deploying of the artifacts built on the CI stage in automated and recurrent way so the stakeholder can keep attention of the value generated so far in each delivery.

phases.

- Create infrastructure
- Provision servers
- Copying resources
- Promote to production
- Smoke tests
- Rollbacks

Target audience

- The release cycle is more demanding than the creation of value cycle,
 - Deployment is hard to get done and is usually done for just a few members with the know how.
 - Friction between the development teams and the rest of the organization
 - Unit test is hard to implement and it is avoided most of the time
 - Integration of the code is a mess and the lost of code and commits is very often
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Benefits-Cost

Reduce Costs

Errors coming integrations of code are detected earlier so less time is spent working on fixing them.

Unused resources are terminated earlier so less money is spent on infrastructure.

Avoid Costs

Less time in testing thanks to unit tests, so there are less bugs in other stages.

Catch security vulnerabilities that can be very expensive

Faster deployments translates in lower incurred costs

Infrastructure is managed more efficiently

Benefits-Revenue

Increase Revenue

New value-generating features released more quickly so the revenues is bigger

Less time to market generate more possibilities to get profit earlier

Protect Revenue

Crashes due to infrastructure issues or major bugs are caught before going to production

Quick rollbacks so downtime is reduced and the working state is optimized.