



# CI/CD Proposal

In the traditional deployment or integration system (humans do everything), we have several disadvantages compare to fully automation CICD system here:



More cost

1. Engineers have to put a lot of effort to bring the source code to life (can be used by end user). During the time we manually deploy the code, we still have a chance to cause the human error and that's the point we lose our money.



Profit lost

2. Our server goes down without any notice means the user cannot use our service anymore, the longer it failed the more money we lost.



Profit lost

3. Without CICD we will have a longer release period, and that means we bring less value and slower to our customers, and eventually, we lose money.



# CI Power



CI stands for continuous integration, the pipeline that controls how the code will be merged in our main source code

## How it increase our profit



### Cost reducing

Code will be check styles carefully with our fully automated system, so we can save a lot money and effort using for maintaining our code base



### More profit

Unit testing for our code will run automatically to help us prevent potential bugs, and you know, decreasing bug means increasing our profit.



### Prevent lost

Auditing our code automatically, helps us find out the vulnerable package and update it as soon as possible. Security is very important, if our software has vulnerabilities for hackers to easily attack, we will lose lots of money.



# CD Power



CD stands for continuous deployment, the pipeline that bring our code to life, turn it into a product that our client can use it.

## How it increase our profit

### \$ Cost reducing

Being consistent with the deployment process helps us prevent human errors which can make our server goes down at any time. Server down means losing profit, so the well-designed CD system can save us from all of those terrible things.

### \$ More profit

CD can help us deploy everything in the fastest way, especially if you deploy with some complicated deployment strategies. The faster our product deliver to our customers, the more profit we receive.

### \$ Cost reducing

With this CD system we blur the line between developer and operator, helping us to work smoother and more efficiently, and that means saving a lot of money and costs.



# Tools and process

## Technology stack



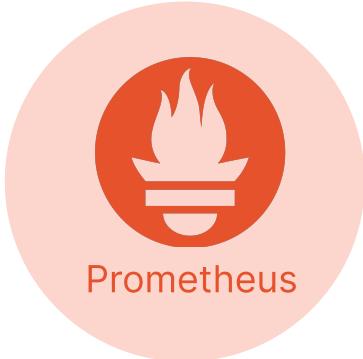
For building CICD pipeline



For configuration



For Infrastructure



For monitoring