



review



review questions

**AWS API Gateway
V1.00**



Course title

**BackSpace Academy
AWS Certified Associate**



This "learning by quizzes" exercise will be based upon the course videos and the following reference material:

Section: What Is Amazon API Gateway?

Reference: Amazon API Gateway Developer Guide

<https://docs.aws.amazon.com/apigateway/latest/developerguide/welcome.html>

Question

When an API is throttling, further requests receive _____ error.

Answers

- A. 529 Too Many Requests
- B. 404 Too Many Requests
- C. 429 Too Many Requests
- D. 329 Too Many Requests

C

To prevent your API from being overwhelmed by too many requests, Amazon API Gateway throttles requests to your API using the token bucket algorithm, where a token counts for a request. Specifically, API Gateway sets a limit on a steady-state rate and a burst of request submissions against all APIs in your account. In the token bucket algorithm, the burst is the maximum bucket size.

When request submissions exceed the steady-state request rate and burst limits, API Gateway fails the limit-exceeding requests and returns 429 Too Many Requests error responses to the client.

See: <https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-request-throttling.html>

Question

The Amazon API Gateway free tier includes one million API calls received per month for up to 12 months.

Answers

- A. True
- B. False

A

See: <https://aws.amazon.com/api-gateway/pricing>

Question

A _____ prescribes who can access one or more deployed API stages

Answers

- A. role
- B. usage plan
- C. Cognito User Pools
- D. user

B

After you create, test, and deploy your APIs, you can use API Gateway usage plans to extend them as product offerings for your customers. You can provide usage plans to allow specified customers to access selected APIs at agreed-upon request rates and quotas that can meet their business requirements and budget constraints. A usage plan prescribes who can access one or more deployed API stages— and also how much and how fast the caller can access the APIs. The plan uses an API key to identify an API client and meters access to an API stage with the configurable throttling and quota limits that are enforced on individual client API keys.

See: <https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html>

Question

API Caching is charged _____

Answers

- A. per second
- B. per hour
- C. per MB
- D. per GB
- E. per request

B

See: <https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-caching.html>

Question

If the API Gateway caller submits 5,000 requests in the first millisecond and then evenly spreads another 5,000 requests through the remaining 999 milliseconds, API Gateway processes only the first 5000 requests in the one-second period returning "429 Too Many Requests" error responses to the rest.

Answers

- A. True
- B. False

B

If the caller submits 5,000 requests in the first millisecond and then evenly spreads another 5,000 requests through the remaining 999 milliseconds (for example, about 5 requests every millisecond), API Gateway processes all 10,000 requests in the one-second period without returning 429 Too Many Requests error responses.

See: <https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-request-throttling.html#api-request-throttling-account-level-limits>

Question

If the caller submits 5,000 requests in the first millisecond and waits until the 101st millisecond to submit another 5,000 requests, API Gateway processes _____ requests and throttles the rest in the one-second period.

Answers

- A. 5,000
- B. 6,000
- C. 9,000
- D. 10,000

B

See: <https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-request-throttling.html#apig-request-throttling-account-level-limits>



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