

## Assignment 2

Q. Why is DevOps a major requirement in today's scenario?

Ans. As we know that DevOps is inherited by SDLC models and developers & users faced many problems in SDLC model so <sup>it</sup> rise the development of DevOps.

DevOps is required as both development and operational team work together and enables faster development of new products and easier maintenance of existing deployments. DevOps is not a technology but it is a methodology that covers everything  $\leftarrow$  from the organizations to culture, processes & coding. Initial steps usually includes continuous integration & continuous delivery, real time monitoring, incident response systems & collaboration platforms.

Q. Explain all devops tools in details.

Ans. DevOps tooling ecosystem.

Planning, coding, building, testing, deployment, operations, management & CD.

② Planning & coding tools for DevOps -

a) Git - fully distributed & keeps track of different software version.

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- b) Jira - s/w projects & s/w product development
- c) Subversion - Apache License.

Build Tools

- a) Maven = Config Build
- b) Gradle

Testing Tools

C - TDD

→ Junit, unit testing

→ Selenium = Testing language