## 98 AWS interview questions to hire top engineers

## **Questions**

- 1. What is cloud computing, and why is AWS a popular choice for it?
- 2. Can you explain what an AWS Region and an Availability Zone are?
- purpose.
- 4. Imagine you have a simple website. How would you use AWS S3 to store your website's images and other static content?
- 6. How do you create a virtual machine using AWS EC2? What are the key steps involved?
- 7. What is the difference between scaling up and scaling out in AWS?
- 8. Explain the concept of 'pay-as-you-go' pricing in AWS. How does it benefit users?
- 10. How can you monitor the performance of your AWS resources, like EC2 instances?
- 11. What is the purpose of a Virtual Private Cloud (VPC) in AWS?
- 13. What are some ways to keep your AWS account secure?
- 15. What are the differences between AWS EC2, ECS, and EKS?
- 17. How would you deploy a containerized application on AWS?
- 19. How does AWS help in managing and automating infrastructure as code?
- 21. What is AWS in simple terms, and why do companies use it?

20. Describe how you would set up a basic CI/CD pipeline using AWS services.

- 23. What is Amazon S3, and what is it commonly used for?
- 24. What is Amazon EC2, and how would you launch a virtual machine?
- 26. What is AWS Lambda, and what are some use cases for it?
- 27. What is the AWS Management Console?
- 29. What are some basic security best practices for AWS?
- 30. What is the principle of 'least privilege,' and how does it apply to AWS IAM?
- 32. What is AWS CloudWatch, and what can it monitor?
- 33. What is the difference between horizontal and vertical scaling?
- 36. What are some common AWS storage options besides S3?

35. What is AWS VPC, and why is it important for networking?

- 38. What is the purpose of an Elastic Load Balancer (ELB)? 39. What are some ways to reduce AWS costs?
- 40. What is the difference between a 'stateful' and 'stateless' application?
- 42. What is AWS Auto Scaling, and why is it important?

(PaaS), and Software as a Service (SaaS).

- 45. What is the shared responsibility model in AWS?
- 46. What are AWS security groups, and how do they work?
- 49. What is Infrastructure as Code (IaC), and how is it relevant to AWS?
- including rollback strategies.
- 52. How would you design a highly available and scalable web application architecture using AWS services?
- security groups.
- instances and utilizing reserved instances.

57. Describe your experience with implementing and managing AWS Lambda functions,

58. How would you use AWS CloudWatch to monitor the health and performance of your

59. Explain how you would implement a disaster recovery plan for an application running on AWS.

60. Describe your experience with using AWS RDS for database management, including

factors like data migration and application compatibility? 62. Explain the differences between AWS EBS and EFS, and when you would use each

61. How would you approach migrating an on-premises application to AWS, considering

65. Explain how you would use AWS S3 for object storage, including versioning, lifecycle policies, and security considerations.

64. How would you use AWS Auto Scaling to automatically adjust the number of EC2

- 68. Explain how you would use AWS Route 53 for DNS management and traffic routing. 69. Describe your experience with using AWS IAM to manage user access and permissions
- 72. Explain the differences between AWS CloudFormation, Terraform, and AWS CDK. When would you choose one over the others? 73. How do you approach security in your AWS deployments, and what are some best

71. Describe a time you had to troubleshoot a performance bottleneck in an AWS

environment. What tools and techniques did you use?

services like Lambda, API Gateway, and DynamoDB.

alerting mechanisms do you use to respond to issues?

policies in AWS to control access to resources.

Infrastructure as Code (IaC) principles?

75. How would you optimize the cost of an existing AWS infrastructure without compromising performance or availability?

77. Describe your experience with implementing serverless architectures in AWS using

76. Explain the different types of load balancers available in AWS, and when would you use

78. How would you design a disaster recovery plan for a critical application running in AWS,

79. Explain the benefits and drawbacks of using containers in AWS, and what services like ECS, EKS, and Fargate provide.

80. How do you monitor the health and performance of your AWS resources, and what

81. Describe your experience with implementing identity and access management (IAM)

82. How would you handle data migration from an on-premises environment to AWS, and

- what are some potential challenges? 83. Explain the different storage options available in AWS, and when would you use each
- evaluate their potential impact on your organization? 86. Explain how you would design a data lake solution on AWS, considering scalability,

85. How do you stay up-to-date with the latest AWS services and features, and how do you

84. Describe your experience with implementing caching strategies in AWS to improve

- 88. Describe a time you had to work with a legacy application in AWS. What were the challenges, and how did you address them?
- availability and disaster recovery. 91. How would you design a solution to ingest, process, and analyze large volumes of streaming data in real-time using AWS services?

92. Describe your experience with using AWS security services such as AWS Shield, AWS

- WAF, and AWS Inspector. 93. How would you approach troubleshooting a complex networking issue in an AWS VPC environment?
- 94. Explain the different pricing models available for EC2 instances, and how you would choose the most cost-effective option.
- 95. How do you handle secrets management in AWS, and what tools do you use to protect sensitive information?
- 96. Describe a time when you had to scale an application in response to a sudden increase in traffic. How did you accomplish this?
- 97. Explain how you would integrate AWS services with existing on-premises systems or other cloud providers.

- 3. What are some of the basic services offered by AWS, such as EC2 and S3? Explain their
- 5. What is AWS IAM, and why is it important for security?
- 9. What is AWS Lambda, and what are some use cases for it?
- 12. Describe a scenario where you would use AWS CloudFront.
- 14. Explain what AWS Auto Scaling is and why it is useful.
- 16. Can you explain the concept of serverless computing and how AWS Lambda fits into it?
- 18. What are some methods for backing up data stored in AWS S3?
- 22. Can you explain what a 'region' and an 'availability zone' are in AWS?
- 25. What is the difference between public, private, and hybrid cloud?
- 28. What is the AWS Command Line Interface (CLI), and why is it useful?
- 31. Explain AWS IAM roles.
- 34. What are some benefits of using AWS CloudFormation or Terraform?
- 37. What is a CDN, and how does Amazon CloudFront work?
- 41. Explain the difference between Infrastructure as a Service (laaS), Platform as a Service
- 44. What are some basic networking concepts relevant to AWS?

43. How does AWS help with disaster recovery?

- 47. What is the difference between AWS RDS and DynamoDB?
- 50. Explain how you would use AWS CloudFormation to manage infrastructure as code,

48. Explain what you know about 'serverless' computing.

51. Describe your experience with implementing CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy.

factors like CPU utilization, memory usage, and network latency?

including considerations for concurrency and error handling.

backups, scaling, and performance tuning.

instances based on demand?

disaster recovery?

each type?

in the AWS environment.

AWS resources?

each service. 54. Describe your experience with securing AWS resources using IAM roles, policies, and

55. How would you troubleshoot performance issues in an AWS environment, considering

53. Explain the differences between AWS SQS, SNS, and Kinesis, and when you would use

- 56. Explain your approach to cost optimization in AWS, including strategies for rightsizing
- storage service.

63. Describe your experience with using AWS VPC to create a private network in the cloud.

66. Describe your experience with using AWS ECS or EKS to manage containerized applications.

67. How would you implement a multi-region architecture in AWS for high availability and

- 70. How would you design a highly available and scalable web application using AWS services, and what factors would you consider when choosing specific services?
- practices you follow to protect against common threats? 74. Describe your experience with implementing CI/CD pipelines in AWS. What tools and services did you use, and what were some challenges you faced?
- and what are the key considerations?
- type (e.g., S3, EBS, EFS, Glacier)?

application performance (e.g., using CloudFront, ElastiCache)?

- security, and cost-effectiveness. 87. How would you automate the process of creating and managing AWS resources using
- 89. How do you ensure compliance with industry regulations (e.g., HIPAA, GDPR) when deploying applications in AWS? 90. Explain how you would implement a multi-region deployment in AWS for high
- 98. How would you design a serverless application that uses Step Functions to orchestrate multiple Lambda functions?