DevOps Demo

Madhan

What is the Meaning of DevOps?

What is the Meaning of DevOps?

Development + Operations

Developer + Operations

Continous Process

General Question

???

What is ECommerce Application?

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allows users to shop online, browse product catalogs, create wish lists, add items to a cart, and complete purchases.

Examples:

Example:

Purchase

Mobile : 20K

Delivery : 5 Days

Delivery : 2 Days

Which one you PREFER?

“DEVOPS IS ALSO THE SAME!”

FASTER TO THE MARKET

Which one you PREFER?

Delivery : 2 Days

The Delivery is FASTER

SAME EXAMPLE IN REAL WORLD!

COMPANIES ALSO
LOOKING
FASTER TO THE MARKET

INVEST → THOUSANDS OR CRORES

PRODUCT → FASTER TO THE MARKET

MAIN INTENTION TO DEVOPS

Deliver the Application to the market very Speedly or Faster

Lets say

Deliver

Market

Speedly

Slowly

Lets say

Deliver

Market

Speedly

Slowly

Speedly = Agility

To Make the process of delivering the application speedly
we are using DevOps!

Why Devops?

Why Devops?

-> To Deliver the Application into market very speedly.

-> To Deliver the Software into market very speedly.

In Simple Defnition:

Deliver Application very Speedly.

Lets Understand in Some Examples

Food Order Booking

Book Tickets Buses

Book Taxi Rides

Book Movie Tickets

SDLC

What is SDLC?

Software Development Life Cycle

If I want to build any Software / Application

SDLC

Traditional IT

In Software Domain, We have 2 teams for Developing the Application

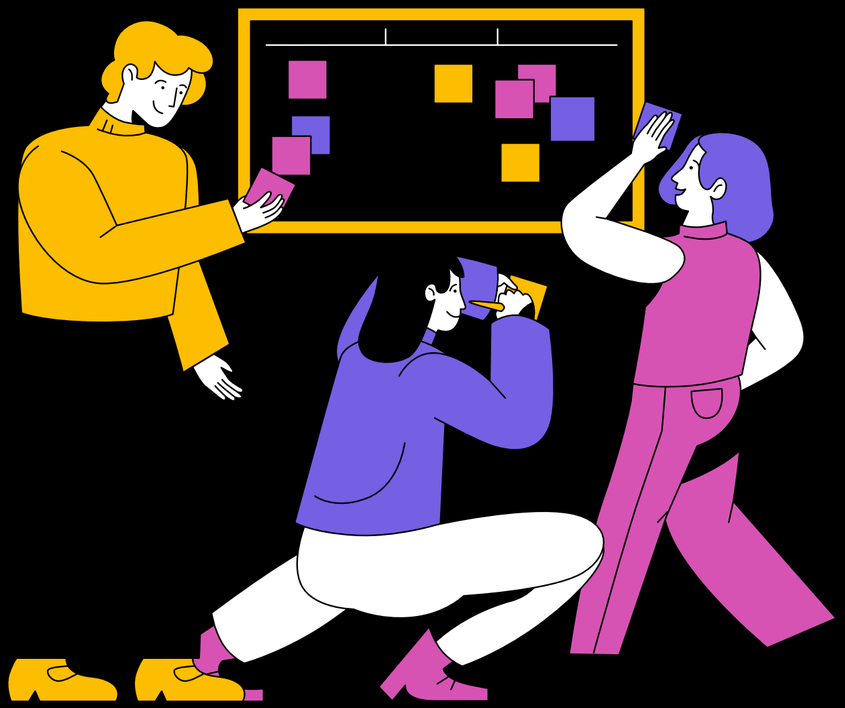
DEVELOPMENT

Planning
Coding
Building
Testing

OPERATIONS

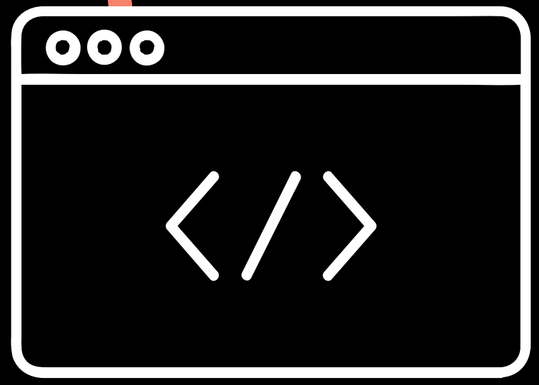
Deploy
Operation
Monitoring

Plan



Code

Build

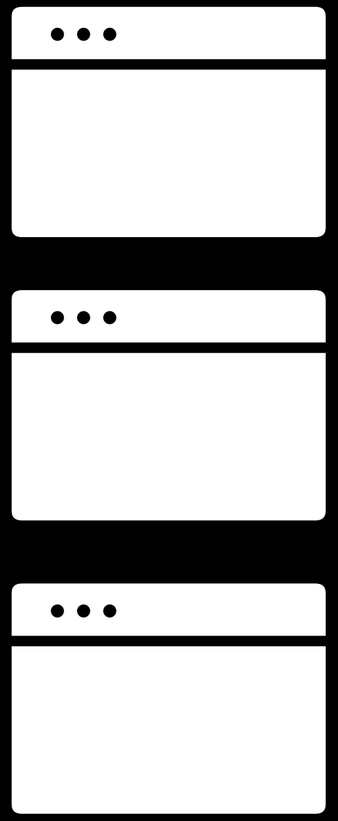


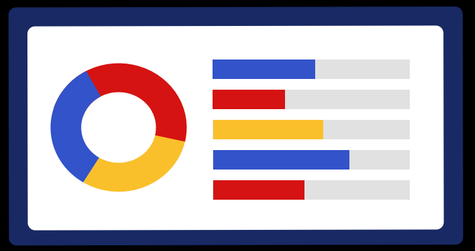
Test

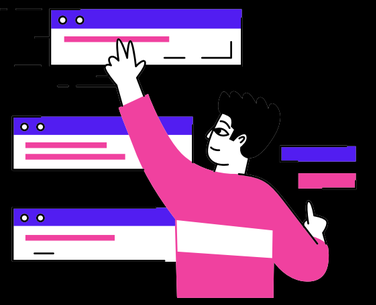
Deploy

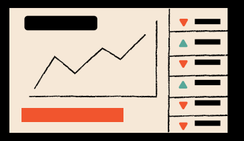
Operate

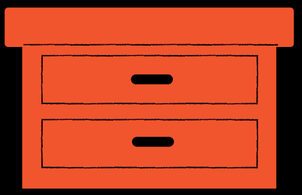
Monitor





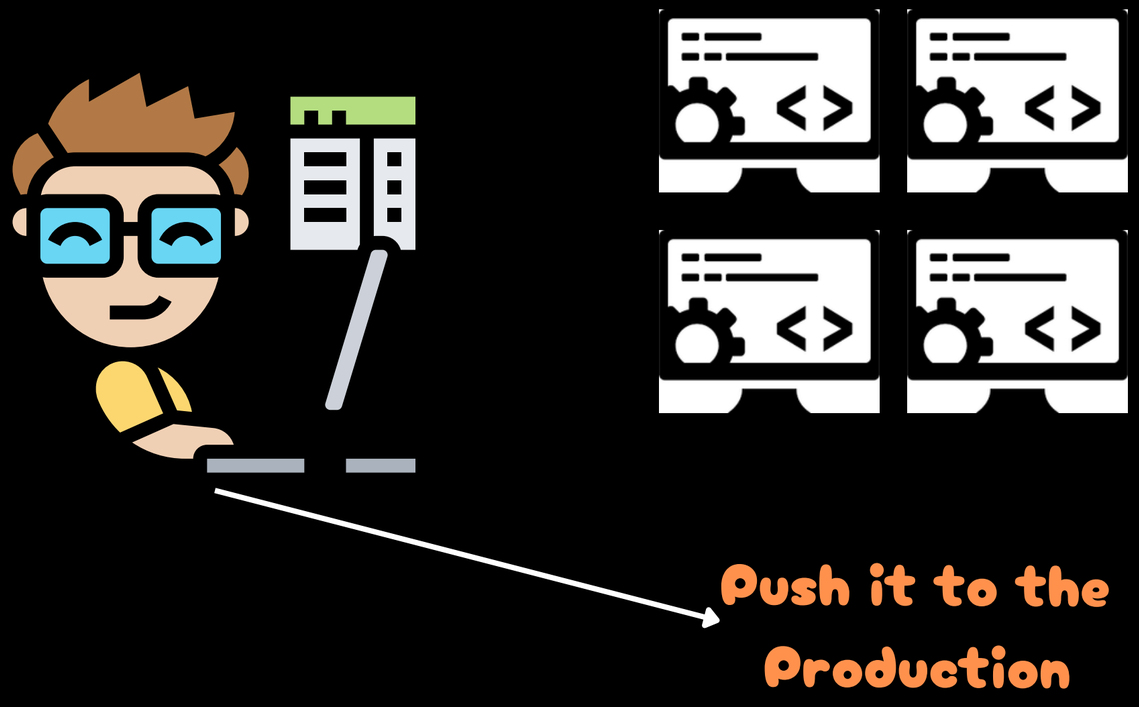






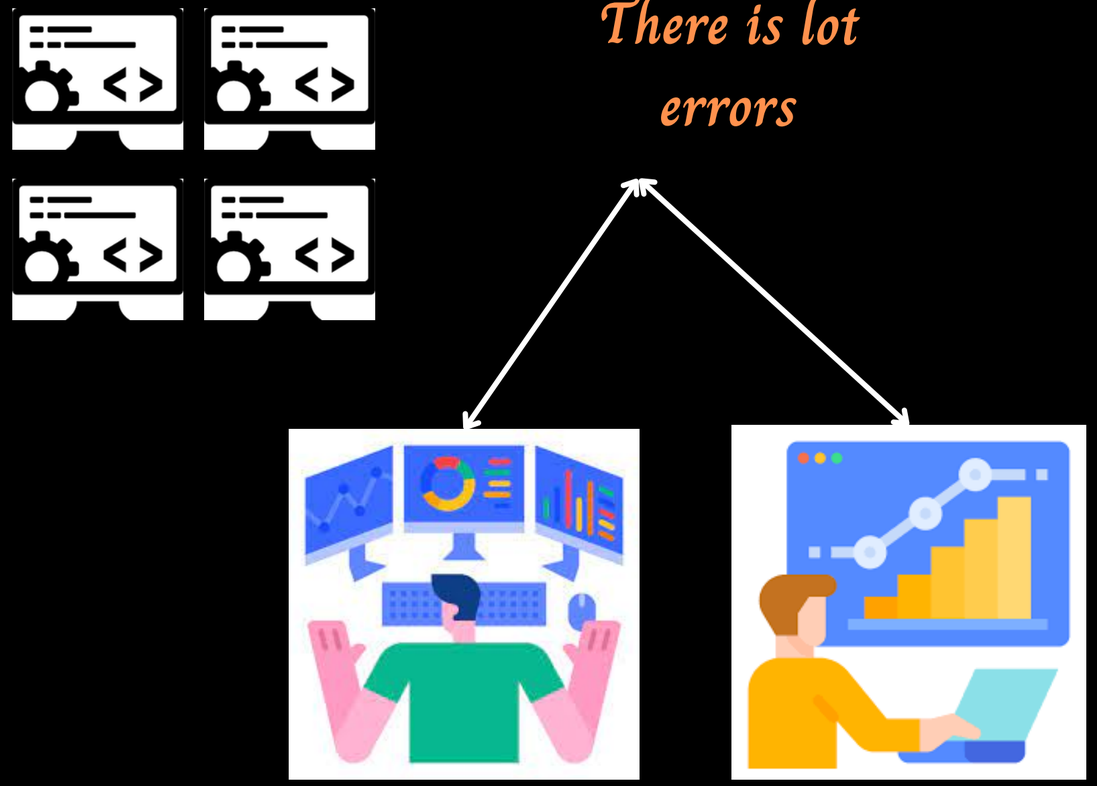
Development

The Dev Team Writes the Code for the Entire Application and Tosses it to Operational Team for Production



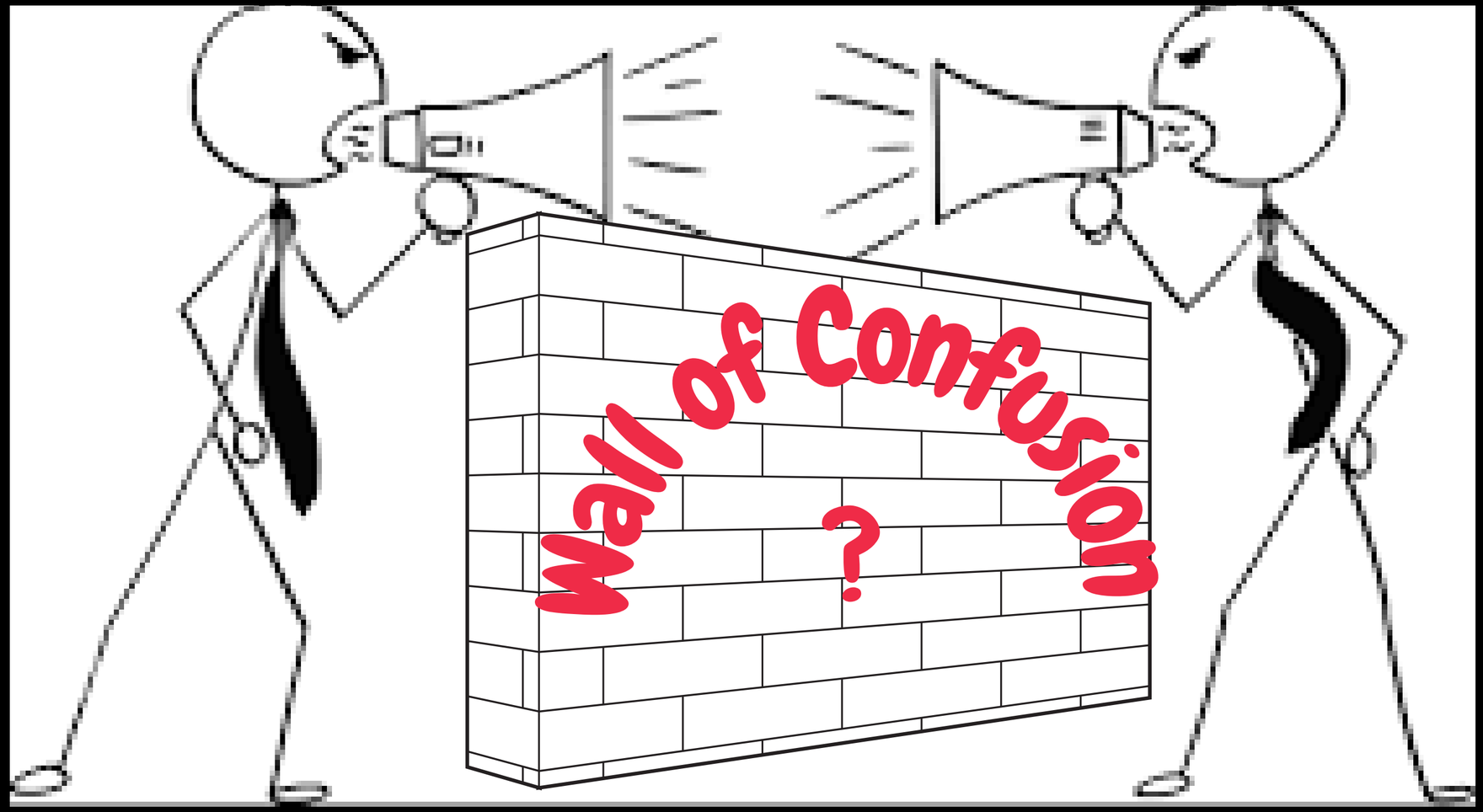
Operations

The Ops Team Deploys, Monitor Operate and Maintain the Application



Dev Team

Ops Team



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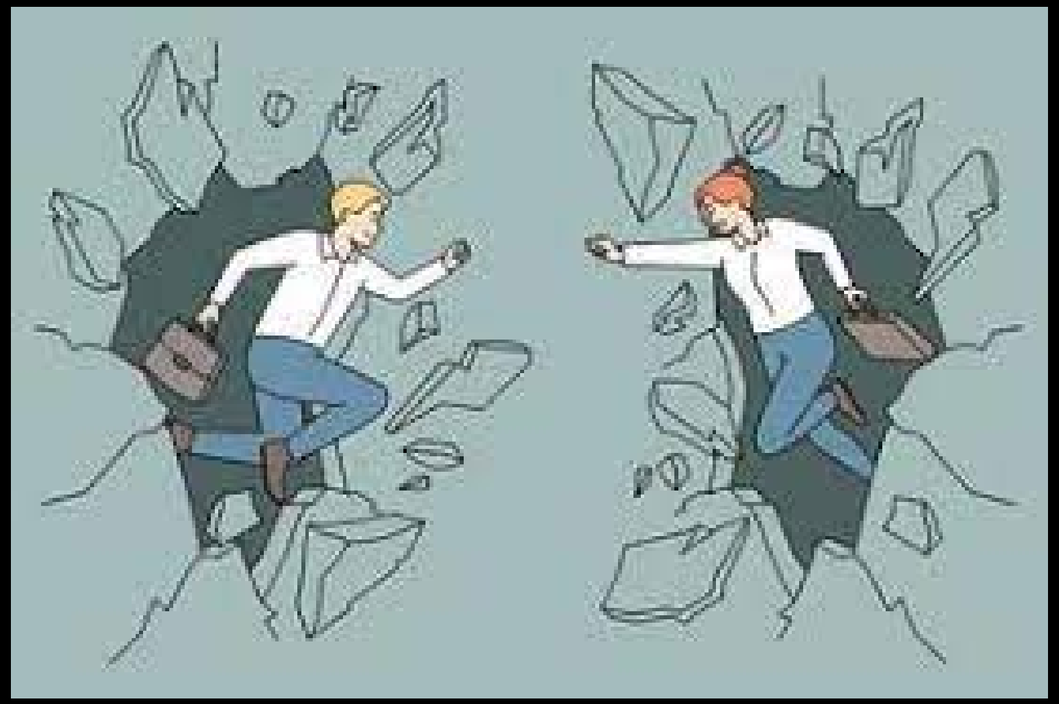
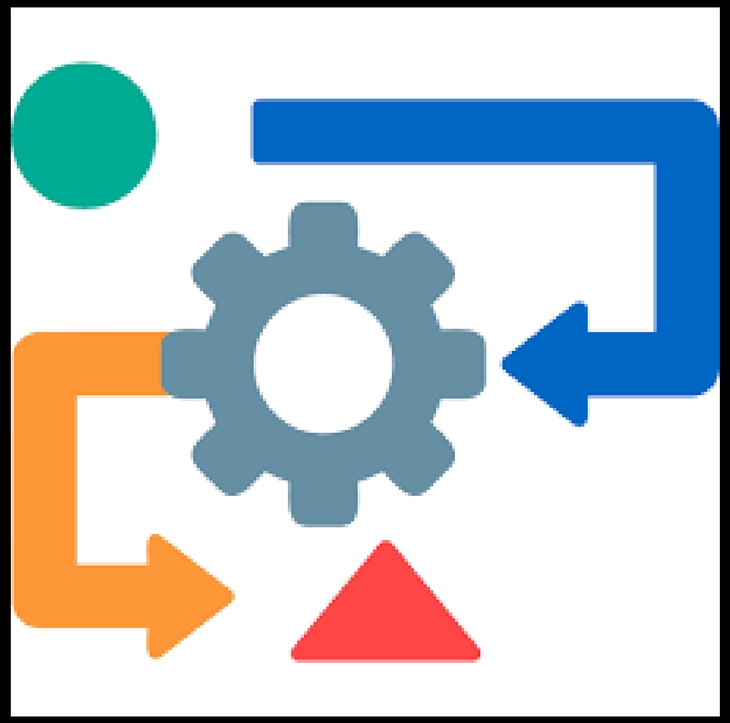
Whaf if we Break the wall

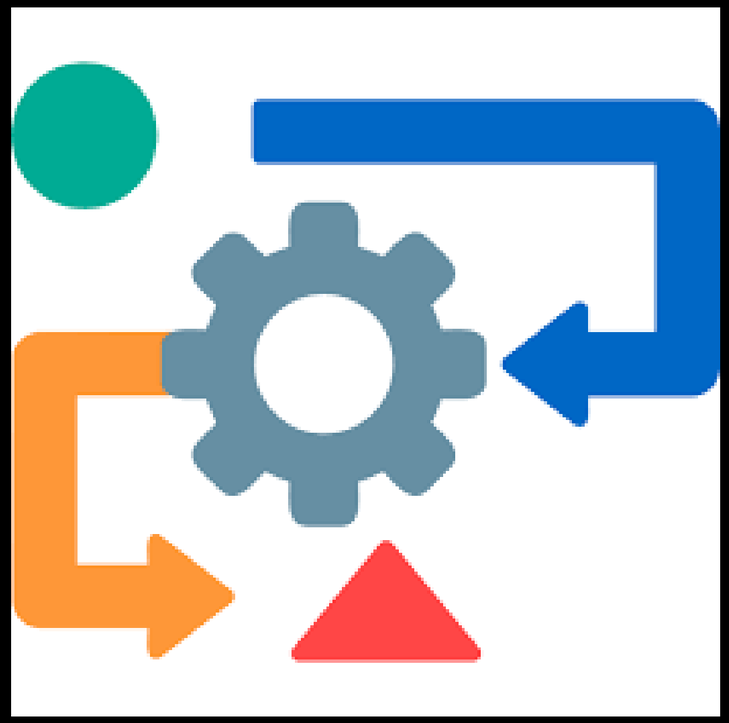


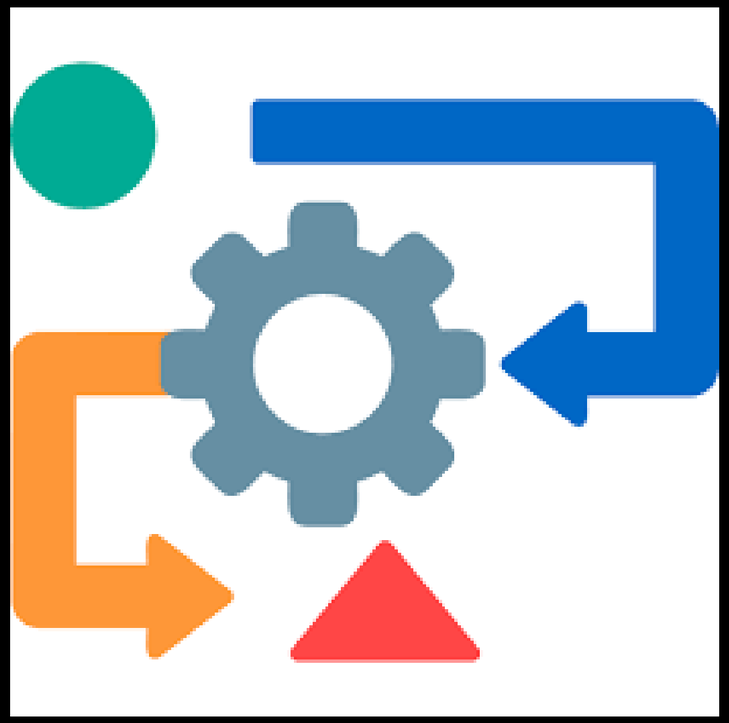
This is DevOps =====> Dev + Ops

DevOps is Not a Tool, Technology, or Framework

Methodology

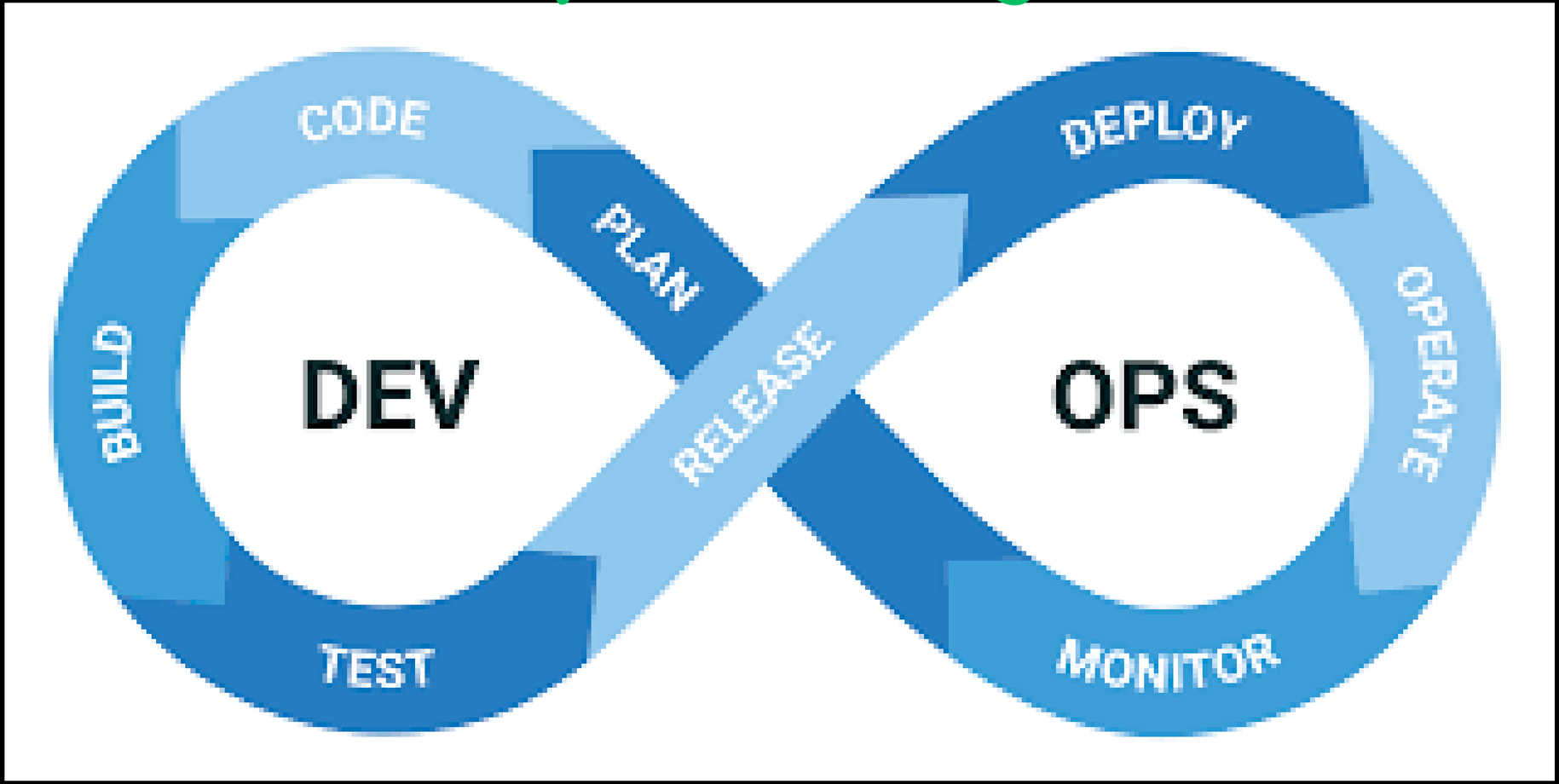






The Methodlogy which is used to create the Application and Release the Applications very speedly/Faster.

Devops Life Cycle

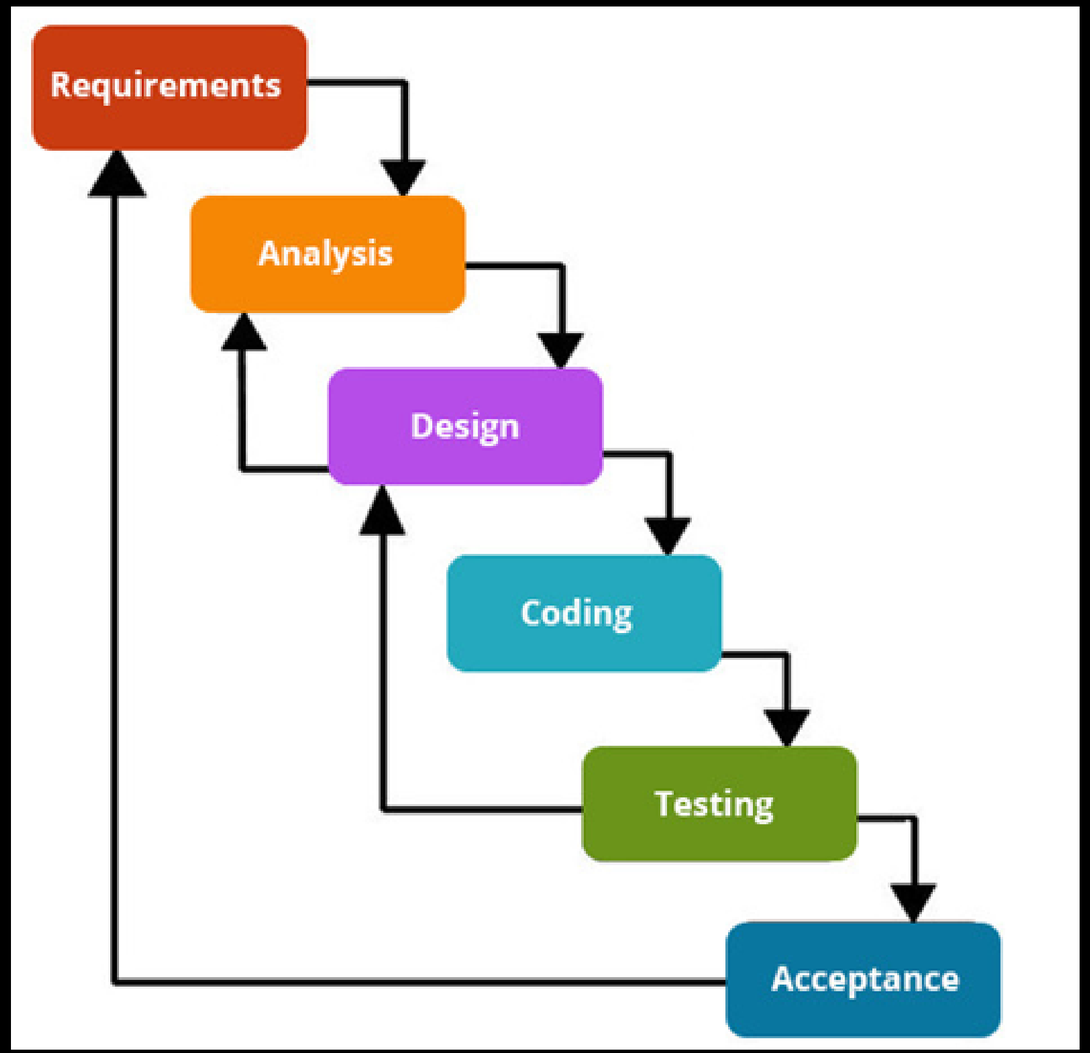


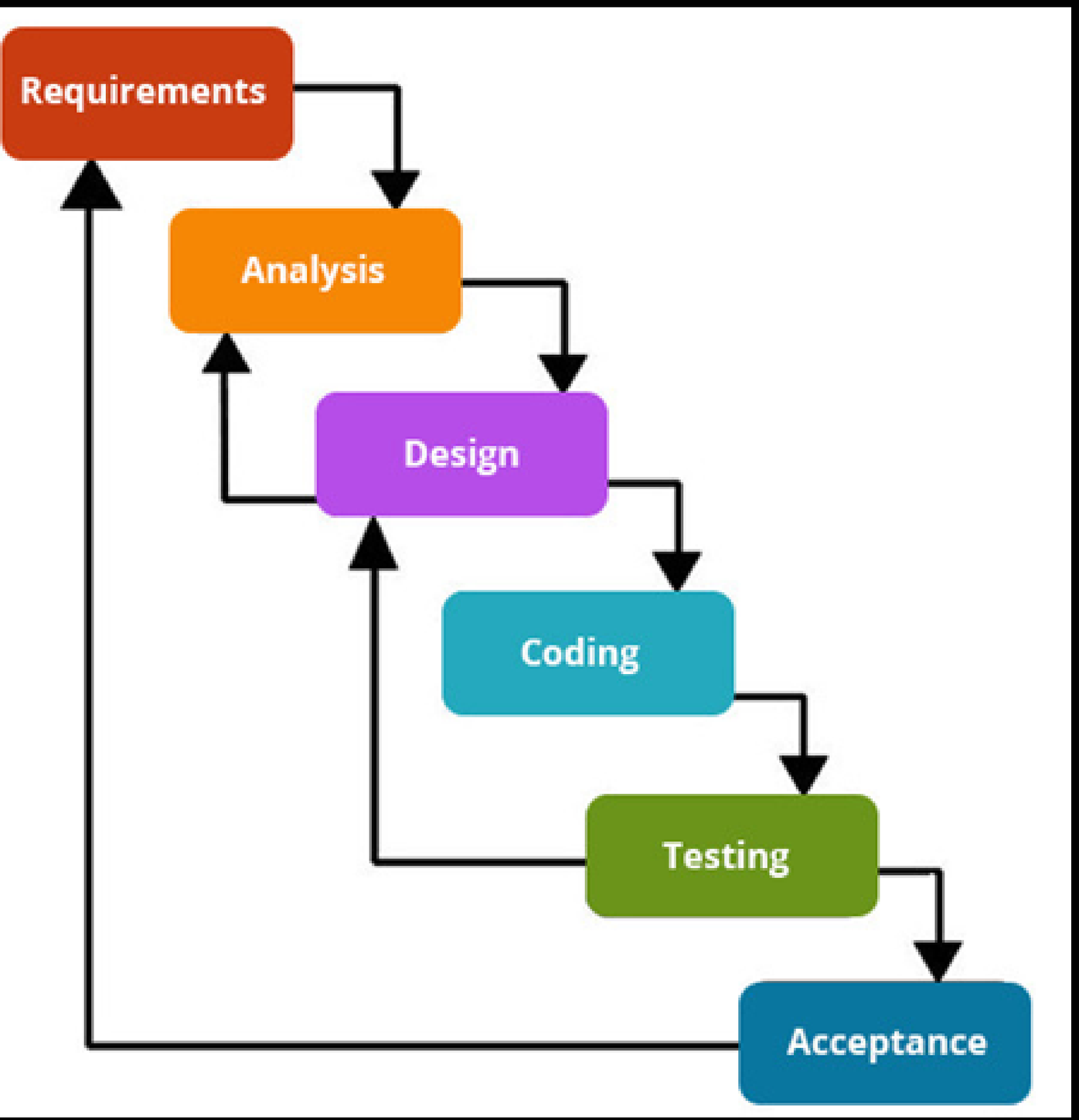
The Logo of DevOps represents infinite because its never ending continuous process.

Before DevOps?

Waterfall Methdology

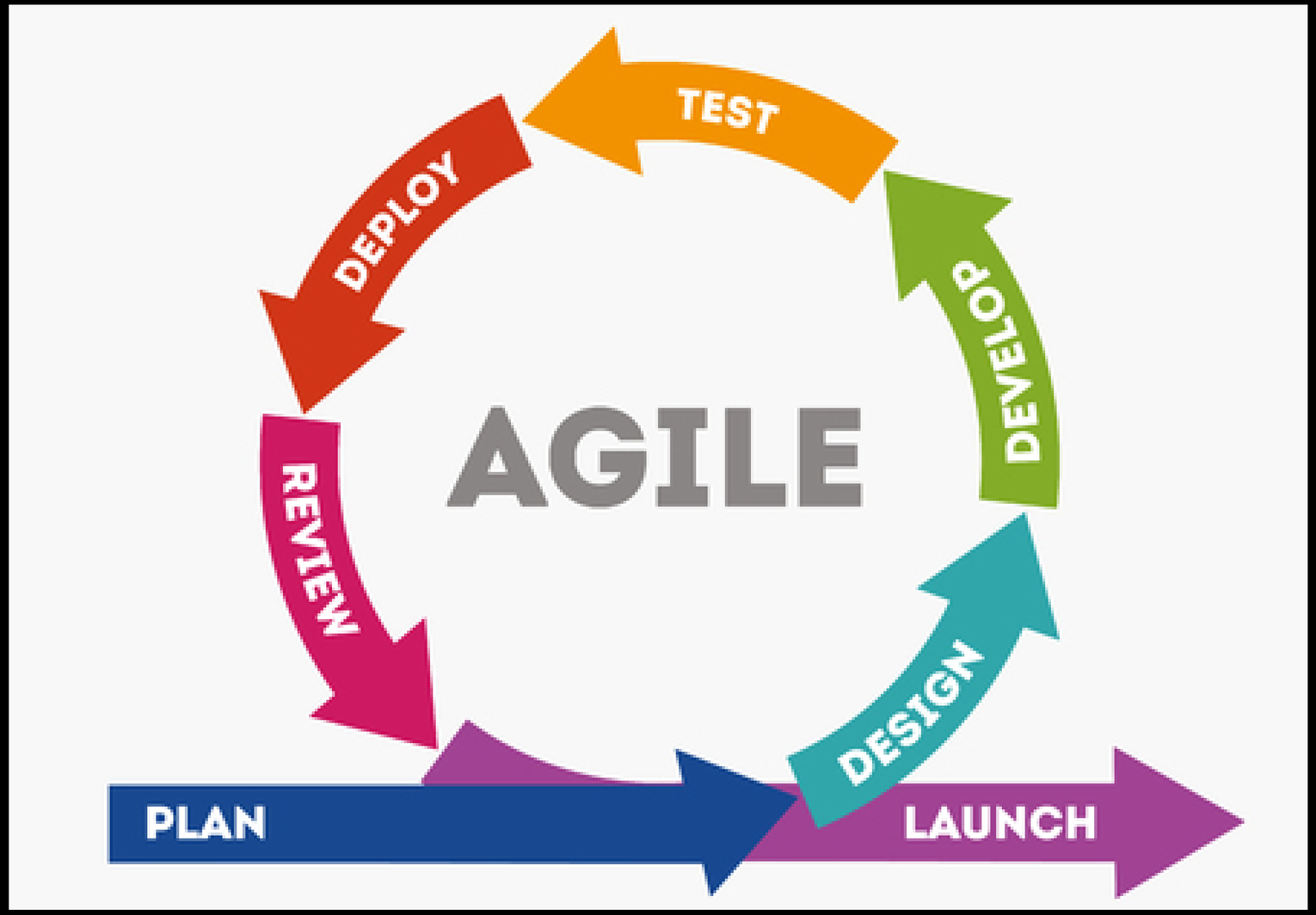
- The Waterfall methodology is also known as the Waterfall Model or Classic Model.
- It is a Sequential development process to develop the software systematically.
- It will follow step by step execution.
- We can work on one step at a time.

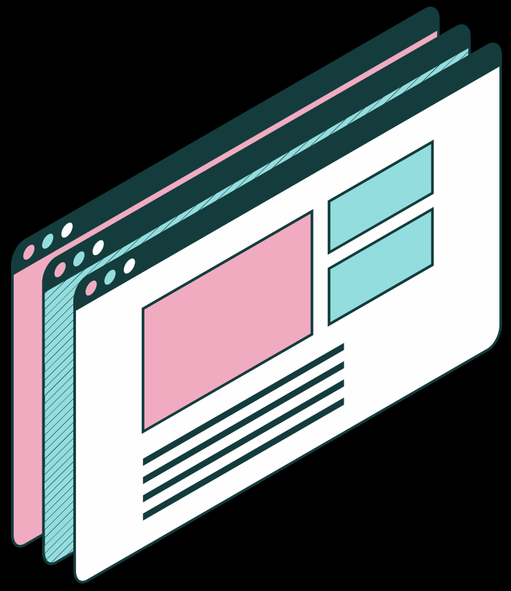




1) Requirement Docs
2) Software Arch
3) Construct Software
4) Install, Test & Deploy
5) Check errors, Optimize

Agile Methodology



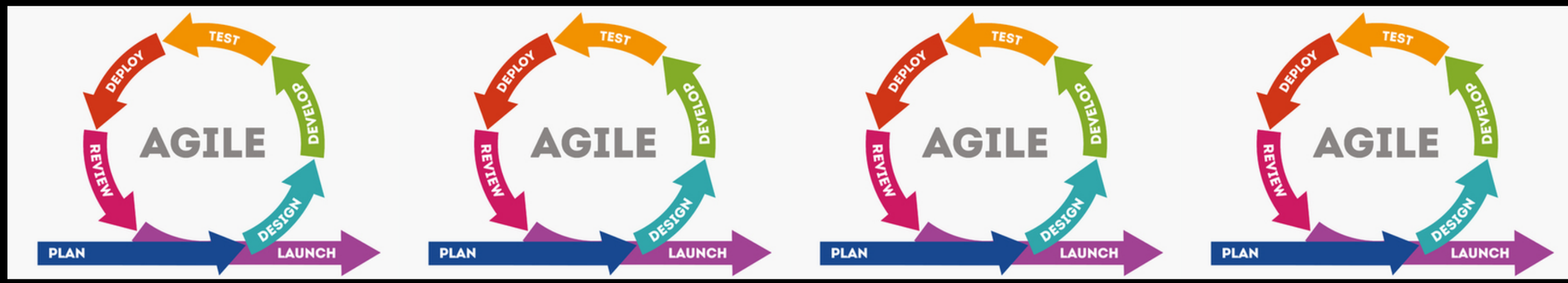


AR/VR Application

- Design: 2 Months
- Develop: 8 Months
- Testing: 2 Months

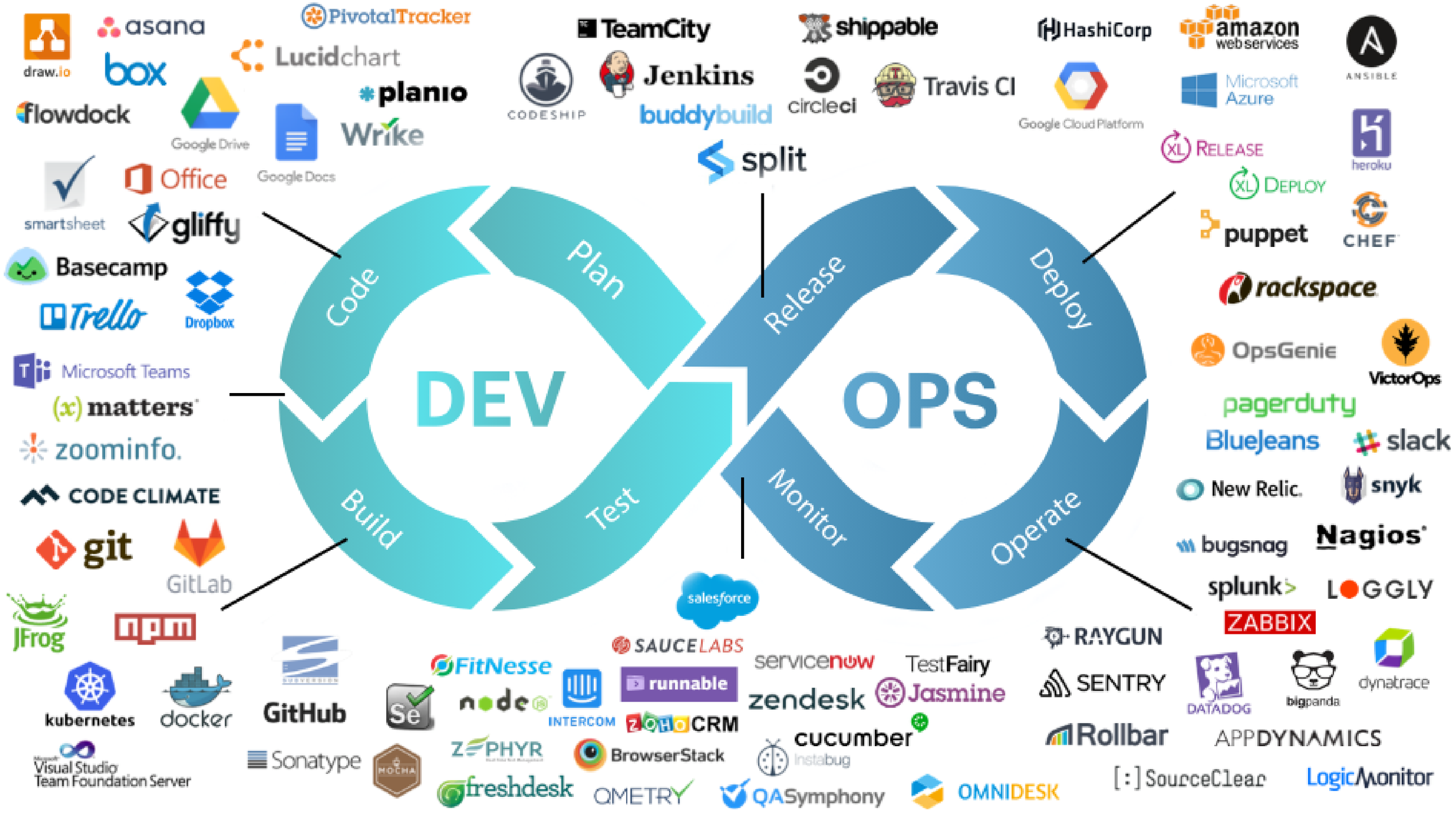
Agile Methodology

- The Agile Methodology is a way to manage a project by breaking it up into several phases.
- It delivers small pieces of working software quickly to improve customer satisfaction.
- Here both development and testing activities are done at the same time.
- Timeline of project is fixed.



DevOps History

- DevOps was Originated in the year 2008.
- Originally it was discussion between 2 people called Andrew Clay and Patrick Debios.
- In 2009 they held a summit at Belgium there they have discussed what if DevOps comes to
- the Market.
- In 2014, the annual state of DevOps report was published.
- If DevOps had a birth certificate, the fathers name would be named in as Patrick Debios.


DEV
OPS
Code
Plan
Build
Test
Release
Deploy
Monitor
Operate
draw.io
asana
box
flowdock
Google Drive
PivotalTracker
Lucidchart
planio
Google Docs
Wrike
smartsheet
Office
gliffy
Basecamp
Trello
Dropbox
Microsoft Teams
(x) matters
zoominfo.
CODE CLIMATE
git
GitLab
JFrog
npm
kubernetes
docker
Visual Studio Team Foundation Server
GitHub
Sonatype
TeamCity
CODESHIP
Jenkins
buddybuild
shippable
circleci
Travis CI
split
salesforce
SAUCELABS
FitNesse
node
runnable
INTERCOM
zohoCRM
ZEPHYR
BrowserStack
freshdesk
QMETRY
servicenow
zendesk
TestFairy
Jasmine
cucumber
Instabug
QASymphony
OMNIDESK
HashiCorp
Google Cloud Platform
amazon web services
Microsoft Azure
ANSIBLE
RELEASE
heroku
DEPLOY
puppet
CHEF
rackspace
OpsGenie
VictorOps
pagerduty
BlueJeans
slack
New Relic.
snyk
bugsnag
Nagios
splunk>
LOGGLY
ZABBIX
RAYGUN
SENTRY
DATADOG
bigpanda
dynatrace
Rollbar
APPDYNAMICS
[:]SourceClear
LogicMonitor

DevOps Engineer

Roles and Responsibilties

- Cloud/Server/Network Architectures
- Configuring & Maintaining Infrastructure
- CI/CD Pipelines
- Automating Daily Tasks
- Continous Monitoring
- Migrating from Monolithic to Microservices.

Course Content

DevOps Tools

Git
Maven
Jenkins
Ansible
Docker

Kubernetes
Terraform
Nexus
Sonar
Monitor

Linux
Shell Scripting
Python

AWS Services

Ec2	CI/CD
S3	SNS
VPC	SQS
IAM	ELB
RDS	ASG

40% of AWS Services