**AWS Assessment**

1. Requirement is to process the files from S3 and render the results immediately and the results will no longer be used again once returned. Which is the most effective volume to process these files by an EC2.(Choose-1)
   1. EFS
   2. EBS
   3. Instance Store.
   4. S3.

2.A Database running on EC2 requires a block storage volume for backup service. Which one of the below is recommended ?(Choose-1)

1. EBS Cold HDD.
2. Provisioned IOPS .
3. General Purpose.
4. Throughput Optimized HDD.

Ans:

3. Which of the below AWS services support decoupled Architecture ?(Choose-1)

1. ELB.
2. SQS.
3. SNS.
4. EMR.

Ans:

4. Your application requires to be Highly available and needs at least 4 servers to meet the performance all time. Which architecture will ensure High availability and cost efficiency ? (this pattern is very commonly seen-(Choose-1))

1. 2 Server @ AZ1 , 4 Server @ AZ2 , 0 Server @ AZ3.
2. 4 Server @ AZ1 ,1 Server @ AZ2 , 1 Server @ AZ3.
3. 2 Server @ AZ1,2 Server @ AZ2, 2 Server @ AZ3.
4. 4 Server @ AZ1 , 4 Sever @AZ2 , 4 Serve @ AZ3.

Ans:

5. How to Debug a Lambda Function.(Choose-1)

1. CloudWatch Logs.
2. CloudTrail Logs.
3. Search in S3 for Lambda logs.
4. Log in as  Admin and open Lambda function to the log.

6. Which of the below AWS RDS supports Read replica ?(Choose-1)

1. MS Sql Server & Oracle.
2. MySql,PostgreSql & Aurora.
3. Auroa , DynamoDB & MS Sql.

Ans:

7.  A web tier of an application runs on 4 EC2 instances spread across 2 AZ behind an ELB. The Data tier MySQl db runs on another EC2 instance. what below changes will make the Application highly available ?(Choose-1)

1. Migrate MySql from EC2 to Multi-AZ MySql RDS.
2. Take a copy of MySql EC2 instance and have it as backup on daily basis.
3. Launch Web Tier instance & DB Tier Instance across 4 EC2 instances.

Ans:

8.  AWS admin left the organization, while he was Admin he had access to root user and his account as IAM Admin. With these privileges he generated other IAM users and keys. What action should be taken today to protect your AWS infrastructure.(Choose-3)

1. Change the Root password and add MFA.
2. Rotate Keys and change passwords for all IAM users.
3. Delete all IAM user and generate new user logins.
4. Delete the Old Admins user name.

Ans:

9. There is requirement to run jobs only on Friday,Saturday & Sunday and job completes in the same day, what type of EC2 instance you should sugges ?(Choose-1)

1. On Demand.
2. Spot.
3. Reserved for 1 year
4. Scheduled instance.

Ans:

10.What will be choice of EBS volume for RDS, if the IOPS is more than 10,000.(Choose-1)

1. Provisioned IOPS SSD.
2. General Purpose SSD.
3. Throughput Optimized HDD.
4. Cold Storage HDD.

11. Online e-commerce store is hosting a Flash sale, for the same it has added 2 new web servers in addition to existing 2 servers to handle the sudden spike of traffic at web tier behind a ALB. All these servers are connected to a single MySql RDS on the DB Tier.Due to sudden spike in traffic some message is not interfaced to DB. As a solution architect what will be your solution to handle this sudden spike ?(Choose-1)

1. Use ElastiCache.
2. Use SQS.
3. Use SNS.
4. Convert RDS into Multe-AZ.

Ans:

12. How to make a S3 bucket available in another Region?(Choose-1)

1. Enable Cross Region Replication with versioning.
2. Enable Cross Region Replication without versioning.
3. Take a copy of the bucket and create it in another Region.
4. Enable life cycle policy to move the bucket to another Region.

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13. Customer have a requirement to upload huge data into S3 bucket from multiple locations. Data size ranges from 1 GB to 10 GB per file, but the network bandwidth is very limited. Which of the below AWS services will help in fast and secure upload of files?(Choose-1)

1. S3 Cross Region Replication.
2. S3 Pre-Signed URL for the particular customer.
3. Enable S3 Transfer Acceleration.
4. Place S3 bucket in front of CloudFront distribution.

Ans:

14.Customers were accessing S3 bucket from one particular Geo location.But now the due to increase in business, the customers are spread across multiple Geo location and customers started complaining about slow response of files from S3 bucket. What is the most cost effective way to address this issue?(Choose-1)

1. S3 Cross Region Replication.
2. S3 Pre-Signed URL for the particular customer.
3. Enable S3 Transfer Acceleration.
4. Place S3 bucket in front of CloudFront distribution.

Ans:

15. A Lambda function need to connect to a Database and execture a procedure.But this Lambda function can be called from will be same across different environments.  
Which is the secure way to pass the DB connection parameters(like user id, pwd) ?(Choose-1)

1. Code inside the Lambda function.
2. Use Lambda Environment Variables to pass the credentials.
3. Use User Data section of EC2 to store initiate the db connection.
4. Use IAM to give access to DB service for Lambda

Ans:

16.  There is a business requirement to have a Shared Mount point. Which should be accessible by multiple applications which are hosted on different EC2 instances for read & write purpose. Which the best Storage service to serve this requirement ?(Choose-1)

1. AWS EFS.
2. AWS EBS
3. AWS S3.
4. EC2 Instance Store.

17. There is a business requirement to run batch programs only during weekends for a year. Programs will start on Friday night and last till Sunday night. Which instance type is cost effective for running these batch programs.(Choose-1)

1. Ec2 On-Demand.
2. Scheduled Reserved Instance.
3. Reserved Instance.
4. Spot Instance.

Ans:

18. Customer wants to replace/break his monolith applications into Microservice supported architecture. Which are the services will provide a reliable architecture

1. ECS
2. Lamdba
3. SQS
4. EC2

Ans: