

S3 Interview Questions:

1. What is Amazon S3, and what is its primary purpose within the AWS ecosystem?
2. Explain the structure of an S3 object's URL (Uniform Resource Locator).
3. What are the different storage classes available in Amazon S3, and when would you use each one?
4. Describe the difference between an S3 bucket and an S3 object.
5. What is S3 data consistency, and how does it work in different scenarios (e.g., read-after-write consistency, eventual consistency)?
6. How do you secure data stored in an S3 bucket, and what are the key access control mechanisms in S3?
7. Explain the use of S3 bucket policies and IAM policies in controlling access to S3 resources.
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9. How can you encrypt data in S3, and what are the encryption options available?
10. What is S3 Object Lock, and how can it be used to enhance data security and compliance?
11. How do you transfer large data into and out of an S3 bucket?
12. What is versioning in S3, and what are its benefits and use cases?
13. Explain the concept of S3 Lifecycle policies and provide examples of when they might be useful.
14. How can you replicate data between S3 buckets in different AWS regions or accounts?
15. What is S3 Select, and how does it improve data retrieval efficiency?
16. What is the Amazon S3 Transfer Acceleration feature, and when might you use it?
17. What AWS services can be used for monitoring and logging S3 activities, and how would you set up such monitoring?
18. Explain the purpose of Amazon S3 event notifications, and provide examples of use cases.
19. What factors influence the cost of using Amazon S3, and how can you optimize costs while using S3 for your data storage needs?
20. Give examples of industries or scenarios where Amazon S3 is a valuable storage solution.
21. How can S3 be integrated with other AWS services, such as EC2, Lambda, or Glacier, to build scalable and efficient applications?
22. Explain how you would architect a backup and disaster recovery solution using S3.
23. Discuss the advantages and considerations of using Amazon S3 as a content delivery solution (S3 as a static website host or through Amazon CloudFront).