Myths about DevOps :

1.Programming Language Knowledge is Required
2.Linux Experience is Must
3.Prior IT Experience is Required
4.Non-Technical background cannot do

Why Organisations Needs DevOps Specialists ??

1.Fast Delivery
2.High Availability
3.Less Capital Expense & Operational Expense
4.Reduced Outages

Software Development Life Cycle(SDLC) Phases :

1.Planning and Preparing Design Documents
2.Development : Developer develops code using Programming Languages like Java,Python etc and uploads the code to Github or Gitlab
3.Build : Maven
4.Testing : Selinium
5.Quality Assurance
6.Deploy : chef ...Ansible....Docker....Puppet
7.Maintenance
8.Monitoring : Nagios....AWS Cloudwatch

Popular SDLC Models : Waterfall....Agile...Spiral....V-Model.....Incremental Model.....Big Bang Model etc...

DevOps : Implementing automation at each and every stage

DevOps Stages :

1.Version Control : Maintain different version of the code --→ Git
2.Continuous Integration : Compile,Validate,Code Review,Unit Testing,Integration Testing -→ Jenkins
3.Continuous Delivery : Deploying the build app to test server -→ Maven
4.Continuous Deployment : Deploying the test app on the production server for release -→ Chef,Ansible,Puppet,Docker,Kubernetes

• The term DevOps is a combination of two words i.e Development and Operation
• DevOps is a Methodology that allows a single team to manage the entire application development

life cycle,that is development,testing,deployment and operation
• The objective of devops is to shorten the systems development life cycle
• Devops is a software development approach through which superior quality software can be developed quickly and with more reliability

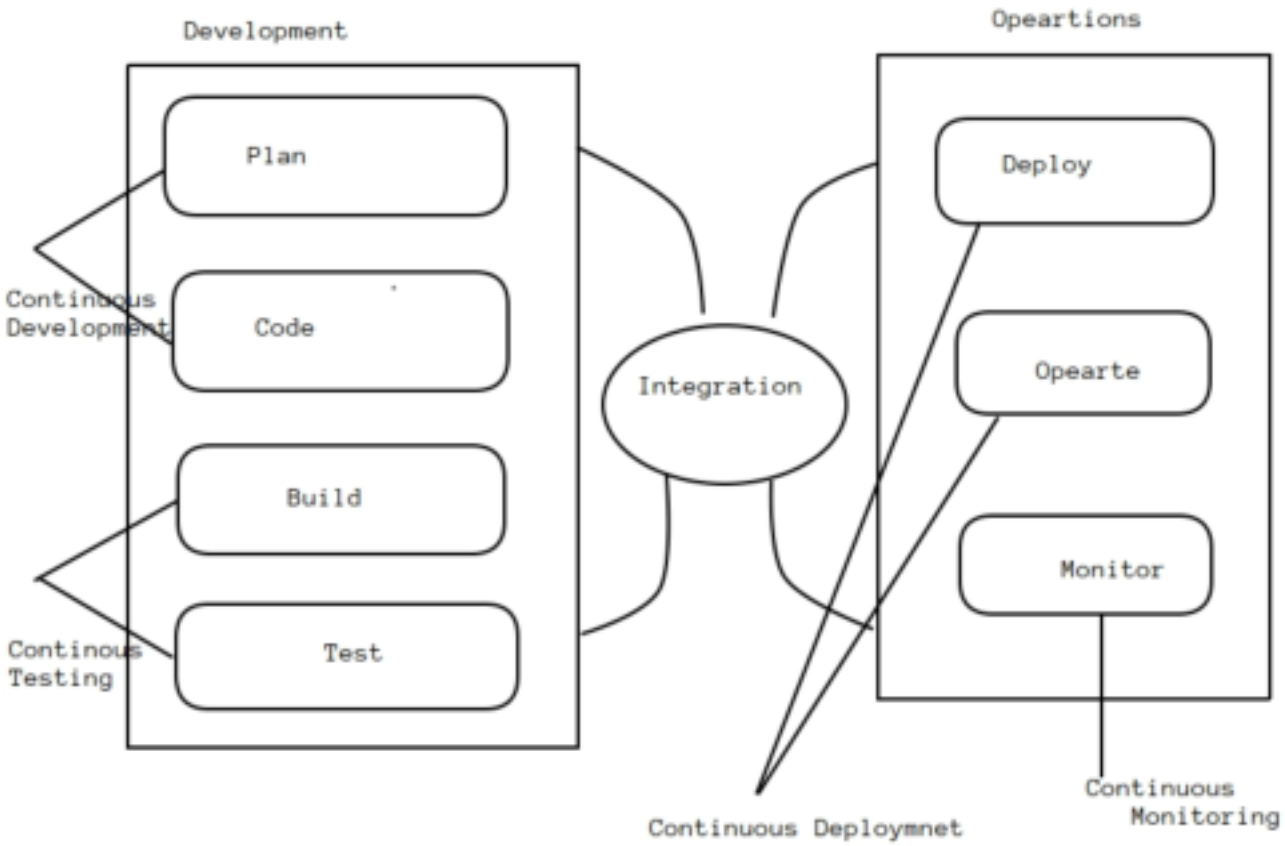
Agile Methodology : Build Short,Build Often

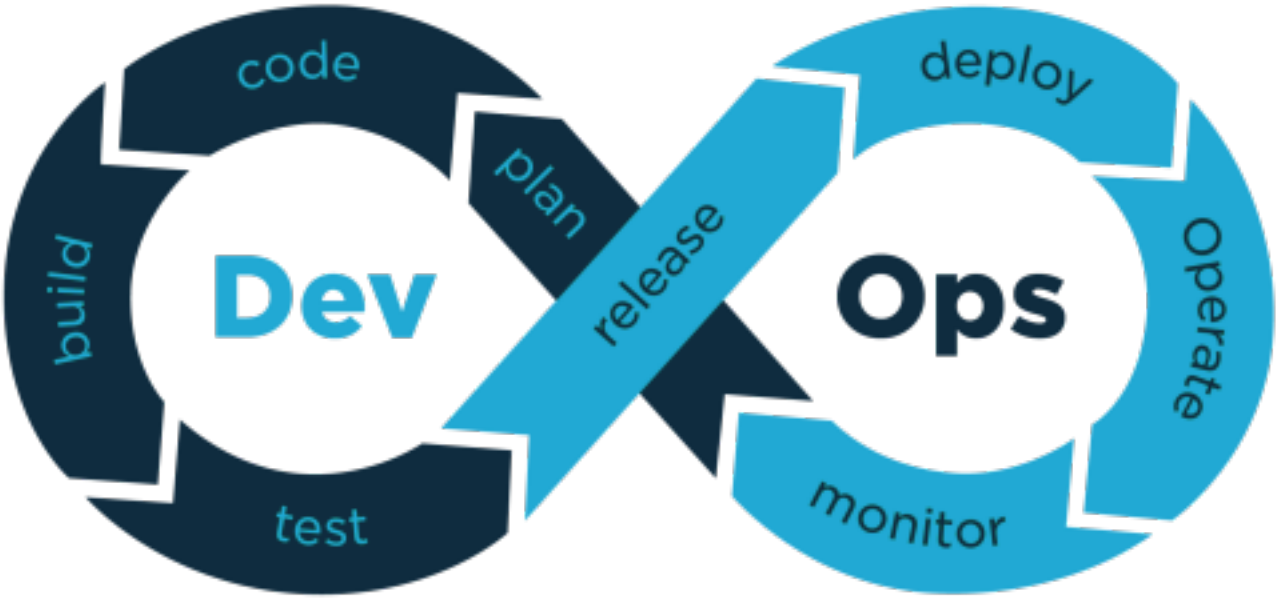
Scrum : Scrum is a framework used to manage a product development.With scrum a project is built in a series of itterations called as Sprints.

Sprints : Sprint is a short.time-boxed period where planned amount of work is completed and made available for review.

Note : Agile is a improvement of Waterfall SDLC Method where DevOps is improvement of Agile Methodology.

DevOps Stages :

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plan
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Dev
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release
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Ops
Operate
monitor