## Meet Duoga T12, 27



## SEPM [Experiment No. 1]

Ain: Jo understand Devops, principles, practices and Devops roles & responsibilities.

Theory:

- DerOps is the combination of 2 words, one is development & other is operations. It is a culture

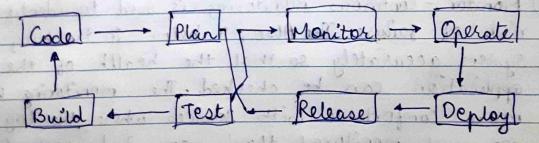
to promote the development of operation process collectively - DevOps helps to increase organisation speed to

deliver applications & services.

- Devops can also be defined as a sequence of development of IT operations with better communication

- Derops has become one of most valuable business disciplines for enterprises or organisations.

Architecture :-



1) Build: Without DerOps, the cost of the Cosumption of the resources was evaluated based on the predefined individual wage with fined hardware allocation. And with perOps, the usage of cloud sharing of resources comes into the picture, & the build is dependent upon the user's need which is dependent upon the user's need which



Deade: Many good phactices such as Git enables the code to look to be used which ensures writing the code to beginess, helps to track changes about the reason behind the difference in the actual 4 the expected output. The code can be appropriately allanged in files, folders, etc. find they can be reused

3) Sest: The application will be ready for production after testing. In the case of manual testing, It consumes more time in testing of moving the code to the output. The testing can be automated, which decleases the time for testing so that the time to deploy the code to production can be reduced as automating the running of the scripts will remove many manual steps.

4) Plan: DevOps use Agile methodology to plan the development. With the operations of development team in Sync, it helps in organising the work to plan accordingly

to 1se productivity

5) Monitor: - Continuous monitoring is used to identify any risk of failure. The Aloo, it helps in Hacking the system accurately so that the health of the application can be checked. The monitoring becomes more comfortable with services where the log data may get monitored thru' many 3rd party tools such as splunk:

for automated deployment. The cloud management platform enables were to capture account with the scheduler optimiz scenario, and the management of the view the optimiz scenario, and the contraction of the scenario.

by the deployment of dashboards



7) Operate: Devops changes the traditional approach of developing & testing separately. The teams operate in a collaborative way where both the teams actively participate throughout the service lifecycle. 8) Release: Deployment to an envt. can be done by automa". But when the deployment is made to the product envi, it is done by manual thinggering. Many processes involved in release management commonly word to do the deployment in the product envi manually to lesson the impact on the customers

Principles:

- Collaboration

- Data - Mased Decision Making - Customer - Centric Decision making.

- Constant Improvement

- Responsibility Throughout the lifecycle

- Automation

- failure as a learning Opportunity.

Advantages:

- Devops is an excellent approach for quick development 27 responds faster to the market changes to improve

business growth.

- Devons escalate business profit by dechessing s/10 delivery time & transportation costs
- Devopo clears the deocriptive process clearity on product development

- It improves automer experience



## O'sadvantages : - Devopo professional or expert's developers are less available. - Developing with Devops is so expensive. - Adopting new Devops technology into the industries is hard to manage in a short time - Lack of DevOps knowledge can be a problem in the continuous integration of automa? projects. Conclusion: Hence, we have known what Der Ops is & its advantages & disadvantages.