

## SEPM Experiment-1.

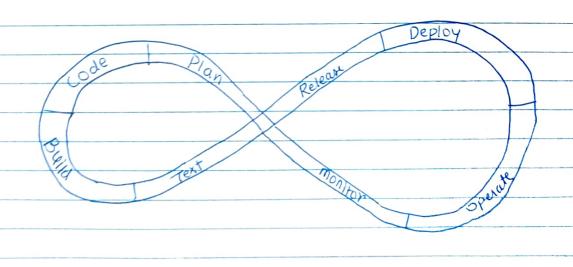
Alm: To understand Devops principles, practises and devops roles and responsibilities.

Theory:

Definition:

- → Devops is the combination of two words one is development and other is operations. It is culture to promote the development and operations process collectively.
- Devops helps to increase organisation speed to deliver applications and services. It also allows organisations to serve their customer better and complete more strongly in market.
- -to Devops can also be defined as sequence of development on IT operations with better communication and collaboration.
- business disciplines for enterprises and organisations.

Architectue -





1. Buld:

Without devers the west of consumption of resources was evaluated based on pre-defined individual usage with fixed hardware.

2. Code:

Many good practises such as git enables wde to be used which ensures writing wde for business helps to track changes getting notified about reason behind differences in the actual and \_ the expected output.

3. Test:

The application will be ready for production after festing. In the case of manual testing it consumes move time in testing and moving the code to the output.

4. Plan

Devops use agile methodology to plan development - with operations and development team in sync it helps in organising the work to plan accordingly to increase productivity.

5. Monitor

Continuous monitoring is used to identify any nisk of failure. Also it helps in tracking system accurately so that health of application can be checked.



6. Deploy
Many systems can support the scheduler for
automated deployment. The cloud management platform
enable users to capture accurate insights and
view organisation scenario analytics on trends
by deployment of dashboard.

7. Operate

Devops changes the traditional approach of

developing and testing separatedry. The teams

Operate in a collaborative way where both

team actively participate through service lifecycle.

The operation team interacts with developers

and they wome up with monitoring plan.

8. Release

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

by manual triggering.

Prinuples-

- Collaboration

- Data based decision making

- Customer centric decision making

- Automation

- Constant improvement.