

Question 1) Which database service would you choose if you wanted complex querying capabilities like joins or transactions but didn't want a data warehouse?

- a) Amazon DynamoDB
- b) Amazon RDS
- c) Amazon Redshift
- d) Amazon ElastiCache

Question 2) Choose the correct AWS database service for the following requirements:

- Large volumes of structured data to persist and query using standard SQL and existing business intelligence tools
- High performance at scale as data and query complexity grows

- a) Amazon DynamoDB
- b) Amazon RDS
- c) Amazon Redshift
- d) Amazon ElastiCache

Question 3) Amazon RDS detects and automatically recovers from the most common failure scenarios for Multi-AZ deployments so that you can resume database operations as quickly as possible without administrative intervention. Amazon RDS automatically performs a failover in the event of which of the following:

- a) Loss of availability in the primary AZ
- b) Compute unit failure of primary
- c) Loss of network connectivity to primary
- d) All of the above

Question 4) In some cases, Multi-AZ deployments utilize synchronous physical replication to keep data on the standby up-to-date with the primary. In other cases a synchronous logical replication is used to achieve the same result, Which technology below uses logical replication?

- a) MySQL
- b) PostgreSQL
- c) Oracle
- d) SQL Server

Question 5) When you create an encrypted EBS volume and attach it to a supported instance type, which types of data are encrypted:

- a) Data at rest
- b) All snapshots created from the volume
- c) All disk I/O
- d) All of these

Question 6) You're configuring a new Security Group for your EC2 instance and want to follow security best practice. Under the Inbound rules tab which Rule Type would you commonly use with a Custom IP range?

- a) HTTP
- b) HTTPS
- c) FTP
- d) RDP

Question 7) If the object named photos/1.jpg is stored in the johnsmith bucket, then authorized users could access the object with which URL?

- a) <http://s3.amazonaws.com/johnsmith/photos/1.jpg>
- b) <http://s3.johnsmith.amazonaws.com/photos/1.jpg>
- c) <http://johnsmith.amazonaws.com/s3/photos/1.jpg>
- d) <http://johnsmith.s3.amazonaws.com/photos/1.jpg>

Question 8) Which version of Amazon Kinesis would you use if you wanted multi-stage processing using specialized algorithms, for example in building a recommendations engine?

- a) Amazon kinesis streaming
- b) Amazon kinesis firehose
- c) Amazon kinesis analytics
- d) None of these options will suffice

Question 9) You have an existing website called example.com that points to a specific IP address. You now want to create three subdomains that point to the same IP address. To reduce maintenance which domain record type should you choose?

- a) Cname
- b) A
- c) MX
- d) TXT

Question 10) A Hadoop cluster contains one master instance group that contains one master node, a core instance group containing one or more core node and an optional task node instance group, which can contain any number of task nodes. Which type of node can you remove from a running job flow?

- a) Core node
- b) Task node
- c) Master node
- d) None of them

Question 11) A load balancer is a combination of a DNS name and a set of ports, which together provide a destination for all requests intended for your application. Is the following statement TRUE or FALSE?

- Load balancers can span multiple Availability Zones and also multiple regions.
- a) True
b) False

Question 12) Which of the following is the correct statement regarding Availability Zones?

- a) A collection of regions that together make up an Availability Zone.
b) A distinct location within a region that is insulated from failures in other Availability Zones.
c) Another name for an entire region which contains AWS instances.
d) The timeframe a particular service is available for use by authorized users

Question 13) A secret access key is used in conjunction with the access key ID to cryptographically sign programmatic AWS requests. Signing a request identifies the sender and prevents the request from being altered. What can you generate secret access keys for?

- a) AWS account
b) Temporary sessions
c) Individual IAM users
d) All of these

Question 14) Which if the following is not a part of security group?

- a) List of protocols
b) List of username
c) Ports
d) List of IP address

Question 15) Which DB deployment type has a synchronous standby replica in another Availability Zone?

- a) Multi-AZ
b) Single-AZ

Question 16) Which approach would you use if you wanted an EC2 instance that matched a particular configuration but wanted to avoid dependencies to configuration services or third-party repositories?

- a) Golden images
b) Bootstrapping

Question 17) Which Amazon service would you use for content delivery?

- a) ELB
- b) Cloudfront
- c) SQS
- d) SES

Question 18) Which of the following redundancy types uses failover as it's recovery process?

- a) Standby redundancy
- b) Active redundancy

Question 19) Data replication is the technique that introduces redundant copies of data. It can help horizontally scale read capacity, but it also increase data durability and availability. Replication can take place in a few different modes. You want to use replicas to horizontally scale the system's data storage but you cannot tolerate any replication lag. Which type of replication should you use?

- a) Asynchronous replication
- b) Synchronous replication

Question 20) What fault-isolating technique is described below:

Instead of spreading traffic from all customers across every node, you can group the instances together. For example, if you have eight instances for your service, you might create four groups of two instances each (two instances for some redundancy within each group) and distribute each customer to a specific group. In this way, you are able to reduce the impact on customers in direct proportion to the number of groups you have.

- a) Stack sharding
- b) Shuffle Sharding
- c) Fault Sharding
- d) Split Sharding

Question 21) One way you can save money with AWS is by taking advantage of the platform's elasticity. Plan to implement Auto Scaling for as many Amazon EC2 workloads as possible, so that you horizontally scale up when needed and scale down and automatically reduce your spend when you don't need all that capacity anymore. Which of the following does require capacity decisions?

- a) Amazon EC2
- b) ELB
- c) Cloudfront
- d) AWS Lambda

Question 22) Your company wants to reduce expenditure by optimizing the spend on Amazon EC2 instances. Which one would reduce the cost the MOST?

- a) Spot instances
- b) Reserved instance
- c) On-demand instances

Question 23) Which AWS would you use if you wanted to store data that requires encrypted archival storage with infrequent read access with a long recovery time objective (RTO)?

- a) Amazon S3
- b) Amazon EC2 instance store
- c) Amazon Cloudfront
- d) Amazon Glacier

Question 24) You have decided to store some data in the cloud via AWS. Which service would you choose to store archive data, with low cost and immediate access?

- a) Amazon Glacier
- b) Amazon Cloudfront
- c) Amazon EC2 instance store
- d) Amazon S3

Question 25) Amazon Glacier is an extremely low-cost storage service that provides highly secure, durable, and flexible storage for data archiving and online backup. Which of the following will you NOT be charged for when using Glacier?

- a) Storage (GB per month)
- b) Data transfer in (Per Gb per month)
- c) Requests (per thousand UPLOAD and RETRIEVAL requests per month)
- d) Data transfer out (per GB per month)

Answer Key:

1. B	6. D	11. B	16. A	21. A
2. C	7. D	12. B	17. B	22. B
3. D	8. A	13. D	18. A	23. D
4. D	9. A	14. B	19. B	24. D
5. D	10. B	15. A	20. B	25. B
