Ass: Experiment &



Aim: To understand Devops, principles, practices and Devops role and resposibilities.

Theory:

Definition: Devops is the combination of two words, are is

Development and other is Operations. It is a culture to

promote the development and operation process collectively.

Devops helps to increase organization speed to deliver applications

and Bervices. It also allows organizations to serve their customers

better and compete more strongly in the market.

Devops can also be defined as a sequence of development and

It operations with better communication and collaboration.

Devops has become one of the most valuable business disciplines

for interprious or organizations, with the help of Devops, quality

and speed of the application delivery has improved to a

greater extent.

Aproblectione

Lode-Tplan [Pelease] Deploy]

[Build Fruit Monitor Operate]



- Build.

 Whit without Den Ops, the cost of the consumption of the resources was evaluated based on the predefined individual usage with fixed hardwane allocation. And with Dow Ops, the usage of cloud, showing the resources comes into the pictore, and the build is independent upon used need, which is a mechanism to control the m usage of resources on capacity.
- Many good provinces such as git enables the code to be used, which ensures writing the code for business, helps to track changes, getting notified about the reason behind the difference in the actual and expected code output, and if necessary reverting to the Original under developed.
- The application will be ready for production after festing, fithe case of namual testing. It consumes more time in testing and moving the code to the output. The testing can be automobal which decreases the fine so that the time to deploy the code to production can be reduced.
 - DevOps use Agite Methodology to plan the development, with the operations and development team in Sync. It helps in organizing the work to plan accordingly to increase productivity.



Monitor

- Continuous monitoring is used to identify any risk of failure
Also, it helps in tracking the System aguil accurately so that
the health of the application can be checked. The monitoring
becomes more comfortable with services where the log date
may get monitored through many third-party tooks such
as splunk.

Deploy

- Many systems can support the Scheduler for automated of deployment the cloud management platform enables usors to Capture accurate insights and view the optimization scenario, analytics on frends by the deployment of dashboards.

Der Ops changes the freditional approach of developing and testing separately. The fearns operate in a collaborative way where both the bearns actively participate throughout the sorvice lifecycle. The operation fearn interacts with developers, and they come up with a monitoring plan which saves the It and pusiness development requirements.

Deployment to an exprending ment can be done by automation, But when the devel deployment is made to the production even, it is done by manual frigging, many processes involved in release management commonly used to do the deployment in the production even markably to lessen the impart on the customers.



