Ramijay sugh Nefi, 6, 1910593 Devops Assignment no. 2 D why a Durps a major suguirement in today's scenario)

To a suitshell the Devops model allows Companies to
counte viable application and programmes within a much
shoular time fram, thus excelerating the speed of innailion it is a major accomment because its a oftware duriby and and operational approach that onables faster development of new products & cosy maintainance of Existing depleyments. Some Important benefits of devops as a vigori verquin * faster solution. · Thereared effeciency & Improved lushomer representes * factur ROI

* Tompound performance.

* Continuous improvements

* Reduce failures & foll back -> brenatur stability of 17 Software applications. Enjercency, by busecurity, Operations I more 2 units then in Common objectives of achieving beinness targets. In this appearch the software is sen on a bool.

to implioue organizational officiery and security
by automating surred Key phouses.

2)	Eppain all Der Ops took in deterile;
>	Since no cingle tool work accords all areas of development Etlelinery. The need is to first wider-
	Since no cingle tool work accords all areas of dwelogment Italinery. The need is to first wider-stand the person end accordingly map the tool to be successfly establish dwops withere in deganization
	Jenkins?— an Excellent durans automation tool being adopted by invessed number on open source (ILD waves that helps in automating the different stops of delinery pipelines
y 6	Allows its to set up and customise CA pipeline as
*	Runs on linux; windows & Mac OS. Tenkins allows you to Hetate & deploy hero cade with
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ю	lasy to have & maintain with separate bear cho. of
1	souver - code that can be merged through git.
3)	Hagies: One of the most popular few & open - source
	fu ops monitoury tool, Nagios allows you to monitor your
	Infrastructure recal Rime so that identifying security threats
	detection of outages & even become teasur.
*	facilitées knowestrads of some mon toring.
7 1	agent based on agentless.
v	Allow for monitoring of windows / UNIX, LINUX & web
	apps ou well.
Ď	fere open source with various adds on aveilable.
	different version of Nayios are.
1)	Najos bu > Command Line Vool.
2	Major XI - web based GUI.
. 3) log seemer - searcher log data with automatic alent.
Ч	Parios fusion - for cimeltoneous multiple network maribuing
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	it is one of the widely used development tool
	of Dev Ops & is known to pervide platform independent.
Carrie 1	integrated combains security & agile operations for
	it is one of the widely used development tool if Dev Ops & is known to provide platform independent. Integrated cointains security & agile operations for cloud-notine & legacy applications.
10,	Easily automatic app dylayment & make dutributed
in a second seco	development cary
Æ	Easily automatic app dylayment & make dutributed development casey. Docken Cointain support Vistual machine Environments to one platform ondependent.
	Le cue platform prolependent.
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	build in support for docker available for toth
	Swild in support for docker waitable for both
s)	Kuburnetie! ideal for large ham, this Durge tool is built on what docken started in the field of Cointoinaugation it is a powerful tool that can genue cornteined by lopical cat principalion.
	is built on what docker started in the field of
	Cointoinaugation it is a powerful tool that can genup
	corntainer by logical catigorisation.
76	It can be deployed to multiple competer through automated
	ernteuner by logical catigorisalion. It can be deployed to multiple computer through automated du try bution.
P.	kubernets is the first container Outherration tool.
Ø.	Kubernetz is the first container Der Chetration tool. Extremely useful in the stream linery complex periods aways large teams.
	large teams.
6)	Ansible: it is prinitally a dis in management and
	organization bush fool it is weiter in simple.
	programming language . PAMC it makes easier for DevOps
	purposamming lenguage. PAMC it makes easier for DevOps from to schale the perocus of automation Lyperd
	- fatta car, o
Ŕ	haved on master slave Auchitecture.
M	if is on ideal DevOps tool to manage lamples deployment. I speed up the peroces of development.
	I speed up the perous of divelopment.
3 (
7)	Chil: This Dwops hool is mainly used for ducking the
	configurations bit is helpful automating the rightsastine.
(k	Chef: This Dulps tool is mainly used for ducking the configurations & it is helpful automating the infrasticus. Assit in standauzing and enfacing the configurations Continuously.
	Continuously.
M	Out automates the whole process and make sever that
	the systems are covercetly configured.
<u>a)</u>	Chaf helps you enjury that the configuration
	Out automatus the whole process and make sever that the systems are convicetly configured. Out helps you enjury that the configurations policies remains comptelly splessible studdable & testable

8) Rippel: - "It is an open source long junation management from that is used for alyloging, configuring & managing 1) offing master - slave conditective. fuppites work emosthly for hybrid infra. Papplication.

1) lampatible with linus, windowe & UN 10000. a) Johnk: it is designed to make machine data wable as well as acceptable to enumer by delivering operational intelligence to bulps beams.

This on Excellent choice of book that make componies much server productive to compelitive. * Iphunk deluius a mou Central & collectui view of " Easily detects pattern, highlights cano malie and away of impact. (10) breudle. an Extremely Wersatile Devope tool, brudle allows you to went your code in vaccious conqueres induling CHT, Java, pythor cimary others. it is supported by various IDE's such as not bean Elipse & Intelli I IDEA. The Cour model of gearlle is bound in tasks actions or substancial amount of compile time!