

SEPM Experiment 1

AIM:- To understand DevOps, principles, practices and DevOps value and responsibilities

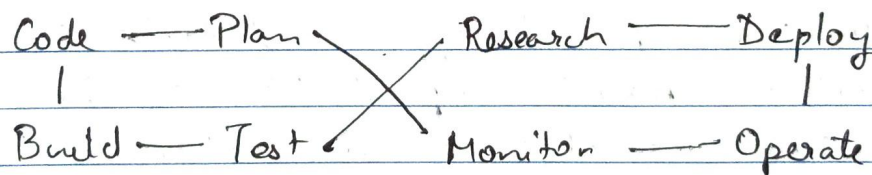
Theory:-

DevOps is a combination of two words Development and Operation. It is a culture to promote the development and operation process collectively.

Helps increase the organisation speed to deliver application and services. Also allows org. to serve their customers better and compete more strongly in the market.

DevOps can also be defined as a sequence of development and IT operation with better communication and collaboration. DevOps has become one of the most valuable business disciplines for enterprise or organisation.

With help of DevOps quality and speed of the application delivery has improved to a greater extent.



Without DevOps, the cost of consumption of the resources are evaluated based on the predefined individual with forced hardware allocation.

DevOps the usage of cloud sharing the resource comes into the picture and the build

build is independent upon its needs which is a mechanism to control resource.

Code :

Many good practices such as Git enable the code to be used which ensure writing the code for business, helps to track changes getting as titled about the reason behind the difference in actual and expected code.

Test :

Application will be ready for production after testing. In the case of manual testing it consumes more time, in testing can be automated which decrease the time so that the time to deploy code can be reduced.

Monitor :

Continuous monitoring is used to identify any risk or failure. Also it helps in tracking the system accurately so that it can be maintained.

Deploy :

Many systems support the scheduler for automated deployment of the cloud platform enables users to capture accurate insights.

Operate :

Devops changes the traditional approach of developing and testing ~~separately~~. Teams actively participate throughout the service lifecycle.

Release :

Deployment to an environment can be done by automation. But when deployment is made to production environment it is done by manual triggering.

Principles :

- Collaboration
- Data Based Decision Making
- Customer Centric Decision Making
- Constant Improvement.

Advantages :-

- Devops is an excellent approach for quick development and deployment of application.
- Responds faster to the market changes to improve business growth.
- Escalate business profit by ~~decreasing~~ software delivery.

Disadvantages :-

- Devops professional or expert developers are less available.
- Developing with Devops is expensive. Adopted of new technology is hard.

notes