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Sem Experiment : 1

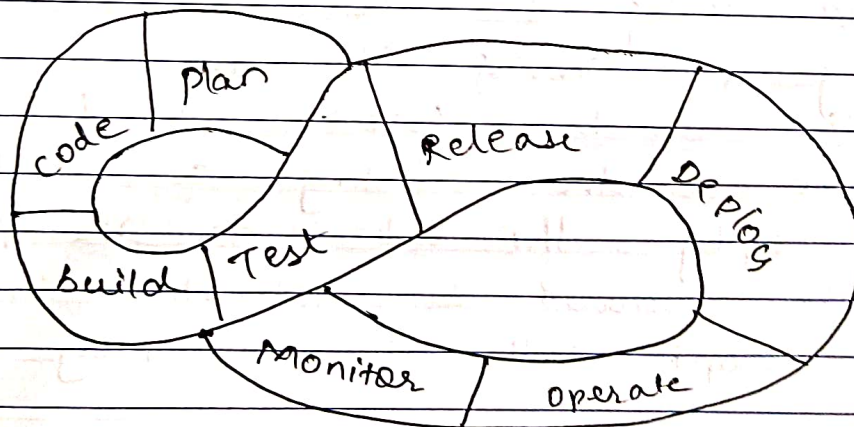
Aim: To understand Devops, principle, practices & Devops roles & responsibilities

Theory:

Definition:- Devops is the combination of the 2 words one is development & other is Operations. It is a culture to promote the development & operations process collectively.

Devops helps to increase the organization speed up to deliver applications & services. It also allows organization speed to. It also allows organization to serve their outcomes better & complete more strongly in the market.

Devops can also be defined as the sequence of development & operations with better communication & collaboration.



1) Build :- Without Drops, the cost of the consumption of the resources was evaluated based on the Pre defined individual usage the fixed hardware allocation. And the Drops the usage of cloud sharing of resources comes into the picture & the build is depend on capacity.

2) Code :-

Many Appⁿ good practice such as Git enables the code to be used, which ensures writing the code for the business helps to track the changes, getting notification about the reason behind the difference in the actual & the development expected o/p & if necessary reverting to the original code.

3) Test :-

The Appⁿ will be ready for the production or after coding. In the case of manual testing it consumes more time in testing & moving the code to the o/p. The testing can be outcome which decrease the time for the testing so that the time to deploy the code to the production can be reduced as automatic the running of scripts will remove many manual steps.

4) Plan:-

Develops the use Agile methods for the way to plan the development. With the operations & development team in sync the helps in organization the work to plan accordingly.

5) Monitor

It continues the monitoring the used to identify any risk the of failure. Also, it helps the in tracking system accurately so that the health of the application can be checked.

The monitoring becomes where more comfortable with services where the log data may party tools such as splunk.

6) Deploy:-

Many systems can support the schedule for automated deployment. The Cloud management platform enables to capture accurate insights & new trends by the optimization or by the development of dashboards.

7) Operate

It changes the traditional approach of development & testing separately. The team operate in a collaborative way here both the teams actively.

The operation team interacts with the monitoring plan which serves the IT &

business development .

o Release:

It Deploys to an environment can be done automate . But when the deployment is made to the production environment , it is done by the manet , triggering .

many process involved in release the management used to the environment to the impact on the customers.

Principles

- Collaboration
- Data Based Decision Making
- Automate
- Failure as a Learning opportunity
- Constant Improvement

Advantages

- It is an excellent approach for quick development & deployment of app.
- i) It responds faster to the movement changes & improve business .
- ii) Dumps clear the descriptive process which gives clarity on product development & delivery.

It improves customer experience & satisfaction.

Disadvantage

-sy Devops professional or expert developer are less available.

- i) Developing with Devops is so expensive.
- ii) - lack of Devops Knowledge can be problem in the continuous integration of the automatic projects

Conclusion:

Hence it is we have known what Devops is the & its advantage & Disadvantages.