SAA-C01^{Q&As}

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QUESTION 1

A customer is running a critical payroll system in a production environment in one data center and a disaster recovery (DR) environment in another. The application includes load-balanced web servers and failover for the MySQL database. The customer\'s DR process is manual and error-phone. For this reason, management has asked IT to migrate the application to AWS and make it highly available so that IT no longer has to manually fail over the environment.

How should a Solutions Architect migrate the system to AWS?

A. Migrate the production and DR environments to different Availability Zones within the same region. Let AWS manage failover between the environments.

B. Migrate the production and DR environments to different regions. Let AWS manage failover between the environments.

C. Migrate the production environment to a single Availability Zone, and set up instance recovery for Amazon EC2. Decommission the DR environment because it is no longer needed.

D. Migrate the production environment to span multiple Availability Zones, using Elastic Load Balancing and Multi-AZ Amazon RDS. Decommission the DR environment because it is no longer needed.

Correct Answer: B

QUESTION 2

When running my DB Instance as a Multi-AZ deployment, can I use the standby for read or write operations?

A. Yes

B. Only with MSSQL based RDS

C. Only for Oracle RDS instances

D. No

Correct Answer: D

QUESTION 3

A company wants to migrate a three-tier web application to AWS. The company wants to control the placement of the instances and have visibility into underlying sockets and cores for licensing purposes. Which compute model should a Solutions Architect choose to accomplish this task?

A. EC2 Reserved Instances

B. EC2 Spot Instances

C. EC2 Dedicated Hosts

D. EC2 Placement Groups

Correct Answer: C

Reference: https://aws.amazon.com/ec2/faqs/

QUESTION 4

An application has a web tier that runs on EC2 instances in a public subnet. The application tier instances run in private subnets across two Availability Zones. All traffic is IPv4 only, and each subnet has its own custom route table.

A new feature requires that application tier instances can call an external service over the Internet; however, they must still not be accessible to Internet traffic.

What should be done to allow the application servers to connect to the Internet, maintain high availability, and minimize administrative overhead?

A. Add an Amazon egress-only internet gateway to each private subnet. Alter each private subnet\'s route table to include a route from 0.0.0.0/0 to the egress-only internal gateway in the same Availability Zone.

B. Add an Amazon NAT Gateway to each public subnet. Alter each private subnet\'s route table to include a route from 0.0.0.0/0 to the NAT Gateway in the same Availability Zone.

C. Add an Amazon NAT instance to one of the public subnets Alter each private subnet\'s route table to include a route from 0.0.0.0/0 to the Internet gateway in the VPC.

D. Add an Amazon NAT Gateway to each private subnet. Alter each private subnet\'s route table to include a route from 0.0.0.0/0 to the NAT Gateway in the other Availability Zone.

Correct Answer: D

QUESTION 5

A data analytics startup company asks a Solutions Architect to recommend an AWS data store options for indexed data. The data processing engine will generate and input more than 64 TB of processed data every day, with item sizes reaching up to 300 KB. The startup is flexible with data storage and is more interested in a database that requires minimal effort to scale with a growing dataset size.

Which AWS data store service should the Architect recommend?

A. Amazon RDS

B. Amazon Redshift

C. Amazon DynamoDB

D. Amazon S3

Correct Answer: C

QUESTION 6

An administrator is using Amazon CloudFormation to deploy a three tier web application that consists of a web tier and application tier that will utilize Amazon DynamoDB for storage when creating the CloudFormation template which of the following would allow the application instance access to the DynamoDB tables without exposing API credentials?

A. Create an Identity and Access Management Role that has the required permissions to read and write from the required DynamoDB table and associate the Role to the application instances by referencing an instance profile.

B. Use the Parameter section in the Cloud Formation template to nave the user input Access and Secret Keys from an already created IAM user that has me permissions required to read and write from the required DynamoDB table.

C. Create an Identity and Access Management Role that has the required permissions to read and write from the required DynamoDB table and reference the Role in the instance profile property of the application instance.

D. Create an identity and Access Management user in the CloudFormation template that has permissions to read and write from the required DynamoDB table, use the GetAtt function to retrieve the Access and secret keys and pass them to the application instance through user-data.

Correct Answer: C

QUESTION 7

A company wants to analyze all of its sales information aggregated over the last 12 months. The company expects there to be over 10TB of data from multiple sources.

What service should be used?

A. Amazon DynamoDB

B. Amazon Aurora MySQL

C. Amazon RDS MySQL

D. Amazon Redshift

Correct Answer: D

QUESTION 8

How can a user track memory usage in an EC2 instance?

A. Call Amazon CloudWatch to retrieve the memory usage metric data that exists for the EC2 instance.

B. Assign an IAM role to the EC2 instance with an IAM policy granting access to the desired metric.

C. Use an instance type that supports memory usage reporting to a metric by default.

D. Place an agent on the EC2 instance to push memory usage to an Amazon CloudWatch custom metric.

Correct Answer: D

Reference: https://www.quora.com/How-can-I-monitor-memory-usage-on-Amazon-EC2

QUESTION 9

A Solutions Architect is designing an application that requires having six Amazon EC2 instances running at all times. The application will be deployed in the sa-east-1 region, which has three Availability Zones: sa-east-1a, sa-east-1b, and saeast-1c.

Which action will provide 100 percent fault tolerance and the LOWEST cost in the event that one Availability Zone in the region becomes unavailable?

A. Deploy six Amazon EC2 instances in sa-east-1a, six Amazon EC2 instances in sa-east-1b, and six Amazon EC2 instances in sa-east-1c

B. Deploy six Amazon EC2 instances in sa-east-1a, four Amazon EC2 instances in sa-east-1b, and two Amazon EC2 instances in sa-east-1c

C. Deploy three Amazon EC2 instances in sa-east-1a, three Amazon EC2 instances in sa-east-1b, and three Amazon EC2 instances in sa-east-1c

D. Deploy two Amazon EC2 instances in sa-east-1a, two Amazon EC2 instances in sa-east-1b, and two Amazon EC2 instances in sa-east-1c

Correct Answer: C

QUESTION 10

A company has instances in private subnets that require outbound access to the internet. This requires:

A. Assigning a public IP address to the instance.

B. Updating the route table associated with the subnet to point internet traffic through a NAT gateway.

C. Updating the security group associated with the subnet to allow ingress on 0.0.0.0/0.

D. Routing traffic from the instance through a VPC endpoint that has internet access.

Correct Answer: B

QUESTION 11

A company has an application that generates invoices and makes the invoices available online. Invoices are stored as PDFs in an Amazon S3 bucket. Customers typically only view each invoice during the month it is issued. However, past invoices need to be immediately available. There are concerns over rising storage costs as the company gains more customers.

What is the MOST cost-effective method to store the data?

A. Use Amazon S3 for current invoices. Set up lifecycle rules to migrate invoices to the GLACIER storage class after 30 days.

B. Store the invoices as text files. Use Amazon CloudFront to convert the invoices from text to PDF when customers download invoices.

C. Store the invoices as binaries in an Amazon RDS database instance. Retrieve them from the database when customers request invoices.

D. Use Amazon S3 for current invoices. Set up lifecycle rules to migrate invoices to Amazon S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.

Correct Answer: D

QUESTION 12

A company\\'s website receives 50,000 requests each second, and the company wants to use multiple applications to analyze the navigation patterns of the users on their website so that the experience can be personalized. What can a Solutions Architect use to collect page clicks for the website and process them sequentially for each user?

A. Amazon Kinesis Stream

B. Amazon SQS standard queue

C. Amazon SQS FIFO queue

D. AWS CloudTrail trail

Correct Answer: A

Reference: https://aws.amazon.com/blogs/aws/amazon-kinesis-real-time-processing-of-streamed-data/

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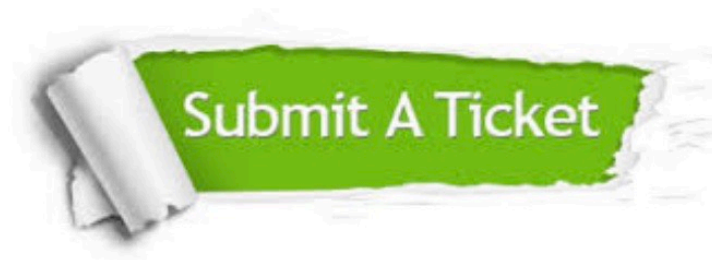Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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