**AWS Solution Architect Questions**

Q1. A solution architect is creating a serveless web application that must access mapping data in hundred of files each containing approximately 30kb of data. The storage required is expected to grow to hundred of TB

Which storage solution is most cost effective yet still meets the requirement for this use case?

1. AWS EFS
2. AWS EBS Cold HHD
3. AWS S3 Standard
4. AWS DynamoDB

Q2. How can a user track memory usage in EC2 instance?

1. Call Amazon CloudWatch to retrieve the memory usage metric data that exists for the EC2 instance
2. Assign an IAM role to the EC2 instance with a IAM granting access to the desired metric
3. Use an instance type that supports memory usage reporting to metrics by default
4. Place an agent on the EC2 instance to push memory usage to an Amazon CloudWatch custom metrics

Q3. An Application stores data in an RDS MySQL DB Instance. The database traffic primarily consist of read queries which are overwhelming the current database. A solution Architect wants to scale the database.

What combination of steps will achieve the goal?

1. Add the MySQL database instance to an auto scaling group
2. Migrate the MySQL database to amazon aurora
3. Migrate the MySQL database to a ProsgressSQL databse
4. Create an ELB Application load balancer
5. Create a read replica in different AZ

Q4. An Application launch on EC2 instance needs to publish personally identifiable (PII) about customers using SNS. The application is launched in private subnets within AWS VPC.

Which is MOST secure way to allow the application to access service endpoint in the region?

1. Use an Internet Gateway
2. Use AWS Private Link
3. Use a NAT G/W
4. Use a Proxy Instance

Q5. An Application is scanning DynamoDB table that was created with default settings. The application occasionally reads stale data when it queries the table.

How can this be corrected?

1. Increase the provisioned read capacity of the table
2. Enable Auto Scaling on the DynamoDB
3. Update the application to use strongly consistent reads
4. Re-create the DynamoDB table with eventual consistency disable