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Direction: Identify the following questions

1. Give at least 5 DevOps Tools with brief explanation

1.GitHub -one of the largest and most advanced development platforms in the world. Millions of developers and companies build, ship, and maintain their software on GitHub. Some of its’ salient features are:

2.GitLab- It is an all-in-one DevOps Tool for rapid software delivery. It enables teams to perform all tasks right from Planning to SCM to Delivery to Monitoring and Security. Following are a few of its features:

* Single interface, single conversation thread, and single data store to manage projects effectively – Single source of truth.

3. Mesos- DevOps tool to manage computer clusters. It is a distributed systems kernel for resource management and scheduling across entire datacenter and cloud environments.

* Offers native support to launch containers with Docker and AppC images.
* Supports cloud-native and legacy applications to run in the same cluster with pluggable scheduling policies.
* Runs on cross platforms like Linux, OSX and Windows.

4. Datadog- SaaS-based DevOps tool for server and app monitoring having hybrid cloud environments. It facilitates monitoring of Docker containers as well. Some of its salient features:

* Seamlessly aggregates metrics and events across the full DevOps stack.
* Offers end-to-end user experience visibility in a single platform.
* Prioritizes business and engineering decisions with user experience metrics.

5. Ranorex- An all-in-one solution for any type of automated testing, whether it is cross-browser testing or cross-device testing.

1. Give at least 5 advantages and 5 disadvantages of DevOps

Advantages:

* Clear product vision within the team
* Increased deployment success rates
* Increased product quality
* Better team efficiency
* Improved flexibility and support

Disadvantages:

* Lowered business security by outsourcing the DevOps operations
* Dealing with the legacy system is a challenge
* Practicing security for CI/CD is a separate affair
* Getting the right pool of DevOps expertise is a challenge
* Challenges with the number of tools and switching tools

3. Give at least 2 common problems does DevOps solve?

1. Software Delivery times

2. Issue in enhancing the productivity of the development

4.How DevOps help solved the problem of an organization?

DevOps solve the problem of an organization by reducing software delivery times, improves application quality, and enhances the productivity of the development and operations teams. In recognition of this trend, many organizations are interested in automating their software release and deployment processes.

5.How to implement DevOps Successfully?