CI/CD

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What is CI/CD

- CI Continuous Integration
 - The process of integrating multiple working copies to a central repository several times a day
- CD Continuous Deployment
 - The process of releasing a change through the software development lifecycle through automation for each commit in a repository that results in a build.

Benefits of CI/CD

- Smaller code changes MVP (minimal viable product)
 - You change only a small amount of code that is simpler and easier to handle than larger changes
- Faster release time
 - The smaller changes require less time to validate which means testing time is reduced and therefore can be deployed from development to production a lot quicker
- Customer Satisfaction
 - The reduced release time means a faster turnaround for issues/bugs/new features/improvements

Benefits for the business?

Reduced cost

 Automation reduces the number of errors that can take place if done manually. This frees up developer's time, tester's time and reduces the cost of each development cycle

Reduced downtime

 Depending on the type of service you run, you can have ZERO downtime releases, which means that your customers won't be impacted by any change

Fault isolation

 By releasing in smaller chunks, you are able to see which change introduced an error/bug which reduces time to find out root cause