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**Exam : AWS Certified Solutions
Architect - Associate
2018**

**Title : AWS Certified Solutions
Architect - Associate 2018**

Version : DEMO

1. An application runs on Amazon EC2 instances in multiple Availability Zones (AZs) behind an Application Load Balancer. The load balancer is in public subnets, the EC2 instances are in private subnets and must not be accessible from the internet. The EC2 instances must call external services on the internet. If one AZ becomes unavailable, the remaining EC2 instances must still be able to call the external services.

How should these requirements be met?

- A. Create a NAT gateway attached to the VPC. Add a route to the gateway to each private subnet route table
- B. Configure an internet gateway. Add a route to the gateway to each private subnet route table.
- C. Create a NAT instance in the private subnet of each AZ. Update the route tables for each private subnet to direct internet-bound traffic to the NAT Instance
- D. Create a NAT gateway in each AZ. Update the route tables for each private subnet to direct internet-bound traffic to the NAT

Answer: D

2. A Solutions Architect is designing a web application that will be hosted on Amazon EC2 instances in a public subnet. The web application uses a MySQL database in a private subnet. The database should be accessible to database administrators.

Which of the following options should the Architect recommend? (Select Two)

- A. Create a bastion host in a public subnet, and use the bastion host to connect to the database
- B. Log in to the web servers in the public subnet to connect to the database
- C. Perform DB maintenance after using SSH to connect to the NAT Gateway in a public subnet
- D. Create an IPsec VPN tunnel between the customer site and the VPC, and use the VPN tunnel to connect to the database
- E. Attach an Elastic IP address to the database

Answer: BD

3. A company is rolling out a new web service, but is unsure how many customers the service will attract. However, the company is unwilling to accept any downtime.

What could a Solutions Architect recommend to the company in order to keep track of customers' current session data?

- A. Amazon EC2
- B. Amazon RDS
- C. AWS CloudTrail
- D. Amazon DynamoDB

Answer: D

4. A retail company runs hourly flash sales and has a performance issue on its Amazon RDS for PostgreSQL database. The Database Administrators have identified that the issue with performance happens when finance and marketing employees refresh sales dashboards that are used for reporting real-time sales data.

What should be done to resolve the issue without impacting performance?

- A. Create a Read Replica of the RDS PostgreSQL database and point the dashboards at the Read Replica
- B. Move data from the RDS PostgreSQL database to Amazon Redshift nightly and point the dashboards

at Amazon Redshift

- C. Monitor the database with Amazon CloudWatch and increase the instance size, as necessary. Make no changes to the dashboards
- D. Take an hourly snapshot of the RDS PostgreSQL database, and load the hourly snapshots to another database to which the dashboards are pointed

Answer: D

5.A Solutions Architect is designing a highly available web application on AWS. The data served on the website is dynamic and is pulled from Amazon DynamoDB. All users are geographically close to one another.

How can the Solutions Architect make the application highly available?

- A. Host the website data on Amazon S3 and set permissions to enable public read-only access for users
- B. Host the web server data on Amazon CloudFront and update the objects in the CloudFront distribution when they change.
- C. Host the application on EC2 instances across multiple Availability Zones. Use an Auto Scaling group coupled with an Application Load Balancer.
- D. Host the application on EC2 instances in a single Availability Zone Replicate the EC2 instances to a separate region, and use an Application Load Balancer for high availability.

Answer: C