

Section 1. True/False questions (1pt each)

Read carefully and fill in the answers in the table.

1. Think cloud as software that you utilize to build/run your modern and monolith applications.
2. Aurora DB has a standby instance for instant failover.
3. With the database parameter group, you can define which EC2 can access your database.
4. Transaction logs are backed up by RDS every 5 minutes, which gives us the ability to restore to any point in time except the last 5 minutes.
5. Starting last year, you can now read data from a standby instance.
6. During RDS failover, you have to change the URL and point it to the standby instance on Route53.
7. Producers of the SQS push the message to the queue.
8. In FIFO SNS, the message is sent to one subscriber in order.
9. A certain event can be processed by only one subscriber with the help of a rule in EventBridge.
10. EventBridge pipe replaces the work of writing ETLs manually.

Section 2. Open-ended questions (2pt each)

1. Explain the circuit breaker design pattern.
2. What are the differences between RDS and Aurora?
3. What is event-driven architecture?
4. What is AWS Global Accelerator?
5. What is an evolvable application? Write about its characters and what architecture is used to build that.

Section 3. Multiple choice questions (Choose one, 1pt each)

1. You launched a web server in us-east-1f and your load balancer nodes are in us-east-1a and us-east-1e. What would be the state of the instance in the target group?
 - a. Healthy
 - b. Unhealthy
 - c. Unusable
 - d. Unused
2. Which one is not a way to call AWS services?
 - a. AWS StepFunctions
 - b. AWS Console
 - c. AWS SDK
 - d. AWS CLI
3. Which one is not an application integration service?
 - a. SQS
 - b. Load Balancers between 2 microservices
 - c. StepFunctions
 - d. SNS
4. Which one doesn't provide caching?
 - a. DynamoDB because you can use it as a common cache for a fleet of servers

- b. Survivable cache warming
 - c. CloudFront
 - d. Redis
5. What is not the benefit of the cloud?
- a. Built-in metrics
 - b. 24x7 free support from the experts
 - c. More security
 - d. More performance
6. Which one is the same regardless of the region?
- a. Service high availability
 - b. Service Features
 - c. Limit
 - d. Pricing
7. Which one is the smallest region in these options?
- a. N. Virginia
 - b. Ohio
 - c. Hong Kong
 - d. Singapore
8. There is a one-and-one relationship between the subnet and
- a. Region
 - b. AZ
 - c. EC2
 - d. NACL
9. Which placement group packs instances close together and provides the best fault tolerance among other placement groups?
- a. Cluster
 - b. Partition
 - c. Spread
 - d. None
10. Select an incorrect property of Private IP
- a. All EC2s have it
 - b. Selected from the subnet
 - c. If 2 instances have public IPs, they can use them to connect to one another.
 - d. Used for communication within VPC
11. Which one is not an IAM best practice?
- a. Use AWS-managed policies over user-managed policies
 - b. Set MFA on the root user and always use the IAM user to login to the AWS console
 - c. Use roles on EC2 instead of permanent tokens
 - d. Use IAM analyzer
12. Which is an optional part of the IAM identity-based policy?
- a. Effect
 - b. Action
 - c. Resource
 - d. Principle

13. Which one is not true about the IAM role?
- a. When you log in to the AWS console, it uses the IAM role under the hood
 - b. IAM tokens are temporary and rotated automatically
 - c. You must write a principle tag in the permission policy of the IAM role
 - d. STS generates temp tokens for the role
14. Which one is not an S3 design principle?
- a. Decentralized
 - b. Decompose
 - c. Simplicity
 - d. Synchrony
15. (select the incorrect one) CloudFront helps with
- a. Video streaming
 - b. Routing
 - c. Blacklisting IPs
 - d. Reducing S3 cost
16. In which S3 encryption, the key is generated by you (the appliance) and use that key to encrypt data.
- a. SSE-S3
 - b. SSE-KMS
 - c. SSE-C
 - d. Client-Side encryption
17. (select the incorrect one) You can write rules in ALB based on
- a. API key in the body
 - b. API key in the header
 - c. API key in query strings
 - d. Source IP
18. Which one is not a reason why your instance is unhealthy in TG when running a simple Apache hello world web?
- a. NACL blocks traffic
 - b. SG has no inbound rule
 - c. The web is not up yet
 - d. You didn't associate an IAM with the instance
19. Autoscaling is nothing but changes
- a. Current number
 - b. Desired number
 - c. Instance number
 - d. Task number
20. Autoscaling is used in conjunction with
- a. EC2
 - b. CloudWatch
 - c. Lambda
 - d. EC2

Answer

1 T
2 F
3 F
4 T
5 F
6 F
7 T
8 F
9 T
10 T

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