1) What do you understand by the term microservice Architecture?

Microservice Architecture is an approach where a large application is built as a collection of small independent services, each responsible for a specific functions

2) What are the typical characteristics of microservice architecture?

Scalability

Loosely coupled

Small, independ service

3) What is monthic Architecture?

traditional approach entire application is built as a single unified codebase

4) hey difference between microservices and monithic Architecture?

Microservices are small independent service

5) Difference between MSA and SOA ?

MSA has smaller, more focused services,
SOA often has larger, reusable services

6) What is an API, and how does it help microservices communicate ?

API allows microservices to communicate by defining how request and responses are structured between services

7) What do you understand about presentation Layer, Logical, Layer and Data layer ?

Presentation layer

User Interface of the application

Logical layer

Handles the business logic

Data layer

manages data storage and retrieval

8) Which protocol is commonly used to communicate between microservices?
Http / Rest or grpc

9) Inwhatdo you understand by the team Decentra Data management in microservices Architecture?
this mean each mkroservice, manages its own database, reducing inter-service dependence

10) How do microservices typically communicate with eache other?
Microservice communicate via Api, using protocol like Http Rest or messaging ques

11) How do microservices handle data consisten access different services?
This using eventual consistency and distributed transactions

12) What is Docker and how does it relate to microservice architecture?
Docker is a containerized platform that

packages microservices and their dependencies making them easy to deploy

14) How do microservices handle security such as authentication and authorization?
Using techniques like JWT and API gateway for authentication and authorization

15) What happens if one microservice fails in microservice Architecture?
other services remain functional the system can use fault tolerance strategies like retries

16) How can microservices be deployed independently of each other?
Through using containers, orchestration tools like kubernetes client pipelines

17) Can you give an example of a real-world component that uses microservices?
Netflix uses microservice to scale and handle million of users

19) What are the benefit of microservice architecture

Scalability
flexibility
Easier debugging

14) What are the disadvantage of microservice Architecture

~~complexity~~
~~communication overhead~~

complexity
communication overhead

20) What is the design principal of microservice Architecture ?

~~S~~ Scalability
independence
~~Zero~~