68 AWS Interview Questions to Assess Candidates

Questions

1. Can you explain what Amazon EC2 is and how you would use it?

2. What are the different types of storage options available in AWS?

3. How does AWS Lambda work and when would you use it?

4. What is the difference between an Elastic Load Balancer and an Application Load Balancer?

5. Can you describe what Amazon RDS is and its primary use case?

6. How do you secure data in AWS S3?

7. What are the benefits of using AWS CloudFormation?

8. How does Amazon VPC work and why would you use it?

9. What is AWS IAM and how do you manage permissions?

10. Can you explain how AWS Auto Scaling works and why it is useful?

11. What is Amazon S3 and what are some common use cases for it?

12. Can you explain the concept of AWS Availability Zones and Regions?

13. What is the Shared Responsibility Model in AWS?

14. Can you describe the benefits of using Amazon CloudFront?

15. What is Amazon Route 53 and what are its primary features?

16. What are AWS CloudWatch metrics and how do you use them?

17. Can you explain the concept of AWS Elastic Beanstalk and its benefits?

18. What is Amazon SNS and what scenarios would you use it for?

19. How would you design a highly available and fault-tolerant architecture using AWS services?

20. Explain the difference between Amazon EBS and Amazon EFS. When would you choose one over the other?

21. What is AWS CloudTrail and how does it differ from CloudWatch?

22. Can you describe the process of setting up a VPN connection between an on-premises network and AWS VPC?

23. How would you implement a disaster recovery strategy using AWS services?

24. Explain the concept of AWS Organizations and how it helps in managing multiple AWS accounts.

25. What are AWS Step Functions and how would you use them in a serverless architecture?

26. How does Amazon DynamoDB achieve high scalability and performance?

27. Describe the process of implementing a blue-green deployment using AWS services.

28. What is AWS Direct Connect and when would you recommend using it?

29. How would you secure an API deployed on Amazon API Gateway?

30. Explain the concept of AWS Elastic Container Service (ECS) and its key components.

31. What is AWS CloudFormation drift detection and why is it important?

32. How would you implement a caching strategy using Amazon ElastiCache?

33. Describe the process of setting up cross-region replication in Amazon S3.

34. How would you explain the principle of least privilege in AWS IAM?

35. Can you describe AWS WAF and its primary use cases?

36. How does AWS KMS (Key Management Service) enhance data security?

37. What is AWS GuardDuty and how does it improve security?

38. How would you secure data in transit between an on-premises data center and AWS?

39. Explain the concept of security groups in AWS and how they differ from Network ACLs.

40. How would you handle encryption of sensitive data stored in Amazon S3?

41. What is AWS Config and how can it be used to enhance security?

42. How would you secure an API deployed on Amazon API Gateway?

43. How do you use AWS CodeDeploy to automate application deployments?

44. Can you explain the benefits of using AWS Elastic Beanstalk for application deployment?

45. What steps would you take to deploy a containerized application using Amazon ECS?

46. How do you implement CI/CD pipelines with AWS CodePipeline?

47. Describe your experience with deploying serverless applications using AWS Lambda.

48. What strategies do you use for deploying updates to an application without downtime on AWS?

49. Can you explain how to perform a blue-green deployment using AWS Elastic Beanstalk?

50. How do you manage environment configurations for different stages of deployment in AWS?

51. What are some best practices for deploying large-scale applications on AWS?

52. How would you handle rollbacks in case of deployment failures in AWS?

53. What is the role of AWS CloudFormation in automating deployments, and how do you use it?

54. Can you describe a situation where you had to troubleshoot a deployment issue on AWS?

55. You notice a sudden spike in your AWS bill. How would you investigate and address this issue?

56. A critical application in your EC2 instance keeps crashing. What steps would you take to troubleshoot and resolve the problem?

57. Your team needs to migrate a large on-premises database to AWS. How would you approach this task?

58. You're tasked with improving the performance of a slow-loading website hosted on AWS. What would be your strategy?

59. An S3 bucket containing sensitive data was accidentally made public. What immediate actions would you take?

60. Your company wants to implement a multi-region disaster recovery strategy. How would you design this using AWS services?

61. You need to set up a secure way for external partners to access specific AWS resources. What solution would you propose?

62. A Lambda function is timing out frequently. How would you diagnose and fix this issue?

63. Your team is experiencing high latency with database queries. How would you optimize database performance in AWS?

64. You're asked to implement a cost-effective solution for infrequently accessed data. What AWS storage option would you recommend and why?

65. How would you set up monitoring and alerting for a mission-critical application running on EC2?

66. Your application needs to process large amounts of streaming data in real-time. Which AWS services would you use and how?