

# Udapeople - CI/CD



What is a benefit of continuous integration and continuous delivery (ci/cd)

# Overview

Feature rollout process:



Without CI/CD:

1. Human error
2. Slow process
3. Security
4. Downtime

# Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day:

- Build
- Test
- Analyze
- Dependency vulnerability testing
- Store artifact



Reduce time cost; Avoid defects; Avoid security; Less human error

# Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments:

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production
- Smoke Testing
- Rollbacks



Faster deployments; Less infrastructure costs; Less time to market;  
Reduced downtime; Quick Rollback

# Benefit of CICD

- Team doesn't have to spend days preparing for a release anymore.
- Release more often
- Encouraging iterating faster
- Deployments pipelines are triggered automatically for every change.
- Releases are less risky and less downtime
- Customers see a continuous stream of improvements, and quality increases every day, instead of every month, quarter or year.