Assignment-2

Kathkay Kapil Sec-D

Rollno -51

O why is dwops a major requirement in Today's scenario ? Devops is an organizational approach that enables faster development of applications and easier maintenance of existing deployments. By enabling organizations to create stronger bond

between Der, Ops and other stakeholders.

· Maximizes Efficiency with Automation.

· Optimizes the Entire Businers.
· Improve 8 peed and stability of software development and

· Cets you to focus on what matter most.

· Cloud Optimization.

Actomation will play major role.

(9) Explain all the Devops took in Detail.

Devops Tools address the key phases of the Devops lifecycle. They empower Devops practices by helping to improve collaboration, reduce context-switching, introduce automation, and enable observability and monitoring.

yde > Plan -> Build -> CI/CD

feedback Monitor Continuous ~ operate

Plan: - Jira Software, Confluence, slack.

Build: - Kubernetes, Docker.

totale lypet Developers use open source took like Kubernetes and Docker to provision individual development envisonments.

Infrastructure as code:

It means re-provisioning is faster than repairing- and more consistent and reproducible. It also means you can easily spin up variations of your development environment with similar configuration as production. Provisioning code can be applied and reapplied to put a serverinto a Known baseline. It can be stored in version control. Bitbucket Cuithub Cuitlab

Jenkins, AWS, Bitbucket, circleci, snyk, sonarsource CI: It is the practice of cheking in code to a shared repository several times a day, and testing it each time. mabl Savrcelabs xRay zephyr

Test: Jira Software.

Deployment dashboards: · Bitbucket AWS Codefipeline