| | Name: - Yash Tarijal Class rollno: -63 Section: 91 Date 3/03/22 Page No (1) |
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| P1:- | Why is Dev Ops a major requirement in today's scenario? |
| -> | In a notshell the Devops model allows companies to cocate viable application and programmers within a much show -ter time frame, thus accelerating the speed of innovation. |
| Jost Jahon Marie M | It is a major requirement because it's a software develop -ment and operational approach that enables faster developments of new products and easy maintainage of existing deployments. |
| | Some important benefits of Devops as a major require -ment:- |
| () (§) (§) | Increased efficiency (a) faster ROI Increased efficiency (b) Improved performa Improved curtamer experience - have Continuous improve -ments. |
| 7 | Reduce failures and roll back. |
| -3 | Greater stability of IT software applications as it brings various departments such as IT product, engineering reybersecurity, operations and more and uniter them in common objectives of achieving business tagets. |
| | In this approach the roftware is seen as a tool to improve organizational efficiency and recurity by automating reveral key process. |

Explain all Devops tools in details?,

Since he single tool work accross all reas of development and delivery. The heed is to first understand the process and accordingly map the tool to be recentfully establish.

Devops culture in organization.

Tenkins: - on excellent Devops automation tool being adopted by increased number of software development teams,

it is essentially an open source CICD server that helps
in automating the different stages of delivery pipelines.

(3) Git: - widely used across software industries, Git is an distributed school school of source code management) devops tool It
allows you to easily track the progress your development work,

return to pévious one as when required.

Nagios: - One of the most popular free and open-rource

Devops monitoring tool, Nagios allows you to

monitor your infrastructure real time to that identifying

security threats, detection of outages and error becomes

earjer.

Docker:- it is one of the widely used development tool of

Per ops and is known to provide platform indepen

-dent integrated container seconity and agile operations

for cloud native and legacy applications-

- (5) Kuberheter:- ideal for large teams, this Dev Ops tool is built on what docker started in the field of containazation. It is a powerful tool that can growp containers by logal categorisation.
- Anible:- It is priminarly a design management and organization dev Ops tool. It is written in simple programming language 4AML. It makes easier for Dev Ops teams to scale the process of automation and speed up productivity.
- (7) Chef: this devops tool is mainly used for checking the configurations and it is helpful in automating the infrastructure.
- Puppet:-it is an open source configuration management tool that is used for deploying , configuring and managing servers.
 - 9 Splonk: it is designed to make machine deta usuable as well as accessible to everyone by delivering operational intelligence to Devops teams.

It is an excellent choice of fool that make companies more serve, productive and competitive.

Go Gradle: - an extermely versatile Dev Ops tool, Gradle allow

you to write your code in various languages including

C+T, Java, by then among others. It is supported by various

10f's such as het heaps. Eclipse and Intellit IDEA.