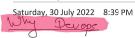
DevOps in AWS



It is basically a idea on thinking which is implementing to slove the problem that we are facing between development and operation team using vonious automation tools.

,	
Traditional IT	Devops
Skill centric Foom Move time invested in planning	> More productive > Team is devoted into specialized siles > less time for planning and cosy to release update > Anchive tanget cooly.
	less productive Skill centric Foom Move time invested in planning

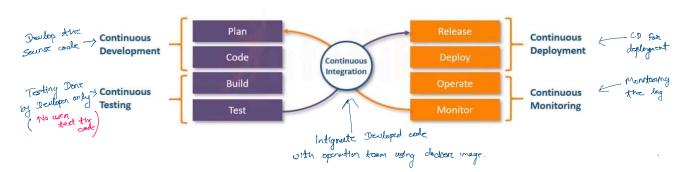
Devops lifzcycle.

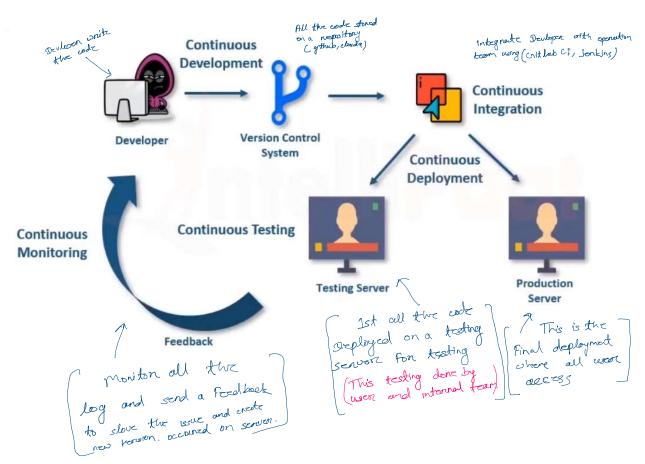
Devops automation looks are implemented using voorlous stages which are a port of the Darops life cycle.

- 1) Florning Mon what you have to do
- 2) code -> write code occording to planning
- 3 Build > Build your code so that it run in any platform (like in lova we build class file)
- Y Testing > Test the code (Each module and function)
- 5) Release + Release code to operation team so that operation team work on it (ops-) Deploy the image file)
- 9 Deploy Operation team deploy the code on production server for testing and checking.
- 7 Openeste + Henre we openesting the software For interenal employee on constoner to check land and drafte
- 8) Monttooz) in all these space any comen occurred then a corner log file generate to identify the corner in manitaring



Working of Devops life cycle.





Continuous Development

We bosicely unite the code and push the code to a version contoral system like git dr. when pushing the code it create a version of each push code

Continuous Integretion.

It integrate Dadopment team with Operation team.

It deals with integrating the different stages of the devops lifecyple, and is therefore the key in automating the whole deeps process.

Continuous Deployment.

It woons deploy the code in a porticular server like testing server on production scower.

In this stage the code is build, the environment on the application is containerized and pushed on to the desired scaver.

The key process in this stage care configuration management, vitualization, and containerization.

Continuous Testing

Continuous testing is the phase where all testing parameter set on a testing server then deploy the software on that sever. The source automatically test the software occordingly the testing parameter.

If there is an owner, the message is sent back to the integration tool, this tool is notify developer of the orerest.

If all lest cope post then the software send to production server.

Continuous Monitoring.

Once code deployed on production somer it monitored from user activity, menitor for corrors, it also menitor for version upgrade.

This stage continuously monitor the deployed application for bugs or crashes. It who get Fordbook forom enduscon. The callected data is sent to the developers to improve the application.

Dev Ops tools

Continuous Devlopement

In this stage we use git For version contral.

git is a version contored system is used when multiple developer working on a sume product and it greate for treating changes on code.

Continue integration

Jenkins is on open source automation source written in Java

It helps to automate software declapement process.

when it detect new vention push on git it automatically deliver it for deployment.

Continuous Deployment.

Continuous Deployment meens (1) Configuration management.

(11) Vintuelization and Containerization.

Contain exization: It own the softwoon along with all dependency of the s/w. If the container file own any other system it own properly as similar to declaper system because all dependancy alongaly install through container.

Tools of Docken, container.

Configuration management: It automedically motall neguined dependency before deploying the softweene.

Tools -> Puppet, ansible.

Continuous Testing.

Schenium protable software testing francework used for web application.

It is a Open sourse took which is used for autometic the testing corraised out on web browsen.

Continuous Monitorines.

Neeglos is an open source devops took which is used for monitoring system, notwork infrastreadure. It also offers monitoring and alcoting services for any configurable event.

