

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

CI/CD - Organizations  
save cost and deliver  
fast

# Continuous Integration


- The practice of merging all developers' working copies to a shared mainline several times a day.
- 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

# Continuous Deployment

- A software engineering approach in which the value is delivered frequently through automated deployments.
- Everything related to deploying the artifact autonomously fits here. It's the process of "Moving" the artifact from the shelf to the spotlight without human intervention.
- Some common CD-related phases might include:- Creating and configuring infrastructure - Promoting to production- Smoke Testing (aka Verify)- Rollbacks in case if any failure

# Benefits of CI/CD at the Business Level

- Automate Infrastructure Creation - Less human error, Faster deployments - Avoid Cost
- Catch Unit Test Failures - Less bugs in production and less time in testing - Avoid Cost
- Automated Smoke Tests - Reduced downtime from a deploy-related crash - Protect Revenue
- Detect Security Vulnerabilities - Prevent embarrassing or costly security holes - Avoid Cost

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- Faster and More Frequent Production Deployments - New value-generating features released more quickly - Increase Revenue
  - Automated Rollback Triggered by Job Failure - Quick undo to return production to working state – Protect Revenue