

	EXPERIMENT NO.1
	Aim: to understand Devops, principles & Devops roles & responsibilities
	Theory:
•	Definition: Devops is the combination of a words Development &
	operations. It is a culture to promote the development coper
	ation process collectively.
•	Devops helps to increase organisation speed to deliver
	applications à services. It also allows organisations to serve
	their customers better & complete more strongly in the market
•	perops can also be defined as a sequence of development
	et operatione with better communication & collaboration
•	Devops has become one of the most valuable business
	disciplines for enterprises or organisations. With the help
	of Der ops, quarity & speed of the application derivery
	ARCHITECTURE:
.1	Build: Without Devops the cost of the consumption of the
	resources was evaluated based on the pre-defined
	individual usage with fixed hardware auocentros
	And with Devops, the usage of wound, sharing of resource
	comes into the picture & the build is dependant on
	the user's need, which is a mechanism to control usage
•	HENDON BUILDING TO THE THE PARTY OF THE PART
2.	code: Many good practices such as Git enables the
	code to be used which ensures writing the code
	for business, hups to track changes, getting
	notified about the reason behind the differ
	in the actual & the expected output, and it
	necessary reverting to the original code developed
	The code can be approximately arranged in files
	folders etc



3. Test-The application will be ready for production after testing & 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 reduced as automating the running of scripts will remove many manual seeps Plan: Derops use Agile methodology to plan the development, with the operations & developm team in sync. It helps organising the work to plan accordingly to increase productivity montor: continous monitoring is used to identify any risk of faiture. Also it helps the tracking 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 monitored through third party tools such as splunk Deploy: Mary systems can support the schedules for automated deployment. The cloud managemen platform enables users to capture accurate meight & view the optimisation scenario analytice on mends by deproyment of dashboard operate: Devops changes the traditional approach of developing and testing separately The teams operates in a collaborative way

where both the teams actively participate

throughout the senice lifecycle The operation team interacts with developers & they come up



	with a monitoring plan which serves the IT & business requirements
	Release. Deployment to an environment can be done by automation. But when the deployment is made to the production environment it is done by married triggery
	Principles:
	- Collaboranon
	- Databased decision making
	- Customer cenme Decision making
	- constant improvement
	- Responsibility mroughout the lifecycle
	- Automanon
	- fauure as a learning oppourtunity
	Allanhage
	Advantages: - ocrops is an excellent approach for quick develop
	a deproyment of applications It responds faster to the market changes to
	mmore rusiness growth.
	ourons simplifies collaboration & places all tools
	m the could for customers to access
	perops means collective responsibility which
	beads to better team engagement & moductively DisAdvantage available
	surps professional or experts developers are les,
	sweloping with Du Ops 15 expensive
The second secon	tack of Der Ops knowledge can been proble
	Concurron: Hence we know what Devops 1st us auach