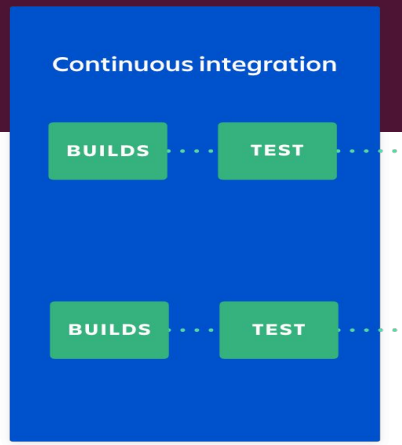
Power OF CI/CD

Way to use CI/CD to build/deliver to market in fastest way, and the way to scale product.

Benefits CI



Continuous integration puts a great emphasis on testing automation to check that the application is not broken.

Which means:

- less bugs in production and less time in testing, this will decrease cost and increase revenue
- Error Isolation : CI will make error isolation from different teams will thus will increase delivery value.
- More reliability test.

Benefits CD

Continuous deployment :There's no human intervention, and only a failed test will prevent a new change to be deployed to production.

Which means:

Continuous delivery

Continuous deployment

- You have an automated release process and you can deploy your application any time by clicking a button.
- Automated Smoke Tests: Reduced downtime from a deploy-related crash or major bug.
- Releases are less risky and easier to fix in case of problem as you deploy small batches of changes.

Benefits Implementation of CI/CD

What you gain

- **Less bugs get shipped to production as regressions are captured early by the automated tests.**
- Less context switching as developers are alerted as soon as they break the build and can work on fixing it before they move to another task.
- **The complexity of deploying software has been taken away. Your team doesn't have to spend days preparing for a release anymore.**
- can release more often, thus accelerating the feedback loop with your customers
- **There is much less pressure on decisions for small changes, hence encouraging iterating faster.**
- Releases are less risky and easier to fix in case of problem as you deploy small batches of changes.

Benefits Implementation of CI/CD

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