# **Explain microservices architecture**

1. to build the highly scalable echo system as Collection of small autonomous service developed for a business domain.

Name three commonly used tools for Microservices

1. Mocking API - Wiremock/ Tyk
2. Docker
3. Hysrix .
4. 4: Schedulers: Swarm versus Kubernetes : use Kubernetes to orchestrate their framework deployments.
5. Prometheus' query language makes it easy to gather germane monitoring information quickly.

**Messaging**

1. RabbitMQ
2. Amazon Simple Queue Service (SQS)
3. Apache Kafka
4. Google Cloud Pub/Sub

**Monitoring**

1. Logstash
2. Graylog

**Kube Development**

1. Kubernetes
2. Telepresence
3. Minikube

**Orchestration**

1. Conductor : is Netflix’s microservices orchestration engine

**Programming Languages**

1 Spring Boot

**Toolkits**

1. fabric8: fabric8 helps devs provides configuration management system through git, handles IP address complexity and port mappings,

**Seneca** :Build message-based microservice processes with ease

**19. Google Cloud Functions** :Google Cloud Platform’sCloud Functions (BETA) are lightweight, serverless, and easy to deploy and maintain.

**Serverless Tools**

**24. Serverless**

This tool does exactly what it says; a console which combines FaaS/serverless technology with other

cloud services to help devs build complicated systems. Serverless also offers scalability, integrated security,

and improved operability.

**25. Kubeless** is a Kubernetes-native serverless framework that lets you deploy small bits of code without

having to worry about the underlying infrastructure plumbing.

**26. IronFunctions**

IronFunctions is an open source serverless platform or FaaS platform that you can run anywhere.

IronFunctions is written on Golang

**27. AWS Lambda**

AWS Lambda provides infrastructure-less servers for your microservices build and you’re charged on a pay-per-use rate.

Lambda can also be used in combination with AWS API Gateway

**28.OpenFaaS**

An open source serverless software program that promises “Serverless functions made simple.”

OpenFaaS helps you package any process or container as a serverless function for either Windows or Linux.

**29. Microsoft Azure Functions**

Event-driven, compute-on-demand functions that enhance Azure’s existing application capabilities.