



# CI/CD

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FASTER AND BETTER WAY TO DEVELOP  
AND SHIP SOFTWARE TO PRODUCTION

# CONTINUOUS INTEGRATION

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CI is a practice of merging all developers' working copies to a central repository several times a day.

Activities in this phase involve code.

Phases of CI:

- ☐ Build
- ☐ Unit Test
- ☐ Scan for Vulnerability
- ☐ Store artifact

# CONTINUOUS DELIVERY

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CD is a software engineering approach in which features(value) are delivered frequently through automated deployments.

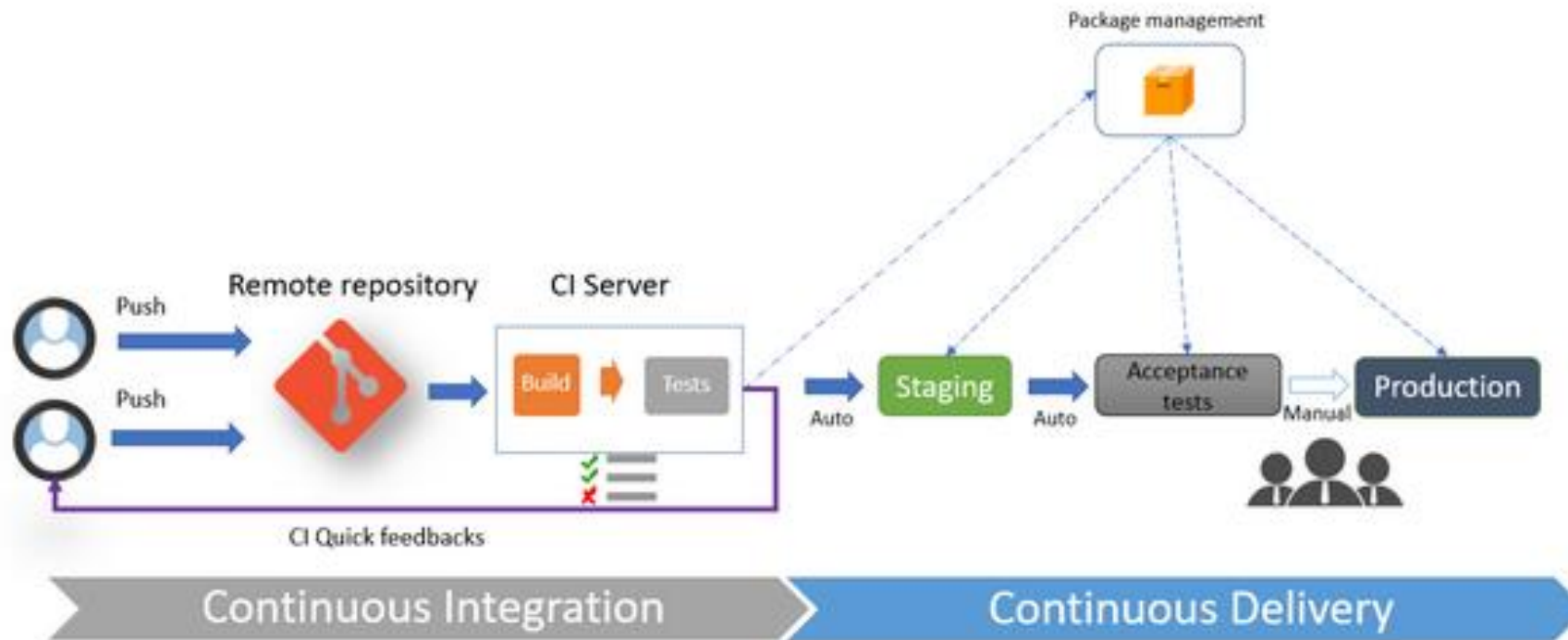
Tasks in CD involve deploying artifact/code for use by the end users or Testers; everything being done without human interactions.

Phases in CD:

- ❖ Provisioning & Configuring infrastructure.
- ❖ Promoting to production.
- ❖ Smoke Testing.
- ❖ Rollbacks in case if any failure

# CI/CD WORKFLOW

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# Benefits of CI/CD

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- Catch compile errors after merge, saving developer time on issues from new features
- Catch unit test failures hence less bugs in production
- Automated infrastructure creation and cleanup
- Faster and more frequent production deployment
- Automated Smoke Tests
- Automated rollbacks

*The End*

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