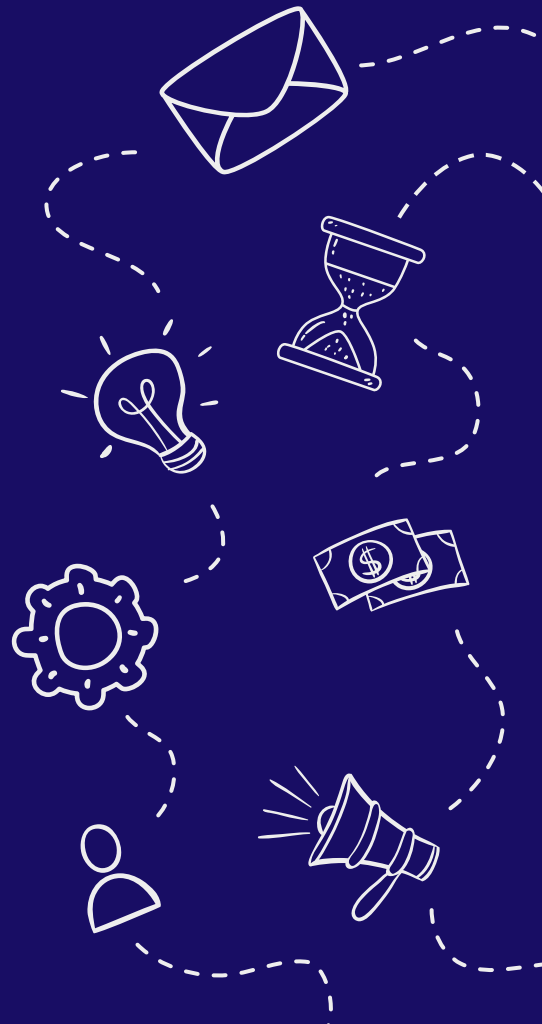


BENEFITS of CI/CD

UdaPeople



WHAT IS CI/CD ?



Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day.

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.

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**.

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.

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.

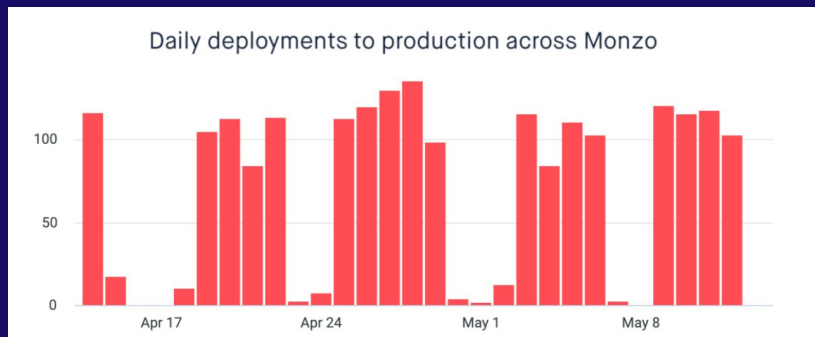
Less context switching

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.

Recover faster

CI/CD makes it easier to **fix issues** and **recover from incidents (MTTR)**. Continuous deployment practices mean frequent small software updates so when bugs appear, it's easier to pin them down.

Monzo : 100 deploys a day



At Monzo, we tackle this problem in the other direction: optimise the developer workflow for rapid delivery, and this leads to a reduction in risk too.

Our data backs this up.

In the past year we have scaled up the number of people in our engineering discipline from 148 to 232. A 60% increase. As expected, the total number of deployments has gone up, but we are more satisfied to see an increase in the average number of deployments per engineer.

<https://monzo.com/blog/2022/05/16/how-we-deploy-to-production-over-100-times-a-day>

