1. Is Spring Cloud built on Spring boot?  
     
   ***Spring Cloud builds on the concepts of Spring Boot*** to solve some of the problems that developers encounter when building microservices. Spring Cloud incorporates both Spring Framework's unified programming model and Spring Boot's rapid application development capabilities
2. Advantages of Microservices?

* Microservices are self-contained, independent deployment modules.
* The cost of scaling is comparatively less than the monolithic architecture.
* Microservices are independently manageable services. It can enable more and more services as the need arises. It minimizes the impact on existing services.
* It is possible to change or upgrade each service individually rather than upgrading the entire application.
* Microservices allow us to develop an application that is organic (an application that latterly upgrades by adding more functions or modules) in nature.
* It enables event streaming technology to enable easy integration in comparison to heavyweight interposes communication.
* Microservices follow the single responsibility principle.
* The demanding service can be deployed on multiple servers to enhance performance.
* Less dependency and easy to test.
* Dynamic scaling.
* Faster release cycle.

1. Advantage of SpringBoot Framework ?

* It is **micro-service ready**.

1. API Gateway security - encrypted keys , key value pairs, access tokens chassis keys , Messaging queues
2. Which provides the Circuit Breaker feature in Spring Cloud ?
   1. Spring Cloud Eureka
   2. Spring Cloud Hystrix
   3. Spring Cloud Feign
   4. Spring Gateway
3. Which provides load balancing in Spring cloud?
   1. Spring Cloud Eureka
   2. Spring Cloud Hystrix
   3. Spring Cloud Feign
   4. Spring Gateway
   5. Spring Cloud Ribbon
4. What is the difference between Microservices oriented Architecture (MOA) and Service-oriented Architecture?
   1. An SOA uses intermediation technology to facilitate communication between services
   2. An MOA shares as little data as possible while an SOA shares as much data as possible
   3. A developer can run a monolithic application with SOA principles
   4. MOA communicates through an API layer. SOA communicates through ESB.
   5. All the Above
5. What is true about Spring cloud Eureka?
   1. It’s a configuration application
   2. It’s a coding template
   3. It’s a security module
   4. It’s a discovery server
6. Main features of Microservices?

Ref : <https://dzone.com/articles/6-defining-features-of-microservices>

* 1. Microservices architecture breaks an application into smaller services, and it is possible to develop , deploy each service independently.
  2. Decentralization
  3. Polygot
  4. Black Box
  5. Security

1. Which of these is not a form of Spring Cloud library?

<https://www.proprofs.com/quiz-school/quizshow.php?title=3dq-what-do-you-know-about-spring-cloud&q=2>

* 1. Spring Commons
  2. Spring Compact
  3. Spring Cloud Context
  4. None

1. What are the steps to End-to-End Microservices Testing?
   1. Define what you expect from e2e testing?
   2. Define the scope of the system to be tested
   3. Perform authentication in a test environment
   4. Choose a testing framework that addresses most of the issues
   5. Test asynchronous flows