1. **What is microservices?**

Microservices is an architectural style that structures an application as a collection of services that are.

* small and Independent
* Highly maintainable and testable
* Loosely coupled
* Independently deployable
* Organized around business capabilities
* Owned by a small team

The microservice architecture enables the rapid, frequent and reliable delivery of large, complex applications. It also enables an organization to evolve its technology stack.

1. **Challenges with monolithic oriented architecture.**

* Difficult to Manage
* Complicated to Understand
* Making changes need to redeploy the whole application
* Development Test and Release Cycle
* Not Reliable
* New technology barriers
* Operations are nightmare

1. **Any three advantage and disadvantage of microservices.**

* **Advantages**
* Technological Flexibility
* Less dependency and easy to test
* Agility (easier to manage bug fixes and feature releases)
* Fault isolation
* Data isolation
* **Disadvantages**
* Complexity
* Communication between services is complex
* Difficult to manage a large number of services
* Complicated Development and testing

**References:**

* <https://docs.microsoft.com/en-us/azure/architecture/microservices/>
* <https://microservices.io/>
* <https://dzone.com/articles/9-fundamentals-to-a-successful-microservice-design>
* <https://www.n-ix.com/microservices-vs-monolith-which-architecture-best-choice-your-business/>
* <https://www.geeksforgeeks.org/monolithic-vs-microservices-architecture/>
* <https://cloudacademy.com/blog/microservices-architecture-challenge-advantage-drawback/>