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Experiment 1

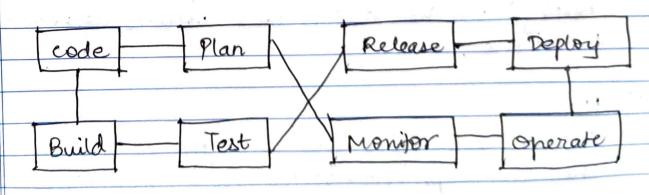
Aim: To understand Derops, principles, praetices & Derops roles and responsibilities.

Theony:

Definition: Derops is the combination of two words, one is development and other is operations. It is culture to promote the development and operation process collectively.

Devops helps to increase organisation speed to deliver applications and services. It also allows organisations to some their customers better and complete 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 enterprises or organisations with the help of Devops, quality and speed of the application delivery has improved to a greater extent.

Architechture:



without Derops, the of consumption of resources was evaluated based on predefined individual usage with fixed hardware allocation and with durops, the usage of cloud, sharing the resources comes into picture and the build is independent upon user need,

2) code:

many good practices such as Cit 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 unexpected code

output, and if necessary reversing to

original code sendoped.

The application will be ready for moduction 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.

Derops use Agile methodology to plan
the divelopment with the operations
and development team in syne, it helps
to organising the work to plan accordingly
but to increase productivity.

5) Monitor:
continous monitoring is used to identify any
risk of failure. Also it helps in bracking
the system accurately so that the health
of the application can be checked. The
monitoring becomes more comfortably with
services where the log data may get
monitored through many third-party
tools such as splunk.

Deploy:
Many systems can support the Scheduler for
automated deployment. The eff cloud management
platform enables were to capture accurate
insights and new the optimization scenars
analytics on trends by the deployment of

Derops changes the traditional approach
of developing and testing seperately. The teams
operate in collaborative way where both
the teams actively participate throughout
the senice lifecycle. The operation
team interacts with developers and
they come up with a monitoring plan
which serves the TT & bussiness
development requirements.

2) Release: Deployment to an emironment can be done by automation. But when the deployment is made to the production environment, it is done by manual triggering. Many processes involuned in release management commonly used to do the deployment in the production emironment manually to lessen the impact on the customers. mineiples: collaboration Data - Based decision making 3) customer - centre décision making constant improvement. Responsibility throughout the lifecycle Automation. Failure as a learning oppurturity. Advantages: 1) Derops is an excellent approach for quick development and deployment of applications. It responds faster to the marked changes to improve business growth it improves customer experience & satisfaction. Devons escalate business profits by decreasing software delinery time & transportation costs. increase promidering.



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7	8	cinclified collaboration and places
2)	De	rops simplifies collaboration and places un tools in the cloud for customers to
_	a	ceers.
6) 1	verops means collective responsibility, which leads to better team engagement
		which leads to bettor team engagers
		and peroductivity.
	1.	Disadrantages: Derone proffersionals or experts developers
0		are les available.
	01	Developing with Derops is so expensive.
	3)	Adonting new Dorone technology into the
	-9)	Adopting new Devops technology into the business industries is hard to manage
		in a short time.
		Or a span pro-