60 AWS S3 interview questions to assess cloud engineering candidates

Questions

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11. How would you set up cross-region replication for an S3 bucket?

12. Explain the difference between S3 Standard-IA and S3 One Zone-IA storage classes.

13. What is S3 Select and how can it improve query performance?

14. How would you configure S3 event notifications?

15. Describe the process of enabling server-side encryption for S3 objects.

16. What is S3 Intelligent-Tiering and when would you use it?

17. How can you use S3 with CloudFront for content delivery?

18. Explain the concept of S3 access points and their benefits.

19. What are S3 batch operations and how can they be useful?

20. How would you implement object tagging in S3 and what are its use cases?

21. Describe the process of setting up a static website using S3.

22. What is S3 Object Lock and how does it enhance data protection?

23. How can you use S3 inventory to manage large-scale storage?

24. Explain the concept of S3 multipart upload and when to use it.

25. What is S3 Storage Lens and how can it help optimize storage?

26. How would you configure CORS (Cross-Origin Resource Sharing) for an S3 bucket?

27. Describe the process of enabling and using S3 Access Analyzer.

28. What are S3 access logs and how can they be used for auditing?

29. How can you use S3 with AWS Lambda for serverless processing?

30. Explain the concept of S3 requester pays buckets and their use cases.

31. How would you enable and configure server-side encryption for objects stored in S3?

32. What is an S3 bucket policy and how can it be used to control access?

33. How can you ensure that your S3 buckets are not publicly accessible?

34. What is S3 Access Control List (ACL) and how does it differ from bucket policies?

35. Can you explain the concept of S3 Access Analyzer and its benefits?

36. How do you use S3 bucket logging to monitor access and activity?

37. What are S3 bucket policies and IAM policies, and how do they differ?

38. How can you use S3 Access Points to simplify access management?

39. How would you design a cost-effective storage solution for infrequently accessed data using S3?

40. Explain the process of implementing a data retention policy using S3 Glacier Deep Archive.

41. How can you use S3 Storage Class Analysis to optimize storage costs?

42. Describe a scenario where you would use S3 Batch Operations to manage objects at scale.

43. How would you set up S3 Object Lock to meet compliance requirements for data retention?

44. Explain the benefits of using S3 Intelligent-Tiering for unpredictable access patterns.

45. How can you use S3 Storage Lens to identify cost-saving opportunities across your organization?

46. Describe the process of implementing lifecycle rules to automatically transition objects between storage classes.

47. How would you use S3 Inventory to audit and report on object metadata and encryption status?

48. Explain the concept of S3 Strong Consistency and its impact on storage management.

49. How can you leverage S3 Replication Time Control for time-sensitive replication requirements?

50. Describe a use case for S3 Batch Operations with Object Lock for data protection and compliance.

51. You've noticed increased costs in your S3 storage. How would you investigate and optimize this?

52. A client reports slow download speeds for large files from S3. What steps would you take to diagnose and resolve this issue?

53. Your team needs to migrate 50TB of data from on-premises storage to S3. Outline your approach to this task.

54. You discover that sensitive data in an S3 bucket is publicly accessible. What immediate actions would you take?

55. A developer accidentally deleted critical objects in an S3 bucket. How would you recover the data?

56. Your application needs to process millions of small files in S3 efficiently. How would you design this solution?

57. You need to implement a cost-effective archival solution for rarely accessed data. What S3 features would you use?

58. How would you set up S3 to comply with data residency requirements for a multi-national company?

59. Your team needs to analyze S3 usage patterns across multiple accounts. What tools or services would you employ?