Name : Rishubh Kunar Sec : F Roll no. : 1918579 Devops Assignment 100.2

(1) why a luster a myse suguirement in today's sumario! In a suitshell the Derges model allow Confoures to create viable application and progressions within a much should the fram, thus excelerating the greed of investion and operational approach that mables factive divelopment of rew product I every maintainance of Evilong dy ley monty. Some Important benefits of durys as a major mequin * Julie solution. * Increased efficiency . Improved bustomer especience * fulu Ro I · Impound puformance. a Continuous improvements · Reduce filmer & foll book. -> Crenative stability of 17 software applications. Engineering, by busicuity, Operation & mous & units then in Common objectives of orchieury benness trayets. In this appeared the software is sen as a lover.

to implove ouganizational efficiency and security
by automating summal key prouses.

2)	Ephin all Der Ops took in deterit;
>	Since no cingle tool work accounts all areas of development Italinery. The need is to first wider-stand the persons and a coordingly map the tool to be successfly establish duraps without in Organization
i)	Jenkins: - an Excellent dwaps automation tool being adapted by inscreased number or open source (1/CD server that helps in automating the different stopes of delivery pixelings
y 4	Allows in to set up and austomise CD pipeline as
4	Runs en timo y windows & Mac Os.
	Jenkins allowe you to efetate & deploy hero cade with
	Luns en l'rus ; windows 2 Moc OS. Tenkins allows you to efetate & deploy how cade with questre speed.
少.	biit!
	widely used acrows software industries, Git is on
	distributed son (save code management suppos
	distributed SCH (Samu code management Durps tool it allow you to easily treak the progress of your development work, when you can sure different bersions of source will and return to premions one as
	development work, when you can sur different bersione
	of source well and return to premous one as
	when enguined.
(a	A fun & open sown book that suggests most of the william
	Shen enguined. A fun & open some bod that suggests most of the number Control pralimes of check-in, menging, labels, commet, because etc.
	buanche et.
	Requires a hosted reporting such as githubs ay

a lary to have A maintain with separate bear che of source - code that can be merged through git. Adaps. Our of the most popular few & open - source for ops monitoring tool, Nagios allows you to monitor your infrastructure recal time so that identifying security threats detection of outages & ever become teasier.

* facilities have wrether of of source mone toring.

- agent based on agentless.

* Allow for monitoring of windows / UNIX, LINUS & web apps on well. few open source with usuious adds on aveilable. 1) Najos bu -> Command Line lood 2) Major XI -> web based GUT. 3) Log securer - searches log alater with automatic alent.
4) Papier fusion - for cimelroneous multiple network maribuin it is one of the widely used development tool of Dev Ope 6 is known to provide platform independent.

This greated cointains security fails operations for cloud-notine & legacy applications. Docker løintain support Virtual machine Environent k com platform independent.

Swild in support for docker available for both E) Kubunetie: ideal for large ham, this bruge tool
is built on what docker started in the field of
cointainer by logical cat privation.

It can be diployed to multiple computer through automated
die the butien. e Extremely weful in the stream living complex projects away longer frams. Ansible: it is prinitally a deight management and organization bushs tool. it is united in simple purposement bushes estimated for Deligations to stale the process of automation to stale the process of automation to stale Land on mater slaw Auchitedius.

I fin on ideal Devops tool to manye lample deplayment.

Lipered up the process of development. (antiguestians bit is helpful automating the infloation of Assit in observation and enforcing the complexition of automatu the whole quoun and make suce that
the systems are convicibly templifuned.

Of the helps you ensure that the templifunction
policies geneing congitally flexible headable & totally Continuously.

E) Lugged: - "It is an open source long juentions management for that is used for dyloging, configuring of managing dermine.

1) offing master - clave auditecture.

of lampstible with lines, windowe & vivix os.

a) John. it is designed to make machine date wable as well as a confined to encuryon by delicating operational intelligence to bulps have.

It is an Evallent choice of tool that make componies muce seems productive to complitude.

* splunk deliver a mare central & collection view of 11 sumices.

· Easily detects pattern , highlights cano native and away of import

(10) breedle an Extremely Nersatile Devope tool, brush allows you to write your took in verifice brugues, including cott , gave, python among others. been align & Itall: I DEA.

The low model of greatle a band in tager, action, injust 2 entputs

a substancial amount of compile time you to save