

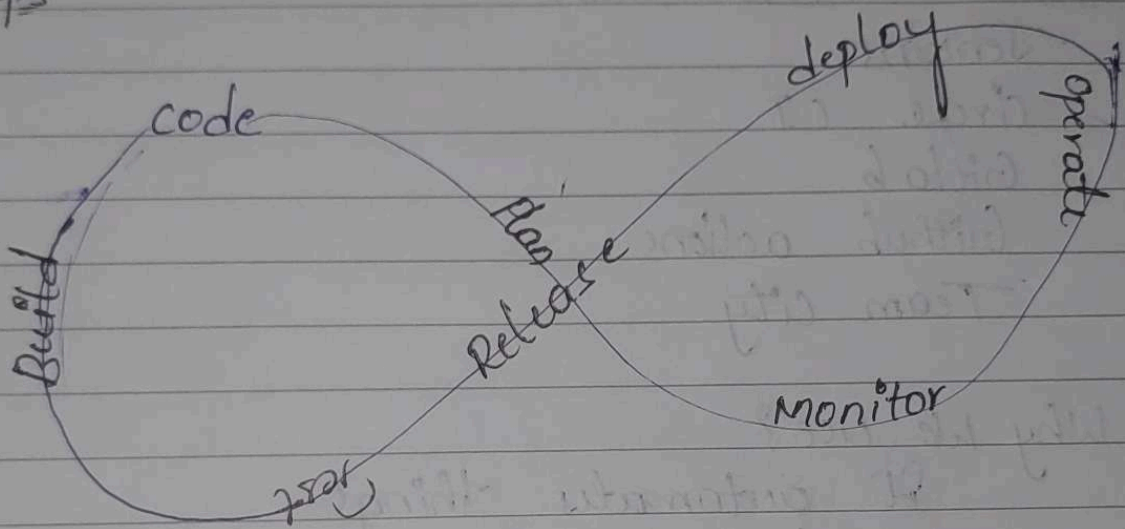
CI / CD

Continuous Integration  
Continuous Development

Means?

In Devops which is short for development and IT operations it refers to software development life cycle

Steps



Continuous Deployment (CD) :-

Frequency

Everything is possible within minutes

Workflow

- \* Developers integrate code into a shared repository several times a day
- \* Code is verified by an automated build which allows teams to detect any problems earlier.

- \* Overseeing changes to code making design decisions and bugs should be managed

\* When the code is written and pushed to a repository like github  
Code is analysed and given series of automated tests  
eg:- (1) unit Testing  
(2) Validation Testing  
(3) format Testing

source code  
↓  
Build  
↓  
The Release

### CI/CD Environments:-

Jenkins

Circle CI

Gitlab

GitHub actions

Team City

Why we use?

It automates things

It finds small problems before it sneaks into the main code base

Prevent Technical debt

### Benefits:-

shorter cycle time

Happier Employees

Gets to market faster



# CI/CD

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Continuous feedback monitoring at all stages  
Never Ending and continuous Process

