

Interview Questions on lambda

1. What is AWS Lambda?

Answer: AWS Lambda is a serverless compute service provided by Amazon Web Services that allows you to run code without provisioning or managing servers.

2. What programming languages are supported by AWS Lambda?

Answer: AWS Lambda supports multiple programming languages, including Node.js, Python, Java, Go, .NET Core, and Ruby.

3. How does AWS Lambda pricing work?

Answer: AWS Lambda pricing is based on the number of requests and the duration of the code execution, measured in milliseconds.

4. What is a Lambda function?

Answer: A Lambda function is the code you upload to AWS Lambda, which is triggered by events and executes in response to those events.

5. What is the maximum execution time for a Lambda function?

Answer: The maximum execution time for a Lambda function is 15 minutes.

6. What is a Lambda layer?

Answer: A Lambda layer is a ZIP archive that contains additional code, libraries, or dependencies that can be used by one or more Lambda functions.

7. How do you trigger a Lambda function?

Answer: Lambda functions can be triggered by various AWS services, such as S3, DynamoDB, SNS, API Gateway, and CloudWatch Events.

8. What is the cold start problem in AWS Lambda?

Answer: The cold start problem refers to the latency experienced when a Lambda function is invoked for the first time or after being idle for some time.

9. What is the benefit of using AWS Lambda?

Answer: AWS Lambda provides benefits such as reduced operational overhead, scalability, cost-effectiveness, and the ability to focus on writing code without managing infrastructure.

10. How do you monitor AWS Lambda functions?

Answer: AWS CloudWatch provides monitoring and logging capabilities for AWS Lambda functions, allowing you to track performance metrics, errors, and execution logs

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Interview Questions on s3

1. What is Amazon S3?

Answer: Amazon S3 (Simple Storage Service) is a scalable object storage service provided by Amazon Web Services that allows you to store and retrieve data from anywhere on the web.

2. What type of data can be stored in Amazon S3?

Answer: Amazon S3 can store any type of data, including documents, images, videos, audio files, databases, and backups.

3. What is an S3 bucket?

Answer: An S3 bucket is a container for storing objects in Amazon S3. It acts as a logical grouping of objects and is identified by a unique bucket name.

4. How do you access data stored in an S3 bucket?

Answer: Data stored in an S3 bucket can be accessed via HTTP or HTTPS using a unique URL known as an S3 object URL.

5. What is an S3 object?

Answer: An S3 object is a unit of data stored in an S3 bucket. It consists of the data itself, metadata, and a unique identifier (key).

6. What is the maximum size of an S3 object?

Answer: The maximum size of an S3 object is 5 terabytes (TB).

7. How do you secure data stored in S3 buckets?

Answer: Data stored in S3 buckets can be secured using access control policies, bucket policies, IAM roles, and encryption options such as server-side encryption and client-side encryption.

8. What is S3 versioning?

Answer: S3 versioning is a feature that allows you to keep multiple versions of an object in the same S3 bucket. It helps protect against accidental deletion or overwrite of objects.

9. How do you enable S3 versioning?

Answer: S3 versioning can be enabled at the bucket level using the AWS Management Console, CLI, or SDK.

10. What is S3 lifecycle management?

Answer: S3 lifecycle management is a feature that automates the process of transitioning objects between different storage classes and deleting objects based on predefined rules.

11. What is S3 storage classes?

Answer: S3 storage classes are different tiers of storage designed for different use cases and access patterns, such as Standard, Standard-IA (Infrequent Access), One Zone-IA, Intelligent-Tiering, Glacier, and Glacier Deep Archive.

12. What is S3 Cross-Region Replication?

Answer: S3 Cross-Region Replication is a feature that automatically replicates objects from one S3 bucket to another in a different AWS region.

13. What is S3 Transfer Acceleration?

Answer: S3 Transfer Acceleration is a feature that enables fast, secure, and reliable data transfers to and from S3 by using Amazon CloudFront's global network of edge locations.

14. What is S3 event notifications?

Answer: S3 event notifications are notifications sent by S3 to trigger events in response to object operations, such as object creation, deletion, and restoration.

15. What is S3 presigned URLs?

Answer: S3 presigned URLs are temporary URLs with a limited lifespan that grant temporary access to private objects in S3, allowing users to download or upload objects without requiring AWS credentials.

16. How do you monitor S3 bucket metrics?

Answer: S3 bucket metrics can be monitored using Amazon CloudWatch, which provides metrics such as bucket size, number of objects, and request metrics.

17. What is S3 Select?

Answer: S3 Select is a feature that allows you to retrieve only a subset of data from an S3 object using SQL-like queries, reducing the amount of data transferred and improving query performance.

18. What is S3 Batch Operations?

Answer: S3 Batch Operations is a feature that allows you to perform large-scale batch operations on objects stored in S3, such as copying, deleting, or tagging objects.

19. What is S3 Object Lock?

Answer: S3 Object Lock is a feature that allows you to enforce retention periods and legal holds on S3 objects, preventing them from being deleted or modified for a specified period of time.

20. What is S3 Access Points?

Answer: S3 Access Points are unique hostnames that simplify managing data access at scale for shared data sets stored in S3 buckets, allowing you to enforce fine-grained access policies and control access points separately from the underlying bucket.