Design , Api monitoring tool

What are the things need to consider for application health checks?

And while monitoring what are the parameter we need to consider

**Microservice Architecture and its 10 Most Important Design Patterns**

Microservice Architecture,

Database per Microservice,

Event Sourcing,

CQRS - implements queries that span services

Saga - implements transactions that span services

BFF,

API Gateway,

Strangler,

Circuit Breaker,

Externalized Configuration,

Consumer-Driven Contract Testing

What are the steps to create microservice?

Branch and API first pattern.

Proxy pattern

centralized logging

12 factor pattern

Transactional patterns

2 phase commits

saga

outbox pattern

* **Explain the micro service architecture in your project?**
* **What are the differences between monolithic and micro services?**
* **What are the challenges of designing micro service based application?**
* **What are the benefits of micro services based application?**
* **Why do you prefer kafka over http calls for communication among microservices?**
* **Give example, where do you use http for communicating with another micro service?**
* **Why do you choose kafka over other message broker?**
* **How do you monitor your micro services? Grafana**
* **How do you add performance logs your application? Would you add logs everywhere? or are you going to use AOP?**
* **How do you measure/monitor performance of your application?**
* **What kind of security has been used in your application? How do you secure your micro services?**
* **If any mircorservice is taking long time to process, how do you handle it? How will inform end user? How do you handle timeout?**
* **When do you use websocket and when do you use http?**
* **What is event sourcing? How do you implement it?**
* **What is CQRS? In what scenario, will you implement CQRS?**
* **What are the pros and cons of CQRS?**
* **What is SAGA? When do you implement it?**
* **What are the pros and cons of SAGA?**
* **What is SAGA outbox pattern?**
* **How do you make your micro services resilient?**
* **What is API gateway? How it is different from service discovery?**
* **What is externalized configuration?**