**Q1. What are Cloud Native Microservices?**

**Answer:** Cloud Native Microservices refer to a software architecture approach where applications are developed as a collection of small, independent services that run in a cloud environment. This approach involves breaking down complex monolithic applications into smaller, more manageable services that can be developed, deployed, and scaled independently.

Here are some key characteristics of cloud native microservices:

1. **Scalability:** Microservices are designed to be easily scaled up or down to meet changing demands. Each service can be deployed independently, making it easier to add or remove resources as needed.
2. **Resiliency:** Cloud native microservices are designed to be resilient in the face of failures. Each service is developed and deployed independently, reducing the risk of a single point of failure in the application.
3. **Agility:** Microservices are developed using Agile methodologies, allowing developers to quickly adapt to changing requirements and deliver new features and functionality.
4. **Flexibility:** Cloud native microservices can be developed using different programming languages and frameworks, allowing developers to choose the tools that best fit their needs.
5. **Containerization:** Microservices are often packaged as containers, allowing them to run in any environment that supports containerization, such as Kubernetes.
6. **DevOps:** Cloud native microservices are often developed and deployed using DevOps methodologies, which emphasizes collaboration between developers and operations teams to ensure fast, reliable, and automated deployment and testing.

Overall, cloud native microservices provide a flexible, scalable, and resilient approach to application development that is well-suited for cloud environments. This approach allows developers to quickly develop and deploy new services, while also ensuring the reliability and scalability of the overall application.