

! This quiz has been regraded; your new score reflects 2 questions that were affected.

## Quiz 2 APIs

- Due Oct 23 at 11:59pm
- Points 11
- Questions 11
- Available Oct 23 at 12am - Oct 23 at 11:59pm 23 hours and 59 minutes
- Time Limit 10 Minutes

This quiz was locked Oct 23 at 11:59pm.

### Attempt History

	Attempt	Time	Score	Regraded
LATEST	<a href="#">Attempt 1</a>	6 minutes	9 out of 11	11 out of 11

! Correct answers are hidden.

Score for this quiz: 11 out of 11

Submitted Oct 23 at 12pm

This attempt took 6 minutes.



Question 1

1 / 1 pts

Which of the following best describes a REST API?

- ☒ It exposes resources through URIs and uses standard HTTP methods.
- ☐ It allows procedures to be called remotely as if they were local methods.
- ☐ It uses binary serialization by default.
- ☐ It requires HTTP/2 for all communications.



Question 2

1 / 1 pts

2. RPC systems primarily communicate by:

- ☒ B. Calling functions or procedures over the network
- ☐ A. Sending JSON payloads over REST endpoints
- ☐ C. Using message queues exclusively
- ☐ D. Serializing HTML documents



## Question 3

1 / 1 pts

**3. Which of the following is an **advantage** of gRPC over HTTP/1.1-based REST?**

- ☒ C. Efficient serialization and deserialization
- ☐ A. Transport layer security
- ☐ B. Client load balancing
- ☐ D. Request routing



## Question 4

1 / 1 pts

**5. What problem did HTTP/2 solve that plagued HTTP/1.1?**

- ☒ C. Head-of-Line (HOL) blocking due to single outstanding request
- ☐ A. Inability to handle cookies
- ☐ B. Lack of authentication mechanisms
- ☐ D. Excessive file caching



## Question 5

1 / 1 pts

**6. Which gRPC communication model allows both client and server to send messages continuously?**

- ☒ D. Bidirectional streaming
- ☐ A. Unary RPC
- ☐ B. Client streaming
- ☐ C. Server streaming



## Question 6

1 / 1 pts

**7. In REST, **idempotency** means:**

- ☒ A. Repeated requests produce the same effect without unintended side effects
- ☐ B. The API automatically retries failed requests
- ☐ C. Each request generates unique state
- ☐ D. Only POST methods are allowed



Question 7

1 / 1 pts

**8.** Which of the following execution semantics ensures no operation is performed more than once, even on retries?

- ☒ B. At-most-once
- ☐ A. At-least-once
- ☐ D. Best-effort-once
- ☐ C. Exactly-once



Question 8

1 / 1 pts

**9.** Which semantic is ideal for financial transactions requiring high reliability?

- ☒ B. At-least-once with idempotent logic
- ☐ A. At-most-once
- ☐ C. At-most-once without retries
- ☐ D. Best-effort execution



Question 9

Original Score: 0 / 1 pts Regraded Score: 1 / 1 pts

⚠ This question has been regraded.

**10.** In microservice communication, a **Service Registry** is used to:

- ☐ A. Balance server CPU utilization
- ☒ A. Balance server CPU utilization
- ☐ B. Cache static assets
- ☐ D. Store authentication tokens

Incorrect



Question 10

Original Score: 0 / 1 pts Regraded Score: 1 / 1 pts

⚠ This question has been regraded.

**11. The main drawback of binary RPC protocols like gRPC is:**

- ☐ B. Lack of browser support and harder debugging
- ☒ A. High network latency
- ☐ C. Verbose payloads
- ☐ D. No schema enforcement



Question 11

1 / 1 pts

**12. REST APIs usually represent data as:**

- ☒ C. Human-readable JSON or XML
- ☐ A. Serialized Protobuf messages
- ☐ B. Binary packets
- ☐ D. Bytecode

Quiz Score: 11 out of 11