Assignment - 02 1) Why is Der Ops a major requirement i'n todays Sceneralo? on a notatell the der Ops mode? allows Companies to create viable application and programmer within a much shorter time from, thus occarbating the Speed of Innovation. Spud of Innovation. Ot is a major requirement because of is a Software devlopment and Operational approach that enables faster der lopments of new products & easy main tainance of Enisting deployments. Some important bevifits of Dev Ops 28 a major acquirmen + forter do wtion. * Incorred efficiency, * Improved Customer enpirience * faster ROI

* Improved performance + Continous Improvement + Reduce feileres le roll back. - greater stability of IT Software applications I morel united them en Common objectives. of advicting buisme taracta organizetional efficiency and Security automating sewere l targeta. ?) Euphain all Dar Ops tools in datail.

Sing no single tool work ocross all areas of development to delivery. The need is to first unders the process and accordingly map the tool to be decentered by establish devops Corture in Organiz

1) Junkim : an Eux Ment devopr swomation to tol being teems, It is exentially an open dource ci/cp sever that chelps in sotomating the different Stages of delivery pipe line * Allows us to Let up and Costomize CD pipe line 20 per endividual needs. * Rurs on linun, windows & Mac OS. Mous you to iterate & deploy new Code with greater 2) Git: widely used ocross Software industries; - Git is on distributed Som (Source Code Management) Der Ops too L. Pt allows you to easily track the progress of your deproprient work, where you can some different versions of source code and return to previous one in requirement. * A face & open-source tool that dopposts most of the version control features of check-in merging, 726.72, commit, branches etc. * Requires a hosted repository such as github or bit bocket that offer unlimited private as positories. * Early to learn & mointsin with Separate branches of Bource - code that can be marged through git. 3) Nagion: One of the most popular fre & open-Source Der Ops monidaring tool it slows to monitor your

Enfrantoucture queltime do that identifying security thousts, detection of outages & error becomes carries.

*) Allow for monitoring of windows, UNIX, Ziruph was appr as well.

ovoi loib & +) fre open device with various adds on

different vissions of Negios ere; i) Nagio 2 Core -> command line tool

ii) Negios XI - web Based GUI

iii) Negios fusion - for simulforeous multiple network

iv) log berrer - Seerches log deta with automotic

a) Docker: It is one of the widely weed du lopment tooks of Der Ops his Known to provide proform independent Contegrated Contains Sewrity & sqile operations for Good natire & ligary application.

* Easily 20 tomates app deployment & make distributed development easy.

* Docker contains Support visitual machine.

Environment are preform independent.

* Build-in-Suppost for docker proilable for both google Cloud and Aws.

5) Kobernetes: ideal for large teams, this Dov Ops cointenorization. It is a powerful too? that can group containers by logical categorisation.

* It can be deployed to multiple compotent through

* Kubernets is the first container Orchestration

compren projects occus large teams.

it is primarily a design management 6) Ansible at 12 primer in Der Ops 7007, 11/18 written in Simple programming language YAML. It makes easis for Dovops teams to Scale the procur of Automotton and speed up productivity. * Board on marter Stake Drchitecturp dessure ideal Dovops tool to manage complem deployments & speed up the process of development This Dor Ops too? is mainly for checking 7) chef: the configurations & 1t's helpful en automating the enfrostructure * Assist is standarizing and enforcing the configurations continously. + chef sutomotes the whole procus and make Euro that the systems one correctly * the f belos you ensure that the configuration configured, policier romain Completry Aluible, read -eble & testable. It is an Open Sour a Configuration management 3) Puppet: tool that is used for deploying, configuring & moneging survers. * offus morter - store architecture * pupped works smooth ry for chyprid in frostructur + competible with linux, windows & UNITOS. & applications. it is disigned to make machine dote 9) sprbnk usable as wall as occurible to everyone by dequering operational entillegence to Dor Ops teams. Et it on Encellent choice of tool that make Companies more secuse, productive & Compatitive.

- & Epronk delivers a more central le collective view of IT Servi as.
 - + Essily detects petterns, rightights, anomalies and aries of impact
- 10 Gridle: In Entromely Versattle Divops tool, Gradh allows you to write your Code in various languages incloding C++, jero, python,
 - Pt 1s Supported by various IDEIR Such as net bears, Eclipse & Intelli) IDEA.
- It The Core mode? of gridle is band on tasks sections, inputs & output 2.
- + The encremental builds of Grade ellow you to Sovp 2 Substancial smount of Compile time.

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a) belles i as so the the general continuence in ward. care life. Eacho his art great or 10 de Lough · clarcis bribs were of

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