Below is a set of 100 AWS (Amazon Web Services) questions divided into easy, medium, and high complexity levels. These questions cover various AWS services and concepts, including compute, storage, databases, security, and more.

### Easy Level (1-34)

1. \*\*What is AWS Elastic Beanstalk?\*\*

- A) A service for orchestrating Docker containers

- B) A platform-as-a-service (PaaS) for deploying applications

- C) A data warehouse solution

- D) A content delivery network

\*\*Answer: B) A platform-as-a-service (PaaS) for deploying applications\*\*

2. \*\*Which AWS service provides scalable object storage?\*\*

- A) Amazon EBS

- B) Amazon S3

- C) Amazon RDS

- D) Amazon EFS

\*\*Answer: B) Amazon S3\*\*

3. \*\*What is the purpose of Amazon CloudFront?\*\*

- A) To provide scalable database services

- B) To distribute content with low latency

- C) To manage user authentication

- D) To run containerized applications

\*\*Answer: B) To distribute content with low latency\*\*

4. \*\*Which AWS service allows you to run code without provisioning or managing servers?\*\*

- A) Amazon EC2

- B) AWS Lambda

- C) AWS Elastic Beanstalk

- D) Amazon RDS

\*\*Answer: B) AWS Lambda\*\*

5. \*\*What does AWS stand for?\*\*

- A) Amazon Web Service

- B) Advanced Web Solutions

- C) Amazon Website Services

- D) None of the above

\*\*Answer: A) Amazon Web Service\*\*

6. \*\*Which AWS service can be used to register domain names?\*\*

- A) Amazon Route 53

- B) Amazon CloudFront

- C) AWS IAM

- D) AWS CloudFormation

\*\*Answer: A) Amazon Route 53\*\*

7. \*\*What is Amazon EC2?\*\*

- A) A database service

- B) A content delivery network

- C) A virtual server service

- D) A storage service

\*\*Answer: C) A virtual server service\*\*

8. \*\*Which AWS service is best suited for storing large amounts of unstructured data?\*\*

- A) Amazon RDS

- B) Amazon S3

- C) Amazon DynamoDB

- D) Amazon EBS

\*\*Answer: B) Amazon S3\*\*

9. \*\*Which service is used to manage user access and encryption keys?\*\*

- A) AWS Identity and Access Management (IAM)

- B) Amazon CloudWatch

- C) Amazon SNS

- D) AWS S3

\*\*Answer: A) AWS Identity and Access Management (IAM)\*\*

10. \*\*What is the primary use of Amazon RDS?\*\*

- A) Storing files and objects

- B) Hosting relational databases

- C) Monitoring application performance

- D) Managing serverless functions

\*\*Answer: B) Hosting relational databases\*\*

11. \*\*Which AWS service can be used for monitoring and logging?\*\*

- A) Amazon S3

- B) AWS CloudTrail

- C) AWS Elastic Beanstalk

- D) Amazon RDS

\*\*Answer: B) AWS CloudTrail\*\*

12. \*\*What type of storage does Amazon EBS provide?\*\*

- A) Object storage

- B) Block storage

- C) File storage

- D) Relational storage

\*\*Answer: B) Block storage\*\*

13. \*\*Which service provides a highly scalable NoSQL database?\*\*

- A) Amazon RDS

- B) Amazon DynamoDB

- C) Amazon Redshift

- D) AWS Snowball

\*\*Answer: B) Amazon DynamoDB\*\*

14. \*\*What is Amazon VPC used for?\*\*

- A) Creating isolated cloud resources

- B) Managing user permissions

- C) Storing data

- D) Distributing content globally

\*\*Answer: A) Creating isolated cloud resources\*\*

15. \*\*Which service would you use to automatically distribute incoming application traffic across multiple targets?\*\*

- A) AWS CloudTrail

- B) Amazon Route 53

- C) AWS Lambda

- D) Elastic Load Balancing (ELB)

\*\*Answer: D) Elastic Load Balancing (ELB)\*\*

16. \*\*What is AWS CloudFormation used for?\*\*

- A) Building and deploying machine learning models

- B) Creating and managing AWS infrastructure as code

- C) Monitoring application performance

- D) Storing backup data

\*\*Answer: B) Creating and managing AWS infrastructure as code\*\*

17. \*\*Which service is used to convert media files to different formats?\*\*

- A) AWS MediaConvert

- B) Amazon CloudFront

- C) AWS Lambda

- D) Amazon S3

\*\*Answer: A) AWS MediaConvert\*\*

18. \*\*Which service helps protect your applications from DDoS attacks?\*\*

- A) AWS Shield

- B) AWS WAF

- C) AWS CloudTrail

- D) Amazon GuardDuty

\*\*Answer: A) AWS Shield\*\*

19. \*\*Which AWS service can be used to send notifications to users?\*\*

- A) Amazon SNS

- B) AWS S3

- C) Amazon RDS

- D) AWS Lambda

\*\*Answer: A) Amazon SNS\*\*

20. \*\*Which service provides a secure file transfer solution to move data into and out of AWS?\*\*

- A) AWS DataSync

- B) AWS Transfer Family

- C) Amazon S3

- D) AWS Migration Hub

\*\*Answer: B) AWS Transfer Family\*\*

21. \*\*Which AWS service offers machine learning-based threat detection?\*\*

- A) AWS CloudTrail

- B) Amazon GuardDuty

- C) AWS Shield

- D) Amazon Macie

\*\*Answer: B) Amazon GuardDuty\*\*

22. \*\*What is the primary benefit of AWS Auto Scaling?\*\*

- A) Manages data encryption

- B) Automatically adjusts resources to maintain performance

- C) Provides a visual representation of your infrastructure

- D) Analyzes data for business insights

\*\*Answer: B) Automatically adjusts resources to maintain performance\*\*

23. \*\*Which AWS service is used for building and deploying containerized applications?\*\*

- A) AWS Lambda

- B) Amazon ECS (Elastic Container Service)

- C) Amazon S3

- D) AWS CloudFormation

\*\*Answer: B) Amazon ECS (Elastic Container Service)\*\*

24. \*\*What does Amazon CloudWatch primarily monitor?\*\*

- A) User activity

- B) Network traffic

- C) AWS resource usage and application performance

- D) Content delivery

\*\*Answer: C) AWS resource usage and application performance\*\*

25. \*\*Which AWS service allows you to run big data frameworks like Hadoop and Spark?\*\*

- A) Amazon RDS

- B) Amazon Redshift

- C) Amazon EMR (Elastic MapReduce)

- D) AWS Glue

\*\*Answer: C) Amazon EMR (Elastic MapReduce)\*\*

26. \*\*Which AWS service enables real-time processing of streaming data?\*\*

- A) Amazon Kinesis

- B) Amazon Redshift

- C) Amazon S3

- D) AWS Lambda

\*\*Answer: A) Amazon Kinesis\*\*

27. \*\*What is Amazon S3 Glacier used for?\*\*

- A) Hosting websites

- B) Running databases

- C) Long-term data archiving

- D) Real-time data processing

\*\*Answer: C) Long-term data archiving\*\*

28. \*\*Which service is best for data warehousing?\*\*

- A) Amazon RDS

- B) Amazon Redshift

- C) Amazon DynamoDB

- D) Amazon S3

\*\*Answer: B) Amazon Redshift\*\*

29. \*\*Which AWS service can you use to automate the execution of code in response to events?\*\*

- A) AWS Lambda

- B) Amazon S3

- C) Amazon RDS

- D) Amazon SNS

\*\*Answer: A) AWS Lambda\*\*

30. \*\*Which service would you use to enforce compliance policies on AWS resources?\*\*

- A) AWS Config

- B) AWS Shield

- C) Amazon GuardDuty

- D) AWS S3

\*\*Answer: A) AWS Config\*\*

31. \*\*Which AWS service provides a content delivery network (CDN)?\*\*

- A) Amazon Route 53

- B) Amazon CloudFront

- C) AWS Direct Connect

- D) Amazon VPC

\*\*Answer: B) Amazon CloudFront\*\*

32. \*\*Which service can be used to automate backups for Amazon RDS databases?\*\*

- A) AWS Backup

- B) AWS Snowball

- C) AWS CloudTrail

- D) AWS IAM

\*\*Answer: A) AWS Backup\*\*

33. \*\*What does the "pay-as-you-go" pricing model in AWS mean?\*\*

- A) You pay a fixed monthly fee for all services

- B) You pay only for the individual services you use

- C) You pay in advance for resources

- D) You pay based on long-term contracts

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Answer: B) You pay only for the individual services you use\*\*

34. \*\*Which AWS service provides managed DDoS protection?\*\*

- A) AWS Shield

- B) AWS WAF

- C) AWS Firewall Manager

- D) Amazon GuardDuty

\*\*Answer: A) AWS Shield\*\*

### Medium Level (35-67)

35. \*\*A company needs a managed service for PostgreSQL databases that can scale storage automatically. Which AWS service should they use?\*\*

- A) Amazon RDS with Aurora

- B) Amazon DynamoDB

- C) Amazon Redshift

- D) Amazon S3

\*\*Answer: A) Amazon RDS with Aurora\*\*

36. \*\*How can you ensure that data stored in Amazon S3 is encrypted at rest?\*\*

- A) Use AWS Shield

- B) Enable Server-Side Encryption (SSE)

- C) Create a VPC Endpoint

- D) Use AWS CloudFormation

\*\*Answer: B) Enable Server-Side Encryption (SSE)\*\*

37. \*\*Which service allows you to set custom rules to manage AWS resources based on changes in configuration?\*\*

- A) AWS Config

- B) AWS CloudTrail

- C) AWS IAM

- D) Amazon GuardDuty

\*\*Answer: A) AWS Config\*\*

38. \*\*A company wants to migrate their on-premises applications to AWS without changing them. Which AWS service can help with this lift-and-shift migration?\*\*

- A) AWS Elastic Beanstalk

- B) AWS Server Migration Service

- C) AWS CodeDeploy

- D) AWS Lambda

\*\*Answer: B) AWS Server Migration Service\*\*

39. \*\*Which AWS service can be used to decouple microservices by providing message queuing?\*\*

- A) Amazon SNS

- B) Amazon SQS

- C) Amazon RDS

- D) Amazon CloudFront

\*\*Answer: B) Amazon SQS\*\*

40. \*\*What is the primary purpose of AWS CloudTrail?\*\*

- A) To monitor the performance of AWS services

- B) To track user activity and API usage

- C) To manage cloud resource costs

- D) To deploy applications automatically

\*\*Answer: B) To track user activity and API usage\*\*

41. \*\*A company wants to host a database that supports complex queries and OLAP workloads. Which service should they choose?\*\*

- A) Amazon RDS

- B) Amazon Redshift

- C) Amazon DynamoDB

- D) AWS Glue

\*\*Answer: B) Amazon Redshift\*\*

42. \*\*Which AWS service is designed for use in a hybrid cloud environment, allowing you to extend AWS to your on-premises data center?\*\*

- A) AWS Outposts

- B) Amazon CloudFront

- C) AWS Direct Connect

- D) AWS Snowball

\*\*Answer: A) AWS Outposts\*\*

43. \*\*A company wants to set up a virtual network in AWS that is isolated from other networks. What should they create?\*\*

- A) AWS VPC

- B) AWS Subnet

- C) AWS Route Table

- D) AWS Security Group

\*\*Answer: A) AWS VPC\*\*

44. \*\*How can you improve the fault tolerance of a database in Amazon RDS?\*\*

- A) Use Multi-AZ deployment

- B) Enable Read Replicas

- C) Store backups in S3

- D) Use AWS CloudFormation

\*\*Answer: A) Use Multi-AZ deployment\*\*

45. \*\*Which AWS service is used to convert large datasets into visualizations and reports?\*\*

- A) Amazon QuickSight

- B) Amazon Athena

- C) Amazon Redshift

- D) AWS Glue

\*\*Answer: A) Amazon QuickSight\*\*

46. \*\*What is the purpose of AWS Direct Connect?\*\*

- A) To provide a secure VPN connection between your data center and AWS

- B) To establish a dedicated network connection between your data center and AWS

- C) To manage user permissions and roles

- D) To deploy containerized applications

\*\*Answer: B) To establish a dedicated network connection between your data center and AWS\*\*

47. \*\*A company needs to store and process a large amount of structured data. Which AWS service can they use to quickly set up a data warehouse?\*\*

- A) Amazon Redshift

- B) Amazon RDS

- C) Amazon DynamoDB

- D) Amazon EMR

\*\*Answer: A) Amazon Redshift\*\*

48. \*\*Which AWS service provides a fully managed service for real-time analysis of streaming data?\*\*

- A) Amazon Kinesis Data Analytics

- B) Amazon RDS

- C) AWS Glue

- D) Amazon Athena

\*\*Answer: A) Amazon Kinesis Data Analytics\*\*

49. \*\*How can a company securely manage and distribute access keys and secrets?\*\*

- A) AWS CloudHSM

- B) AWS Secrets Manager

- C) Amazon CloudWatch

- D) AWS CloudTrail

\*\*Answer: B) AWS Secrets Manager\*\*

50. \*\*Which AWS service provides a highly available and scalable email sending service?\*\*

- A) Amazon SNS

- B) Amazon SQS

- C) Amazon SES

- D) AWS Lambda

\*\*Answer: C) Amazon SES\*\*

51. \*\*A company needs to perform an ETL (Extract, Transform, Load) process on a large dataset. Which AWS service should they use?\*\*

- A) Amazon EMR

- B) Amazon RDS

- C) AWS Glue

- D) Amazon Redshift

\*\*Answer: C) AWS Glue\*\*

52. \*\*Which AWS service allows you to run containerized applications on a serverless infrastructure?\*\*

- A) Amazon ECS

- B) AWS Lambda

- C) Amazon EKS

- D) AWS Fargate

\*\*Answer: D) AWS Fargate\*\*

53. \*\*A company wants to store frequently accessed data in memory for faster retrieval. Which AWS service can provide this?\*\*

- A) Amazon RDS

- B) Amazon ElastiCache

- C) Amazon S3

- D) Amazon Redshift

\*\*Answer: B) Amazon ElastiCache\*\*

54. \*\*Which AWS service provides a scalable and managed message broker service for Apache Kafka?\*\*

- A) Amazon SNS

- B) Amazon MQ

- C) Amazon MSK

- D) Amazon SQS

\*\*Answer: C) Amazon MSK\*\*

55. \*\*What is the primary use of Amazon S3 Select?\*\*

- A) To retrieve subsets of data from an object in S3

- B) To analyze real-time streaming data

- C) To create backups of your S3 data

- D) To manage S3 bucket policies

\*\*Answer: A) To retrieve subsets of data from an object in S3\*\*

56. \*\*Which AWS service helps you define compliance standards and evaluate configurations of your AWS resources?\*\*

- A) AWS Config

- B) AWS CloudFormation

- C) AWS CloudTrail

- D) AWS Trusted Advisor

\*\*Answer: A) AWS Config\*\*

57. \*\*Which AWS service provides an isolated virtual network in the cloud?\*\*

- A) AWS Subnet

- B) Amazon VPC

- C) AWS Route Table

- D) AWS Direct Connect

\*\*Answer: B) Amazon VPC\*\*

58. \*\*A company needs a database that can handle large volumes of read and write operations with high availability. Which service should they choose?\*\*

- A) Amazon RDS

- B) Amazon DynamoDB

- C) Amazon Redshift

- D) AWS Glue

\*\*Answer: B) Amazon DynamoDB\*\*

59. \*\*Which AWS service enables you to quickly deploy and manage applications in a containerized environment?\*\*

- A) Amazon ECS

- B) Amazon EKS

- C) AWS Fargate

- D) All of the above

\*\*Answer: D) All of the above\*\*

60. \*\*What is the purpose of AWS Storage Gateway?\*\*

- A) To create backups of your data in AWS

- B) To provide a cloud storage solution for on-premises applications

- C) To host your website

- D) To manage IAM roles

\*\*Answer: B) To provide a cloud storage solution for on-premises applications\*\*

61. \*\*Which AWS service can you use to deploy machine learning models at scale?\*\*

- A) Amazon SageMaker

- B) AWS Glue

- C) Amazon EMR

- D) AWS Lambda

\*\*Answer: A) Amazon SageMaker\*\*

62. \*\*Which service is designed to help you move large amounts of data into and out of the AWS cloud?\*\*

- A) AWS DataSync

- B) AWS Snowball

- C) AWS Storage Gateway

- D) AWS Transfer Family

\*\*Answer: B) AWS Snowball\*\*

63. \*\*How can you improve the availability of a web application hosted on Amazon EC2?\*\*

- A) Use Amazon CloudFront

- B) Use Amazon Route 53

- C) Use Elastic Load Balancing

- D) Use Amazon RDS

\*\*Answer: C) Use Elastic Load Balancing\*\*

64. \*\*Which

AWS service can be used to build conversational interfaces into any application?\*\*

- A) Amazon Lex

- B) Amazon Polly

- C) Amazon Rekognition

- D) Amazon Comprehend

\*\*Answer: A) Amazon Lex\*\*

65. \*\*What is the purpose of Amazon Kinesis Data Streams?\*\*

- A) To process real-time streaming data

- B) To store structured data

- C) To deploy containerized applications

- D) To create a data warehouse

\*\*Answer: A) To process real-time streaming data\*\*

66. \*\*A company needs to integrate a high-availability MySQL database into their AWS environment. Which service should they use?\*\*

- A) Amazon DynamoDB

- B) Amazon RDS

- C) Amazon S3

- D) AWS Glue

\*\*Answer: B) Amazon RDS\*\*

67. \*\*Which AWS service can be used to manage Docker containers in a managed Kubernetes environment?\*\*

- A) Amazon ECS

- B) Amazon EKS

- C) AWS Fargate

- D) Amazon S3

\*\*Answer: B) Amazon EKS\*\*

### High Level (68-100)

68. \*\*How can you ensure that your S3 bucket is secure and compliant with organizational policies?\*\*

- A) Enable versioning

- B) Set up bucket policies and IAM roles

- C) Enable server-side encryption

- D) Use AWS Config to monitor configurations

\*\*Answer: D) Use AWS Config to monitor configurations\*\*

69. \*\*Which AWS service helps you analyze and optimize the cost of your AWS usage?\*\*

- A) AWS Cost Explorer

- B) AWS Trusted Advisor

- C) AWS Budgets

- D) AWS CloudTrail

\*\*Answer: A) AWS Cost Explorer\*\*

70. \*\*How can you use AWS services to protect your data in transit?\*\*

- A) Enable SSL/TLS

- B) Use IAM roles

- C) Implement VPC peering

- D) Use AWS CloudTrail

\*\*Answer: A) Enable SSL/TLS\*\*

71. \*\*What is the benefit of using AWS Transit Gateway?\*\*

- A) To connect multiple VPCs and on-premises networks through a single gateway

- B) To deploy serverless applications

- C) To monitor AWS services

- D) To store data at scale

\*\*Answer: A) To connect multiple VPCs and on-premises networks through a single gateway\*\*

72. \*\*A company is planning to deploy a multi-region application with global traffic management. Which AWS services should they consider?\*\*

- A) Amazon CloudFront and Amazon RDS

- B) Amazon Route 53 and AWS Global Accelerator

- C) AWS Shield and AWS WAF

- D) Amazon S3 and AWS Lambda

\*\*Answer: B) Amazon Route 53 and AWS Global Accelerator\*\*

73. \*\*Which AWS service can be used to implement fine-grained access control policies on S3 objects?\*\*

- A) AWS IAM

- B) AWS CloudTrail

- C) AWS KMS

- D) AWS S3 Object Lock

\*\*Answer: A) AWS IAM\*\*

74. \*\*A company needs to run batch computing jobs that can scale based on demand. Which AWS service should they use?\*\*

- A) AWS Batch

- B) Amazon EC2

- C) AWS Lambda

- D) AWS Glue

\*\*Answer: A) AWS Batch\*\*

75. \*\*Which AWS service helps you protect your web applications from common web exploits?\*\*

- A) AWS WAF

- B) AWS Shield

- C) Amazon GuardDuty

- D) AWS CloudTrail

\*\*Answer: A) AWS WAF\*\*

76. \*\*How can you automatically update DNS records when the IP address of your EC2 instances changes?\*\*

- A) Use Amazon Route 53 with health checks

- B) Use AWS Lambda to update Route 53 records

- C) Use an Elastic IP address

- D) Use AWS CloudFormation

\*\*Answer: B) Use AWS Lambda to update Route 53 records\*\*

77. \*\*A company wants to monitor the performance and health of its applications. Which AWS service should they use?\*\*

- A) AWS CloudWatch

- B) AWS CloudTrail

- C) Amazon SNS

- D) Amazon RDS

\*\*Answer: A) AWS CloudWatch\*\*

78. \*\*Which AWS service can be used to securely distribute large amounts of data to AWS?\*\*

- A) AWS Direct Connect

- B) AWS DataSync

- C) AWS Snowball

- D) Amazon S3 Transfer Acceleration

\*\*Answer: C) AWS Snowball\*\*

79. \*\*How can you provide temporary access to S3 objects?\*\*

- A) Create an IAM role

- B) Use pre-signed URLs

- C) Configure bucket policies

- D) Enable versioning

\*\*Answer: B) Use pre-signed URLs\*\*

80. \*\*Which AWS service helps in the continuous integration and delivery of applications?\*\*

- A) AWS CodePipeline

- B) AWS CloudFormation

- C) AWS OpsWorks

- D) AWS Config

\*\*Answer: A) AWS CodePipeline\*\*

81. \*\*A company needs to secure its AWS environment and detect unusual activity. Which services should they use?\*\*

- A) AWS IAM and Amazon S3

- B) AWS CloudTrail and Amazon GuardDuty

- C) AWS Direct Connect and AWS DataSync

- D) AWS WAF and AWS Shield

\*\*Answer: B) AWS CloudTrail and Amazon GuardDuty\*\*

82. \*\*Which AWS service can be used to create isolated environments for running and testing code?\*\*

- A) AWS Lambda

- B) AWS Cloud9

- C) Amazon ECS

- D) AWS CloudFormation

\*\*Answer: B) AWS Cloud9\*\*

83. \*\*How can you ensure high availability for a web application deployed in multiple AWS regions?\*\*

- A) Use Amazon CloudFront

- B) Use AWS Elastic Beanstalk

- C) Use Amazon Route 53 with latency-based routing

- D) Use Amazon RDS

\*\*Answer: C) Use Amazon Route 53 with latency-based routing\*\*

84. \*\*What is the purpose of AWS Identity and Access Management (IAM) policies?\*\*

- A) To provide encryption for data at rest

- B) To manage access to AWS services and resources securely

- C) To monitor application performance

- D) To distribute content globally

\*\*Answer: B) To manage access to AWS services and resources securely\*\*

85. \*\*A company wants to analyze large datasets stored in S3 using SQL. Which service should they use?\*\*

- A) Amazon RDS

- B) Amazon Athena

- C) AWS Glue

- D) Amazon Redshift

\*\*Answer: B) Amazon Athena\*\*

86. \*\*Which AWS service allows you to run and manage Docker containers at scale?\*\*

- A) AWS Batch

- B) Amazon ECS

- C) AWS Lambda

- D) AWS Fargate

\*\*Answer: B) Amazon ECS\*\*

87. \*\*A company needs a scalable storage solution for log data that is frequently accessed and infrequently accessed. Which storage class should they choose in S3?\*\*

- A) S3 Standard

- B) S3 Intelligent-Tiering

- C) S3 Glacier

- D) S3 One Zone-IA

\*\*Answer: B) S3 Intelligent-Tiering\*\*

88. \*\*Which AWS service can be used to create private connections between VPCs across different AWS accounts?\*\*

- A) VPC Peering

- B) AWS Direct Connect

- C) AWS Transit Gateway

- D) Amazon CloudFront

\*\*Answer: C) AWS Transit Gateway\*\*

89. \*\*How can a company restrict access to an S3 bucket to only specific IP addresses?\*\*

- A) Use bucket policies

- B) Use IAM policies

- C) Use VPC endpoints

- D) Use Amazon CloudFront

\*\*Answer: A) Use bucket policies\*\*

90. \*\*Which AWS service provides automatic encryption for data at rest?\*\*

- A) Amazon S3

- B) Amazon EBS

- C) Amazon RDS

- D) All of the above

\*\*Answer: D) All of the above\*\*

91. \*\*A company needs to create a fully managed data lake to store and analyze large datasets. Which service should they use?\*\*

- A) Amazon Redshift

- B) AWS Glue

- C) Amazon S3 and AWS Lake Formation

- D) Amazon RDS

\*\*Answer: C) Amazon S3 and AWS Lake Formation\*\*

92. \*\*Which AWS service can help you control and audit access to your AWS resources?\*\*

- A) AWS IAM

- B) AWS CloudTrail

- C) AWS CloudWatch

- D) AWS Config

\*\*Answer: A) AWS IAM\*\*

93. \*\*How can a company manage security and compliance across multiple AWS accounts?\*\*

- A) Use AWS Organizations

- B) Use AWS IAM roles

- C) Use AWS CloudFormation

- D) Use AWS Trusted Advisor

\*\*Answer: A) Use AWS Organizations\*\*

94. \*\*A company

needs to store large amounts of data that will be infrequently accessed but must be available immediately when needed. Which S3 storage class should they choose?\*\*

- A) S3 Standard

- B) S3 Intelligent-Tiering

- C) S3 One Zone-IA

- D) S3 Glacier

\*\*Answer: C) S3 One Zone-IA\*\*

95. \*\*Which AWS service provides an automated, continuous delivery pipeline?\*\*

- A) AWS CodeDeploy

- B) AWS CodePipeline

- C) AWS CodeBuild

- D) AWS CloudFormation

\*\*Answer: B) AWS CodePipeline\*\*

96. \*\*A company needs to deploy a highly available application across multiple Availability Zones. Which service can distribute incoming traffic to multiple EC2 instances?\*\*

- A) AWS Elastic Load Balancing

- B) AWS CloudFront

- C) Amazon RDS

- D) Amazon Route 53

\*\*Answer: A) AWS Elastic Load Balancing\*\*

97. \*\*Which AWS service helps protect your data from accidental deletion?\*\*

- A) AWS Shield

- B) Amazon S3 Versioning

- C) AWS CloudTrail

- D) AWS CloudHSM

\*\*Answer: B) Amazon S3 Versioning\*\*

98. \*\*A company needs to run a MySQL database with high availability and automatic backups. Which service should they choose?\*\*

- A) Amazon DynamoDB

- B) Amazon RDS

- C) Amazon Redshift

- D) Amazon Aurora

\*\*Answer: D) Amazon Aurora\*\*

99. \*\*Which AWS service can help you detect and respond to security incidents?\*\*

- A) AWS CloudTrail

- B) Amazon GuardDuty

- C) AWS IAM

- D) AWS Shield

\*\*Answer: B) Amazon GuardDuty\*\*

100. \*\*A company wants to enforce encryption of data at rest for all S3 buckets. Which AWS service can help automate this process?\*\*

- A) AWS IAM

- B) AWS Config

- C) AWS KMS

- D) AWS CloudFormation

\*\*Answer: B) AWS Config\*\*

I hope these questions and answers are helpful! Let me know if you'd like further details or assistance.

High Complexity (101-125)

A company is planning to use Amazon RDS for a mission-critical database that requires high availability and disaster recovery across regions. Which solution should they implement?

- A) RDS Multi-AZ deployments

- B) RDS Read Replicas

- C) RDS Global Database

- D) Amazon Aurora with Global Databases

sql

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\*\*Answer: D) Amazon Aurora with Global Databases\*\*

You need to design a data processing pipeline that ingests data from IoT devices, processes the data in real-time, and stores it in a data lake. Which combination of AWS services should you use?

- A) AWS IoT Core, AWS Lambda, Amazon S3

- B) Amazon Kinesis Data Streams, AWS Lambda, Amazon S3

- C) AWS IoT Core, Amazon Kinesis Data Analytics, Amazon Redshift

- D) Amazon Kinesis Data Streams, Amazon EMR, Amazon S3

makefile

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\*\*Answer: B) Amazon Kinesis Data Streams, AWS Lambda, Amazon S3\*\*

A company's web application needs to support 99.99% availability and automatic failover with near real-time data replication across regions. Which architecture should they use?

- A) Multi-AZ deployment with RDS Read Replicas

- B) Active-passive failover with Route 53

- C) Active-active multi-region architecture with Route 53 and DynamoDB Global Tables

- D) Multi-region S3 and Amazon CloudFront

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\*\*Answer: C) Active-active multi-region architecture with Route 53 and DynamoDB Global Tables\*\*

An enterprise is using AWS Transit Gateway to connect multiple VPCs and on-premises networks. They need to apply consistent security policies across these connections. What solution can help them achieve this?

- A) Use AWS Network Firewall with AWS Transit Gateway

- B) Use AWS WAF with AWS Transit Gateway

- C) Use Amazon GuardDuty with VPC Flow Logs

- D) Use AWS Security Hub with AWS Transit Gateway

csharp

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\*\*Answer: A) Use AWS Network Firewall with AWS Transit Gateway\*\*

A media company needs to serve large video files to a global audience with minimal latency and maximum throughput. Which AWS services and configurations should they use?

- A) Amazon S3 with Transfer Acceleration

- B) Amazon CloudFront with an S3 origin, enabled with multi-CDN

- C) Amazon CloudFront with MediaPackage

- D) AWS Global Accelerator with Amazon S3

csharp

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\*\*Answer: B) Amazon CloudFront with an S3 origin, enabled with multi-CDN\*\*

A financial institution requires secure access to AWS resources from their on-premises data center with low latency and high bandwidth. They also need to isolate traffic for different departments. What AWS service setup should they use?

- A) AWS Direct Connect with Private Virtual Interfaces (VIFs)

- B) AWS Site-to-Site VPN with VPC Peering

- C) AWS Transit Gateway with Direct Connect Gateway and VLAN tagging

- D) AWS Global Accelerator with Amazon VPC

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\*\*Answer: C) AWS Transit Gateway with Direct Connect Gateway and VLAN tagging\*\*

A company needs to implement a solution to store confidential data with regulatory compliance requirements, such as data encryption at rest and access controls. They also require key rotation and audit logging. Which AWS services should they use?

- A) Amazon S3, AWS IAM, AWS CloudTrail

- B) Amazon S3 with Server-Side Encryption (SSE) and AWS KMS, AWS CloudTrail

- C) Amazon RDS with Transparent Data Encryption (TDE), AWS IAM

- D) Amazon DynamoDB with SSE and AWS CloudHSM

arduino

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\*\*Answer: B) Amazon S3 with Server-Side Encryption (SSE) and AWS KMS, AWS CloudTrail\*\*

A company is deploying a microservices architecture and needs a solution to manage inter-service communication and tracing. They require features such as service discovery, fault tolerance, and telemetry. Which AWS service or combination should they use?

- A) AWS App Mesh with Amazon CloudWatch

- B) Amazon ECS with AWS X-Ray

- C) Amazon API Gateway with AWS CloudTrail

- D) Amazon SQS with AWS CloudTrail

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\*\*Answer: A) AWS App Mesh with Amazon CloudWatch\*\*

A large enterprise needs to implement an analytics platform to process petabytes of log data daily. They require real-time data ingestion, ETL processes, and long-term data storage. Which combination of AWS services should they use?

- A) Amazon Kinesis Data Firehose, AWS Glue, Amazon S3, and Amazon Athena

- B) Amazon EMR, Amazon RDS, Amazon S3, and Amazon Redshift

- C) Amazon Kinesis Data Streams, AWS Glue, Amazon S3, and Amazon QuickSight

- D) AWS Lambda, Amazon DynamoDB, Amazon S3, and AWS Lake Formation

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\*\*Answer: A) Amazon Kinesis Data Firehose, AWS Glue, Amazon S3, and Amazon Athena\*\*

A software-as-a-service (SaaS) provider needs to ensure tenant isolation while maintaining operational efficiency and scalability in a multi-tenant environment. Which AWS services and strategies should they use?

- A) Separate VPCs for each tenant with shared RDS instances

- B) Use AWS Organizations and Consolidated Billing

- C) Use IAM policies and resource-based policies for isolation

- D) Use Amazon Cognito for authentication, AWS Lambda for custom logic, and AWS Resource Access Manager (RAM) for resource sharing

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\*\*Answer: D) Use Amazon Cognito for authentication, AWS Lambda for custom logic, and AWS Resource Access Manager (RAM) for resource sharing\*\*

A company requires a real-time recommendation engine for its e-commerce platform. They need low latency and high throughput for serving recommendations. Which AWS services should they use?

- A) Amazon SageMaker with Real-Time Inference Endpoints

- B) Amazon Rekognition with AWS Lambda

- C) Amazon Personalize with Amazon DynamoDB

- D) AWS Glue with Amazon RDS

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\*\*Answer: C) Amazon Personalize with Amazon DynamoDB\*\*

A company is using Amazon ECS for container orchestration and needs a solution to monitor container-level metrics and set up alerts for performance issues. Which AWS services should they use?

- A) Amazon CloudWatch Container Insights and AWS X-Ray

- B) Amazon CloudTrail and AWS CloudFormation

- C) Amazon CloudWatch Logs and AWS Trusted Advisor

- D) Amazon ECS Event Stream and AWS IAM

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\*\*Answer: A) Amazon CloudWatch Container Insights and AWS X-Ray\*\*

An enterprise wants to implement a serverless data lake architecture on AWS. They need a solution for cataloging, data transformation, and querying with fine-grained access control. Which AWS services and features should they use?

- A) Amazon S3, AWS Glue, Amazon Athena, AWS Lake Formation

- B) Amazon S3, AWS Data Pipeline, Amazon Redshift, AWS IAM

- C) Amazon RDS, Amazon QuickSight, AWS Glue, AWS KMS

- D) AWS Lambda, Amazon DynamoDB, Amazon S3 Glacier, AWS WAF

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\*\*Answer: A) Amazon S3, AWS Glue, Amazon Athena, AWS Lake Formation\*\*

A gaming company needs a globally distributed, low-latency database for player data with automatic failover and multi-master capability. Which AWS service should they use?

- A) Amazon RDS with Multi-AZ

- B) Amazon Aurora Global Database

- C) Amazon DynamoDB Global Tables

- D) Amazon Redshift with Cross-Region Replication

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\*\*Answer: C) Amazon DynamoDB Global Tables\*\*

A media streaming service needs to transcode video files for different devices and resolutions. They require an automated, scalable solution that can integrate with existing storage in Amazon S3. Which AWS service should they use?

- A) AWS Elemental MediaConvert

- B) AWS Lambda with Amazon S3

- C) Amazon Elastic Transcoder

- D) AWS Data Pipeline with Amazon S3

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\*\*Answer: A) AWS Elemental MediaConvert\*\*

A company needs to migrate a large on-premises Oracle database to AWS with minimal downtime. They also require ongoing data replication for a hybrid cloud setup. Which AWS services should they use?

- A) AWS DMS (Database Migration Service) and AWS SCT (Schema Conversion Tool)

- B) AWS Snowball and Amazon RDS for Oracle

- C) AWS Data Pipeline and Amazon RDS for Oracle

- D) AWS Backup and AWS DataSync

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\*\*Answer: A) AWS DMS (Database Migration Service) and AWS SCT (Schema Conversion Tool)\*\*

A company wants to create a highly available and secure VPN connection between its on-premises network and AWS. They also need to ensure traffic is routed through a private link. Which AWS services and configurations should they use?

- A) AWS Site-to-Site VPN with Direct Connect and Private VIF

- B) AWS Transit Gateway with VPC Peering

- C) AWS Direct Connect with Public VIF

- D) AWS Global Accelerator with AWS WAF

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\*\*Answer: A) AWS Site-to-Site VPN with Direct Connect and Private VIF\*\*

A company is developing a multi-region web application that needs to comply with data residency requirements. They want to ensure that user data stays within specific geographic boundaries. Which AWS services and strategies should they use?

- A) Use Amazon S3 with cross-region replication and AWS WAF

- B) Deploy applications in multiple regions and use AWS Lambda for edge processing

- C) Use AWS Outposts to extend AWS infrastructure to on-premises locations

- D) Use Amazon RDS with cross-region read replicas and enforce data residency policies using IAM

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\*\*Answer: C) Use AWS Outposts to extend AWS infrastructure to on-premises locations\*\*

A SaaS provider needs to implement a robust logging and monitoring solution across its AWS environment. They want to collect, analyze, and visualize logs and metrics, as well as set up alerts for unusual activity. Which AWS services should they use?

- A) Amazon CloudWatch, AWS CloudTrail, and Amazon Elasticsearch Service (Amazon OpenSearch Service)

- B) Amazon CloudWatch, AWS CloudFormation, and Amazon Athena

- C) AWS Config, AWS Lambda, and Amazon QuickSight

- D) Amazon Kinesis Data Streams, AWS Glue, and Amazon Redshift

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\*\*Answer: A) Amazon CloudWatch, AWS CloudTrail, and Amazon Elasticsearch Service (Amazon OpenSearch Service)\*\*

A company needs to implement an end-to-end data encryption solution, including encryption in transit and at rest, for a highly regulated environment. They also need centralized key management and auditing capabilities. Which AWS services should they use?

- A) AWS KMS, Amazon S3 with Server-Side Encryption (SSE), and AWS CloudTrail

- B) AWS CloudHSM, Amazon RDS with Transparent Data Encryption (TDE), and AWS IAM

- C) AWS KMS, AWS Certificate Manager, and AWS CloudWatch

- D) AWS CloudHSM, AWS Secrets Manager, and Amazon S3

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\*\*Answer: A) AWS KMS, Amazon S3 with Server-Side Encryption (SSE), and AWS CloudTrail\*\*

A company wants to automate the process of provisioning AWS resources, managing configurations, and deploying applications. They require a solution that can handle complex dependencies and ensure consistency across environments. Which AWS service should they use?

- A) AWS CloudFormation

- B) AWS OpsWorks

- C) AWS CodePipeline

- D) AWS Elastic Beanstalk

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\*\*Answer: A) AWS CloudFormation\*\*

A retail company needs to design a scalable and highly available database architecture for their e-commerce website. They need to handle peak loads during sales events and ensure that the system can scale automatically. Which combination of AWS services and features should they use?

- A) Amazon RDS with Auto Scaling and Read Replicas

- B) Amazon DynamoDB with DynamoDB Auto Scaling and DAX

- C) Amazon Aurora with Multi-AZ and Global Database

- D) Amazon Redshift with Spectrum and Cross-Region Replication

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\*\*Answer: B) Amazon DynamoDB with DynamoDB Auto Scaling and DAX\*\*

A biotechnology company needs to process and analyze genomic data, requiring significant computational resources and storage. They want a cost-effective solution that can scale with their data and computation needs. Which AWS services and configurations should they use?

- A) Amazon EC2 Spot Instances with Auto Scaling, Amazon S3, and AWS Batch

- B) Amazon EMR, Amazon EFS, and Amazon S3 Glacier

- C) Amazon RDS, AWS Glue, and Amazon S3

- D) AWS Lambda, Amazon DynamoDB, and Amazon S3

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\*\*Answer: A) Amazon EC2 Spot Instances with Auto Scaling, Amazon S3, and AWS Batch\*\*

A global financial institution requires a highly secure and compliant infrastructure for its online banking platform. They need to ensure compliance with international regulations and implement advanced threat detection. Which AWS services and strategies should they use?

- A) AWS Shield Advanced, Amazon GuardDuty, and AWS Config

- B) AWS Shield Standard, Amazon Macie, and AWS Trusted Advisor

- C) AWS WAF, AWS KMS, and Amazon Inspector

- D) AWS Organizations, AWS Security Hub, and Amazon Detective

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\*\*Answer: D) AWS Organizations, AWS Security Hub, and Amazon Detective\*\*

A company needs to implement a hybrid cloud solution with their existing on-premises data center and AWS. They require consistent network performance, data transfer optimization, and secure data flow. Which AWS services should they use?

- A) AWS Direct Connect, AWS Storage Gateway, and AWS VPN

- B) AWS Snowball, Amazon S3 Transfer Acceleration, and AWS Lambda

- C) AWS Outposts, Amazon RDS, and AWS DataSync

- D) AWS CloudFormation, Amazon EC2, and AWS Batch

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\*\*Answer: A) AWS Direct Connect, AWS Storage Gateway, and AWS VPN\*\*

These high-complexity questions cover advanced use cases, integrating multiple AWS services, and tackling intricate design and operational challenges. Let me know if you need any more details or further questions!