

Experiment 1

Aim: To understand Devops, principles, practices and Devops voles and responsibilities

Development and other is Operations, It is a culture to promote the development and other is Operations, It is a culture to promote the development and operation process collectively.

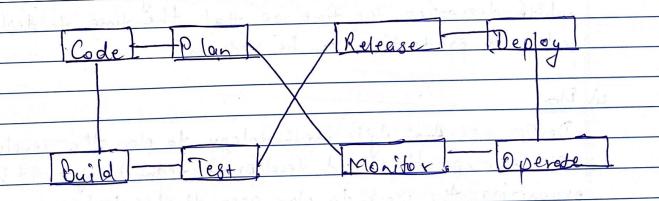
Dev Ops helps to increase expanization speed to deliver applications and services. It also allows organisations to serve their customess better and compete more strongly in the market.

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

Dev Ops has become one of the most valuable business disciplines for enterprises or organisations. With the help of Devops, quality and speed of the application delivery has improved to

Architecture.

a greater extent





Without Derops, the cost of the consumption of the resources without Derops, the cost of the predefined totindividual casage with fixed hardware allocation. And with Derops, the asage of cloud, sharing the resources comes into the pit picture, and the build is independent upon isserts mee need, which is a mechanism to control the asage of resources or capacity.

2) Code
Many good proctices such as git enables the code to be used.

which ensures writing the code for business, helps to track charges,

getting notified about the reason behind the difference in the

actual and expected code output, and it necessary reverting

to the original code developed.

The application will be ready for production 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 so that the time to deploy the code to production can be reduced

Devops use Angi Agile methodology to plan the development. With the operations and development team in syne. it helps in expanizing the work to plan accordingly to increase productivity.



5) Monitor Continous monitoring is used to Identify any risk of failure Alor it helps in tracking 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 in monitored through many third-party tools such as Splunk Many systems can support the scheduler for automated of deployment. The cloud management platform enables users to capture accurate insights and view the optimization ocenario, analytics on trends by the deployment of dashboards. 7) Operate Devops changes the traditional approach of developing and testing seperately. The teams operate in a collaborative way where both the teams actively participate throughout the service lifecycle. The operation team intercets with developers, and they come up with a monitoring plan which serves the IT and business development requirements 8 Release Deployment to an environment can be done by automation. But when the deployment is made to the production environment; it is done by manual trigering. Many processes involved in release management commonly used to do the deployment in the production environment manually to lessen the impact on the



| | Principles |
|-------------|--|
| 145° met of | Collaboration |
| 100 | Data-Based Decision Making |
| ු පු\ | Custoner-Centric Decision Making |
| u | Constant improvement |
| 5) | Responsibility Throughout the Liberyele |
| 6) | Automation |
| 7 | Failure as a Learning Opportunity |
| | the sound of routed a color brains and and a sound of |
| 100 | Advantages los as held a transported hards alt the specified |
| 4 | Derdos is an excellent appreach for quick development and |
| | deployment of applications |
| 40 | It to responds toster to the market changes to improve business |
| | y volum |
| 35 | Devops escalate business profit by decreasing software delivery |
| 142.0 | time and transportation costs |
| 4 | Derops clears the descriptive process, which gives clerity on |
| tony | product development and delivery |
| 5 | It improves austomer experience & gatistaction |
| 6, | Der Ops simplifies collaboration and places all tools in the cloud |
| | for customer to access |
| 7 | Der Ops means collective responsibility, which leads to better |
| 1 | team engagement and productivity |
| 1 | envisors before all the short in the state of the |
| 4 | Disadvantages |
| | Devops professional or expert & developers are less available |
| ס | Developing # with Devops is so expensive. |
| 3) | Adopting new Dev Ops technology into the business industries |
| | is hard to manage in a short time |
| | |