

A decorative graphic on the left side of the slide featuring a blue parallelogram and a light green parallelogram, both tilted at an angle, set against a dark blue background with subtle diagonal lines.

Fundamentals and Benefits of CI/CD to Achieve, Build, and Deploy Automation for Cloud-Based Software Products



Key points

Continuous integration

In development, merging the developments of the developers in the main branch

Continuous Delivery

Quick releases in a automated way

Continuous Deployment

Automated testing and deployment without human interaction



CI/CD Solving problems
Feature waiting

Nowadays we make a big deploy every 2 months, customers need to wait and the knowledge curve for them is high

Solution in CI/CD

Automated deployments with quality certifications more frequently due to automatization



CI/CD Solving problems Quality

Nowadays the unit tests must be run manually and the errors don't stop the process automatically

Solution in CI/CD

Automated compiling and passing the unit tests with every commit

Saving cost produced by human errors in code



CI/CD Solving problems Manual deployment errors

Nowadays we make the deployment in late hours and manually with manual rollback if needed

Solution in CI/CD

Smoke testing is automated

Rollback is automated if smoke tests fail

Saving cost produced by downtime and human resources in deployments