	Marshit Verma
	1918365
	Page
	Date: / /
	Assignment - 2
	IN DOUNG TO THE
010	Why is Devops a major stequirement in Teday, Scenario?
177	Explain all the Devops took in Details?
V	
m /2	DerOps is a major requirement because :-
	Devops discribe a cultur and set of procures that bring
(1)	
	development and operation team together to complete s/w develop-
	ment.
(11)	With combined development and operation team, application an
	ready for use much mon quickly.
2,1	Devoler meduced deldogment failure, Rollbachs and Time to
(111.)	Druchs Treduced deployment jailun, Rollbachs and Time to Recover. Since sen shunter development cycles with Druchs promote
-	Recover. Since Son shunter aweloprom gous with the
	mon prequent code release. This in turn makes it cases to spot
	Triproved communication and collaboration. Operations doesn't need to wait for different team to troubleshost and fin a below
(/V)	Improved communication and collaboration. Operation
	if he divergent team to troubleshost and fin a
	need to wall for different
	problem.
(V1	Increasing Efficiency helps to speed the development process and make it less prone to error. Then are ways to
	Lower to enous. Then an ways to
	procen and man it was provided with the chapter can
	automate Devolos tash. This mich Software the stade
	prices and make it was plant to creat software engineer can completing task that can't be automated.
	focus on complains land

Ans DevOps took are or Johns:

1) Version Control took

(i) Crittrub Hait = Github is a Git repository hosting service but if aclds many of it, own patrue while git is a commant line tool, Github provider a web-bases graphical interface. It also provide accern control and several collab-cratic feature, such a wikin and basic took management of took you runs project. It half in (I/CD.

Bit Buckets It help in code management and pletform

the for hosting code of goes beyond code management

Tegm cgr plan projects, collaborate or code test and

deplog from a single platform. Some feature or i
- Tighter Jira and Trello Integrati-

· Integration (I/CD to build, text and defley

· Pull regist and approve code sivire mon efficiently of Kerf you code second in the could with It whitelisting and 2-step verification

Simplify and accelerate various workflow in you SDLC
with an integrate approch. A docker container image is
a standation executable package that include
everything you need to now an application. Some peakurs!

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· Standardized packaging format for diverse applicar.
· (ontaine or time that news on varior kiner and bindow

· Developm was Docken for build test and collaborate.

· Docker Hub to Rachage, enecute and Manage distributed application with Dorker app

Kubernetar Ruberneti is an open sons Divops tell und to automote defoligment on managinent of containerized application 8 perhaps and I the most popular contains archestration took, justin That differentiate it for other Devop toch includi-

· Make change to your application or it configuration and monitoring application health simultaneously-

Automates Mollouts 8 rollbacks

· It offen our IP address and a single DNI name Jos a set of pods-service delivery and load balancing · Automatic Automatically mount the strong system

I you doice · sey healing capability

Junkin of the writter in java, jendin is an open-source platjoin for continous integration and continous delivery that is used to automate your end-end relians manage most life cycle. Features and :-

In any project.

Easily set up and configured via it, web interface, which includes on-the-fly error checks and build-in help.

Easily distributed work accen multiple machine, helpins drive build test and deployments across multiple platform

city Selenium of it is primarly used to automate web
cifflication for testing purpose but can also be used
to automate other wish-based admin tooks. Three components
of Setenium webbier allowing you to create so bush
browsh-based regressia automation with and test
and help in scaling and dishibutions wift arrows
many environments

Selfnion IDE is a chrome and Friegen add on that hope in simple record - and - playback of interaction with the brown

(vill the):- Chy i. an open-source Devopo tool for automatic and configuration management build by Enlarge and Ruby.

in language specific to domain

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