Microservices Interview Questions

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Q1) What is Spring Cloud in the realm of Microservices?

It is that kind of a feature in the realm of Microservices which would provide integration with the outside systems. It is also known as a short-lived Microservices framework that has the ability to build applications in a quick fashion. Moreover, it plays an important function in Microservices as it is associated with finite amounts of processing of data.

Q2) Shed light on the architecture of Microservices

It is that kind of an architecture that facilitates the avoidance of huge application implementation for a large system. It is associated with the providence of loose coupling that takes place between various collaborating procedures. On the other side, it has the ability to run in an independent manner under various types of situations.

Q3) Describe the way in which you can set up service discovery

Although a large number of ways are there in setting up service discovery, you have to use Eureka created by Netflix. This is usually a very hassle-free process that is not heavy on the application. Also, it can suit a variety of applications which is quite good.

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Q4) What do you mean by Eureka in the realm of Microservices?

Eureka is also known as the Netflix Service Discovery Server. This uses Spring Cloud and is most often known as the most used setup to start service discovery. It is also not that heavy on the application development process. This is the reason that it is quite popular among the developers of today.

Q5) Shed light on the ways by which you can access a RESTful Microservices

These are the following ways with the help of which you can use a RESTful Microservice.

With the use of the load balanced rest template
With the use of multiple Microservices, you can easily use a RESTful template
If you have been given a large number of RESTful templates, then always make sure that you use the right one

Q6) Describe the process by which you can balance the server-side load by utilizing Spring Cloud

It is interesting to note that the balancing act in case of achieving server-side load can be achieved by the utilization of Netflix Zuul. The Zuul is also known as a JVM based router. It is also regarded as a load balancer by Netflix. This is the reason that it always facilitates a single entity to the system.

Q7) Can you integrate Zuul with other types of projects?

Yes, Zuul can be integrated with other types of Netflix services that are known as Hystrix. It is especially meant for tolerance of various types of faults that are commonly present in Eureka. By tolerating various kinds of faults, service discovery can be made easier within the realm of Microservices. One can also use it to manage routing tables and effective balancing of the load across the system.

Q8) Shed light on the basic need of Microservices in today's context of application development

Microservices are also known as a new pattern in the realm of software development. It has assumed importance owing to the fact that it has the ability to increase speed and efficiency. It can also manage software solutions in an effective manner. Some also call it as an approach to process and culture which delivers business value in an increased manner. In today's context of application development, it plays a very crucial role as it can be deployed in the development process of a monolithic application in an efficient manner.

Q9) Describe the circumstances under which you would use the Netflix Hystrix

It is a commonly accepted fact that Hystrix is also known as an error tolerance and latency library. The main purpose of Hystrix is to make sure that it isolates the access points. On the other hand, with the help of these access points, the remote systems can be easily reached. It also makes sure that it restricts the widespread use of 3rd party libraries as well as services. In this manner, it ensures that an application runs in an efficient manner. It is also quite effective in prohibiting the failure that frequently takes place in distributed systems that are quite complex in nature.

Q10) Define the process by which you can easily deploy Spring Batch Tasks with reference to Microservices

The task related to Spring Batch is also known as a simple interface that has just one method to execute. With the help of this feature, you can easily perform singular tasks that relate to deleting and file queries. An example of Spring Batch in the Microservices segment can be in the form of Hello World.

Q11) Shed light on Tasklet with reference to Spring Batch and Microservices

It is important to note that Spring Batch easily provides a Tasklet interface with the help of which the application can perform a single task. It can also clean and delete the various types of resources that are needed before the final execution step.

Q12) Define the Spring Batch Framework with respect to Microservices

It is a batch framework that is quite comprehensive and is light in weight on the application. Its lightweight nature is a great source of positivity in the realm of Microservices. This is so because it is designed in such a manner that it can facilitate the development of robust batch applications. It is that kind of a feature in the realm of Microservices that can easily build upon productivity. It is especially used in the development of enterprise applications that are necessary to make sure that the applications developed are able to meet the set standards of a particular organization.

Q13) Shed light on the way by which you can disable the endpoint of Actuator in the realm of Spring Boot

At the time of answering this question, you should be well aware of the fact that all the insightful HTTP endpoints are protected. Hence, the developer with the role of an actuator can only access them. On the other hand, to make this answer more credible, you should also add that security can be enforced by the utilization of a user-specific request. This request can be made to the batch frameworks also so that the application runs in a smooth manner.

Q14) What do you know about YAML in the realm of Microservices?

You should always note that YAML is also known as an individual legible language. Many experts also call it a language that can result in the sterilization of data. Hence, basically, it denotes that it can be used to cleanse data. This has a great advantage on the Microservices network. As compared to the other files of various properties, the YAML file is said to be more organized in manner. On the other hand, it is also less confusing and hence it provides easy accessibility to a variety of web developers. However, it is also vital to note that YAML possesses the hierarchical form of data that has played an essential role in the swift development of various applications.

Q15) Shed light on the various aspects of using Spring Profiles

In the context of Microservices, the Spring Profiles play an essential role. It is so because it allows the users in the process of registering various beans. However, the registration process of beans is always

dependent on various ways by which the application has been executed. Hence, if you are running the application in the DEVELOPMENT mode, you would witness that a certain number of items can be encumbered in an easy manner. On the other hand, during the time of production, the other items can also be loaded. With the widespread use of Spring Boot, it has become relatively quite easy to make sure that all the profiles can be easily booted. This makes sure that the developed application is running free of errors and is light on the interface.

Q16) Define caching with respect to the environment in which Microservices operate

It is a commonly observed fact that the cache is that kind of an area in the local memory that has the ability to hold the copy of frequently researched data. In other words, if you have cache accumulated in the application, the application speeds up in a phenomenal manner. On the other side, you can also use the cast function to control the amount of cache you want.

Q17) Do you frequently use the framework related to integration with that of the Spring Boot?

While answering this question, you can always say that you have used Apache Camel (https://mindmajix.com/apache-camel-training) and have experience in integrating with the Spring Boot function. You can also say that you have used the Apache Camel Boot starter in the environment of Microservices.

Q18) Shed light on AOP and also describe the way in which you can use it with Microservices

At the time of answering this question, you should always focus on the concerns of cross-cutting. The concerns of cross-cutting are the ways that extent numerous roads of a particular application. In this context, it is interesting to note that the concerns of cross-cutting usually fluctuate from the business logic of a particular application. This is the reason that the separation of the concerns related to the cross-cutting nature is always a primary step that has to be taken in the application development process. AOP is also known as characteristic oriented programming that goes a long way in making sure that business logic is applied correctly to enterprise based applications.

Q19) Define the process with the help of which you can deploy exception handling in the realm of Microservices

It is important to note that Microservices and spring usually provides a unique manner in which you can control the Controller Advice. You can say that you have the experience of deploying a class of Controller Advice with the help of the exceptions that are being used by the class of controllers.

Q20) Describe the advantages of Microservices nowadays

There are various advantages of using Microservices. They are as follows:

The tiny base of code is quite easy to maintain
It is quite easy to scale as it has only an individual component
It also supports the phenomenon of independent implementation
It drastically reduces the installation time
It renders good support for the parallel and the support teams

Another main advantage of this Microservices is in the form of the fact that it has the ability to facilitate technological diversity

Q21) Shed light on the various types of IT characteristics that are available in Microservices

With the help of Microservices, your business can scale new heights as it integrates IT planning and execution of projects. Here is the list of important IT characteristics those are available in Microservices.

Planning of various types of IT projects
Management of facilities
Implementation of several types of Agile Practices (https://mindmajix.com/agile-project-management)
The allocation of shared services
Management of the business cases
Maintaining transparency is various aspects of cost along with the planning of IT management

Q22) What are the uses of reports and dashboards in the environment of Microservices?

It is vital for you to note that Microservices comprises of a plethora of publishing features. This includes a variety of charts, PDFs, and dashboards. With the help of dashboards and reports in Microservices, you can easily analyze scenarios and facilitate various types of executive packs.

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