

DevOps, Assignment-2

Q1) Why is DevOps a major requirement in Today's scenario?

Ans: DevOps is no more than a set of processes that coordinate to unify development teams and processes to complement software development.

The main reason behind DevOps popularity is that it allows enterprises to create and improve products at a faster pace than traditional software development methods.

- Shorter Development cycles, Faster Innovation
- Reduce Implementation Failure, Reflections & Recovery Time
- Better Communication and Cooperation
- Greater Competencies
- Reduce Costs and IT Stuff

Q2) Explain all DevOps tools in details.

Ans: While DevOps is culture, the right stack of tools makes it possible to implement DevOps successfully. At its core and perhaps the most remarkable concept that the DevOps approach ever brought is the collaboration b/w the software development and operations teams.

• DevOps tools:

- 1) Version Control Tool :- Git
- 2) Build Tool :- Maven



3. Continuous Integration Tool : Jenkins
4. Configuration Management Tool : Chef
5. Configuration Management Tool : Puppet
6. Configuration Management Tool : Ansible
7. Container Platforms : Docker
8. Container Platforms : Kubernetes
9. Communication & Collaboration : Slack
10. AWS Cloud Computing & Storage in DevOps
11. Azure Cloud Computing & Storage in DevOps
12. Google Cloud Platform Cloud Computing & Storage in DevOps
13. Testing tool : Selenium, Gremlin
14. IT Ticketing : ServiceNow