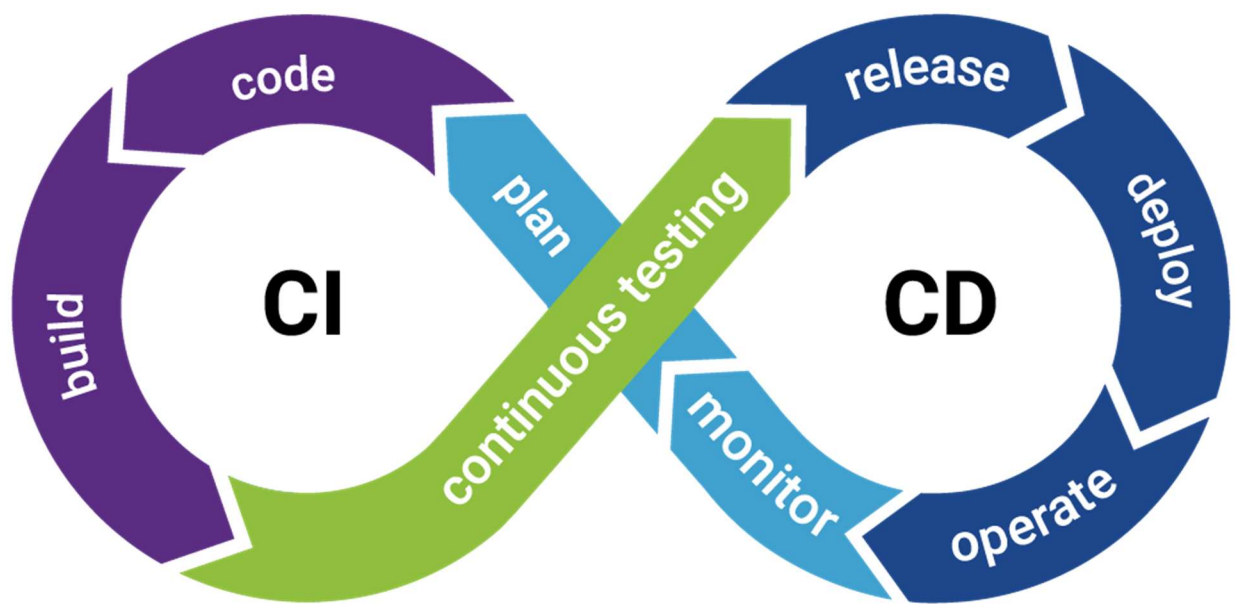


## UdaPeople CI/CD

### What is CI/CD?

CI/CD is a two-step process that dramatically streamlines code development and delivery using the power of automation. CI makes developer tasks more efficient so software can get into production faster. CD automates software testing and deployment. Together, CI/CD is a powerful and unmatched engine of modern software development, and it has untold benefits for businesses.



## Benefits of CI/CD:

Technical Language	Value	Translation
Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
Catch Unit Test Failures	Control Cost	Less bugs in production and less time in testing
Detect Security Vulnerabilities	Control Cost	Prevent embarrassing or costly security holes
Automate Infrastructure Creation	Control Cost	Less human error, Faster deployments
Automate Infrastructure Cleanup	Reduce Cost	Less infrastructure costs from unused resources
Faster and More Frequent Production Deployments	Create Revenue	New value-generating features released more quickly
Deploy to Production Without Manual Checks	Create Revenue	Less time to market
Automated Smoke Tests	Protect Revenue	Reduced downtime from a deploy-related crash or major bug
Automated Rollback Triggered by Job Failure	Protect Revenue	Quick undo to return production to working state