



THE CONCEPT OF CI/CD AND ITS BENEFIT TO UDAPEOPLE

Fundamentals and benefit of CI/CD
to help foster automated integrations
and delivery



Fundamentals of CI/CD

Continuous Integration

*The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "**Making**". Everything related to the code fits here, and it all culminates in the ultimate goal of CI: a high quality, deployable artifact! Some common CI-related phases might include:*

- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact



Fundamentals of CI/CD

Continuous Deployment

*A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here. It's the process of "**Moving**" the artifact from the shelf to the spotlight. Some common CD-related phases might include:*

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production
- Smoke Testing (aka Verify)
- Rollbacks



Benefits of CI/CD

Less developer time on issues from new developer code - Reduce Cost

Less bugs in production and less time in testing - Avoid Cost

Prevent embarrassing or costly security holes - Avoid Cost

Less human error, Faster deployments - Avoid Cost

Less infrastructure costs from unused resources - Reduce Cost

New value-generating features released more quickly - Increase Revenue



THANK YOU FOR LISTENING