

@devopschallengehub



# What is Lambda and what are different event sources that can trigger it ?

## What is Lambda ?

AWS Lambda is a serverless, event-driven compute service that runs your code without provisioning or managing servers. You upload a function (code + configuration) and Lambda runs it in response to events.

- **When to use:** short-lived tasks, event processors, microservices, lightweight API handlers, glue logic between services, cron-style jobs (via EventBridge).
- **Benefits:** no server management, automatic scaling, pay-for-use.

## event sources for Lambda

Lambda is triggered by many AWS services; common sources include: **API Gateway, S3** (object events), **DynamoDB Streams, Kinesis, SQS, SNS, EventBridge / CloudWatch Events**, and orchestration via **Step Functions**.

- Each source has different invocation semantics (sync vs async, ordering guarantees, batch size, retry behavior).

## Which of the following is NOT a typical use case for AWS Lambda?

- A. Short-lived tasks and event processors
- B. Lightweight API handlers
- C. Running always-on large-scale applications
- D. Cron-style jobs using EventBridge


C. Running always-on large-scale applications ☒

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## What is a key benefit of using AWS Lambda?

- A. Manual server provisioning is required
- B. Automatic scaling and pay-per-use


- C. Reserved capacity billing only
- D. Requires dedicated infrastructure management

B. Automatic scaling and pay-per-use 

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**Which of the following services can be an event source for AWS Lambda?**

- A. Amazon S3
- B. Amazon DynamoDB Streams
- C. Amazon Kinesis
- D. All of the above

D. All of the above 

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