1. What does AWS stand for, and what is its primary function?
2. Can you name some of the core AWS services?
3. What is an EC2 instance in AWS?
4. Explain the function of Amazon S3.
5. What is the purpose of AWS Lambda?
6. Describe what an AWS region is.
7. What is an Availability Zone in AWS?
8. How is data stored in Amazon RDS different from S3?
9. What is the benefit of using Amazon VPC?
10. How do you secure AWS resources using IAM?
11. Explain the difference between Amazon EBS and Amazon EFS.
12. How does AWS Auto Scaling work?
13. What is the significance of an AWS Elastic IP address?
14. What is AWS Elastic Beanstalk, and how does it simplify application deployment?
15. How does Amazon CloudWatch help in monitoring AWS resources?
16. Can you name the types of AWS load balancers?
17. What is the AWS Well-Architected Framework, and why is it important?
18. What is the function of AWS CloudFormation?
19. Describe the purpose of Amazon SNS.
20. How can you ensure data durability in Amazon S3?
21. What is an AWS security group, and how is it different from a Network ACL?
22. How can you protect your AWS account with Multi-Factor Authentication (MFA)?
23. What is the difference between an IAM user and an IAM role?
24. How do you configure data encryption in Amazon S3?
25. What are AWS tags, and why are they useful?
26. How does AWS Route 53 help in DNS management?
27. What is the use of Amazon RDS Multi-AZ deployments?
28. What is AWS Identity Federation, and how does it work?
29. How does AWS Direct Connect work, and why might you use it?
30. What is an AWS CloudWatch Alarm, and when is it triggered?
31. How do you set up a basic website using Amazon S3?
32. What is AWS Elasticache, and when would you use it?
33. Explain the purpose of AWS Snowball.
34. What is the role of an AWS VPC Gateway?
35. How does AWS KMS (Key Management Service) work, and why is it important?
36. How do you monitor the billing and cost of your AWS resources?
37. What is AWS Systems Manager, and how does it assist in managing your instances?
38. Describe the benefits of using AWS CodePipeline.
39. How does AWS WAF (Web Application Firewall) help protect your applications?
40. What is an Amazon RDS Read Replica, and why would you use one?
41. What is AWS Lambda Layer, and how does it help in managing code dependencies?
42. Explain the use of Amazon CloudFront for content delivery.
43. How can you automate routine operational tasks in AWS using AWS OpsWorks?
44. What is Amazon S3 versioning, and why might you enable it?
45. What is the AWS Free Tier, and what does it include?
46. How does AWS Batch simplify batch computing on AWS?
47. Explain the purpose of AWS Step Functions.
48. What is an Amazon RDS Parameter Group, and how does it impact database configurations?
49. How do you use AWS X-Ray for application tracing and analysis?
50. What is the significance of the AWS Cost Explorer tool, and how is it used?