

## QUIZ Questions CC

Which of the following is a deployment model of cloud computing?

- A) Public cloud
- B) Private cloud
- C) Hybrid cloud
- D) All of the above

Answer: D) All of the above

What does IaaS stand for?

- A) Internet as a Service
- B) Infrastructure as a Service
- C) Interface as a Service
- D) Information as a Service

Answer: B) Infrastructure as a Service

Which of the following is an example of a PaaS?

- A) Amazon EC2
- B) Google App Engine
- C) Microsoft Azure Virtual Machines
- D) Dropbox

Answer: B) Google App Engine

What does SaaS stand for?

- A) Software as a Service

B) Security as a Service

C) Storage as a Service

D) System as a Service

Answer: A) Software as a Service

5. Which AWS service allows you to create and manage virtual servers?

◦ A) Amazon RDS

◦ B) Amazon S3

◦ C) Amazon EC2

◦ D) Amazon CloudFront

◦ Answer: C) Amazon EC2

6. Elastic IP in AWS is associated with which of the following?

◦ A) Elastic Load Balancing

◦ B) Static IP addresses

◦ C) Auto Scaling

◦ D) VPN Connections

◦ Answer: B) Static IP addresses

7. Which of the following is a characteristic of cloud computing?

◦ A) Limited scalability

◦ B) Manual resource management

◦ C) On-demand self-service

◦ D) High upfront costs

- Answer: C) On-demand self-service

8. What is the primary benefit of using Elastic Load Balancing?

- A) Data storage
- B) Distributing traffic across multiple instances
- C) Automated backups
- D) Network security

- Answer: B) Distributing traffic across multiple instances

9. Which service model provides the consumer with the capability to use applications running on a cloud infrastructure?

- A) IaaS
- B) PaaS
- C) SaaS
- D) DaaS

- Answer: C) SaaS

10. What is the main advantage of using a public cloud?

- A) Enhanced security
- B) Cost-effectiveness
- C) Exclusive access
- D) Customizability

- Answer: B) Cost-effectiveness

11. Which AWS service is used for managing DNS?

- A) Amazon Route 53

- B) Amazon CloudWatch
- C) Amazon Redshift
- D) Amazon EMR
- Answer: A) Amazon Route 53

12. In the context of cloud computing, what does "scalability" refer to?

- A) The ability to handle increased load
- B) The ability to reduce costs
- C) The ability to secure data
- D) The ability to automate processes
- Answer: A) The ability to handle increased load

13. Which of the following is NOT a benefit of cloud computing?

- A) Flexibility
- B) Disaster recovery
- C) High maintenance costs
- D) Reduced capital expenditure
- Answer: C) High maintenance costs

14. What does EC2 stand for in AWS?

- A) Elastic Compute Cloud
- B) Electronic Computing Center
- C) External Cloud Computing
- D) Enhanced Cloud Cluster

- Answer: A) Elastic Compute Cloud

15. Which cloud service model allows developers to build, test, and deploy applications?

- A) IaaS
- B) PaaS
- C) SaaS
- D) DaaS

- Answer: B) PaaS

16. What is the main purpose of using an Elastic IP address in AWS?

- A) To increase storage capacity
- B) To have a static IP address that can be re-mapped
- C) To distribute incoming traffic
- D) To enhance data security

- Answer: B) To have a static IP address that can be re-mapped

17. Which deployment model offers cloud services to a specific organization?

- A) Public cloud
- B) Private cloud
- C) Hybrid cloud
- D) Community cloud

- Answer: B) Private cloud

18. What is the primary benefit of using PaaS for developers?

- A) Managing infrastructure
- B) Automating backups
- C) Developing and deploying applications without managing underlying infrastructure
- D) Enhancing network security
- Answer: C) Developing and deploying applications without managing underlying infrastructure

19. Which AWS service helps in automatically distributing incoming traffic across multiple targets?

- A) Amazon S3
- B) Amazon RDS
- C) Amazon CloudWatch
- D) Elastic Load Balancing
- Answer: D) Elastic Load Balancing

20. Which service model is used for hosting virtual machines, storage, and networks?

- A) IaaS
- B) PaaS
- C) SaaS
- D) DaaS
- Answer: A) IaaS

21. Which of the following is a deployment model of cloud computing?

- A) Public cloud

- B) Private cloud
- C) Hybrid cloud
- D) All of the above
- Answer: D) All of the above

22. What does IaaS stand for?

- A) Internet as a Service
- B) Infrastructure as a Service
- C) Interface as a Service
- D) Information as a Service
- Answer: B) Infrastructure as a Service

23. Which of the following is an example of a PaaS?

- A) Amazon EC2
- B) Google App Engine
- C) Microsoft Azure Virtual Machines
- D) Dropbox
- Answer: B) Google App Engine

24. What does SaaS stand for?

- A) Software as a Service
- B) Security as a Service
- C) Storage as a Service
- D) System as a Service

- Answer: A) Software as a Service

25. Which AWS service allows you to create and manage virtual servers?

- A) Amazon RDS
- B) Amazon S3
- C) Amazon EC2
- D) Amazon CloudFront

- Answer: C) Amazon EC2

26. Elastic IP in AWS is associated with which of the following?

- A) Elastic Load Balancing
- B) Static IP addresses
- C) Auto Scaling
- D) VPN Connections

- Answer: B) Static IP addresses

27. Which of the following is a characteristic of cloud computing?

- A) Limited scalability
- B) Manual resource management
- C) On-demand self-service
- D) High upfront costs

- Answer: C) On-demand self-service

28. What is the primary benefit of using Elastic Load Balancing?

- A) Data storage



- B) Distributing traffic across multiple instances
- C) Automated backups
- D) Network security

Answer: B) Distributing traffic across multiple instances

29. Which service model provides the consumer with the capability to use applications running on a cloud infrastructure?

- A) IaaS
- B) PaaS
- C) SaaS
- D) DaaS

◦ Answer: C) SaaS

30. What is the main advantage of using a public cloud?

- A) Enhanced security
- B) Cost-effectiveness
- C) Exclusive access
- D) Customizability

◦ Answer: B) Cost-effectiveness

31. Which AWS service is used for managing DNS?

- A) Amazon Route 53
- B) Amazon CloudWatch
- C) Amazon Redshift
- D) Amazon EMR

- Answer: A) Amazon Route 53

32. In the context of cloud computing, what does "scalability" refer to?

- A) The ability to handle increased load
- B) The ability to reduce costs
- C) The ability to secure data
- D) The ability to automate processes
- Answer: A) The ability to handle increased load

33. Which of the following is NOT a benefit of cloud computing?

- A) Flexibility
- B) Disaster recovery
- C) High maintenance costs
- D) Reduced capital expenditure
- Answer: C) High maintenance costs

34. What does EC2 stand for in AWS?

- A) Elastic Compute Cloud
- B) Electronic Computing Center
- C) External Cloud Computing
- D) Enhanced Cloud Cluster

Answer: A) Elastic Compute Cloud

35. Which cloud service model allows developers to build, test, and deploy applications?

- A) IaaS

- B) PaaS
- C) SaaS
- D) DaaS
- Answer: B) PaaS

36. What is the main purpose of using an Elastic IP address in AWS?

- A) To increase storage capacity
- B) To have a static IP address that can be re-mapped
- C) To distribute incoming traffic
- D) To enhance data security
- Answer: B) To have a static IP address that can be re-mapped

37. Which deployment model offers cloud services to a specific organization?

- A) Public cloud
- B) Private cloud
- C) Hybrid cloud
- D) Community cloud

Answer: B) Private cloud

38. What is the primary benefit of using PaaS for developers?

- A) Managing infrastructure
- B) Automating backups
- C) Developing and deploying applications without managing underlying infrastructure

- D) Enhancing network security
- Answer: C) Developing and deploying applications without managing underlying infrastructure

39. Which AWS service helps in automatically distributing incoming traffic across multiple targets?

- A) Amazon S3
- B) Amazon RDS
- C) Amazon CloudWatch
- D) Elastic Load Balancing
- Answer: D) Elastic Load Balancing

40. Which service model is used for hosting virtual machines, storage, and networks?

- A) IaaS
- B) PaaS
- C) SaaS
- D) DaaS
- Answer: A) IaaS

41. Which AWS service is designed for real-time streaming data processing?

- A. Amazon Kinesis
- B. AWS Lambda
- C. AWS Glue

D. Amazon S3

Answer: A

42. What AWS service helps you centrally manage multiple AWS accounts?

A. AWS IAM

B. AWS Organizations

C. AWS Control Tower

D. AWS Config

Answer: B

43. What AWS service helps migrate large-scale data into AWS?

A. AWS Snowball

B. AWS DataSync

C. AWS Storage Gateway

D. All of the Above

Answer: D

44. What AWS service allows real-time monitoring of applications and infrastructure?

**A. AWS CloudWatch**

B. AWS Config

C. AWS CloudTrail

D. AWS

Lambda

Answer: A

Which AWS service is best for managing access and permissions across AWS accounts?

A. AWS IAM

B. AWS Secrets Manager

C. Amazon Cognito

D. AWS KMS

Answer: A

What is the main advantage of AWS Fargate over Amazon ECS?

A. Allows running serverless containers

B. Provides root access to instances

C. Requires manual scaling

D. Only supports Windows

workloads Answer: A

Which AWS service helps automate compliance checks?

- A. AWS Config
- B. AWS Shield
- C. AWS WAF
- D. AWS Secrets

Manager Answer:

A

What AWS service provides fully managed Kubernetes?

- A. AWS ECS
- B. Amazon EKS
- C. AWS Lambda
- D. AWS

CloudFormation

Answer: B

What AWS service allows you to run serverless applications without managing servers?

- A. AWS Lambda

B. Amazon EC2

C. AWS Fargate

D. AWS

Glue

Answer: A

Which AWS service is used for setting up VPN connections?

A. AWS VPN

B. AWS Direct Connect

C. AWS Shield

D. AWS WAF

Answer: A

What AWS service is used to create and manage serverless APIs?

A. AWS Lambda

B. Amazon API Gateway

C. AWS CloudFormation



D. AWS Step

Functions

Answer: B

What is the key feature of AWS Elastic Beanstalk?

A. Automatic scaling and deployment

B. Serverless computing

C. Database management

D. Identity and Access

management Answer: A

Which AWS service is used for caching frequently accessed data?

A. AWS ElastiCache

B. AWS CloudFront

C. AWS S3

D. AWS IAM

Answer: A

Which AWS service is used for automating the provisioning of cloud resources using code?

A. AWS CloudFormation

B. AWS Config

C. AWS CloudTrail

D. AWS

Lambda

Answer: A

Which AWS service provides a managed NoSQL database?

A. Amazon RDS

B. Amazon Aurora

C. Amazon DynamoDB

D. Amazon

Redshift

Answer: C

Which AWS service provides security threat intelligence and monitoring?

- A. AWS Shield
- B. AWS Security Hub
- C. AWS WAF
- D. AWS Firewall

Manager Answer:

B

Which AWS service is used to manage and secure cryptographic keys?

- A. AWS KMS
- B. AWS Shield
- C. AWS Secrets Manager
- D. AWS IAM

Answer: A

What AWS service is best suited for event-driven computing?

- A. AWS Lambda
- B. AWS Auto Scaling

C. AWS ECS

D. Amazon

EC2

Answer: A

What AWS service helps optimize AWS cost usage?

A. AWS Cost Explorer

B. AWS Lambda

C. AWS Auto Scaling

D. AWS

CloudFormation

Answer: A

Which of the following is a key characteristic of cloud computing?

A. Restrict access to applications

B. Enhance physical storage only

C. On-demand resource provisioning

D. Increase

hardware cost

Which of the following is best suited for Domain Name System (DNS) service?

- A. Amazon EC2
- B. Route 53
- C. Amazon EBS
- D. Elastic Load

Balancing

What is a key method to achieve fault tolerance and high availability for a VPN connection in AWS?

- A. Enable AWS Direct Connect
- B. Use a single VPN tunnel with no redundancy
- C. Not configure any failover mechanisms
- D. Utilizing multiple, redundant VPN

tunnels/connections

Amazon VPC

Which AWS service allows the instance to increase and remove the resources to maintain a steady and better performance at the lowest possible cost?

- A. Elastic IP's
- B. Elastic Load Balancing
- C. Amazon Auto Scaling
- D. Amazon S3

In which level the Security groups in AWS works?

- A. Network level
- B. Storage level
- C. Subnet level
- D. Instance

level

In which case would you use an Elastic IP address within an Amazon VPC?

- E. To route traffic between VPCs
- F. To provide static IP addresses for EC2 instances in a public subnet
- G. To connect to an on-premises network
- H. To route traffic between VPNs

## Elastic Compute Cloud

What does Amazon EC2 stand for and describe the primary use of Amazon EC2?

- A. Elastic Compute Cloud, EC2 is a data storage solution.
- B. Elastic Compute Cloud, EC2 is virtual servers in the cloud.
- C. Elastic Cloud Cluster, EC2 is virtual servers in the cloud.
- D. Elastic Cloud Cluster, EC2 is a data storage solution.

## Elastic Compute Cloud

Which of the following is a key benefit of using AWS Elastic Load Balancer?

- A. Storing data
- B. Managing VPN
- C. Managing database services
- D. Distributing traffic

Which one of the following is NOT a characteristic of AWS security groups?

- E. They support deny rules
- F. They operate at the instance level
- G. They act as a virtual firewall
- H. They allow inbound and  
outbound rules

Which company is one of the leading cloud service providers?

- A. Amazon Web Services (AWS)
- B. Microsoft Azure
- C. Google Cloud (GCP)
- D. IBM

Tesla

How does the concept of elasticity in cloud computing work?

- A. By limiting the ability to increase resources.
- B. By allocating the resources by fixing the resource allocation.
- C. By adjusting manually.
- D. The ability to resize computing resources dynamically.



Which of the following can be used for security group rules in AWS?

- A. Instance IDs
- B. DNS Service
- C. IP addresses
- D. Outbound rule

What is the service that provides computing power in AWS?

- A. Amazon RDS
- B. Amazon EC2
- C. Amazon EBS
- D. Amazon S3

What is the service that allows you to distribute incoming application traffic across multiple targets such as EC2 instances to increase availability and fault tolerance?

- A. Auto-scaling Elastic Load Balancing (ELB)

B. Elastic Ips

C. AWS VPC

D. Security

Groups

What protocol is used by AWS site-to-site VPN for secure communication?

A. SSH

B. RDP

C. IPsec

D.

FTP

How can you reduce data transfer costs for Amazon S3?

A. Use Amazon S3 Transfer Acceleration

B. Use AWS Direct Connect

C. Store data in the same region

D. All of the

above

What is the service that stores both structured and unstructured data in AWS?

A. Amazon Redshift

B. Amazon EC2

C. Amazon Aurora

D. Amazon

S3

What is an Internet Gateway (IGW) purpose in a VPC?

A. To facilitate DNS resolution

B. Direct Connect

C. To allow communication between instances in the VPC and the internet

D. To enable DNS resolution for

internal services

Which AWS service is designed to manage relational databases?

A. DynamoDB

B. Lambda

C. RDS

D.

EC2

What's the main benefit of using AWS Client VPN?

A. Secure remote access

B. Data warehousing

C. Content delivery

D. High

availability

Which one of the following databases is NOT supported by Amazon RDS?

A. PostgreSQL

B. SQL Server

C. MySQL

D.

MongoDB

In AWS, which service is used for storing large amounts of unstructured data?

- A. Amazon S3
- B. Amazon RDS
- C. Amazon EBS
- D. Amazon Redshift

Which is the default CIDR block size for a new VPC?

- A. /24
- B. /28
- C. /32
- D. /16

When an EBS-backed EC2 instance is stopped and restarted, what will happen?

- A. The public IP address will change
- B. The existing volume is retained
- C. Detach the volume from instance
- D. Modify the volume size

The maximum number of nodes supported in an Amazon Redshift Cluster?

- A. 32
- B. 64
- C. 128
- D. 256

A start-up company plans to host a 3-tier application in AWS with web servers, application servers, and a database. How would you suggest designing their VPC architecture?

- E. Using AWS Direct Connect
- F. Public and private subnets with security groups
- G. Auto-scaling and load balancing the instances
- H. By Public subnet

What is the main use case for Amazon Timestream?

- A. Running machine learning models
- B. Managing transactional data
- C. Hosting web applications

D. Storing and analyzing

time-stamped data

An organization is processing petabyte-scale analytics for a data-complete solution. Which is the most appropriate AWS service for it?

A. Amazon RDS

B. Amazon DynamoDB

C. Amazon Redshift

D. Amazon

EC2

How many Availability Zones (AZs) are typically in an AWS Region?

A. 3 or more

B. 1 (or) 2

C. 2

D. 10

In a hackathon competition, a team wants to build a live mapping application that requires real-time data ingestion and flexible querying. Which AWS service is best suited for this task?

A. Amazon DynamoDB

B. Amazon RDS

C. Amazon Redshift

D. Amazon

Kinesis

What is the purpose of Auto Scaling Policies in Auto Scaling?

A. To optimize the cost of instances.

B. To optimize the storage service cost.

C. To define instance types for your instances.

D. To define the rules under which/when your instances should be added & removed.

Elastic Compute Cloud

Which AWS service is used for managing virtual private networks?

A. Amazon Route 53

B. Amazon VPN

C. Amazon S3



D. Amazon

EC2

In AWS, which one helps manage multiple VPC connections efficiently?

A. AWS VPN

B. AWS Transit Gateway

C. Amazon S3

D. AWS

Shield

What is the maximum number of security groups that can be created per AWS account per region?

A. 570

B. 500

C. 540

D. 600

Which EC2 instance type is optimized for general-purpose tasks?

A. T2

B. C5

C. M5

D. R5

Which feature of Route 53 ensures high availability by redirecting traffic to a backup instance if the primary fails?

A. Simple Routing

B. Failover Routing

C. Weighted Routing

D. Lambda

Service 2.0

Easy

1-point

If you deleted a security group that is still associated with an instance, what will happen?

A. The instance will get deleted (terminated)

B. The instance will be stopped

C. The instance will be normal running without errors

D. The instance will automatically get the

default security group

A start-up plans to deploy a VPC with public web servers and a private database. Which AWS service would best support this architecture?

E. Auto-scaling and Route 53

F. S3 hosting website

G. VPC with public and private subnets, and security groups

H. Amazon Machine

Image (AMI)

Which one of the following is not a benefit of AWS Global Infrastructure?

A. Increased application availability

B. Improved disaster recovery

C. Reduced data transfers costs

D. Lower latency for

end-users

Which AWS database service is a fully managed, conventional-compatible relational database?

A. Amazon RDS

B. Amazon DynamoDB

C. Amazon Redshift

D. Amazon

Aurora

A company wants to use AWS service. Which AWS service is typically used with Auto Scaling to distribute traffic across instances?

E. Elastic IP address

F. Elastic Load Balancing (ELB)

G. Elastic Compute Cloud

H. Elastic Beanstalk

Which of the following is NOT a feature of Amazon VPC?

A. Creating subnets

B. Controlling access with security groups

C. Hosting a relational database

D. Connecting to an

on-premises Network

Which cloud service model provides users with the application service but they do not need to worry about infrastructure management?

- A. IAAS
- B. PAAS
- C. SAAS
- D. All of the above

When you terminate the instance, which type of storage will get terminated by instance termination, and which storage type will be deleted?

- A. Amazon EBS
- B. Amazon S3
- C. Amazon EFS
- D. Amazon Instance Store

What exactly is Amazon Relational Database Service?

- A. A managed relational database service by AWS
- B. A NoSQL database service
- C. A log of database queries

D. To manage database

engine settings

Which cloud computing model offers an environment/platform for application development?

A. Infrastructure as a Service (IaaS)

B. Platform as a Service (PaaS)

C. Software as a Service (SaaS)

D. Network as a

Service (NaaS)

Which service in AWS is used to allocate the static IP address to an instance so that the instance will have continuous operation?

A. Public IP addresses

B. Amazon S3

C. Elastic IPs

D. AWS Elastic Load

Balancing (ELB)

A shopping mall is transitioning its legacy systems to AWS. They need to run custom-built applications on a cloud-native platform. Which AWS service will be most helpful?

E. Amazon Redshift for data warehousing

F. S3 bucket to keep website static

G. VPC for networking

H. EC2 instances for  
customizable environments

Which cloud service model provides users with the physical infrastructure management, and users are responsible for Applications, Data, Configuration, and Custom Settings?

A. IAAS

B. PAAS

C. SAAS

D. All of the  
above

Which type of load balancer would be most appropriate for routing applications to their best-suited instance?

- A. Application Load Balancer (ALB)
- B. Network Load Balancer (NLB)
- C. Classic Load Balancer (CLB)
- D. Gateway Load  
Balancer (GLB)

A media company wants to store and organize a large number of media files for a video streaming service. Which AWS service would be most suitable?

- A. Amazon EC2
- B. Amazon S3
- C. Amazon EBS
- D. Amazon  
RDS

What is an AWS Availability Zone (AZ)?

- A. A group of physical data centers
- B. A group of AWS data centers within a region
- C. A backup snapshots
- D. A group of  
resources



What is the protocol that is commonly used for Secure Shell (SSH) connections in AWS Security Groups?

- A. TCP 22
- B. TCP 3389
- C. UDP 443
- D. UDP 53

A developer needs to store a large volume of customer data that will be frequently accessed and updated. Which AWS storage service should the developer use?

- E. Amazon Glacier
- F. Amazon S3 Standard
- G. Amazon S3 Standard
- H. Amazon  
EBS

Elastic Compute Cloud

I need a storage class which is best suited for backup and disaster recovery data?

- A. S3 Standard
- B. S3 Glacier
- C. S3 Standard IA
- D. S3

Intelligent-Tiering

What is the main purpose of Amazon Route 53?

- A. Auto-scaling
- B. Load Balancing
- C. Storing files
- D. DNS

Management

Which AWS networking service provides direct private connectivity to AWS resources?

Which cloud service model allows the users to manage usage of the application and limited application-specific settings?

- A. IAAS
- B. PAAS
- C. SAAS
- D. All of the above

## Cloud Service Models

What is the main difference between AWS Availability Zones and Edge Locations?

- A. Edge Locations store backups
- B. Availability Zones improve security
- C. Edge Locations are used for computer services
- D. Availability Zones store data, while Edge

Locations only cache content Which company first introduced the concept of virtualization?

- A. IBM
- B. Intel

C. VMware

D. Device

Cloud

What is Amazon Timestream's primary purpose?

A. Managing relational databases

B. Data warehousing

C. Time series data storage and analysis

D. Providing content

delivery

Which of the following is an advantage of Cloud Computing?

A. Manual Maintenance

B. Limited Infrastructure

C. Cost Reduction

D. High Initial

Investment

A team needs to ensure that their web content is delivered globally with low latency. Which AWS service should they use?

E. Amazon EC2

F. Amazon S3

G. CloudFront

H. Amazon

Glacier

If an S3 multipart upload fails midway, what will happen?

A. The objects will be not uploaded

B. Only completed parts are retained

C. The buckets uploaded

D. Data will be

lost

What is the main purpose of cloud computing?

A. Hardware Components

B. Local-only data storage

C. Provide scalable and elastic computing resources

D. Hardware-bound

applications

Your EC2 instance is running a web application but only allows inbound connections from specific IP addresses. What AWS feature is enforcing this?

A. Security Groups

B. Route 53

C. NACL

D. Amazon

S3

Which type of data models are compatible with DynamoDB?

A. Relational and graph

B. Columnar and row-based

C. Hierarchical and network

D. Key-value and

document

Which storage class in AWS storage services allows data to be stored for long-term data archiving?

A. Amazon S3 Standard

B. Amazon S3 Glacier

C. Amazon EBS

D. Amazon S3

Standard-IA

What is the main purpose of an EBS Snapshot?

A. To increase EC2 instance

B. To provide real-time backups

C. To auto scale instances

D. To reduce

latency

An organization is planning to configure a VPN connection between their on-premises data center and AWS. How does this VPN ensure secure communication?

E. By creating elastic connections

F. By automating backups and instances

G. By restricting IP ranges

H. By encrypting data transferred

between environments

What is the highest and least CIDR block range you can set for an Amazon VPC?

- A. /8 to /24
- B. /20 to /28
- C. /16 to /28
- D. /16 to  
/20

What is the maximum number of VPN connections per AWS account per region?

- A. 15
- B. 10
- C. 50
- D. 100

Which of the following is NOT a cloud deployment model?

- A. Public Cloud
- B. Hybrid Cloud
- C. Community Cloud
- D. Distributed  
Cloud



If we want to access the data infrequently, which AWS storage class is best for this?

- A. S3 Standard
- B. S3 Standard-IA
- C. EBS
- D. Instance Store

Which AWS storage option is best suited for big data analytics?

- E. Amazon S3
- F. Amazon EBS
- G. Amazon RDS
- H. Amazon Redshift

What is the main advantage of multipart upload in S3?

- A. It helps in upload

B. It allows resuming failed uploads

C. It prevents objects to upload

D. It is storage

purpose

What is the purpose of virtualization in cloud computing?

A. Improve security

B. Reduce dependency on the internet

C. Enable multiple virtual machines to run on a single physical machine

D. Eliminate the need for

operating systems

In AWS, which feature allows you to replicate Amazon S3 buckets across regions?

A. AWS Global Infrastructure

B. AWS S3 Cross-Region Replication

C. AWS S3 Glacier

D. AWS

Instances

What is the main purpose of Amazon CloudFront?

A. Load balancing

B. Web hosting

C. Content delivery

D. Network

Security

What are the database engines supported by Amazon RDS?

A. SQL, Firestore, CouchDB

B. MySQL, Neo4j, PostgreSQL, Cassandra

C. MySQL, PostgreSQL, MariaDB, Oracle, SQL Server, Amazon Aurora

D. MongoDB, ArangoDB, Redis

Which AWS service is designed for real-time streaming data processing?

A. Amazon Kinesis

B. AWS Lambda

C. AWS Glue

D. Amazon

S3 Answer:

A

What AWS service helps you centrally manage multiple AWS accounts?

A. AWS IAM

B. AWS Organizations

C. AWS Control Tower

D. AWS

Config

Answer: B

What AWS service helps migrate large-scale data into AWS?

A. AWS Snowball

B. AWS DataSync

C. AWS Storage Gateway

D. All of the

above

Answer: D

What AWS service allows real-time monitoring of applications and infrastructure?

A. AWS CloudWatch

B. AWS Config

C. AWS CloudTrail

D. AWS

Lambda

Answer: A

Which AWS service is best for managing access and permissions across AWS accounts?

A. AWS IAM

B. AWS Secrets Manager

C. Amazon Cognito

D. AWS KMS

Answer: A

What is the main advantage of AWS Fargate over Amazon ECS?

- A. Allows running serverless containers
- B. Provides root access to instances
- C. Requires manual scaling
- D. Only supports Windows

workloads Answer: A

Which AWS service helps automate compliance checks?

- A. AWS Config
- B. AWS Shield
- C. AWS WAF
- D. AWS Secrets

Manager Answer:

A

What AWS service provides fully managed Kubernetes?

- A. AWS ECS
- B. Amazon EKS
- C. AWS Lambda
- D. AWS

CloudFormation

Answer: B

What AWS service allows you to run serverless applications without managing servers?

- A. AWS Lambda
- B. Amazon EC2
- C. AWS Fargate
- D. AWS

Glue

Answer: A

Which AWS service is used for setting up VPN connections?

- A. AWS VPN
- B. AWS Direct Connect

C. AWS Shield

D. AWS WAF

Answer: A

What AWS service is used to create and manage serverless APIs?

A. AWS Lambda

B. Amazon API Gateway

C. AWS CloudFormation

D. AWS Step

Functions

Answer: B

What is the key feature of AWS Elastic Beanstalk?

A. Automatic scaling and deployment

B. Serverless computing

C. Database management

D. Identity and Access

management Answer: A



Which AWS service is used for caching frequently accessed data?

- A. AWS ElastiCache
- B. AWS CloudFront
- C. AWS S3
- D. AWS IAM

Answer: A

Which AWS service is used for automating the provisioning of cloud resources using code?

- A. AWS CloudFormation
- B. AWS Config
- C. AWS CloudTrail
- D. AWS

Lambda

Answer: A

Which AWS service provides a managed NoSQL database?

- A. Amazon RDS

B. Amazon Aurora

C. Amazon DynamoDB

D. Amazon

Redshift

Answer: C

Which AWS service provides security threat intelligence and monitoring?

A. AWS Shield

B. AWS Security Hub

C. AWS WAF

D. AWS Firewall

Manager Answer:

B

Which AWS service is used to manage and secure cryptographic keys?

A. AWS KMS

B. AWS Shield

C. AWS Secrets Manager

D. AWS IAM

Answer: A

What AWS service is best suited for event-driven computing?

A. AWS Lambda

B. AWS Auto Scaling

C. AWS ECS

D. Amazon

EC2

Answer: A

What AWS service helps optimize AWS cost usage?

A. AWS Cost Explorer

B. AWS Lambda

C. AWS Auto Scaling

D. AWS

CloudFormation

Answer: A

Which of the following is a key characteristic of cloud computing?

- A. Restrict access to applications
- B. Enhance physical storage only
- C. On-demand resource provisioning
- D. Increase

hardware cost

Which of the following is best suited for Domain Name System (DNS) service?

- A. Amazon EC2
- B. Route 53
- C. Amazon EBS
- D. Elastic Load

Balancing

What is a key method to achieve fault tolerance and high availability for a VPN connection in AWS?

- A. Enable AWS Direct Connect
- B. Use a single VPN tunnel with no redundancy

C. Not configure any failover mechanisms

D. Utilizing multiple, redundant VPN

tunnels/connections

Amazon VPC

Which AWS service allows the instance to increase and remove the resources to maintain a steady and better performance at the lowest possible cost?

A. Elastic IP's

B. Elastic Load Balancing

C. Amazon Auto Scaling

D. Amazon

S3

In which level the Security groups in AWS works?

A. Network level

B. Storage level

C. Subnet level

D. Instance

level

In which case would you use an Elastic IP address within an Amazon VPC?

- E. To route traffic between VPCs
- F. To provide static IP addresses for EC2 instances in a public subnet
- G. To connect to an on-premises network
- H. To route traffic between VPNs

Elastic Compute Cloud

What does Amazon EC2 stand for and describe the primary use of Amazon EC2?

- A. Elastic Compute Cloud, EC2 is a data storage solution.
- B. Elastic Compute Cloud, EC2 is virtual servers in the cloud.
- C. Elastic Cloud Cluster, EC2 is virtual servers in the cloud.
- D. Elastic Cloud Cluster, EC2 is a data storage solution.

Elastic Compute Cloud

Which of the following is a key benefit of using AWS Elastic Load Balancer?

- A. Storing data
- B. Managing VPN
- C. Managing database services
- D. Distributing traffic

Which one of the following is NOT a characteristic of AWS security groups?

- E. They support deny rules
- F. They operate at the instance level
- G. They act as a virtual firewall
- H. They allow inbound and outbound rules

Which company is one of the leading cloud service providers?

- A. Amazon Web Services (AWS)
- B. Microsoft Azure
- C. Google Cloud (GCP)

D. IBM

Tesla

How does the concept of elasticity in cloud computing work?

- A. By limiting the ability to increase resources.
- B. By allocating the resources by fixing the resource allocation.
- C. By adjusting manually.
- D. The ability to resize computing resources dynamically.

Which of the following can be used for security group rules in AWS?

- A. Instance IDs
- B. DNS Service
- C. IP addresses
- D. Outbound

rule

What is the service that provides computing power in AWS?

- A. Amazon RDS



B. Amazon EC2

C. Amazon EBS

D. Amazon

S3

What is the service that allows you to distribute incoming application traffic across multiple targets such as EC2 instances to increase availability and fault tolerance?

A. Auto-scaling Elastic Load Balancing (ELB)

B. Elastic Ips

C. AWS VPC

D. Security

Groups

What protocol is used by AWS site-to-site VPN for secure communication?

A. SSH

B. RDP

C. IPsec

D.

FTP

How can you reduce data transfer costs for Amazon S3?

- A. Use Amazon S3 Transfer Acceleration
- B. Use AWS Direct Connect
- C. Store data in the same region
- D. All of the above

What is the service that stores both structured and unstructured data in AWS?

- A. Amazon Redshift
- B. Amazon EC2
- C. Amazon Aurora
- D. Amazon S3

What is an Internet Gateway (IGW) purpose in a VPC?

- A. To facilitate DNS resolution
- B. Direct Connect
- C. To allow communication between instances in the VPC and the internet

D. To enable DNS resolution for  
internal services

Which AWS service is designed to manage relational databases?

A. DynamoDB

B. Lambda

C. RDS

D.

EC2

What's the main benefit of using AWS Client VPN?

A. Secure remote access

B. Data warehousing

C. Content delivery

D. High

availability

Which one of the following databases is NOT supported by Amazon RDS?

A. PostgreSQL

B. SQL Server

C. MySQL

D.

MongoDB

In AWS, which service is used for storing large amounts of unstructured data?

A. Amazon S3

B. Amazon RDS

C. Amazon EBS

D. Amazon

Redshift

Which is the default CIDR block size for a new VPC?

A. /24

B. /28

C. /32

D. /16

When an EBS-backed EC2 instance is stopped and restarted, what will happen?

A. The public IP address will change

B. The existing volume is retained

C. Detach the volume from instance

D. Modify the

volume size

The maximum number of nodes supported in an Amazon Redshift Cluster?

A. 32

B. 64

C. 128

D. 256

A start-up company plans to host a 3-tier application in AWS with web servers, application servers, and a database. How would you suggest designing their VPC architecture?

E. Using AWS Direct Connect

F. Public and private subnets with security groups

G. Auto-scaling and load balancing the instances

H. By Public subnet

What is the main use case for Amazon Timestream?

A. Running machine learning models

B. Managing transactional data

C. Hosting web applications

D. Storing and analyzing

time-stamped data

An organization is processing petabyte-scale analytics for a data-complete solution. Which is the most appropriate AWS service for it?

A. Amazon RDS

B. Amazon DynamoDB

C. Amazon Redshift

D. Amazon

EC2

How many Availability Zones (AZs) are typically in an AWS Region?

- A. 3 or more
- B. 1 (or) 2
- C. 2
- D. 10

In a hackathon competition, a team wants to build a live mapping application that requires real-time data ingestion and flexible querying. Which AWS service is best suited for this task?

- A. Amazon DynamoDB
- B. Amazon RDS
- C. Amazon Redshift
- D. Amazon

Kinesis

What is the purpose of Auto Scaling Policies in Auto Scaling?

- A. To optimize the cost of instances.
- B. To optimize the storage service cost.
- C. To define instance types for your instances.

D. To define the rules under which/when your instances should be added & removed.

## Elastic Compute Cloud

Which AWS service is used for managing virtual private networks?

A. Amazon Route 53

B. Amazon VPN

C. Amazon S3

D. Amazon

## EC2

In AWS, which one helps manage multiple VPC connections efficiently?

A. AWS VPN

B. AWS Transit Gateway

C. Amazon S3

D. AWS

## Shield

What is the maximum number of security groups that can be created per AWS account per region?



A. 570

B. 500

C. 540

D. 600

Which EC2 instance type is optimized for general-purpose tasks?

A. T2

B. C5

C. M5

D. R5

Which feature of Route 53 ensures high availability by redirecting traffic to a backup instance if the primary fails?

A. Simple Routing

B. Failover Routing

C. Weighted Routing

D. Lambda

Service 2.0

Easy

1-point

If you deleted a security group that is still associated with an instance, what will happen?

- A. The instance will get deleted (terminated)
- B. The instance will be stopped
- C. The instance will be normal running without errors
- D. The instance will automatically get the default security group

A start-up plans to deploy a VPC with public web servers and a private database. Which AWS service would best support this architecture?

- E. Auto-scaling and Route 53
- F. S3 hosting website
- G. VPC with public and private subnets, and security groups
- H. Amazon Machine

Image (AMI)

Which one of the following is not a benefit of AWS Global Infrastructure?

- A. Increased application availability

- B. Improved disaster recovery
- C. Reduced data transfers costs
- D. Lower latency for  
end-users

Which AWS database service is a fully managed, conventional-compatible relational database?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon Redshift
- D. Amazon

Aurora

A company wants to use AWS service. Which AWS service is typically used with Auto Scaling to distribute traffic across instances?

- E. Elastic IP address
- F. Elastic Load Balancing (ELB)
- G. Elastic Compute Cloud
- H. Elastic Beanstalk

Which of the following is NOT a feature of Amazon VPC?

- A. Creating subnets
- B. Controlling access with security groups
- C. Hosting a relational database
- D. Connecting to an  
on-premises Network

Which cloud service model provides users with the application service but they do not need to worry about infrastructure management?

- A. IAAS
- B. PAAS
- C. SAAS
- D. All of the  
above

When you terminate the instance, which type of storage will get terminated by instance termination, and which storage type will be deleted?

- A. Amazon EBS
- B. Amazon S3
- C. Amazon EFS

D. Amazon

Instance Store

What exactly is Amazon Relational Database Service?

A. A managed relational database service by AWS

B. A NoSQL database service

C. A log of database queries

D. To manage database

engine settings

Which cloud computing model offers an environment/platform for application development?

A. Infrastructure as a Service (IaaS)

B. Platform as a Service (PaaS)

C. Software as a Service (SaaS)

D. Network as a

Service (NaaS)

Which service in AWS is used to allocate the static IP address to an instance so that the instance will have continuous operation?

- A. Public IP addresses
- B. Amazon S3
- C. Elastic Ips
- D. AWS Elastic Load

Balancing (ELB)

A shopping mall is transitioning its legacy systems to AWS. They need to run custom-built applications on a cloud-native platform. Which AWS service will be most helpful?

- E. Amazon Redshift for data warehousing
- F. S3 bucket to keep website static
- G. VPC for networking
- H. EC2 instances for  
customizable environments

Which cloud service model provides users with the physical infrastructure management, and users are responsible for Applications, Data, Configuration, and Custom Settings?

- A. IAAS
- B. PAAS

C. SAAS

D. All of the

above

Which type of load balancer would be most appropriate for routing applications to their best-suited instance?

A. Application Load Balancer (ALB)

B. Network Load Balancer (NLB)

C. Classic Load Balancer (CLB)

D. Gateway Load

Balancer (GLB)

A media company wants to store and organize a large number of media files for a video streaming service. Which AWS service would be most suitable?

A. Amazon EC2

B. Amazon S3

C. Amazon EBS

D. Amazon

RDS

What is an AWS Availability Zone (AZ)?

- A. A group of physical data centers
- B. A group of AWS data centers within a region
- C. A backup snapshots
- D. A group of  
resources

What is the protocol that is commonly used for Secure Shell (SSH) connections in AWS Security Groups?

- A. TCP 22
- B. TCP 3389
- C. UDP 443
- D. UDP 53

A developer needs to store a large volume of customer data that will be frequently accessed and updated. Which AWS storage service should the developer use?

- E. Amazon Glacier
- F. Amazon S3 Standard



G. Amazon S3 Standard

H. Amazon

EBS

Elastic Compute Cloud

I need a storage class which is best suited for backup and disaster recovery data?

A. S3 Standard

B. S3 Glacier

C. S3 Standard IA

D. S3

Intelligent-Tiering

What is the main purpose of Amazon Route 53?

A. Auto-scaling

B. Load Balancing

C. Storing files

D. DNS

Management

Which AWS networking service provides direct private connectivity to AWS resources?

Which cloud service model allows the users to manage usage of the application and limited application-specific settings?

A. IAAS

B. PAAS

C. SAAS

D. All of the

above

Cloud Service Models

What is the main difference between AWS Availability Zones and Edge Locations?

A. Edge Locations store backups

B. Availability Zones improve security

C. Edge Locations are used for computer services

D. Availability Zones store data, while Edge

Locations only cache content Which company first introduced the concept of virtualization?

A. IBM

B. Intel

C. VMware

D. Device

Cloud

What is Amazon Timestream's primary purpose?

A. Managing relational databases

B. Data warehousing

C. Time series data storage and analysis

D. Providing content

delivery

Which of the following is an advantage of Cloud Computing?

A. Manual Maintenance

B. Limited Infrastructure

C. Cost Reduction

D. High Initial

Investment

A team needs to ensure that their web content is delivered globally with low latency. Which AWS service should they use?

E. Amazon EC2

F. Amazon S3

G. CloudFront

H. Amazon

Glacier

If an S3 multipart upload fails midway, what will happen?

A. The objects will be not uploaded

B. Only completed parts are retained

C. The buckets uploaded

D. Data will be

lost

What is the main purpose of cloud computing?

A. Hardware Components

- B. Local-only data storage
- C. Provide scalable and elastic computing resources
- D. Hardware-bound

applications

Your EC2 instance is running a web application but only allows inbound connections from specific IP addresses. What AWS feature is enforcing this?

- A. Security Groups
- B. Route 53
- C. NACL
- D. Amazon

S3

Which type of data models are compatible with DynamoDB?

- A. Relational and graph
- B. Columnar and row-based
- C. Hierarchical and network

D. Key-value and  
document

Which storage class in AWS storage services allows data to be stored for long-term data archiving?

- A. Amazon S3 Standard
- B. Amazon S3 Glacier
- C. Amazon EBS
- D. Amazon S3  
Standard-IA

What is the main purpose of an EBS Snapshot?

- A. To increase EC2 instance
- B. To provide real-time backups
- C. To auto scale instances
- D. To reduce  
latency

An organization is planning to configure a VPN connection between their on-premises data center and AWS. How does this VPN ensure secure communication?

- E. By creating elastic connections
- F. By automating backups and instances
- G. By restricting IP ranges
- H. By encrypting data transferred

between environments

What is the highest and least CIDR block range you can set for an Amazon VPC?

- A. /8 to /24
- B. /20 to /28
- C. /16 to /28
- D. /16 to /20

What is the maximum number of VPN connections per AWS account per region?

- A. 15
- B. 10
- C. 50
- D. 100

Which of the following is NOT a cloud deployment model?

- A. Public Cloud
- B. Hybrid Cloud
- C. Community Cloud
- D. Distributed  
Cloud

If we want to access the data infrequently, which AWS storage class is best for this?

- A. S3 Standard
- B. S3 Standard-IA
- C. EBS
- D. Instance  
Store

Which AWS storage option is best suited for big data analytics?

- E. Amazon S3



F. Amazon EBS

G. Amazon RDS

H. Amazon

Redshift

What is the main advantage of multipart upload in S3?

A. It helps in upload

B. It allows resuming failed uploads

C. It prevents objects to upload

D. It is storage

purpose

What is the purpose of virtualization in cloud computing?

A. Improve security

B. Reduce dependency on the internet

C. Enable multiple virtual machines to run on a single physical machine

D. Eliminate the need for

operating systems

In AWS, which feature allows you to replicate Amazon S3 buckets across regions?

- A. AWS Global Infrastructure
- B. AWS S3 Cross-Region Replication
- C. AWS S3 Glacier
- D. AWS

Instances

What is the main purpose of Amazon CloudFront?

- A. Load balancing
- B. Web hosting
- C. Content delivery
- D. Network

Security

## **Amazon RDS (Relational Database Service)**

### **Easy Questions**

**What does RDS stand for?**

- a) Reliable Database Service
- b) Relational Database Service
- c) Resilient Data Service
- d) Regional Data Service

**Answer:** b) Relational Database Service

**Which engine is NOT supported by Amazon RDS?**

- a) MySQL
- b) PostgreSQL
- c) Redis
- d) Oracle

**Answer:** c) Redis

**Which feature of Amazon RDS automates backups, database snapshots, and log backups?**

- a) Multi-AZ Deployment
- b) Automated Backups
- c) Read Replicas
- d) Reserved Instances

**Answer:** b) Automated Backups

**What is the purpose of Amazon RDS Multi-AZ deployments?**

- a) Increase read capacity
- b) Provide high availability

- c) Reduce storage costs
- d) Improve write performance

**Answer:** b) Provide high availability

**Which of the following is a feature of Amazon RDS?**

- a) Automated Software Patching
- b) Serverless Architecture
- c) Object Storage
- d) Machine Learning

**Answer:** a) Automated Software Patching

**Hard Questions**

**What is the maximum number of Read Replicas you can create from a single Amazon RDS database instance?**

- a) 1
- b) 3
- c) 5
- d) 7

**Answer:** c) 5

**Which Amazon RDS feature helps in scaling read-heavy database workloads?**

- a) Multi-AZ Deployment
- b) Read Replicas
- c) Database Snapshots
- d) Automated Backups

**Answer:** b) Read Replicas

**Which encryption method does Amazon RDS use for data at rest?**

- a) AES-128
- b) AES-192
- c) AES-256
- d) RSA-2048

**Answer:** c) AES-256

**Which Amazon RDS feature ensures minimal downtime when upgrading the database engine version?**

- a) Multi-AZ Deployment
- b) Read Replicas
- c) Database Snapshots
- d) In-Place Upgrade

**Answer:** a) Multi-AZ Deployment

**What is the default backup retention period for Amazon RDS?**

- a) 1 day
- b) 7 days
- c) 30 days
- d) 35 days

**Answer:** b) 7 days

### **Scenario-Based Questions**

**You need to perform a point-in-time recovery for your Amazon RDS instance. Which feature should you use?**

- a) Read Replicas
- b) Automated Backups
- c) Database Snapshots

d) Multi-AZ Deployment

**Answer:** b) Automated Backups

**Your application requires a high-availability database with automatic failover. Which feature of Amazon RDS should you use?**

a) Read Replicas

b) Multi-AZ Deployment

c) Database Snapshots

d) Aurora Serverless

**Answer:** b) Multi-AZ Deployment

**Your Amazon RDS instance is running out of storage. What should you do to prevent downtime?**

a) Increase instance size

b) Enable storage auto-scaling

c) Create Read Replicas

d) Manually add storage

**Answer:** b) Enable storage auto-scaling

**You want to move your existing on-premises database to Amazon RDS with minimal downtime. Which service can help you achieve this?**

a) AWS DMS (Database Migration Service)

b) AWS Snowball

c) Amazon S3

d) AWS Glue

**Answer:** a) AWS DMS (Database Migration Service)

**Your application demands high read throughput. Which combination of features can optimize read performance for Amazon RDS?**

- a) Multi-AZ Deployment and Database Snapshots
- b) Read Replicas and ElastiCache
- c) Automated Backups and Multi-AZ Deployment
- d) Reserved Instances and Read Replicas

**Answer:** b) Read Replicas and ElastiCache

## **Amazon DynamoDB**

### **Easy Questions**

**What type of data model does DynamoDB use?**

- a) Document-based
- b) Key-value
- c) Graph-based
- d) Relational

**Answer:** b) Key-value

**Which consistency model is the default in DynamoDB?**

- a) Strongly Consistent Reads
- b) Eventually Consistent Reads
- c) Immediate Consistent Reads
- d) Eventual Consistency only for writes

**Answer:** b) Eventually Consistent Reads

**What is the maximum size of a single item in DynamoDB?**

- a) 1 MB
- b) 2 MB
- c) 4 MB

d) 8 MB

**Answer:** a) 1 MB

**Which feature allows you to perform transactional operations in DynamoDB?**

a) Streams

b) Global Tables

c) Transactions

d) Partitions

**Answer:** c) Transactions

**Which type of secondary index allows you to query data using an attribute other than the primary key?**

a) Global Secondary Index

b) Local Secondary Index

c) Partition Index

d) Hash Index

**Answer:** a) Global Secondary Index

### **Hard Questions**

**What is the maximum number of Global Secondary Indexes you can create per table in DynamoDB?**

a) 5

b) 10

c) 15

d) 20

**Answer:** b) 10

**How does DynamoDB handle partitions when table data grows beyond a certain size?**



- a) Merging
- b) Clustering
- c) Sharding
- d) Scaling down

**Answer:** c) Sharding

**Which DynamoDB feature allows you to capture and view changes to items in the table?**

- a) Streams
- b) Partitions
- c) Transactions
- d) Consistent Reads

**Answer:** a) Streams

**What is the maximum throughput you can set for a single DynamoDB table?**

- a) 10,000 RCUs and 10,000 WCUs
- b) 40,000 RCUs and 40,000 WCUs
- c) 100,000 RCUs and 100,000 WCUs
- d) Unlimited

**Answer:** d) Unlimited

**Which feature should you use to replicate DynamoDB tables across multiple AWS regions?**

- a) Global Tables
- b) Local Secondary Index
- c) DynamoDB Streams
- d) Cross-Region Replication

**Answer:** a) Global Tables

## Scenario-Based Questions

**Your application requires millisecond latency for read and write operations. Which DynamoDB consistency model should you choose?**

- a) Eventually Consistent Reads
- b) Strongly Consistent Reads
- c) Weakly Consistent Reads
- d) Immediate Consistent Reads

**Answer:** a) Eventually Consistent Reads

**You need to ensure that changes made to a DynamoDB table are captured and processed in real-time. Which feature should you use?**

- a) Partitions
- b) Streams
- c) Consistent Reads
- d) Global Tables

**Answer:** b) Streams

**Your application requires multiple attributes to be used in query conditions. Which design pattern should you use?**

- a) Single Table Design
- b) Composite Primary Key
- c) Global Secondary Index
- d) Local Secondary Index

**Answer:** c) Global Secondary Index

**Your DynamoDB table is reaching its throughput limit due to a high number of write operations. What should you do to handle the increased load?**

- a) Decrease item size

- b) Use provisioned throughput
- c) Enable auto-scaling
- d) Manually increase capacity

**Answer:** c) Enable auto-scaling

**You need to store and retrieve hierarchical data in DynamoDB. Which design pattern should you use to model the relationships between entities?**

- a) Composite Key with Partition Key and Sort Key
- b) Single Table Design
- c) Use Global Secondary Indexes
- d) Transactions

**Answer:** a) Composite Key with Partition Key

## **MCQ's – Ec2**

### **1. What is AWS (Amazon Web Services)?**

- A. A web browser
- B. A cloud computing platform
- C. A programming language
- D. A database management system
- **Answer:** B. A cloud computing platform

### **2. What does EC2 stand for in AWS?**

- A. Elastic Compute Cloud
- B. Elastic Container Cloud
- C. Enterprise Compute Cloud
- D. Elastic Content Cloud
- **Answer:** A. Elastic Compute Cloud

### 3. What is an AMI in AWS?

- A. Amazon Managed Instance
- B. Amazon Machine Image
- C. Amazon Multi Instance
- D. Amazon Monitoring Instance
- **Answer:** B. Amazon Machine Image

### 4. What is an Elastic IP?

- A. A static IPv4 address designed for dynamic cloud computing
- B. A dynamic IP address for cloud instances
- C. An IP address range for VPCs
- D. A private IP address for instances
- **Answer:** A. A static IPv4 address designed for dynamic cloud computing

**5. What is the purpose of Elastic Load Balancing (ELB)?**

- A. To store data
- B. To distribute incoming traffic across multiple instances
- C. To monitor instances
- D. To manage databases
- **Answer:** B. To distribute incoming traffic across multiple instances

**Medium Questions**

**6. Which instance type is suitable for general-purpose workloads?**

- A. t2.micro
- B. m5.large
- C. r5.large
- D. p3.2xlarge
- **Answer:** B. m5.large

**7. What is the benefit of using Auto Scaling in AWS?**

- A. Improved database performance

- B. Automatic adjustment of compute resources based on demand
- C. Enhanced security
- D. Faster data transfer rates
- **Answer:** B. Automatic adjustment of compute resources based on demand

**8. Which component of an AMI includes software configurations?**

- A. Block device mapping
- B. Instance type
- C. Permissions
- D. User data scripts
- **Answer:** D. User data scripts

**9. What is the use of Elastic IP addresses in AWS?**

- A. To provide dynamic IP addresses to instances
- B. To ensure a static IP address for instances
- C. To assign private IP addresses to instances

- D. To manage VPC subnets
- **Answer:** B. To ensure a static IP address for instances

10. **How does Elastic Load Balancing improve fault tolerance?**

- A. By storing data redundantly
- B. By monitoring instances and rerouting traffic to healthy instances
- C. By increasing compute power
- D. By enhancing security protocols
- **Answer:** B. By monitoring instances and rerouting traffic to healthy instances

## **Hard Questions**

11. **What is the difference between Instance Store-backed and EBS-backed AMIs?**

- A. Instance Store-backed AMIs can be stopped and started, while EBS-backed AMIs cannot.
- B. EBS-backed AMIs can be stopped and started, while Instance Store-backed AMIs cannot.

- C. Instance Store-backed AMIs offer persistent storage, while EBS-backed AMIs do not.
- D. EBS-backed AMIs are used for temporary storage, while Instance Store-backed AMIs are not.
- **Answer:** B. EBS-backed AMIs can be stopped and started, while Instance Store-backed AMIs cannot.

**12. How does Auto Scaling determine the number of instances to launch or terminate?**

- A. Based on predefined schedules only
- B. Based on network traffic only
- C. Based on scaling policies and metrics such as CPU utilization
- D. Based on user input only
- **Answer:** C. Based on scaling policies and metrics such as CPU utilization

**13. What are the key components of an AMI?**

- A. Instance type and security groups



- B. Template for the root volume, launch permissions, and block device mapping
- C. Elastic IP and load balancers
- D. VPC and subnets
- **Answer:** B. Template for the root volume, launch permissions, and block device mapping

14. **How do you create an AMI from an existing EC2 instance?**

- A. By using the AWS CLI only
- B. By taking a snapshot of the instance and registering it as an AMI
- C. By terminating the instance and creating a new AMI
- D. By copying an existing AMI
- **Answer:** B. By taking a snapshot of the instance and registering it as an AMI

15. **What is the purpose of an Elastic Load Balancer in a highly available architecture?**

- A. To provide additional storage
- B. To ensure continuous availability and distribute traffic across multiple instances

- C. To monitor application performance
- D. To configure security groups
- **Answer:** B. To ensure continuous availability and distribute traffic across multiple instances

## Scenario-Based MCQs

16. **Scenario:** Your application experiences variable traffic, and you need to ensure it runs cost-effectively. Which AWS feature should you use?

- A. Amazon RDS
- B. Auto Scaling
- C. Amazon Redshift
- D. AWS CloudTrail
- **Answer:** B. Auto Scaling

17. **Scenario:** You need to launch a fleet of EC2 instances for a batch processing job and want to ensure they all use the same configuration. What should you use?

- A. Elastic IPs
- B. Elastic Load Balancers
- C. Amazon Machine Images (AMIs)

- D. AWS Config
- **Answer:** C. Amazon Machine Images (AMIs)

18. **Scenario:** Your organization wants to ensure that their application has a highly available and fault-tolerant setup. What AWS service should they configure?

- A. Amazon S3
- B. Elastic Load Balancing (ELB)
- C. AWS Lambda
- D. Amazon Route 53
- **Answer:** B. Elastic Load Balancing (ELB)

19. **Scenario:** You need to manage IP addresses efficiently for instances in your VPC. Which AWS feature helps you achieve this?

- A. Elastic IPs
- B. AWS Direct Connect
- C. AWS CloudFormation
- D. Amazon CloudFront
- **Answer:** A. Elastic IPs

20. **Scenario:** Your application is heavily used during certain times of the day and idle during others. You want to minimize costs while ensuring performance. Which strategy should you implement?

- A. Using Reserved Instances
- B. Using Spot Instances
- C. Auto Scaling with On-Demand Instances
- D. Using Dedicated Hosts
- **Answer:** C. Auto Scaling with On-Demand Instances

21. **Scenario:** You want to maintain a specific EC2 instance's IP address even after stopping and starting the instance. What should you use?

- A. VPC Peering
- B. Elastic IP
- C. AWS Direct Connect
- D. Placement Groups
- **Answer:** B. Elastic IP

22. **Scenario:** You need to launch multiple instances with the same software configurations for a

web application. What should you use to streamline this process?

- A. Elastic IP
- B. Amazon S3
- C. Amazon Machine Image (AMI)
- D. AWS Lambda
- **Answer:** C. Amazon Machine Image (AMI)

23. **Scenario:** You are running an online retail application that sees increased traffic during holiday sales. How can you ensure your infrastructure scales accordingly?

- A. Manually launch additional instances
- B. Use AWS Lambda functions
- C. Implement Auto Scaling
- D. Increase instance size
- **Answer:** C. Implement Auto Scaling

24. **Scenario:** You need to balance load across multiple EC2 instances located in different Availability Zones. What AWS service will help you achieve this?

- A. AWS CloudTrail

- B. AWS CloudFormation
- C. Elastic Load Balancing (ELB)
- D. AWS Direct Connect
- **Answer:** C. Elastic Load Balancing (ELB)

25. **Scenario:** Your application needs to handle sudden spikes in traffic and maintain low latency. Which instance type and feature should you consider?

- A. t2.micro with Elastic IP
- B. m5.large with Elastic Load Balancer
- C. p3.2xlarge with Auto Scaling
- D. r5.large with Reserved Instances

**Answer:** B. m5.large with Elastic Load Balancer

**1. What is the maximum size of an object that can be stored in Amazon S3?**

a) 2 GB b) 5 GB c) 6 TB d) 32 TB

**Answer:** c) 5 TB

**2. Which S3 storage class is designed for long-term archival storage with retrieval times in hours?**

a) S3 Standard b) S3 Glacier Deep Archive c) S3 Intelligent-Tiering d) S3 One Zone-IA

**Answer:** b) S3 Glacier Deep Archive

**3. What is the primary purpose of Amazon Elastic Block Store (EBS)?**

a) Object storage for unstructured data b) Block storage for EC2 instances c) Archival storage for infrequently accessed data d) File storage for shared access

**Answer:** b) Block storage for EC2 instances

**4. Which of the following is NOT a feature of Amazon S3?**

a) Versioning b) Lifecycle policies c) Automatic scaling d) Real-time data processing **Answer:**  
d) Real-time data processing

**5. What is the default durability of objects stored in Amazon S3?**

a) 99.9% b) 99.99% c) 99.999999999% (11 nines) d) 100%

**Answer:** c) 99.999999999% (11 nines)

**6. Which S3 storage class is best suited for data with unpredictable access patterns?**

a) S3 Standard b) S3 Intelligent-Tiering c) S3 Glacier Flexible Retrieval d) S3 One Zone-IA

**Answer:** b) S3 Intelligent-Tiering

**7. What is the primary difference between S3 Standard and S3 Standard-IA?**

a) Durability b) Availability c) Cost and access frequency d) Data redundancy

**Answer:** c) Cost and access frequency

**8. Which of the following is a key feature of Amazon Glacier?**

a) High-speed data retrieval b) Low-cost archival storage c) Real-time analytics d) Automatic data replication

**Answer:** b) Low-cost archival storage

**9. What is the maximum size of a single EBS volume?**

a) 1 TB b) 16 TB c) 64 TB d) 128 TB

**Answer:** c) 64 TB

**10. Which of the following is a valid use case for Amazon S3?**

a) Hosting a static website b) Running a relational database c) Real-time video streaming d) High-performance computing

**Answer:** a) Hosting a static website

11. Which AWS service is used to allocate a static IP address that can be associated with dynamic cloud computing instances?



- A. Amazon S3
- B. Amazon RDS
- C. Elastic IPs
- D. AWS CloudFront
- **\*\*Answer:\*\*** C

12. Which AWS service allows for horizontal scaling of databases?

- A. Amazon RDS Multi-AZ
- B. Amazon S3 Glacier
- C. Amazon RDS Read Replicas
- D. AWS CloudTrail
- Answer: C

13. Which of the following is a core service provided by AWS?

- A. Web hosting
- B. Online payment processing
- C. Cloud storage
- D. Customer relationship management (CRM)
- Answer: C

**14. Which feature of S3 enables the automatic transfer of objects between different storage classes based on lifecycle policies?**

a) Cross-region replication b) Versioning c) S3 Lifecycle Management d) Multipart upload **Answer:** c) S3 Lifecycle Management

**15. What is the main advantage of Amazon EBS Snapshots?**

a) Enhanced durability for objects b) Backups are incremental to save storage costs c) Real-time replication across regions d) Automatic deletion of old data **Answer:** b) Backups are incremental to save storage costs

**16. Which AWS service allows you to create and manage multiple S3 buckets across accounts?**

a) AWS Organizations b) Amazon CloudWatch c) AWS S3 Management Console d) AWS Control Tower **Answer:** c) AWS S3 Management Console

**17. How is data stored in S3 Glacier accessed?**

a) Using immediate access APIs b) Through retrieval jobs with a waiting period c) By enabling S3 Accelerated Transfer d) With HTTP GET requests directly **Answer:** b) Through retrieval jobs with a waiting period

**18. What is the minimum size of an S3 Glacier archive?**

a) 1 KB b) 128 KB c) 1 MB d) 100 MB **Answer:** b) 128 KB

**19. Which EBS volume type is optimized for throughput-intensive workloads?**

a) General Purpose SSD (gp3) b) Provisioned IOPS SSD (io2) c) Magnetic volumes d) Throughput Optimized HDD (st1) **Answer:** d) Throughput Optimized HDD (st1)

**20. What is the benefit of enabling bucket versioning in S3?**

a) It reduces storage costs. b) It allows tracking of changes and recovery of deleted objects. c) It automatically replicates data across regions. d) It prevents data overwrite errors. **Answer:** b) It allows tracking of changes and recovery of deleted objects.

**21. Which of the following statements is true about S3 One Zone-IA?**

a) It stores data redundantly across multiple availability zones. b) It offers the highest durability among S3 storage classes. c) It is suitable for data that can be re-created if lost. d) It incurs lower access costs than S3 Standard-IA. **Answer:** c) It is suitable for data that can be re-created if lost.

**22. What type of encryption does S3 support to secure data at rest?**

a) Key Rotation Encryption (KRE) b) Client-side encryption and server-side encryption c) Secure Socket Layer Encryption (SSL) d) Fully Encrypted Object Storage (FEOS) **Answer:** b) Client-side encryption and server-side encryption

**23. Which of these does EBS NOT support?**

a) Snapshots b) Encryption at rest c) Simultaneous attachment to multiple EC2 instances in the same AZ d) Resize of volume size **Answer:** c) Simultaneous attachment to multiple EC2 ins

**21. What feature of S3 allows you to replicate objects automatically across regions?**

a) S3 Lifecycle Management b) Cross-Region Replication c) S3 Glacier Flexible Retrieval d) Multipart Upload **Answer:** b) Cross-Region Replication

**24. Which of the following is a key advantage of using Amazon EBS compared to Amazon S3?**

a) Unlimited storage capacity b) High throughput and low latency for block storage c) Built-in object lifecycle management d) Multi-region data replication **Answer:** b) High throughput and low latency for block storage

**23. In which storage class are objects stored redundantly in one availability zone?**

a) S3 Standard b) S3 Glacier Deep Archive c) S3 One Zone-IA d) S3 Intelligent-Tiering **Answer:** c) S3 One Zone-IA

**24. Which of the following is a valid use case for S3 Glacier?**

a) Hosting live applications b) Storing backup data that needs to be accessed quickly c) Archiving data for compliance purposes d) Running a relational database **Answer:** c) Archiving data for compliance purposes

**25. What happens when a bucket in S3 has lifecycle rules configured?**

a) Objects are automatically encrypted. b) Objects are automatically moved or deleted based on specified criteria. c) The bucket storage capacity increases. d) Replication is enabled across all regions. **Answer:** b) Objects are automatically moved or deleted based on specified criteria.

**26. What protocol does EBS use for block storage?**

a) HTTP b) NFS c) iSCSI d) SFTP **Answer:** c) iSCSI

**27. Which of the following best describes S3 Intelligent-Tiering?**

a) Always stores data in the most expensive tier. b) Allows automatic cost optimization for data with changing access patterns. c) Only stores data for short-term use. d) Requires

manual transfers between tiers. **Answer:** b) Allows automatic cost optimization for data with changing access patterns.

**28. What is the retrieval time for data stored in the S3 Glacier Flexible Retrieval class?**

a) Instantaneous b) A few minutes to hours c) Days to weeks d) A few seconds **Answer:** b) A few minutes to hours

**29. Which of these is a critical difference between S3 and EBS?**

a) S3 supports block storage, while EBS supports object storage. b) S3 is designed for scalable object storage, while EBS provides block-level storage for EC2 instances. c) S3 has lower latency than EBS. d) EBS is for long-term archival storage, while S3 is for high-speed data transfer. **Answer:** b) S3 is designed for scalable object storage, while EBS provides block-level storage for EC2 instances.

**31. Which storage service allows you to store unlimited objects?**

a) Amazon EFS b) Amazon S3 c) Amazon Glacier d) Amazon EBS

**Answer:** b) Amazon S3

**1. What is the primary purpose of Amazon RDS?**

a) Hosting NoSQL databases b) Managing relational databases in the cloud c) Providing data analytics capabilities d) Storing unstructured data **Answer:** b) Managing relational databases in the cloud

**2. Which database engine is NOT supported by Amazon RDS?**

a) MySQL b) PostgreSQL c) SQLite d) Oracle **Answer:** c) SQLite

**3. What distinguishes Amazon Aurora from traditional RDS databases?**

a) It is fully serverless. b) It offers higher performance and availability at a lower cost. c) It does not support replication. d) It only supports SQL Server. **Answer:** b) It offers higher performance and availability at a lower cost.

**4. What is Amazon Redshift optimized for?**

a) Online transaction processing (OLTP) b) Data warehousing and analytics c) Real-time event processing d) Document-based NoSQL databases **Answer:** b) Data warehousing and analytics

**5. Which feature of DynamoDB allows handling high-throughput workloads?**

a) On-demand capacity mode b) Cross-region replication c) Data archiving d) Query acceleration **Answer:** a) On-demand capacity mode

**6. What is the default consistency model of Amazon DynamoDB?**

a) Strongly consistent reads b) Eventually consistent reads c) Transactional consistency d) Sequential consistency **Answer:** b) Eventually consistent reads

**7. Which type of database is Amazon Timestream?**

a) Relational database b) Key-value database c) Time series database d) Document database **Answer:** c) Time series database

**8. What is the primary benefit of using Amazon Redshift Spectrum?**

a) It allows querying data directly from S3 without loading it into Redshift. b) It provides real-time analytics. c) It enables transactional database queries. d) It automates data backups.

**Answer:** a) It allows querying data directly from S3 without loading it into Redshift.

**9. Which DynamoDB feature ensures high availability of data across regions?**

a) Partition key indexing b) Global tables c) Local secondary indexes d) Query pagination **Answer:** b) Global tables

**41. What is a key use case for Amazon Timestream?**

a) Storing and querying structured datasets b) Running large-scale web applications c) Analysing time-series data from IoT applications d) Hosting relational databases

**Answer:** c) Analysing time-series data from IoT applications

**11. Which feature of Amazon RDS provides automated failover in case of an outage?**

a) Read Replicas b) Multi-AZ Deployment c) Cross-Region Snapshot Copy d) S3 Lifecycle Management **Answer:** b) Multi-AZ Deployment

**12. What type of database is Amazon DynamoDB best suited for?**

a) OLAP workloads b) Relational database management c) Key-value and document-based workloads d) Graph databases

**Answer:** c) Key-value and document-based workloads

**13. Which of the following can be used to scale reads for RDS databases?**

a) Using Redshift Spectrum b) Enabling read replicas c) Enabling S3 Intelligent-Tiering d) Enabling DynamoDB global tables

**Answer:** b) Enabling read replicas

**14. What is the maximum size of a single Amazon Aurora database volume?**

a) 16 TB b) 64 TB c) 128 TB d) Unlimited **Answer:** b) 64 TB

**15. Which database engine is native to Amazon Aurora?**

a) MySQL and PostgreSQL b) Oracle c) SQL Server d) MongoDB

**Answer:** a) MySQL and PostgreSQL

**16. What is Amazon Redshift's underlying architecture?**

a) Single-node processing b) Massively parallel processing (MPP)  
c) Serverless architecture d) Blockchain-based processing

**Answer:** b) Massively parallel processing (MPP)

**17. What is a key benefit of using DynamoDB Auto Scaling?**

a) It enables zero-downtime migration. b) It automatically adjusts throughput capacity based on traffic. c) It supports complex joins and transactions. d) It reduces data replication costs. **Answer:** b) It automatically adjusts throughput capacity based on traffic.

**18. Which feature of Timestream automatically manages data retention?**

a) Multi-Region backups b) Tiered storage for hot and cold data c) Data partitioning by keys d) Optimized query acceleration

**Answer:** b) Tiered storage for hot and cold data

**19. What is the primary purpose of Amazon Redshift's distribution styles?**



a) Encrypting data on storage nodes b) Controlling how data is stored across compute nodes c) Optimizing backups and snapshots d) Managing access control for clusters **Answer:** b) Controlling how data is stored across compute nodes

**20. Which consistency model is used by DynamoDB transactions?**

a) Eventual consistency only b) Strongly consistent reads only c) ACID transactions d) Relaxed consistency **Answer:** c) ACID transactions

**21. How does Amazon RDS handle backups by default?**

a) Snapshots are automatically encrypted. b) It automatically creates daily backups during a specified backup window. c) Backups are disabled unless manually enabled. d) It stores backups in on-premises storage. **Answer:** b) It automatically creates daily backups during a specified backup window.

**22. Which feature allows you to run SQL queries across multiple Redshift clusters?**

a) Redshift Spectrum b) Concurrency Scaling c) Federated Query d) Data Sharing **Answer:** d) Data Sharing

**23. Which of the following is a unique feature of DynamoDB Streams?**

a) Allows querying of archived data b) Captures item-level changes in a table c) Provides real-time analytics of table data d) Enables OLAP operations on NoSQL data **Answer:** b) Captures item-level changes in a table

**24. What is the primary query language used in Amazon Redshift?**

a) SQL b) NoSQL c) SPARQL d) JSONPath **Answer:** a) SQL

**25. In Timestream, which tier is designed for fast and frequent queries?**

a) Cold storage tier b) Hot storage tier c) Archive tier d) Nearline storage tier **Answer:** b) Hot storage tier

**26. Which storage model does DynamoDB use for its data?**

a) Block storage b) Columnar storage c) Key-value and document storage d) Relational storage **Answer:** c) Key-value and document storage

**27. What is Amazon Aurora Global Database designed for?**

a) Regional scalability only b) Multi-region replication with low-latency reads c) Automated backups to Glacier d) Real-time analytics on transactional databases **Answer:** b) Multi-region replication with low-latency reads

**28. What distinguishes Redshift RA3 nodes from traditional nodes?**

a) They support serverless execution. b) They separate compute and storage for scalability. c) They are optimized for OLTP workloads. d) They provide in-memory caching. **Answer:** b) They separate compute and storage for scalability.

**29. What type of index is supported by DynamoDB?**

a) Hash-based index b) Clustered index c) Global and local secondary indexes d) Multi-dimensional index **Answer:** c) Global and local secondary indexes

**61. Which query type is NOT supported by Amazon Timestream?**

a) SQL-like queries for time-series data b) Real-time aggregations c) Joins with multiple relational datasets d) Filtering based on time intervals **Answer:** c) Joins with multiple relational datasets

## Easy Questions

### 1. What is Amazon S3?

- A. A database service
- B. An object storage service
- C. A web hosting service
- D. A network service
- **Answer:** B. An object storage service

### 2. What is a bucket in Amazon S3?

- A. A type of EC2 instance

- B. A container for objects stored in S3
- C. A database table
- D. A virtual private network
- **Answer:** B. A container for objects stored in S3

### 3. What is Amazon EBS?

- A. A content delivery network
- B. A relational database service
- C. A block storage service
- D. A data warehousing service
- **Answer:** C. A block storage service

### 4. What are objects in Amazon S3?

- A. Virtual machines
- B. Data stored in buckets
- C. User accounts
- D. Security groups
- **Answer:** B. Data stored in buckets

### 5. What is Amazon Glacier used for?

- A. High-performance computing
- B. Long-term archival storage

- C. Real-time data processing
- D. Web application hosting
- **Answer:** B. Long-term archival storage

## Medium Questions

**6. Which S3 storage class is designed for data that is accessed less frequently but requires rapid access when needed?**

- A. S3 Standard
- B. S3 One Zone-IA
- C. S3 Glacier Flexible Retrieval
- D. S3 Standard-IA
- **Answer:** D. S3 Standard-IA

**7. How does Amazon EBS ensure data durability?**

- A. By replicating data across multiple regions
- B. By using RAID configurations
- C. By automatically replicating data within the same Availability Zone
- D. By storing data in S3 buckets
- **Answer:** C. By automatically replicating data within the same Availability Zone

**8. What is the purpose of versioning in Amazon S3?**

- A. To replicate data across regions
- B. To manage object lifecycle policies
- C. To keep multiple versions of an object
- D. To monitor access logs
- **Answer:** C. To keep multiple versions of an object

**9. Which EBS volume type offers high performance and is ideal for latency-sensitive applications?**

- A. General Purpose SSD (gp2)
- B. Provisioned IOPS SSD (io1)
- C. Throughput Optimized HDD (st1)
- D. Cold HDD (sc1)
- **Answer:** B. Provisioned IOPS SSD (io1)

**10. What are the benefits of Amazon S3 Intelligent-Tiering?**

- A. Reduced latency and high IOPS
- B. Automatic cost savings by moving data between two access tiers
- C. Long-term data archiving with minimal cost
- D. Enhanced security with encryption
- **Answer:** B. Automatic cost savings by moving data between two access tiers

## Hard Questions

11. **What is the main benefit of using Amazon S3 Glacier Deep Archive?**

- A. Fast data retrieval
- B. Low storage cost for long-term archiving
- C. High durability and availability
- D. Real-time data access
- **Answer:** B. Low storage cost for long-term archiving

12. **How can you improve data transfer performance to Amazon S3?**

- A. By using the S3 Transfer Acceleration feature
- B. By creating multiple buckets
- C. By reducing object size
- D. By using AWS Direct Connect
- **Answer:** A. By using the S3 Transfer Acceleration feature

13. **What is the key feature of Amazon EBS snapshots?**

- A. They provide real-time data replication
- B. They are stored in Amazon S3

- C. They can be used to create new volumes in different regions
- D. They offer low-latency access to frequently accessed data
- **Answer:** B. They are stored in Amazon S3

14. **Which Amazon S3 feature allows you to define rules for objects to transition between different storage classes or to expire?**

- A. Versioning
- B. Lifecycle Policies
- C. Transfer Acceleration
- D. Access Control Lists (ACLs)
- **Answer:** B. Lifecycle Policies

15. **What is the use of EBS General Purpose SSD (gp2) volumes?**

- A. High-performance computing
- B. Cost-effective storage for general-purpose applications
- C. Long-term data archiving
- D. Real-time data processing
- **Answer:** B. Cost-effective storage for general-purpose applications



## Scenario-Based MCQs

16. **Scenario:** You need to store a large amount of data that is rarely accessed but must be retained for compliance purposes. Which Amazon S3 storage class should you use?

- A. S3 Standard
- B. S3 Intelligent-Tiering
- C. S3 Glacier Deep Archive
- D. S3 Standard-IA
- **Answer:** C. S3 Glacier Deep Archive

17. **Scenario:** You have an application that requires low-latency access to frequently accessed data. Which Amazon S3 storage class is most suitable?

- A. S3 Standard
- B. S3 One Zone-IA
- C. S3 Glacier Flexible Retrieval
- D. S3 Glacier Deep Archive
- **Answer:** A. S3 Standard

18. **Scenario:** You need to manage a high volume of transactional data with frequent updates. Which Amazon EBS volume type should you choose?

- A. General Purpose SSD (gp2)

- B. Provisioned IOPS SSD (io1)
- C. Throughput Optimized HDD (st1)
- D. Cold HDD (sc1)
- **Answer:** B. Provisioned IOPS SSD (io1)

19. **Scenario:** Your organization needs to archive data that can be retrieved within a few minutes when needed. Which Amazon S3 storage class should be used?

- A. S3 Standard
- B. S3 Glacier Instant Retrieval
- C. S3 Standard-IA
- D. S3 One Zone-IA
- **Answer:** B. S3 Glacier Instant Retrieval

20. **Scenario:** You need to create a highly available application that can handle data loss in case of a single Availability Zone failure. Which Amazon EBS volume configuration should you choose?

- A. Use a single EBS volume in one Availability Zone
- B. Use EBS snapshots to replicate data across Availability Zones
- C. Use multiple EBS volumes across different Availability Zones and implement data replication at the application level

- D. Use EBS Provisioned IOPS SSD (io1) volumes only in one Availability Zone
- **Answer:** C. Use multiple EBS volumes across different Availability Zones and implement data replication at the application level

"A startup plans to offload its IT infrastructure to reduce maintenance overhead. Which cloud computing characteristic best supports this move?", "On-demand self-service", "Measured service", "Broad network access", "Resource pooling", "A"

"A medium enterprise wants to scale its applications quickly to meet variable demand. Which property of cloud computing does this scenario highlight?", "Resource pooling", "Rapid elasticity", "Multitenancy", "Economies of scale", "B"

"A company is evaluating cloud solutions and is concerned about data security and availability. Which potential disadvantage

should they be most aware of?", "Limited scalability", "Vendor lock-in", "On-demand pricing", "Lack of self-service", "B"

"An organization with limited capital expenditure is moving to the cloud. Which advantage is most appealing in this scenario?", "High upfront costs", "Pay-as-you-go pricing", "Complex licensing", "Fixed resource allocation", "B"

"A business experiencing seasonal traffic surges is considering cloud infrastructure. Which property would be most beneficial for their application?", "Rapid elasticity", "Resource pooling", "Broad network access", "Measured service", "A"

"An IT department is designing a system that should serve multiple clients using shared resources while ensuring security. Which cloud concept supports this approach?", "Virtualization", "Multitenancy", "Auto scaling", "In-memory computing", "B"

"A company wishes to migrate its on-premises applications to a cloud environment and is looking at virtual machine solutions like VirtualBox or VMware. What is the primary benefit of using these tools in cloud computing?", "Improved physical security", "Simplified hardware management", "Enhanced data analytics", "Bespoke software development", "B"

"While planning a cloud transformation, a firm analyzes historical technology trends that led to the cloud revolution. Which aspect is most credited with laying the groundwork for cloud computing?", "The rise of the personal computer", "Virtualization technology", "The invention of the Internet", "Mobile connectivity", "B"

"An enterprise is comparing cloud deployment models. Which model allows them to use a combination of third-party and in-house resources while retaining some control over sensitive data?", "Public cloud", "Private cloud", "Hybrid cloud", "Community cloud", "C"

"A regulatory body mandates that sensitive data must remain on-premises. Which deployment model does this requirement point to?", "Public cloud", "Hybrid cloud", "Private cloud", "Community cloud", "C"

"A tech company looking to test a new application with minimal infrastructure investment should opt for which cloud service model?", "IaaS", "PaaS", "SaaS", "DaaS", "B"

"During a cloud migration project, a developer is evaluating the control level over the runtime environment. Which service model provides the most control over the underlying hardware?", "IaaS", "PaaS", "SaaS", "CaaS", "A"

"A startup is designing its cloud strategy and plans to integrate several cloud services. Which phase of the cloud data lifecycle involves data creation and initial ingestion?", "Data archiving", "Data creation", "Data consumption", "Data deletion", "B"

"An organization chooses a public cloud provider for its easy setup and broad scalability. What is a key risk they should plan for?", "Hardware compatibility issues", "Vendor lock-in", "Lack of global presence", "Excessive customization", "B"

"An online retailer is launching its web application on AWS. Which service should they consider for quickly provisioning servers to

handle variable traffic loads?", "Amazon S3", "Amazon EC2", "Amazon RDS", "Amazon Redshift", "B"

"A company requires a templated environment to rapidly deploy similar server configurations. Which AWS feature best meets this need?", "CloudFront", "Amazon Machine Images (AMIs)", "Elastic Load Balancing", "Auto Scaling Groups", "B"

"An organization wants to preserve a specific server configuration for future use without manual setup. Which AWS resource is designed for that?", "Elastic IP", "Elastic Beanstalk", "Amazon Machine Image (AMI)", "Virtual Private Cloud (VPC)", "C"

"To ensure high availability for its website during peak loads, a business uses multiple servers behind a single entry point. Which AWS feature supports this setup?", "Amazon Glacier", "Elastic Load Balancing", "Amazon EBS", "Amazon SNS", "B"

"A company must provide a persistent address to its critical server that can survive instance failures. Which AWS service should they use?", "Elastic IP", "Auto Scaling", "AWS CloudTrail", "Route 53", "A"

"A media company stores large amounts of archival video files that are infrequently accessed. Which Amazon storage service is most cost effective for this scenario?", "Amazon S3 Standard", "Amazon EBS", "Amazon Glacier", "Amazon DynamoDB", "C"

"In designing a content delivery solution, a global retailer opts for a service that reduces latency by caching content at edge locations. Which AWS service fits this need?", "AWS Direct Connect", "Amazon CloudFront", "AWS VPN", "Amazon EC2", "B"

"A financial institution must maintain strict network segmentation within AWS. Which solution provides a logically isolated section of the cloud for their applications?", "Amazon VPC", "Amazon S3", "Elastic Load Balancer", "Auto Scaling", "A"

"While planning a secure connection between its on-premises network and AWS, a company must choose a solution that creates an encrypted tunnel. Which service meets this requirement?", "Virtual Private Cloud (VPC)", "AWS VPN", "Route 53", "AWS Direct Connect", "B"

♦ Cloud Basics and Deployment Models

1. A startup wants to quickly deploy a web application without worrying about managing hardware or OS. Which cloud model should they choose?

- A. IaaS
- B. SaaS
- C. PaaS
- D. On-premise

 **Answer: C. PaaS**

2. A government agency needs a dedicated cloud environment for compliance. Which deployment model suits best?

- A. Public
- B. Private
- C. Hybrid
- D. Community

✓ **Answer: D. Community**

**3.** A company uses AWS for hosting a customer-facing app and maintains a local data center for internal data. What deployment model is this?

- A. Private
- B. Public
- C. Hybrid
- D. Community

✓ **Answer: C. Hybrid**

**4.** Which of the following is a characteristic of cloud computing?

- A. Manual provisioning
- B. Single tenancy
- C. Elasticity and scalability
- D. Fixed pricing

✓ **Answer: C. Elasticity and scalability**

**5.** You are evaluating SaaS solutions. Which is an example of SaaS?

- A. Amazon EC2
- B. Google Docs
- C. AWS Lambda
- D. Docker

✓ **Answer: B. Google Docs**

♦ AWS Compute, Storage, and Networking

**6.** You need to run batch jobs that require different EC2 instance types based on workload. What helps you manage this automatically?

- A. VPC
- B. Auto Scaling
- C. S3



D. Route 53

✓ **Answer: B. Auto Scaling**

**7.** Which AWS service provides persistent block storage for EC2?

A. S3

B. Glacier

C. EBS

D. DynamoDB

✓ **Answer: C. EBS**

**8.** Which service is best suited for archiving infrequently accessed data?

A. EBS

B. S3 Standard

C. Amazon Glacier

D. EC2

✓ **Answer: C. Amazon Glacier**

**9.** Your web app must store images with high availability. Which service should you use?

A. EC2

B. EBS

C. S3

D. DynamoDB

✓ **Answer: C. S3**

**10.** A user accesses an app using a domain name. Which AWS service resolves it to an IP address?

A. Direct Connect

B. VPC

C. Route 53


D. CloudFront

✓ **Answer: C. Route 53**

♦ AWS Security and IAM

**11.** You want to provide temporary access to an S3 bucket. What should you use?

- A. EC2 key pair
- B. IAM role
- C. Security group
- D. VPC

 **Answer: B. IAM role**


**12.** Which service helps in encrypting data stored in AWS?

- A. IAM
- B. EC2
- C. KMS
- D. SNS

 **Answer: C. KMS**

**13.** You need to track API calls made in your AWS account. What should you use?

- A. CloudWatch
- B. CloudTrail
- C. IAM
- D. Lambda

 **Answer: B. CloudTrail**


**14.** You want to define granular permissions for users. What service is used?

- A. VPC
- B. IAM
- C. CloudFront
- D. Elastic Beanstalk

 **Answer: B. IAM**

**15.** Which service allows monitoring and setting alarms for AWS resource metrics?

- A. CloudTrail
- B. CloudWatch
- C. KMS
- D. SNS

 **Answer: B. CloudWatch**

◆ AWS Messaging & Containers

**16.** You want to decouple microservices using message queues. What should you use?

- A. SNS
- B. SQS
- C. SES
- D. Lambda

✓ **Answer: B. SQS**

**17.** You want to send notifications to mobile devices and email. Which service do you use?

- A. SQS
- B. SES
- C. SNS
- D. Kinesis

✓ **Answer: C. SNS**

**18.** A developer wants to deploy and manage containers without managing infrastructure. What should they use?

- A. Docker only
- B. Kubernetes only
- C. AWS Elastic Beanstalk
- D. EC2 manually

✓ **Answer: C. AWS Elastic Beanstalk**

◆ Database Services

**19.** A developer needs a NoSQL database for high throughput and low latency. What fits best?

- A. RDS
- B. DynamoDB
- C. Aurora
- D. Redshift

✓ **Answer: B. DynamoDB**

**20.** Which is best suited for data warehousing and analytics?

- A. DynamoDB
- B. Timestream
- C. Redshift
- D. RDS

 **Answer: C. Redshift**

**21.** Which AWS DB service is time-series focused?

- A. RDS
- B. DynamoDB
- C. Aurora
- D. Timestream

 **Answer: D. Timestream**

◆ Analytics and ML in AWS


**22.** Which service is used for interactive querying of data in S3 using SQL?

- A. Athena
- B. Redshift
- C. SageMaker
- D. EMR

 **Answer: A. Athena**

**23.** You want to build and deploy ML models. Which AWS service is ideal?

- A. QuickSight
- B. SageMaker
- C. Forecast
- D. Comprehend

 **Answer: B. SageMaker**

**24.** You want to generate business dashboards. Which AWS service should you use?

- A. Glue
- B. Redshift
- C. QuickSight

D. Athena

✓ **Answer: C. QuickSight**

**25.** Which AWS service helps extract text from documents?

A. Textract

B. Translate

C. Comprehend

D. Transcribe

✓ **Answer: A. Textract**

◆ Developer & Migration Tools

**26.** A developer wants to write and test code in the browser. Which service is used?

A. CodeBuild

B. Cloud9

C. CodeCommit

D. Lambda

✓ **Answer: B. Cloud9**

**27.** You want to automate the building, testing, and deploying of applications. Which AWS tool helps?

A. CodeCommit

B. CodeBuild

C. CodePipeline

D. CloudTrail

✓ **Answer: C. CodePipeline**

**28.** Which AWS tool is used for source control, like Git?

A. CodeBuild

B. CodePipeline

C. CloudWatch

D. CodeCommit

✓ **Answer: D. CodeCommit**

**29.** You're migrating a large on-premise database to AWS. Which service is best?

- A. SMS
- B. Cloud9
- C. Database Migration Service (DMS)
- D. X-Ray

 **Answer: C. Database Migration Service (DMS)**

**30.** Which tool gives a central dashboard for managing application migrations?

- A. CodeBuild
- B. Migration Hub
- C. CloudTrail
- D. Glue

 **Answer: B. Migration Hub**

## Cloud Computing Basics (Questions 1–10)

What best describes cloud computing?

- a) Desktop-based computing
- b) Internet-based on-demand computing
- c) Single-user local computing
- d) Hardware-only computing

Answer: b

Which of the following is a key characteristic of cloud computing?

- a) Manual provisioning
- b) On-demand self-service
- c) Fixed capacity
- d) High upfront costs

Answer: b

What is one major advantage of cloud computing?

- a) High capital expenses

- b) Limited scalability
- c) Flexible resource allocation
- d) Complex management

Answer: c

Which statement correctly explains a disadvantage of cloud computing?

- a) Unlimited resources
- b) Reduced data control
- c) Fixed pricing
- d) No maintenance required

Answer: b

What is a typical real-world application of cloud computing?

- a) Local software installations
- b) Enterprise email services
- c) Standalone desktop apps
- d) Paper-based record keeping

Answer: b

Which virtualization software is popular for personal lab environments?

- a) Hyper-V only
- b) VMware Player
- c) AWS Lambda
- d) Google Cloud Functions

Answer: b

What is the main function of VirtualBox?

- a) Running virtual machines locally
- b) Managing cloud cost budgets
- c) Data analytics processing
- d) Streaming online video

Answer: a

What does a cloud computing architecture define?

- a) Network cables only
- b) Underlying software and hardware components
- c) Office layouts
- d) Web design elements

Answer: b

Which milestone event marks the beginning of modern cloud computing?

- a) The invention of the personal computer

- b) The commercialization of the internet
- c) The launch of mainframe computers
- d) The creation of floppy disks

Answer: b

Which factor drives the need for cloud computing?

- a) Limited connectivity
- b) Increased business agility and scalability
- c) Increased hardware investments
- d) Reduced global access

Answer: b

---

## Cloud Deployment Models & Service Models (Questions 11–20)

Which cloud deployment model is shared by multiple organizations with common concerns?

- a) Public Cloud
- b) Private Cloud
- c) Community Cloud
- d) Hybrid Cloud

Answer: c

In a hybrid cloud, what is the key feature?

- a) Entirely on-premise deployment
- b) A mix of on-premise and public cloud services
- c) Only public cloud utilization
- d) No connectivity between resources

Answer: b

Which deployment model is best when maximum control and security are required?

- a) Public Cloud
- b) Community Cloud
- c) Private Cloud
- d) Hybrid Cloud

Answer: c

Which answer best compares Public vs. Private clouds?

- a) Public clouds are cheaper; private clouds offer exclusive control and security
- b) Private clouds are always less secure
- c) Public clouds cannot scale



d) There is no difference

Answer: a

Which of the following is an example of Infrastructure as a Service (IaaS)?

a) Amazon EC2

b) Google Docs

c) Salesforce CRM

d) Microsoft Office 365

Answer: a

Which cloud service model provides a platform for developers to build applications?

a) IaaS

b) PaaS

c) SaaS

d) DaaS

Answer: b

What defines SaaS?

a) Applications hosted on the cloud and provided on a subscription basis

b) Hardware provisioning services

c) Local network solutions

d) Infrastructure management only

Answer: a

Which layer in cloud service models is responsible for providing runtime environments?

a) IaaS

b) PaaS

c) SaaS

d) FaaS

Answer: b

Which best describes the cloud data lifecycle?

a) A set of steps from creation through storage to eventual deletion

b) Only a storage mechanism

c) A set of deployment models

d) Only application usage

Answer: a

What is the primary difference between IaaS and SaaS?

a) IaaS provides hardware resources and SaaS provides complete applications

b) SaaS provides hardware; IaaS provides software

c) There is no difference

d) IaaS is more expensive

Answer: a

---

## AWS Fundamentals and EC2 (Questions 21–28)

Which company is known as the pioneer in public cloud services?

- a) Microsoft
- b) IBM
- c) Amazon Web Services (AWS)
- d) Oracle

Answer: c

What does EC2 stand for in AWS?

- a) Elastic Compute Cloud
- b) Electronic Cloud Computing
- c) Elastic Cloud Connection
- d) Enhanced Compute Console

Answer: a

What is the main function of Auto Scaling in AWS?

- a) Reducing storage costs
- b) Automatically adjusting the number of EC2 instances
- c) Creating manual backups
- d) Increasing manual server maintenance

Answer: b

Which option correctly defines an Amazon Machine Image (AMI)?

- a) A pre-configured virtual machine image used to launch instances
- b) A storage bucket for media files
- c) A monitoring tool
- d) A security service

Answer: a

Why are AMIs important in AWS?

- a) They store logs
- b) They are templates for launching new instances
- c) They manage user roles
- d) They monitor network traffic

Answer: b

What is the primary advantage of using EC2 Reserved Instances?

- a) Pay-as-you-go pricing model
- b) Long-term cost savings
- c) Unlimited scalability
- d) Instant provisioning without commitment

Answer: b

Which option describes an EC2 Instance Type?

- a) A specific configuration of CPU, memory, storage, and networking capacity
- b) A type of cloud storage solution
- c) An AWS security feature
- d) A networking protocol

Answer: a

What is the purpose of Elastic Load Balancing (ELB)?

- a) To store large datasets
- b) To balance incoming application traffic across multiple targets
- c) To provide database services
- d) To automatically update AMIs

Answer: b

---

## AWS Storage Services (Questions 29–36)

Which service is used for object storage in AWS?

- a) Amazon RDS
- b) Amazon S3
- c) Amazon DynamoDB
- d) Amazon EBS

Answer: b

What is an S3 bucket?

- a) A container for storing objects in Amazon S3
- b) A computing instance
- c) A type of database
- d) A security group

Answer: a

Which S3 storage class is ideal for infrequent access but rapid retrieval?

- a) S3 Standard
- b) S3 Intelligent-Tiering

- c) S3 One Zone-IA
- d) S3 Glacier Deep Archive

Answer: c

What is Amazon EBS?

- a) A block storage service for use with EC2
- b) A content delivery network
- c) An identity management tool
- d) A relational database service

Answer: a

Which service is best used for archival storage in AWS?

- a) Amazon S3 Standard
- b) Amazon EBS
- c) Amazon Glacier
- d) Amazon RDS

Answer: c

Which AWS database service supports both SQL and NoSQL engines?

- a) Amazon Aurora
- b) Amazon DynamoDB
- c) Amazon Redshift
- d) Amazon Neptune

Answer: a

What does Amazon Aurora primarily provide?

- a) A key-value store
- b) A MySQL and PostgreSQL compatible relational database
- c) A file storage system
- d) A messaging service

Answer: b

Which option best describes Amazon Redshift?

- a) A transactional database
- b) A fully managed data warehousing service
- c) A content delivery network
- d) A compute optimization service

Answer: b

What does VPC stand for in AWS?

- a) Virtual Public Cloud
- b) Virtual Private Cloud
- c) Verified Private Connection
- d) Virtual Protected Connection

Answer: b

What is the primary function of AWS VPN?

- a) To monitor application logs
- b) To create secure connections between networks
- c) To store backups
- d) To host websites

Answer: b

Which AWS service provides domain name system (DNS) management?

- a) Amazon EC2
- b) AWS CloudTrail
- c) AWS Route 53
- d) Amazon S3

Answer: c

What is the purpose of AWS Direct Connect?

- a) Securely connecting on-premises networks to AWS
- b) Distributing incoming web traffic
- c) Managing cloud backups
- d) Running serverless applications

Answer: a

Which AWS service simplifies the creation of multiple VPC connections across regions?

- a) VPC Peering
- b) AWS Transit Gateway
- c) AWS SNS
- d) AWS Shield

Answer: b

What is the role of AWS CloudFront?

- a) To analyze big data
- b) To provide a global content delivery network
- c) To manage EC2 instances
- d) To back up databases

Answer: b

Which service is used to centrally manage access permissions in AWS?

- a) AWS CloudTrail
- b) Amazon VPC
- c) AWS IAM
- d) AWS Auto Scaling

Answer: c

What does AWS KMS provide?

- a) Automated backups
- b) Encryption key management
- c) Web application hosting
- d) Server provisioning

Answer: b

---

## Monitoring, Logging, and Container Services (Questions 45–50)

Which service is designed to log API calls and user activities in AWS?

- a) AWS CloudTrail
- b) Amazon S3
- c) Amazon EC2
- d) AWS EBS

Answer: a

What does AWS CloudWatch monitor?

- a) User access only
- b) Resource and application metrics
- c) Network cabling
- d) Software licensing

Answer: b

What is Docker primarily used for?

- a) Running virtual machines on dedicated hardware
- b) Containerizing applications for portability
- c) Managing databases
- d) Networking configuration

Answer: b

Which container orchestration platform is widely used with AWS for container management?

- a) Apache Hadoop
- b) Kubernetes

- c) MySQL
- d) Oracle VM

Answer: b

What is AWS Elastic Beanstalk used for?

- a) Hosting static websites only
- b) Deploying and scaling web applications
- c) Monitoring network traffic
- d) Managing encryption keys

Answer: b

Which of the following best describes the purpose of alarms in CloudWatch?

- a) To automatically back up data
- b) To trigger actions when metrics exceed thresholds
- c) To balance web traffic
- d) To create VPCs

Answer: b

---

## Messaging, Data Security & Legal/Economic Challenges (Questions 51–56)

Which AWS service is used for sending SMS or mobile push notifications?

- a) Amazon SNS
- b) Amazon SQS
- c) Amazon SES
- d) Amazon Kinesis

Answer: a

What does Amazon SQS primarily support?

- a) Synchronous messaging
- b) Asynchronous message queuing
- c) Email sending
- d) Data analytics

Answer: b

Which service is specifically designed for sending bulk emails?

- a) Amazon SNS
- b) Amazon SES
- c) Amazon SQS
- d) Amazon CloudFront

Answer: b

What is a fundamental goal of data security in AWS?

- a) Maximizing performance only
- b) Protecting data at rest and in transit
- c) Increasing costs
- d) Simplifying encryption keys

Answer: b

Which challenge is often associated with legal and economic aspects in data protection?

- a) Lack of data
- b) Data sovereignty and compliance with international laws
- c) Inadequate hardware supply
- d) Excessive virtualization

Answer: b

How can economic challenges in data protection impact businesses?

- a) By increasing immediate cash flow
- b) Through high investment in compliance and security measures
- c) By reducing data storage capacity
- d) By eliminating cyber threats

Answer: b

---

## Budget, Cost Management, and ML Ecosystem (Questions 57–60)

What is the purpose of a budgeting tool in AWS cost management?

- a) To randomly allocate resources
- b) To plan and control cloud spending
- c) To disable services
- d) To manage on-premise hardware

Answer: b

Which AWS service is used for machine learning model building and deployment?

- a) Amazon SageMaker
- b) AWS Glue
- c) Amazon EC2
- d) Amazon SQS

Answer: a

Which AWS service helps extract structured data from documents using ML?

- a) Amazon Comprehend
- b) Amazon Textract



- c) Amazon Forecast
- d) Amazon Kendra


Answer: b

Which service is used for real-time analytics in the AWS ML ecosystem?

- a) Amazon Transcribe
- b) Amazon Forecast
- c) Amazon Kendra
- d) Amazon Fraud Detector

Answer: d

1. What is the difference between traditional IT infrastructure and cloud computing?

A. Traditional IT infrastructure relies on physical hardware and local data center's, while cloud computing provides on-demand access to computing resources over the internet. 

B. Traditional IT infrastructure relies on remote resources and is easy to utilize, while cloud computing provides physical hardware and local data centers.

C. On-demand self-services, broad network access, and rapid elasticity are the key aspects of cloud computing.

D. Physical hardware and local data centers are the main IT infrastructure components in traditional IT infrastructure.

Answer: A


---

2. How does the concept of elasticity in cloud computing work?

A. By limiting the ability to increase resources.

B. By allocating the resources by fixing the resource allocation.

C. By adjusting manually.

D. The ability to resize computing resources dynamically. 

Answer: D


---

3. data redundancy and disaster recovery?

A. By the users being allowed to manage their own backups.

B. Users have permissions to delete the old data.

C. By storing all data/information on a single server.

D. By maintaining multiple copies of data across various locations. 

Answer: D

---

4. Which is a suitable primary advantage of using a hybrid cloud deployment model?

- A. Provides control over complete data and services.
- B. For usage of public cloud resources.
- C. Availability of unlimited resources without additional cost.
- D. The ability to combine on-premises infrastructure with public cloud resources. ☒

Answer: D

5. Amazon Machine Image (AMI) primary function is:

- A. To have the ability to fix a set amount of resources.
- B. To increase the size of the instance.
- C. To enable persistence of data after the instance is stopped.
- D. To provide pre-configured virtual servers. ☒

Answer: D

---

6. Which service in AWS is used to allocate the static IP address to an instance so that the instance will have continuous operation?

- A. Public IP addresses
- B. Amazon S3
- C. Elastic IPs ☒
- D. AWS Elastic Load Balancing (ELB)

Answer: C

---

7. What is the service that allows you to distribute incoming application traffic across multiple targets such as EC2 instances to increase availability and fault tolerance?

A. Auto-scaling Elastic Load Balancing (ELB) ☒

B. Elastic IPs

C. AWS VPC

D. Security Groups

Answer: A

---

8. Which cloud service model provides users with the application service but they do not need to worry about infrastructure management?

A. IAAS

B. PAAS

C. SAAS ☒

D. All of the above

Answer: C

---

9. In which cloud service model do users need to manage the servers, storage, operating system, applications, and security settings?

A. IAAS ☒

B. PAAS

C. SAAS

D. All of the above

Answer: A

9. Which cloud service model provides users with the physical infrastructure management, and users are responsible for Applications, Data, Configuration, and Custom Settings?

- A. IAAS
- B. PAAS ☒
- C. SAAS
- D. All of the above

Answer: B

---

10. Which cloud service model allows the users to manage usage of the application and limited application-specific settings?

- A. IAAS
- B. PAAS
- C. SAAS ☒
- D. All of the above

Answer: C


---

11. Which AWS service allows the instance to increase and remove the resources to maintain a steady and better performance at the lowest possible cost?

- A. Elastic IP's
- B. Elastic Load Balancing
- C. Amazon Auto Scaling ☒
- D. Amazon S3

Answer: C


12. What is the purpose of Auto Scaling Policies in Auto Scaling?

- A. To optimize the cost of instances.
- B. To optimize the storage service cost.
- C. To define instance types for your instances.
- D. To define the rules under which/when your instances should be added & removed. 

Answer: D

---


13. What does Amazon EC2 stand for and describe the primary use of Amazon EC2?

- A. Elastic Compute Cloud, EC2 is a data storage solution.
- B. Elastic Compute Cloud, EC2 is virtual servers in the cloud. 
- C. Elastic Cloud Cluster, EC2 is virtual servers in the cloud.
- D. Elastic Cloud Cluster, EC2 is a data storage solution.

Answer: B

---

14. Which EC2 instance type is optimized for general-purpose tasks?

- A. T2 
- B. C5
- C. M5
- D. R5

Answer: A (T2)

---

15. Which type of load balancer would be most appropriate for routing applications to their best-suited instance?

A. Application Load Balancer (ALB) ☒

B. Network Load Balancer (NLB)

C. Classic Load Balancer (CLB)

D. Gateway Load Balancer (GLB)

Answer: A

---

16. What is the importance of "Time to Market" in Cloud Computing?

A. The speed at which new applications and services can be developed and deployed ☒

B. The speed at which new applications are stored and deployed

C. The speed of instance termination

D. The time taken to reboot the instance

Answer: A

---

17. Which EC2 instance type is optimized for general-purpose tasks?

A. T2 ☒

B. C5

C. M5

D. R5

Answer: A (T2)

---

18. Which EC2 instance type is optimized for memory-intensive applications?

A. T2

B. M5

C. C5

D. R5 ☒

Answer: D (R5)

---

19. What are the first and final phases of the cloud data lifecycle?

A. Destroy, Store

B. Store, Create

C. Archive, Create

D. Create, Destroy ☒

Answer: D

---

20. Which storage class in AWS storage services allows data to be stored for long-term data archiving?

A. Amazon S3 Standard

B. Amazon S3 Glacier ☒

C. Amazon EBS

D. Amazon S3 Standard-IA

Answer: B

---

21. What exactly is Amazon Relational Database Service?

A. A managed relational database service by AWS ☒




- B. A NoSQL database service
- C. A log of database queries
- D. To manage database engine settings

Answer: A

---


22. What are the database engines supported by Amazon RDS?

- A. SQL, Firestore, CouchDB
- B. MySQL, Neo4j, PostgreSQL, Cassandra
- C. MySQL, PostgreSQL, MariaDB, Oracle, SQL Server, Amazon Aurora 
- D. MongoDB, ArangoDB, Redis

Answer: C

---

23. Which type of data models are compatible with DynamoDB?

- A. Relational and graph
- B. Columnar and row-based
- C. Hierarchical and network
- D. Key-value and document 

Answer: D

---

24. How does DynamoDB use primary keys?

- A. To manage database backups
- B. To encrypt data in transit

C. To store data redundantly

D. To uniquely identify each item in a table ☒

Answer: D

---

25. What is Amazon Timestream's primary purpose?

A. Managing relational databases

B. Data warehousing

C. Time series data storage and analysis ☒

D. Providing content delivery

Answer: C

---

26. Which is the default CIDR block size for a new VPC?

A. /24

B. /28

C. /32

D. /16 ☒

Answer: D

---

27. What's the main benefit of using AWS Client VPN?

A. Secure remote access ☒

B. Data warehousing

C. Content delivery

D. High availability

Answer: A

---

28. What is an Internet Gateway (IGW) purpose in a VPC?

A. To facilitate DNS resolution

B. Direct Connect

C. To allow communication between instances in the VPC and the internet 

D. To enable DNS resolution for internal services


Answer: C

29. What is a key method to achieve fault tolerance and high availability for a VPN connection in AWS?

A. Enable AWS Direct Connect

B. Use a single VPN tunnel with no redundancy

C. Not configure any failover mechanisms

D. Utilizing multiple, redundant VPN tunnels/connections 


Answer: D

---

30. What is the highest and least CIDR block range you can set for an Amazon VPC?

A. /8 to /24

B. /20 to /28

C. /16 to /28 

D. /16 to /20

Answer: C

---

31. A startup company needs to host a web application that experiences variable traffic throughout the year. Which service model is most appropriate for this case?

A. IaaS

B. PaaS 

C. SaaS


D. All of the above

Answer: B

---

32. An intern development team needs a platform to build, test, and deploy applications quickly without maintaining underlying infrastructure. Which cloud service model should they choose to achieve this goal?

A. IaaS

B. PaaS 

C. SaaS

D. FaaS

Answer: B


---

33. A finance company wants to ensure that its cloud storage solution complies with industry regulations and provides data encryption at rest and in transit. Which of the following should the company consider and prioritize?

A. Implementing a multi-cloud strategy

B. Cost optimization

C. High availability and scalability

D. Security and compliance features 

Answer: D

---

34. For a web application, a company needs to ensure high availability and fault tolerance for its application. Which cloud deployment model should they consider?

A. Private Cloud

B. Public Cloud

C. Hybrid Cloud 

D. Community Cloud

Answer: C

---

35. Which Amazon EBS volume type is best suited for applications needing consistent and high I/O performance?

A. General Purpose SSD (gp2)

B. Provisioned IOPS SSD (io1) 

C. Throughput Optimized HDD (st1)

D. Cold HDD (sc1)

Answer: B

---

36. A developer needs to store a large volume of customer data that will be frequently accessed and updated. Which AWS storage service should the developer use?

A. Amazon Glacier

B. Amazon S3 Standard

C. Amazon S3 Standard

D. Amazon EBS ☒

Answer: D

37. A media company wants to store and organize a large number of media files for a video streaming service. Which AWS service would be most suitable?

A. Amazon EC2

B. Amazon S3 ☒

C. Amazon EBS

D. Amazon RDS

Answer: B

---

38. How can you encrypt data at rest in Amazon RDS?

A. By enabling SSL encryption

B. By using VPC service

C. By configuring VPN

D. By enabling encryption at the time of instance creation ☒

Answer: D

---

39. The maximum retention period for data in Amazon Timestream?

A. 2 years

B. 25 years ☒

C. 35 years

D. 10 years


Answer: B

---

40. The maximum number of nodes supported in an Amazon Redshift Cluster?

A. 32

B. 64

C. 128 

D. 256

Answer: C

---

41. In which case would you use an Elastic IP address within an Amazon VPC?

A. To route traffic between VPCs

B. To provide static IP addresses for EC2 instances in a public subnet 

C. To connect to an on-premises network

D. To route traffic between VPNs

Answer: B

---

42. What scenario would be best served by using a site-to-site VPN connection?

A. An enterprise requiring direct fiber optic connection to AWS

B. An individual developer needing access to AWS resources

C. A startup seeking to quickly establish a secure connection to AWS 

D. A company needing low-latency connections for large data transfers

Answer: C

---

**Question 43: What protocol is used by AWS site-to-site VPN for secure communication?**

- A. SSH
- B. RDP
- C. IPsec ☒
- D. FTP

Answer: C (IPsec)

---

**Question 44: What is the maximum number of VPN connections per AWS account per region?**

- A. 15
- B. 10
- C. 50 ☒
- D. 100

Answer: C (50)

---

**Question 45: A finance company requires a dedicated network connection from their on-premises data center to AWS for improved security and consistent network performance. Which AWS service should they use?**


- A. AWS Direct Connect ☒
- B. VPN Connection
- C. Amazon VPC Peering



#### D. Transit Gateway


**Answer: A (AWS Direct Connect)**

Which one is the key characteristic of C.C?

- A. High latency
- B. Limited Accessibility
- C. Manual Resource Allocation
- D. On-demand self-service 


Ans: D

Which cloud computing model offers an environment/platform for application development?

- A. Infrastructure as a Service (IaaS)
- B. Platform as a Service (PaaS) 
- C. Software as a Service (SaaS)
- D. Network as a Service (NaaS)


Ans: B

Which of the following is an advantage of Cloud Computing?

- A. Manual Maintenance
- B. Limited Infrastructure
- C. Cost Reduction 
- D. High Initial Investment


Ans: C

What does EC2 stand for and what is the main advantage of EC2 in AWS?

- A. Elastic Compute Cloud; Scalability and flexibility in computing 
- B. Elastic Cloud Computing; Reduces hardware costs significantly
- C. Enterprise Cloud Computing; Seamless integration with local hardware
- D. Elastic Computing Cluster; Provides built-in analytics tools, stores data in a secure way


Ans: A

**A government organization wants to utilize "sharing" in infrastructure. Which cloud deployment model is best suited for this?**

- A. Hybrid Cloud
- B. Public Cloud
- C. **Community Cloud** 
- D. Private Cloud


**Ans: C**

**In AWS, which service is used for storing large amounts of unstructured data?**

- A. **Amazon S3** 
- B. Amazon RDS
- C. Amazon EBS
- D. Amazon Redshift


**Ans: A**

**What is the primary function of AWS horizontal auto-scaling?**

- A. To reduce network latency by caching server access requests
- B. **To automatically add & remove instances to handle changes in demand** 
- C. To back up data securely across multiple regions
- D. To improve application performance through load computation


**Ans: B**

**Which of the following statements describes Amazon DynamoDB?**

- A. A relational database service in AWS
- B. **A NoSQL database with fixed schema requirements** 
- C. Schema-based relational database using SQL
- D. An alternative to RDS for MySQL databases with Key-value storage

**Ans: B**

**Which AWS service is designed to manage relational databases?**

- A. DynamoDB
- B. Lambda
- C. **RDS** 

D. EC2

**Ans: C**

**If we want to access the data infrequently, which AWS storage class is best for this?**

A. S3 Standard

B. **S3 Standard-IA** 

C. EBS

D. Instance Store

**Ans: B**

**Which of the following is NOT a cloud deployment model?**

A. Public Cloud

B. Hybrid Cloud

C. Community Cloud

D. **Distributed Cloud** 

**Ans: D**

**Which virtualization type is used by VirtualBox?**

A. Partial Virtualization

B. Application Virtualization

C. **Full Virtualization** 

D. Para-Virtualization

**Ans: C**

**Which of the following is a key benefit of using AWS Elastic Load Balancer?**

A. Storing data

B. Managing VPN

C. Managing database services

D. **Distributing traffic** 

**Ans: D**

**Which AWS service provides long-term archival storage?**

A. Amazon S3

B. **Amazon Glacier** 

- C. Amazon EBS
- D. Amazon EC2


**Ans: B**

**Which of the following AWS services is used for network security?**

- A. AWS Lambda
- B. **Amazon VPC** 
- C. AWS S3
- D. Amazon CloudFront


**Ans: B**

**Which AWS service allows hosting static websites?**

- A. Amazon EC2
- B. Amazon VPC
- C. **Amazon S3** 
- D. Amazon RDS


**Ans: C**

**What is the main purpose of Amazon Route 53?**

- A. Auto-scaling
- B. Load Balancing
- C. Storing files
- D. **DNS Management** 

**Ans: D**

**Which database engine is optimized for data warehousing in AWS?**

- A. Amazon DynamoDB
- B. Amazon Aurora
- C. **Amazon Redshift** 
- D. Amazon RDS

**Ans: C**


**Which AWS service is a key feature of Amazon Redshift?**

- A. Availability with Automatic Backups
- B. **Massively Parallel Processing (MPP)** 

- C. Row-Based Data Storage
- D. Complex Query Optimization for OLTP Systems


**Ans: B**

**Which company is one of the leading cloud service providers?**

- A. Amazon Web Services (AWS) 
- B. Microsoft Azure
- C. Google Cloud (GCP)
- D. IBM Tesla


**Ans: A**

**Which of the following service models is commonly used for hosting websites and applications?**

- A. PaaS 
- B. SaaS
- C. IaaS
- D. DaaS


**Ans: A**

**What is the purpose of virtualization in cloud computing?**

- A. Improve security
- B. Reduce dependency on the internet
- C. Enable multiple virtual machines to run on a single physical machine 
- D. Eliminate the need for operating systems


**Ans: C**

**Which of the following is best suited for Domain Name System (DNS) service?**

- A. Amazon EC2
- B. Route 53 
- C. Amazon EBS
- D. Elastic Load Balancing


**Ans: B**

**Which of the following is NOT a feature of Amazon VPC?**

- A. Creating subnets
- B. Controlling access with security groups
- C. Hosting a relational database
- D. **Connecting to an on-premises Network** 


**Ans: D**

**Which of the following Amazon EC2 instance types is best for Machine Learning?**

- A. T2 Micro
- B. **G4** 
- C. M5
- D. C5


**Ans: B**

**What is a primary advantage of AWS Transit Gateway?**

- A. Improve EC2 storage
- B. **Simplify VPC-to-VPC connectivity** 
- C. Manage instance types
- D. Secures the RDS


**Ans: B**

**Which AWS database service is a fully managed, conventional-compatible relational database?**

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon Redshift
- D. **Amazon Aurora** 


**Ans: D**

**Which AWS service is used for managing virtual private networks?**

- A. Amazon Route 53
- B. **Amazon VPN** 
- C. Amazon S3
- D. Amazon EC2


**Ans: B**

**Which AWS service provides a scalable file storage solution for EC2 instances?**

- A. S3
- B. **EFS** 
- C. EBS
- D. Data Lake


**Ans: B**

**What is the main use case for Amazon Timestream?**

- A. Running machine learning models
- B. Managing transactional data
- C. Hosting web applications
- D. **Storing and analysing time-stamped data** 


**Ans: D**

**Which AWS networking service provides direct private connectivity to AWS resources?**

- A. **AWS Direct Connect** 
- B. AWS VPN
- C. Amazon EC2
- D. Amazon S3


**Ans: A**

What is the main purpose of Amazon CloudFront?

- Load balancing
- B. Web hosting
- C. Content delivery 
- D. Network Security


Ans: C

In AWS, which one helps manage multiple VPC connections efficiently?

- A. AWS VPN
- B. AWS Transit Gateway 
- C. Amazon S3
- D. AWS Shield


Ans: B

Which AWS storage option is best suited for big data analytics?

- A. Amazon S3
- B. Amazon EBS
- C. Amazon RDS
- D. Amazon Redshift 

Ans: D


A start-up plans to deploy a VPC with public web servers and a private database. Which AWS service would best support this architecture?

- A. Auto-scaling and Route 53
- B. S3 hosting website
- C. VPC with public and private subnets, and security groups 
- D. Amazon Machine Image (AMI)

Ans: C


A start-up company plans to host a 3-tier application in AWS with web servers, application servers, and a database. How would you suggest designing their VPC architecture?



- A. Using AWS Direct Connect
- B. Public and private subnets with security groups 
- C. Auto-scaling and load balancing the instances
- D. By Public subnet


Ans: B

A company needs to host an application for automatic bookings. The application has unpredictable traffic. Which AWS feature enables automatic distribution of incoming traffic across multiple instances?

- A. Elastic IP
- B. Static IP address assigning
- C. Amazon S3
- D. Elastic Load Balancing 


Ans: D

An organization is planning to configure a VPN connection between their on-premises data center and AWS. How does this VPN ensure secure communication?

- A. By creating elastic connections
- B. By automating backups and instances
- C. By restricting IP ranges
- D. By encrypting data transferred between environments 


Ans: D

A shopping mall is transitioning its legacy systems to AWS. They need to run custom-built applications on a cloud-native platform. Which AWS service will be most helpful?

- A. Amazon Redshift for data warehousing
- B. S3 bucket to keep website static
- C. VPC for networking
- D. EC2 instances for customizable environments 


Ans: D

In a hackathon competition, a team wants to build a live mapping application that requires real-time data ingestion and flexible querying. Which AWS service is best suited for this task?

- A. Amazon DynamoDB
- B. Amazon RDS
- C. Amazon Redshift
- D. Amazon Kinesis 


Ans: D

A team needs to ensure that their web content is delivered globally with low latency. Which AWS service should they use?

- A. Amazon EC2
- B. Amazon S3
- C. CloudFront 
- D. Amazon Glacier

Ans: C

A team has installed an application that requires a high-speed connection between their on-premise infrastructure and AWS. Which AWS service full fills this requirement?

- A.VPN Gateway
- B. AWS EC2
- C. Route 53
- D. AWS Direct Connect 

Ans: D

An organization is processing petabyte-scale analytics for a data-complete solution. Which is the most appropriate AWS service for it?

- A. Amazon RDS
- B. Amazon DynamoDB

C. Amazon Redshift 

D. Amazon EC2

For a competition your team wants to deploy an application in multiple AWS regions without reconfiguring servers. Which AWS functionality helps to achieve this?

A. Amazon RDS Snapshot

B. AWS Lambda

C. Elastic Load Balancer

D. AMI Creation

ANSWER: D

A student created a smart home system, collecting temperature and humidity data every second. Which Amazon Timestream feature is best suited for handling this time-series data efficiently?

Predictive Scaling

Autoscaling Instances

Automatic Data tiering

Load Distributing

Answer: C

**1. What is the main purpose of cloud computing?**

- A. Hardware Components
- B. Local-only data storage
- C. Provide scalable and elastic computing resources
- D. Hardware-bound applications

**Answer: C**

**2. Which of the following is a key characteristic of cloud computing?**

- A. Restrict access to applications
- B. Enhance physical storage only
- C. On-demand resource provisioning
- D. Increase hardware cost

**Answer: C**

**3. Which company first introduced the concept of virtualization?**

- A. IBM
- B. Intel
- C. VMware
- D. Device Cloud

**Answer: C**

**4. A company wants to transfer into cloud. Which model is best suited for organizations requiring high security and control?**

- A. Community Cloud
- B. Hybrid Cloud
- C. Private Cloud
- D. Public Cloud

**Answer: C**

**5. What is the service that provides computing power in AWS?**

- A. Amazon RDS
- B. Amazon EC2
- C. Amazon EBS

D. Amazon S3

**Answer: B**

**6. What is the key benefit of hybrid cloud?**

A. High cost

B. Limited scalability

C. Flexibility in data deployment

D. Physical servers

**Answer: C**

**7. When you terminate the instance, which type of storage will get terminated by instance termination, and which storage type will be deleted?**

A. Amazon EBS

B. Amazon S3

C. Amazon EFS

D. Amazon Instance Store

**Answer: D**

**8. What is the main function of Amazon S3?**

A. Storage of objects

B. Load Balancing Instances

C. Secure network authentication

D. Instance deletion

**Answer: A**

**9. Which one of the following AWS Service enables direct private network connection between on-premises and AWS?**

A. AWS VPN

B. Amazon S3

C. AWS Direct Connect

D. Amazon EC2

**Answer: C**

**10. What is the service that stores both structured and unstructured data in AWS?**

- A. Amazon Redshift
- B. Amazon EC2
- C. Amazon Aurora
- D. Amazon S3

**Answer: D**

**11. I need a storage class which is best suited for backup and disaster recovery data?**

- A. S3 Standard
- B. S3 Glacier
- C. S3 Standard IA
- D. S3 Intelligent-Tiering

**Answer: B**

**12. In which level the Security groups in AWS works?**

- A. Network level
- B. Storage level
- C. Subnet level
- D. Instance level

**Answer: D**

**13. How many numbers of security groups that can be associated with an EC2 instance?**

- A. 6
- B. 5
- C. 9
- D. Unlimited

**Answer: B**

**14. What is the maximum number of security groups that can be created per AWS account per region?**

- A. 570
- B. 500
- C. 540

D. 600

**Answer: B**

**15. Which of the following can be used for security group rules in AWS?**

- A. Instance IDs
- B. DNS Service
- C. IP addresses
- D. Outbound rule

**Answer: C**

**16. If you deleted a security group that is still associated with an instance, what will happen?**

- A. The instance will get deleted (terminated)
- B. The instance will be stopped
- C. The instance will be normal running without errors
- D. The instance will automatically get the default security group

**Answer: D**

**17. Which feature of Route 53 ensures high availability by redirecting traffic to a backup instance if the primary fails?**

- A. Simple Routing
- B. Failover Routing
- C. Weighted Routing
- D. Lambda Service

**Answer: B**

**18. What is the main purpose of an EBS Snapshot?**

- A. To increase EC2 instance
- B. To provide real-time backups
- C. To auto scale instances
- D. To reduce latency

**Answer: B**

**19. How can you increase the storage capacity of an existing EBS volume?**

- A. Modify Security groups

- B. Modify the volume size
- C. Modify instances
- D. Delete the EBS volume

**Answer: B**

**20. When an EBS-backed EC2 instance is stopped and restarted, what will happen?**

- A. The public IP address will change
- B. The existing volume is retained
- C. Detach the volume from instance
- D. Modify the volume size

**Answer: A**

**21. How can you reduce data transfer costs for Amazon S3?**

- A. Use Amazon S3 Transfer Acceleration
- B. Use AWS Direct Connect
- C. Store data in the same region
- D. All of the above

**Answer: D**

**22. What is the main advantage of multipart upload in S3?**

- A. It helps in upload
- B. It allows resuming failed uploads
- C. It prevents objects to upload
- D. It is storage purpose

**Answer: B**

**23. Which factor affects the speed of uploading data to Amazon S3 the most?**

- A. Upload S3 objects
- B. Internet bandwidth
- C. EBS - snapshot
- D. AWS Backup

**Answer: B**



**24. If an S3 multipart upload fails midway, what will happen?**

- A. The objects will be not uploaded
- B. Only completed parts are retained
- C. The buckets uploaded
- D. Data will lost

**Answer: B**

**25. What is an AWS Region?**

- A. Data centers
- B. Availability zones are not here
- C. A collection of multiple Availability Zones
- D. Collection of instances

**Answer: C**

**26. How many Availability Zones (AZs) are typically in an AWS Region?**

- A. 3 (or more)
- B. 1 (or) 2
- C. 2
- D. 10

**Answer: A**

**27. What is an AWS Availability Zone (AZ)?**

- A. A group of physical data centers
- B. A group of AWS data centers within a region
- C. A backup snapshots
- D. A group of resources

**Answer: B**

**28. How many AWS Regions are available worldwide?**

- A. 15
- B. 25+
- C. 80+
- D. 100+

**Answer: B**

**29. What happens if an AWS Region becomes unavailable?**

- A. Services automatically switch to another region
- B. AWS automatically restores services in min.
- C. Workloads fail unless cross-region replication is enable
- D. Data breach losk

**Answer: C**

**30. Which one of the following is not a benefit of AWS Global Infrastructure?**

- A. Increased application availability
- B. Improved disaster recovery
- C. Reduced data transfers costs
- D. Lower latency for end-users

**Answer: C**

**31. What is the main difference between AWS Availability Zones and Edge Locations?**

- A. Edge Locations store backups
- B. Availability Zones improve security
- C. Edge Locations are used for computer services
- D. Availability Zones store data, while Edge Locations only cache content

**Answer: D**

**32. In AWS, which feature allows you to replicate Amazon S3 buckets across regions?**

- A. AWS Global Infrastructure
- B. AWS S3 Cross-Region Replication
- C. AWS S3 Glacier
- D. AWS Instances

**Answer: B**

**33. How does AWS minimize data loss in case of a natural disaster affecting one Region?**

- A. By offering Cross-Region Replication and Disaster Recovery options
- B. By using Amazon EC2 snapshots

- C. By using Availability Zones within a Region
- D. By replicating all data to on-premises backups

**Answer: A**

**34. I need routing HTTP and HTTPS traffic based on content. Which Elastic Load Balancer type is best suited?**

- A. Application Load Balancer (ALB)
- B. Classic Load Balancer (CLB)
- C. Network Load Balancer (NLB)
- D. Elastic Load Distributor (ELD)

**Answer: A**

**35. My EC2 instance in an Auto Scaling group becomes unhealthy. What should happen?**

- A. The instance is stopped
- B. The instance is automatically terminated and replaced
- C. The instance will work normally
- D. No action is taken

**Answer: B**

**36. A company wants to use AWS service. Which AWS service is typically used with Auto Scaling to distribute traffic across instances?**

- A. Elastic IP address
- B. Elastic Load Balancing (ELB)
- C. Elastic Compute Cloud
- D. Elastic Beanstalk

**Answer: B**

**37. Which Auto Scaling policy is best for a predictable, scheduled increase in traffic?**

- A. Simple Scaling
- B. Step Scaling
- C. Scheduled Scaling

D. Target Tracking Scaling

**Answer: C**

**38. Which one of the following databases is NOT supported by Amazon RDS?**

A. PostgreSQL

B. SQL Server

C. MySQL

D. MongoDB

**Answer: D**

**39. How Amazon RDS automate backups?**

A. By using automated snapshots and transaction logs

B. By storing snapshots in Amazon Glacier

C. Creating a Read Replica

D. Enabling CloudTrail logging

**Answer: A**

**40. How does Amazon Timestream optimize storage?**

A. By automatically creating read replicas

B. By using Amazon S3 for long-term storage

C. By automatically moving data between memory and disk

D. By compressing data on-demand

**Answer: C**

**41. Which one of the following is NOT a characteristic of AWS security groups?**

A. They support deny rules

B. They operate at the instance level

C. They act as a virtual firewall

D. They allow inbound and outbound rules

**Answer: A**

**42. What is the protocol that is commonly used for Secure Shell (SSH) connections in AWS Security Groups?**

A. TCP 22

B. TCP 3389

- C. UDP 443
- D. UDP 53

**Answer: A**

**43. I have an application running on a single EC2 instance that is experiencing high traffic. What is the most effective solution to ensure scalability and availability?**

- A. Upgrade the instance type to a larger one
- B. Move the instance to a different Availability Zone
- C. Deploy an Elastic Load Balancer and enable Auto Scaling
- D. Increase the instance's CPU and memory

**Answer: C**

**44. Your EC2 instance is running a web application but only allows inbound connections from specific IP addresses. What AWS feature is enforcing this?**

- A. Security Groups
- B. Route 53
- C. NACL
- D. Amazon S3

**Answer: A**

**45. A team wants to encrypt an EC2 instance's data at rest. What should you suggest them to use?**

- A. Enable encryption on the attached EBS volume
- B. Use AWS S3
- C. Encrypt the files manually before storing
- D. Enable instance-level encryption in EC2 settings

**Answer: A**