CONTINUOUS INTEGRATION & CONTINUOUS DEPLOYMENT
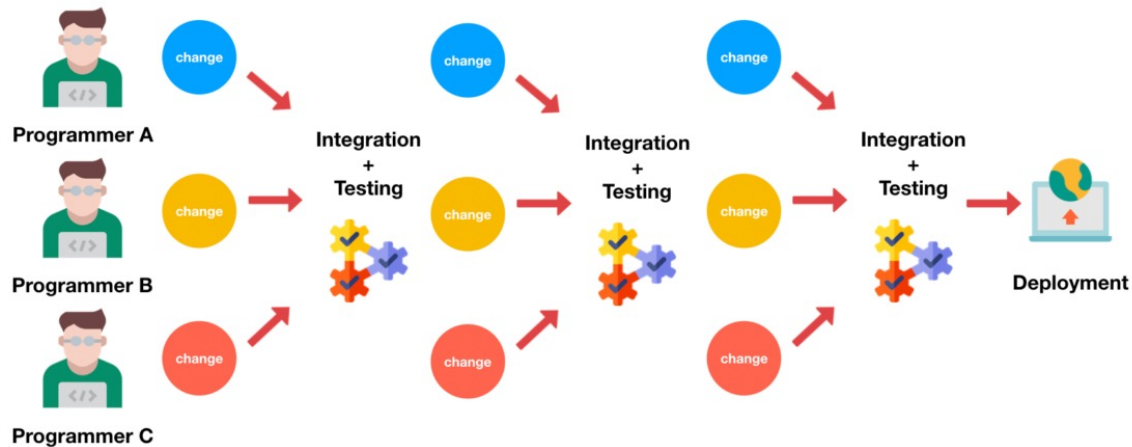
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INTRODUCTION TO CI/CD

- *CONTINUOUS INTEGRATION*
  - A development practice that integrates code changes from multiple developers into a single project several times a day.
  - Code is verified via a series of automated builds and tests within a development environment.

- *CONTINUOUS DEPLOYMENT*
  - The process of automating the deployment of code changes that have passed all tests into a production environment.
  - Changes are then visible to end-users.

BENEFITS OF CI/CD

- Increased Revenue by:

  - Application value-generating features are deployed faster.

- Protects Revenue by:

  - Reduces downtime from deployment issues or bugs.

  - Quick rollback to return service to a working state.

- Avoids Costs by:

  - Less bugs, less human errors, and prevents security vulnerabilities.

COSTS: DOWN
REVENUES: UP

CI/CD IS IMPORTANT

- CI/CD enhances the productivity of development and operations teams.

- It allows teams to shift the focus to grow and implement new ideas quicker.