

Benefit of CI/CD

What is CI/CD

- **CI – Continuous Integration**

CI is the practice of merging all developers's working copies to a shared mainline several times a day

- **CD – Continuous Deployment**

A software engineering approach in which the value is delivered frequently through automated deployments

Why CI/CD is important ?

Accelerated time to value	When you can deploy anytime, you can bring products and new features to market faster. Your development costs are lower, and a faster turnaround frees your team for other work	<i>Increase Revenue</i>
Hit dates more reliably	Removing deployment bottlenecks and making deployments predictable can remove a lot of the uncertainty around hitting key dates. Breaking work into smaller, manageable bites means it's easier to complete each stage on time and track progress	<i>Increase Revenue</i>
Less fire fighting	Testing code more often, in smaller batches, and earlier in the development cycle can seriously cut down on fire drills. This results in a smoother development cycle and less team stress	<i>Protect Revenue</i>

Why CI/CD is important ?

Reduce burnout	Research shows that continuous delivery measurably reduces deployment pain and team burnout. Developers experience less frustration and strain when working with CI/CD processes	<i>Avoid cost</i>
Less context switching	Getting real-time feedback on the code developers commit makes it easier to work on one thing at a time and minimize cognitive load. By working with small sections of code that are automatically tested, developers can debug code quickly while their minds are still fresh from programming	<i>Protect Revenue</i>
Recover faster	CI/CD makes it easier to fix issues and recover from incidents. Continuous deployment practices mean frequent small software updates so when bugs appear.	<i>Protect Revenue</i>

Conclusion

- The benefits of an automated CI/CD pipeline range from practical considerations like code quality and rapid bug fixes, to ensuring you're building the right thing for your users and improving your entire software development process.