

Experiment No 1

Aim: To understand Dev Ops, principles, practices and Dev Ops roles and suspensibilities

Theory:

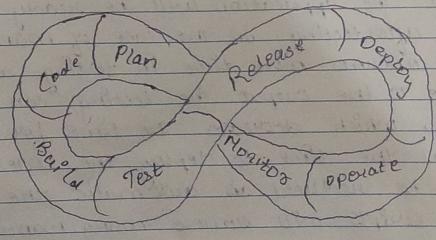
Depinftion: - Develops is the combination of 2 words
one is development and other is operations. It is
a culture to promote the development and
noeration process collectively.

operation process collectévely.

Devops helps to increase organisation speed to
deliver applications and servius. It also allows
organisations to server their austomers better and
complete more strongly in the market.

Devolps can also be defined as a sequence of development and IT operations with better communication and collaboration.

Dev Dps has become one of the most valuable business disciplines for enterprises or organisations. With the new of Dev Dps, quality and speed of the application delivery has improved to a great entent.





- Build Without DevDps, the wist of the consum ption of the suspended was evaluated based on the pre-defined individual usage with fixed hardware allocation And with DevDps, the usage of cloud, shoring of resources comes into the picture, and the build is dependent upon the user's need, which is a mechanism to control the usage or resource or capacity.
- 2. Code Many good practices such as lit enables the code to be used which ensures writing the code for business, helps to track changes, getting no notificated about the reason behind the allerence in the actual and the empected output, and if necessary reverting to the original code developed. The code can be appropriately convenged in files, folders, etc. And they correspond to the proprietary con be recessed.
- 3. Test The application will be searchy for production on after testing. In the case of manual testing it consumes more time in testing and moving the code to the output. The testing can be automated, which decreases the time for testing so that the time to deploy the code to production can be suchused as automatic the sumpling of sulps will summer many manual stups.



- 4. Plan Devops use Agile methodo logy to plan the development. With the operations and devolopment team in sync. it helps in organising the work to plan arrepresengly to increase productivity.
- 5 Monter Continuous monitoring is used to Pdenify any rusk of pailure Also, it helps in tracking the system accurately so that the health of the application can be cherked. The monitoring becomes more comportable with services where the log data may get monitored becomes through many third-party tools such as spunk
- Deploy Many systems can support the scheduler

 Jou automated deployment. The cloud management

 platform enables users to capture accumate

 Posignts and view the optimization scenario,

 analytics on trends by the deployment of

 clashboards.
- The service life cycle. The operation teams interacts with a monitoring plan which serves the up to the come up the service life cycle. The operation team with a monitoring plan which serves the IT and business requirement

8. Release- Deployment to an envisonment can be done be automation But when the deployment is made to the production environment it is done by marul triggering Many processes involved in release manage ment commonly used to do the dop loy mont In the production environment manually to lessen the impact on the vistomers Englished the Konstant of the same Collaboration Dota-Based Deciston Making Customer- Centric Decision Moking Constant Improvement Responsible By Throughout
Automotic the Life cycle Automatic Failuse as a learning Opportunity Advantages. · Devops is an encellent approach for quick development and deployment of applications · It susponds foster to the market changes to improve pusiness · Devops estatate business projet by decreasing software delivery time and transportain easts Devops clears the descriptive process which gives christy on product development and



It improves customer emperino and satisfaction Devops sempligles collaboration and places all tooks in the cloud for customers to access Devops means collectère responsibility, which leads to better team engagement and productivity.

Disadvantages

Devops projessional or emperts developer are less available

Developing with Devops is so empensive
Adopting new Devops technology into the
Endustries is hard to manage in a short
time

In the continuous Entegration of automa

Devops is and ît's advantages and. gis advantages.