

CI/CD – A perfect technology to build and deliver products to market

Cons of CI/CD for our company to achieve build and deploy automating for our products delivery

❏ Continuous Integration

- Simply CI is the practice of automating the merging of the new changes and work from all developers to a single project.
- CI units “Dev” team work to achieve the ultimate goal to a high quality artifact.
- It’s all about code and Development team workflow.
- Some CI phases:
 - Unit/Integration tests
 - Compile code
 - Static code Analysis

❏ Continuous Deployment

- A strategy for software releases where any code updates or change made is deployed directly into the live production environment that it's visible to customers.
- It's responsible for deploying . Simply it's process of moving the artifact from “behind the scenes” to “the spotlight”.
- It's all about deployment and “Ops” workflow.
- Some CD phases:
 - Promote to production
 - Run smoke tests
 - Rollback
 - Build infrastructure automatically

❏ Benefits Of CI/CD

➤ CI/CD is the perfect strategy for business, it's like driving a car instead of walking and it's even better as it's safer, easier and reduces cost. Here are some benefits of CI/CD:

- Detect Security Vulnerabilities: Prevent embarrassing or costly security holes
- Automate infrastructure Creation: Less human error, Faster deployment
- Catch Unit Test Failures: Less bugs in production and less time in testing
- Automate Smoke Tests: Reduced downtime from a deploy-related crash

❑ Benefits Of CI/CD

- Deploy To Production Without Manual Checks: Less time to market
- Automated Infrastructure Cleanup: Less infrastructure costs from unused resources
- Catch Compile Errors: Less developers time on issues from new developers code