SAA-C02$^{Q\&As}$

AWS Certified Solutions Architect - Associate (SAA-C02)

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QUESTION 1

An ecommerce company hosts its analytics application in the AWS Cloud. The application generates about 300 MB of data each month. The data is stored in JSON format The company is evaluating a disaster recovery solution to back up the

data.

The data must be accessible in milliseconds if it is needed, and the data must be kept for 30 days.

Which solution meets these requirements MOST cost-effectively?

A. Amazon Elasticsearch Service (Amazon ES)

B. Amazon S3 Glacier

C. Amazon S3 Standard

D. Amazon RDS for PostgreSQL

Correct Answer: C

QUESTION 2

A company is migrating a large, mission-critical database to AWS. A solutions architect has decided to use an Amazon RDS for MySQL Multi-AZ DB instance that is deployed with 80,000 Provisioned IOPS for storage. The solutions architect is using AWS Database Migration Service (AWS DMS) to perform the data migration. The migration is taking longer than expected, and the company wants to speed up the process. The company\\'s network team has ruled out bandwidth as a limiting factor.

Which actions should the solutions architect take to speed up the migration? (Choose two.)

A. Disable Multi-AZ on the target DB instance.

B. Create a new DMS instance that has a larger instance size.

C. Turn off logging on the target DB instance until the initial load is complete.

D. Restart the DMS task on a new DMS instance with transfer acceleration enabled.

E. Change the storage type on the target DB instance to Amazon Elastic Block Store (Amazon EBS) General Purpose SSD (gp2).

Correct Answer: CD

QUESTION 3

A company hosts an application on AWS. The application interacts with an Amazon DynamoDB table that has 10 read capacity units (RCUs) Data from Amazon CloudWatch alarms shows that throttling is occurring on read requests to the DynamoDB table. The company needs to prevent this issue from happening in the future as the application continues to grow.

What should a solutions architect recommend to meet these requirements?

A. Add an Elastic Load Balancer in front of the DynamoDB table.

B. Change the RCUs for the DynamoDB table to 20.

C. Provision 20 write capacity units (WCUs) for the DynamoDB table to offset the throttling on read requests.

D. Enable auto scaling for the DynamoDB table

Correct Answer: D

QUESTION 4

An online retailer has a series of flash sales occurring every Friday Sales Traffic will increase during the sales only and the platform will handle the increased load. The platform is a three-tier application. The web tier runs on Amazon EC2

instances behind an Application Load Balancer. Amazon CloudFront is used to reduce web server load, but many requests for dynamic content must go to the web servers.

What should be done to the web tier to reduce costs without impacting performance or reliability?

A. Use T-series instances

B. Purchase scheduled Reserved instances.

C. Implement Amazon ElasticCache

D. Use Spot instances.

Correct Answer: A

QUESTION 5

A solutions architect needs to connect a company\\'s corporate network to its VPC to allow on-premises access to its AWS resources. The solution must provide encryption of all traffic between the corporate network and the VPC at the network layer and the session layer. The solution also must provide security controls to prevent unrestricted access between AWS and the on-premises systems.

Which solution meets these requirements?

A. Configure AWS Direct Connect to connect to the VPC. Configure the VPC route tables to allow and deny traffic between AWS and on premises as required

B. Create an IAM policy to allow access to the AWS Management Console only from a defined set of corporate IP addresses Restrict user access based on job responsibility by using an IAM policy and roles.

C. Configure AWS Site-to-Site VPN to connect to the VPC Configure route table entries to direct traffic from on

premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.

D. Configure AWS Transit Gateway to connect to the VPC Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.

Correct Answer: D

QUESTION 6

A corporation has recruited a new cloud engineer who should not have access to the CompanyConfidential Amazon S3 bucket. The cloud engineer must have read and write permissions on an S3 bucket named AdminTools.

Which IAM policy will satisfy these criteria?

A.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "s3:ListBucket",
            "Resource": "arn:aws:s3:::AdminTools"
        },
        {
            "Effect": "Allow",
            "Action": [ "s3:GetObject", "s3:PutObject" ],
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": [
                "arn:aws:s3:::CompanyConfidential/*",
                "arn:aws:s3:::CompanyConfidential"
            ]
        }
    ]
}
```

B.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "s3:ListBucket",
            "Resource": [
                "arn:aws:s3:::AdminTools",
                "arn:aws:s3:::CompanyConfidential/*"
            ]
        },
        {
            "Effect": "Allow",
            "Action": [ "s3:GetObject", "s3:PutObject", "s3:DeleteObject" ],
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": "arn:aws:s3:::CompanyConfidential"
        }
    ]
}
```

C.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow"
            "Action": [ "s3:GetObject", "s3:PutObject" ],
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": [
                "arn:aws:s3:::CompanyConfidential/*",
                "arn:aws:s3:::CompanyConfidential"
            ]
        }
    ]
}
```

D.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "s3:ListBucket",
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Allow",
            "Action": [ "s3:GetObject", "s3:PutObject", "s3:DeleteObject" ],
            "Resource": "arn:aws:s3:::AdminTools/"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": [
                "arn:aws:s3:::CompanyConfidential",
                "arn:aws:s3:::CompanyConfidential/*",
                "arn:aws:s3:::AdminTools/*"
            ]
        }
    ]
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

https://docs.amazonaws.cn/en_us/IAM/latest/UserGuide/reference_policies_examples_s3_ rw-bucket.html

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QUESTION 7

A company runs a web application on Amazon EC2 instances in multiple Availability Zones. The EC2 instances are in private subnets. A solutions architect implements an internet- facing Application Load Balancer (ALB) and specifies the EC2 instances as the target group. However, the internet traffic is not reaching the EC2 instances.

How should the solutions architect reconfigure the architecture to resolve this issue?

A. Replace the ALB with a Network Load Balancer. Configure a NAT gateway in a public subnet to allow internet traffic.

B. Move the EC2 instances to public subnets. Add a rule to the EC2 instances\' security groups to allow outbound traffic to 0.0.0.0/0.

C. Update the route tables for the EC2 instances\' subnets to send 0.0.0.0/0 traffic through the internet gateway route. Add a rule to the EC2 instances\' security groups to allow outbound traffic to 0.0.0.0/0.

D. Create public subnets in each Availability Zone. Associate the public subnets with the ALB. Update the route tables for the public subnets with a route to the private subnets.

Correct Answer: C

QUESTION 8

A company is processing data on a daily basis. The results of the operations are stored in an Amazon S3 bucket analyzed daily for one week and then must remain immediately accessible for occasional analysis What is the MOST cost-effective storage solution alternative to the current configuration?

A. Configure a lifecycle policy to delete the objects after 30 days.

B. Configure a lifecycle policy to transition the objects to Amazon S3 Glacier after 30 days

C. Configure a lifecycle policy to transition the objects to Amazon S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days

D. Configure a lifecycle policy to transition the objects to Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days

Correct Answer: D

QUESTION 9

A solutions architect must provide a fully managed replacement for an on-premises solution that allows employees and partners to exchange files. The solution must be easily accessible to employees connecting from on-premises systems, remote employees, and external partners.

Which solution meets these requirements?

A. Use AWS Transfer for SFTP to transfer files into and out of Amazon S3.

B. Use AWS Snowball Edge for local storage and large-scale data transfers.

C. Use Amazon FSx to store and transfer files to make them available remotely.

D. Use AWS Storage Gateway to create a volume gateway to store and transfer files to Amazon S3.

Correct Answer: A

Reference: https://aws.amazon.com/aws-transfer-family/?whats-new-cards.sort-by=item.additionalFields.postDateTimeandwhats-new-cards.sort-order=desc

QUESTION 10

A company is running a media application in an on-premises data center and has accumulated 500 TB of data The company needs to migrate the data from the applications existing network-attached file system to AWS Users rarely access data that is older than 1 year

Which solution meets these requirements MOST cost-effectively\\'

A. Use AWS Snowmobile to move the data to Amazon S3 Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Glacier

B. Use multiple AWS Snowball Edge Storage Optimized devices to move the data to Amazon S3 Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Standard-Infrequent Access (S3 Standard-IA)

C. Set up an AWS Direct Connect connection between the on-premises data center and AWS Transfer the data directly to Amazon S3 by using the Direct Connect connection Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Glacier

D. Set up an AWS Site-to-Site VPN connection between the on-premises data center and AWS Transfer the data directly to Amazon S3 by using the Site-to-Site VPN connection Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Standard- infrequent Access (S3 Standard-IA)

Correct Answer: A

QUESTION 11

A company needs to implement a relational database with a multi-Region disaster recovery Recovery Point Objective (RPO) of 1 second and an Recovery Time Objective (RTO) of 1 minute. Which AWS solution can achieve this?

A. Amazon Aurora Global Database

B. Amazon DynamoDB global tables.

C. Amazon RDS for MySQL with Multi-AZ enabled.

D. Amazon RDS for MySQL with a cross-Region snapshot copy.

Correct Answer: A

QUESTION 12

A social media company is building a feature tor its website. The feature will give users the ability to upload photos. The company expects significant increases in demand during large events and must ensure that the website can handle the upload traffic from users.

Which solution meets these requirements with the MOST scalability?

A. Upload files from the user\\'s browser to the application servers Transfer the files to an Amazon S3 bucket.

B. Provision an AWS Storage Gateway file gateway. Upload files directly from the user\\'s browser to the file gateway.

C. Generate Amazon S3 presigned URLs in the application. Upload files directly from the user\\'s browser into an S3 bucket

D. Provision an Amazon Elastic File System (Amazon EFS) file system. Upload files directly from the user\\'s browser to the file system.

Correct Answer: C

QUESTION 13

Company is designing a website that uses an Amazon S3 bucket to store static images. The company wants ail future requests have taster response times while reducing both latency and cost. Which service configuration should a solutions architect recommend?

A. Deploy a NAT server in front of Amazon S3.

B. Deploy Amazon CloudFront in front of Amazon S3.

C. Deploy a Network Load Balancer in front of Amazon S3.

D. Configure Auto Scaling to automatically adjust the capacity of the website.

Correct Answer: B

QUESTION 14

A company has several web servers that need to frequently access a common Amazon RDS MySQL Multi-AZ instance. The company wants a secure method for the web servers to connect to thedatabase while meeting a security requirement to rotate user credentials frequently. A company has several web servers that need to frequently access a common Amazon ROS MySQL Muto-AZ DB instance The company wants a secure method for the web servers to connect to the database while meeting a security requirement to rotate user credentials frequently

Which solution meets these requirements^

A. Store the database user credentials in AWS Secrets Manager Grant the necessary 1AM permissions to allow the web servers to access AWS Secrets Manager

B. Store the database user credentials m AWS Systems Manager OpsCenter Grant the necessary 1AM permissions to allow the web servers to access OpsCenter

C. Store the database user credentials in a secure Amazon S3 bucket Grant the necessary 1AM permissions to allow the web servers to retrieve credentials and access the database

D. Store the database user credentials in fries encrypted with AWS Key Management Service (AWS KMS) on the web server file system The web server should be able to decrypt the files and access the database

Correct Answer: A

QUESTION 15

A company is deploying a two-tier web application in a VPC. The web tier is using an Amazon EC2 Auto Scaling group with public subnets that span multiple Availability Zones. The database tier consists of an Amazon RDS for MySQL DB instance in separate private subnets. The web tier requires access to the database to retrieve product information.

The web application is not working as intended. The web application reports that it cannot connect to the database. The database is confirmed to be up and running. All configurations for the network ACLs. security groups, and route tables are still in their default states.

What should a solutions architect recommend to fix the application?

A. Add an explicit rule to the private subnet\\'s network ACL to allow traffic from the web tier\\'s EC2 instances.

B. Add a route in the VPC route table to allow traffic between the web tier\\'s EC2 instances and Ihe database tier.

C. Deploy the web tier\\'s EC2 instances and the database tier\\'s RDS instance into two separate VPCs.and configure VPC peering.

D. Add an inbound rule to the security group of the database tier\\'s RDS instance to allow traffic from the web tier\\'s security group.

Correct Answer: D

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