CI/CD:
Is that still a question?

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What we need to be efficient:

- A quick feedback loop between engineers and customers to being able to make improvements in our product as soon as requested.
- Lowering the cost of product delivering
- Quick roll back any errors when we've them introduced
- To have a lot more confidence in delivering changes
- To make changes **continuously** to achieve a higher quality product

“CI” - Continuous Integration

- The practice of merging all developers' working copies to a shared mainline several times a day
- All phases of the development organized in a pipeline, like

Compile >> Unit Test>> Static Analysis >> Dependency vulnerability testing >> Store artifact

“CD” - Continuous Delivery/ Deployment

- **Continuous Delivery**- An engineering practice in which teams produce and release value in short cycles.
- **Continuous Deployment** - software engineering approach in which the value is delivered frequently through automated deployments.

CI/CD Benefits:

CI/CD is a great investment because it:

Reduce or Avoid Cost	• Less developer time on issues from new developer code • Less bugs in production and less time in testing • Prevent embarrassing or costly security holes • Less human error, Faster deployments • Less infrastructure costs from unused resources
Increase Revenue	• New value-generating features released more quickly • Less time to market
Protect Revenue	• Reduced downtime from a deploy-related crash or major bug • Quick undo to return production to working state