

What is a microservice?

Select one:

- OA. A design used primarily in functional programming and object-oriented programming
- OB. A style of design for enterprise systems based on a loosely coupled component architecture
- OC. A very small piece of code that never gets any bigger than 10 lines
- OD. A small program that represents discrete logic that executes within a well-defined boundary on dedicated hardware

Answer : B. A style of design for enterprise systems based on a loosely coupled component architecture

When would developers use microservices?

- A. When they create applications specifically for scientific test equipment
- B. When they need to create large, enterprise-level applications that are subject to changes on a frequent basis
- C. When they work with ephemeral nano technology
- D. When they want to write cell phone applications that run quickly

Answer B. When they need to create large, enterprise-level applications that are subject to changes on a frequent basis

Which of the following responses is an advantage of microservices?

Select one:

- A. They're so small that developers can typically write very powerful ones with a few lines of text
- B. Any microservice component can change independently from other components
- C. They are easy to manage

D. They don't require a lot of expertise to program

Answer : B. Any microservice component can change independently from other components

What does the term "bounded context" mean in relation to microservices?

Select one:

A. The logical domain represented by the data consumed and emitted by a microservice according to the a

B. How a microservice uses memory

C. The cloud provider's region where the microservice operates

D. The common characteristics within a collection of entities in one or many business domains

Answer A. The logical domain represented by the data consumed and emitted by a microservice according to the a

How is distributed tracing used in microservices?

Select one:

A. As a mechanism to observe the behavior of distinct system calls between and within microservices

B. As a mechanism to transfer log management between a given host on demand

C. As a mechanism to ensure that failed microservices are resurrected properly

D. As a mechanism to change the behavior of a microservice at runtime

Answer A. As a mechanism to observe the behavior of distinct system calls between and within microservices

What is a popular Java framework to develop microservices?

Select one:

- A. None of the above
- B. Spring Boot
- C. Eclipse MicroProfile
- D. Both A and B

Answer: Both A and B

How does a backing service apply to microservices?

Select one:

- A. It acts as a dedicated service that provides essential functionality required by a microservice
- B. It coordinates network activity between microservices
- C. It shuts down a microservice when it can no longer handle the computing load
- D. It prevents a microservice from failing

Answer A. It acts as a dedicated service that provides essential functionality required by a microservice

Which of the following responses is a disadvantage of microservices?

Select one:

- A. Microservices are very difficult to manage at scale
- B. Microservices require a lot of monitoring to operate effectively
- C. Neither A nor B
- D. Both A and B

Answer D. Both A and B

What's the difference between a microservices-oriented architecture (MOA) and a service-oriented architecture (SOA)?

- A. An SOA uses intermediation technology to facilitate communication between services
- B. An MOA shares as little data as possible while an SOA shares as much data as possible
- C All the above
- D. A developer can run a monolithic application with SOA principles

Answer C. All the above

What are some technologies commonly used to implement microservices?

Select one:

- A. Docker
- B. Kubernetes
- C. Both A and B
- D. python

Answer : C. Both A and B