



## Professional Cloud Developer

v2309

### Quiz questions: Cloud Pub/Sub\*

*\* These are for practice only and are not actual exam questions*

#### **What is Pub/Sub?**

- A. A synchronous and scalable messaging service
- B. An asynchronous and scalable messaging service
- C. A messaging service that couples services producing messages from services processing those messages
- D. A messaging service that does not decouple services producing messages from services processing those messages

#### **What are the benefits of using Pub/Sub?**

- A. It allows services to communicate asynchronously with latencies on the order of 100 milliseconds.
- B. It can be used for streaming analytics and data integration pipelines to ingest and distribute data.
- C. It can be used as a messaging-oriented middleware for service integration or as a queue to parallelize tasks.
- D. All of the above

**Which of the following is a benefit of using Pub/Sub for asynchronous microservices integration?**

- A. It decouples microservices, making them more scalable and resilient.
- B. It provides low-latency delivery of events.
- C. It is easy to set up and use.
- D. It allows microservices to communicate with each other synchronously.

**A SaaS application wants to provide a real-time feed of events to its subscribers. Which Pub/Sub client solution is best suited for this use case?**

- A. Push subscriptions with serverless webhooks on Cloud Functions
- B. Pull delivery with custom environments on Kubernetes Engine
- C. Both push subscriptions and pull delivery
- D. Neither push subscriptions nor pull delivery

**A company wants to create an enterprise-wide real-time data sharing bus to distribute business events, database updates, and analytics events across its organization. Which Pub/Sub client solution is best suited for this use case?**

- A. Load balancing for reliability
- B. Parallel processing and workflows
- C. Real-time event distribution
- D. Enterprise event bus

Answers

### **What is Pub/Sub?**

(B) Pub/Sub is an asynchronous and scalable messaging service. This means that it allows services to communicate with each other without having to wait for a response. This can be important for applications that need to handle a high volume of messages or messages that need to be processed quickly.

<https://cloud.google.com/pubsub/docs/overview>

### **What are the benefits of using Pub/Sub?**

(a)

- **Asynchronous communication:** Pub/Sub allows services to communicate asynchronously, which means that they do not have to wait for a response from each other. This can improve the performance and scalability of applications.

- **Scalability:** Pub/Sub is designed to be scalable, so it can handle a high volume of messages. This makes it ideal for applications that need to process a lot of data.
- **Flexibility:** Pub/Sub can be used for a variety of purposes, including streaming analytics, data integration, and service integration. This makes it a flexible solution for a variety of applications.

<https://cloud.google.com/pubsub/docs/overview>

**Which of the following is a benefit of using Pub/Sub for asynchronous microservices integration?**

(A) Pub/Sub decouples microservices by allowing them to communicate with each other asynchronously. This means that microservices do not have to wait for each other to respond, which makes them more scalable and resilient.

<https://cloud.google.com/pubsub/docs/overview>

**A SaaS application wants to provide a real-time feed of events to its subscribers. Which Pub/Sub client solution is best suited for this use case?**

(A). Push subscriptions with serverless webhooks on Cloud Functions is the best Pub/Sub client solution for this use case because it allows the SaaS application to send real-time events to its subscribers without having to worry about managing infrastructure. Cloud Functions will automatically scale to handle any increase in traffic, and the SaaS application can focus on developing its business logic.

<https://cloud.google.com/pubsub/docs/pubsub-basics>

**A company wants to create an enterprise-wide real-time data sharing bus to distribute business events, database updates, and analytics events across its organization. Which Pub/Sub client solution is best suited for this use case?**

(D) The enterprise event bus is a Pub/Sub client solution that allows companies to create an enterprise-wide real-time data sharing bus. The enterprise event bus can be used to distribute business events, database updates, and analytics events across the company.

<https://cloud.google.com/solutions/event-driven-architecture-pubsub>

<https://cloud.google.com/pubsub/docs/pubsub-basics>

<https://cloud.google.com/pubsub/docs/overview>