1. What is AWS Elastic Load Balancing, and how does it distribute traffic among instances?
2. Explain the different storage classes in Amazon S3 and when you would use each.
3. Describe the differences between AWS RDS and Amazon DynamoDB in terms of database services.
4. What is AWS CloudWatch Logs, and how can it be used for monitoring and troubleshooting?
5. How can you achieve data replication and high availability in Amazon RDS?
6. What is an Amazon VPC Peering connection, and how is it established?
7. How does AWS CloudFormation facilitate infrastructure as code (IaC), and what are some best practices for using it?
8. Explain the concept of Amazon EKS (Elastic Kubernetes Service) and its benefits for managing containerized applications.
9. What is AWS Direct Connect, and when is it preferred over VPN connections to access AWS resources?
10. Describe the differences between Amazon S3 and Amazon EFS (Elastic File System) in terms of storage services.
11. How do you achieve cross-region replication for data stored in Amazon S3?
12. What is AWS Redshift, and how does it differ from traditional relational databases for data warehousing?
13. Explain the use of AWS Elastic Beanstalk, and what are its advantages for deploying web applications.
14. How does AWS CloudTrail work, and why is it important for auditing and compliance?
15. Describe the purpose and components of AWS Organizations in managing multiple AWS accounts.
16. What are AWS Lambda triggers, and how can you set them up for event-driven serverless functions?
17. How can you improve security for your Amazon EC2 instances, and what are some recommended practices?
18. What is Amazon Aurora Serverless, and how does it automatically adjust database capacity based on usage?
19. Explain the concepts of Amazon S3 event notifications and how they can be used.
20. How does AWS RDS Multi-AZ deployments provide high availability for databases, and what are their limitations?
21. Describe the key features and use cases for AWS Glue in ETL (Extract, Transform, Load) tasks.
22. What is Amazon Elastic Container Registry (ECR), and how does it simplify Docker container image management?
23. How can you automate deployment and scaling of applications using AWS CodeDeploy?
24. Explain the benefits and use cases of Amazon Neptune for graph databases.
25. What is the purpose of AWS Lambda Layers, and how do they enhance code reusability in serverless functions?
26. How does AWS PrivateLink work, and what are its advantages for securely accessing AWS services?
27. What is AWS Trusted Advisor, and how does it help optimize costs, performance, security, and fault tolerance?
28. Describe the concept of Amazon CloudFront Signed URLs and Cookies for securing content distribution.
29. How do you use Amazon S3 Select and Glacier Select to retrieve data from large datasets efficiently?
30. What is the significance of AWS Organizations Service Control Policies (SCPs) in account management?