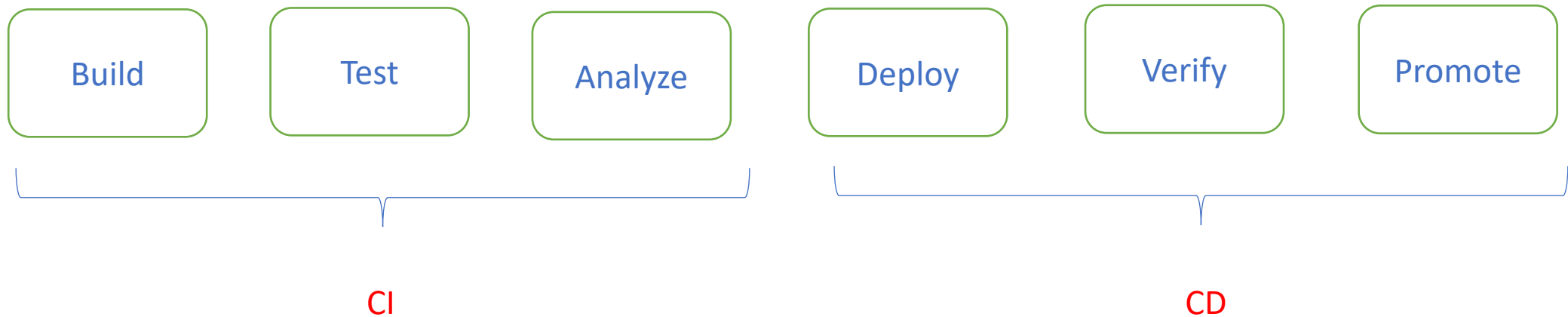


Content

1. Fundamentals of CI/CD
2. Benefits of CI/CD

Fundamentals of CI/CD

- Continuous Integration (CI) is the practice of merging all developers' working copies to a shared mainline several times a day.
- Continuous Deployment (CD) deploys all code changes to the testing environment in the build automatically.



Benefits of CI/CD

- ✓ **Less time spent on fixed issues from new development code**

Because CI is able catch compile errors after merged.

✗ wasting time to fix conflict source code when merge

- ✓ **Less infrastructure costs from unused resources**

Because CI/CD is able automate infrastructure clean up.



Reduce cost

- ✓ **Reduce deploy errors**

Because CI/CD can perform automated smoke tests.

- ✓ **Quickly return production when there are cases go wrong**

Because CI/CD is able to automate rollbacks when have job failures



Protect revenue

Benefits of CI/CD (cont.)

- ✓ **Less bugs in production and less time in testing**

CI can catch unit test failures

- ✓ **Prevent embarrassing or costly security holes**

CI can detect security vulnerabilities

- ✓ **Reduce human error, protect release on schedule**

Because with CI/CD, everything is automated.

- ✗ manual configure/deploy

- ✗ overnight to release

- ✗ overtime to keep release on schedule



Avoid cost

- ✓ **Faster release rate**

Because with CI/CD, everything is automated.

- ✗ manual checks

- ✓ **Investing more time in a release cycle than delivering value**



Increase revenue