Quiz 1: Cloud Public AWS Day 1

**Cloud Public AWS: EC2, ELB, ASG, RDS service**

1. Which of the following feature is used for scaling of EC2 sites?  
1. Auto Replica  
**2. Auto Scaling**  
3. Auto Ruling  
4. All of the mentioned

Answer: 2  
Explanation: Autoscaling is part of Amazon Cloudwatch and available at no additional charge.

2. What does EC2 stand for in AWS?

1 Elastic Cache Compute

2 Elastic Container Cloud

**3. Elastic Compute Cloud**

4. Elastic Content Cache

3.What is the purpose of an Amazon Elastic Load Balancer (ELB)?

1. To manage Amazon S3 buckets

2. To distribute traffic across multiple EC2 instances

**3. To provide storage for EC2 instances**

4. To automate EC2 instance provisioning

4. A company needs to deploy at least 2 EC2 instances to support the normal workloads of its application and automatically scale up to 6 EC2 instances to handle the peak load. The architecture must be highly available and fault-tolerant as it is processing mission-critical workloads.

As the Solutions Architect of the company, what should you do to meet the above requirement?

1. Create an Auto Scaling group of EC2 instances and set the minimum capacity to 2 and the maximum capacity to 6. Use 2 Availability Zones and deploy 1 instance for each AZ.
2. **Create an Auto Scaling group of EC2 instances and set the minimum capacity to 4 and the maximum capacity to 6. Deploy 2 instances in Availability Zone A and another 2 instances in Availability Zone B.**
3. Create an Auto Scaling group of EC2 instances and set the minimum capacity to 2 and the maximum capacity to 6. Deploy 4 instances in Availability Zone A.
4. Create an Auto Scaling group of EC2 instances and set the minimum capacity to 2 and the maximum capacity to 4. Deploy 2 instances in Availability Zone A and 2 instances in Availability Zone B.

4. Which of the following allows you to create instances of the MySQL database to support your Web sites?

1. Amazon Elastic Compute Cloud
2. Amazon Simple Queue Service
3. **Amazon Relational Database Service**
4. Amazon Simple Storage System

Answer: 3  
Explanation: RDS provides features such as automated software patching, database backups, and automated database scaling via an API call.

5. A leading e-commerce company is in need of a storage solution that can be simultaneously accessed by 1000 Linux servers in multiple availability zones. The servers are hosted in EC2 instances that use a hierarchical directory structure via the NFSv4 protocol. The service should be able to handle the rapidly changing data at scale while still maintaining high performance. It should also be highly durable and highly available whenever the servers will pull data from it, with little need for management.

As the Solutions Architect, which of the following services is the most cost-effective choice that you should use to meet the above requirement?

1. Amazon S3
2. Amazon FSx for Windows File Server
3. **Amazon EFS**
4. Amazon EBS

6. A multinational company has been building its new data analytics platform with high-performance computing workloads (HPC) which requires a scalable, POSIX-compliant storage service. The data need to be stored redundantly across multiple AZs and allows concurrent connections from thousands of EC2 instances hosted on multiple Availability Zones.

Which of the following AWS storage service is the most suitable one to use in this scenario?

1. **Amazon Elastic File System**
2. Amazon ElastiCache
3. Amazon EBS Volumes
4. Amazon S3