

Q1. Why devops is a major requirement in today's scenario?

Devops combined development and operation tasks together to complete software development. It allows organisation to create and improve products with a faster rate than they can do with traditional methodology and QA approaches of software development.

Why devops should be used in today's scenario:

1. Shorter development cycle, faster innovation.
2. Reduced deployment failures and rollbacks.
3. Improve collaboration communication.
4. Increase efficiency
5. Reduce cost and IT headcount

Q2. Explain all devops tools in detail

1. **Puppet:** It is most widely used devops tool. It allows delivery and change of technology changes quickly and frequently. It has features of versioning, customise testing and continuous delivery. It allows to maintain entire infrastructure as a code without expanding the team.

2. **Ansible:** It is easy to deploy because it doesn't use any agent or custom security infrastructure at client side and by pushing modules to client. These modules are run locally on the client side and the result is push back to the ansible server.

3. **Docker:** It is the highest devops tool that allows building, ship and run distributed applications on multiple systems. It allows to assemble the app quickly from the components and typically suitable for container management. It allows saving secret into swarm itself.