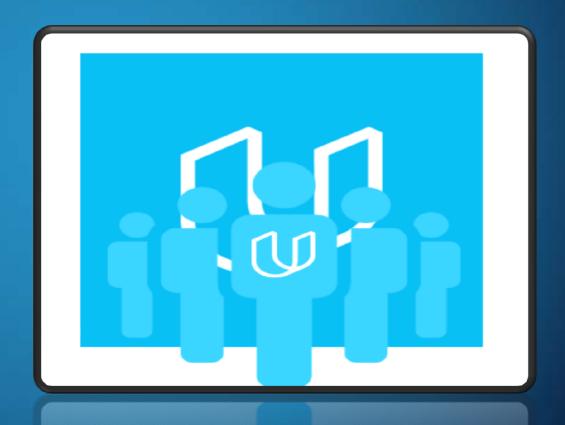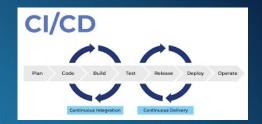# What is CI/CD ??

Continuous Delivery= Continuous Integration + Continuous Deployment

Continuous Integration	Continuous Deployment
The practice of merging all developers working copies to a shared mainline several times a day. Some common CI-related phases might include: •Compile •Unit Test •Static Analysis •Dependency vulnerability testing •Store artifact	A software engineering approach in which the value is delivered frequently through automated deployments. Some common CD-related phases might include: •Creating infrastructure •Provisioning servers •Copying files •Promoting to production •Smoke Testing (aka Verify) •Rollbacks

Benefits of adopting CICD

Technical Team Benefits	Value	Business Benefits
Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
Catch Unit Test Failures	Avoid Cost	Less bugs in production and less time in testing
Detect Security Vulnerabilities	Avoid Cost	Prevent embarrassing or costly security holes
Automate Infrastructure Creation	Avoid Cost	Less human error, Faster Deployments
Automate Infrastructure Creation	Reduce Cost	Less infrastructure costs from unused resources
Faster and More Frequent Production Deployments	Increase Revenue	New value-generating features released more quickly
Deploy to Production Without Manual Checks	Increase 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