



Assignment 2 Exp.

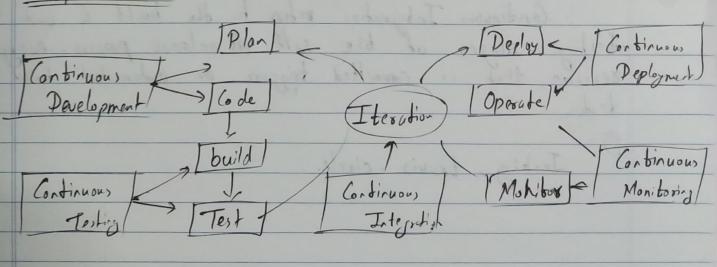
What is Devops? Ans

Devops is a colloborative approach where teams work begether to build be deliver secure software efficiently. To KAHA If consists roftwore development & Operations. To decide how to accelerate delivery through automation, collaboration, fast feedback & iterative. Improvements build on Agile methodology Devops creates a culture of collaboration & shared responsibilities for buisness outcomes

Core principle:

- 1. Develop and Test in production like environment
 2. Deploy builds frequently.
 3. Continuously validate operational quality

Devops Practices:





· Continuous Development:

This is the phase that involves planning and coding versioning & managing build of the software applications functionally Eg. GIT, Github, moven, etc.

· Continuous Testing:

Executing automated tests, continuous & repeatedly against the code base and the various deplayment on.

Bamboo, applier

· Continuous Integration:

Continuous Integration refers to the build & unit terking stages of the soft ste release process. every revision that is committed triggers on automated build & test.

Jerking, toavis, circle.



Microscovice Architectum:

Docker is tool designed to make it came to create deploy and our applications by using continuous containers.

Container allow a developer to package up on applicate with all of the ports it needs, such as boorieres and other dependencies & deploy it as all package by claing so.

Nagios, sport, etc.

Cloud based Devops:

Devops automation is becoming cloud certain Most public ord private cloud computing provides support. Devops. Systemal ically on their platform, including continuous integration and continuous dev tools.

Amazon web services, Google (loud, etc.



· DevOps Engineer Roles

- Technical responsibilities:

 i) Implement, development, testing & automation tools

 ii) Set up infrastructure and tools

 iii) Code review & responsiveness

 iv) Build & maintain CI/CD pipelines

Moragemont Responsibilities:

i) Morage stakeholders

ii) Mentor team members

- iii) Un denstand customes regularists and APIs
 iv) Define development and operational processes
 v) Provide periodic progress reports