ASSESSMENT

Q1. What is AWS IAM used for?

a) Managing virtual machines

b) Managing user access and permissions to AWS resources

c) Managing data storage

d) Managing domain names

Q2. Which of the following statements best describes IAM roles?

a) IAM roles define permissions for an IAM user.

b) IAM roles are not associated with any permissions.

c) IAM roles are used to grant permissions to AWS resources.

d) IAM roles are only applicable to EC2 instances.

Q3. What does VPC stand for in AWS?

a) Virtual Personal Cloud

b) Virtual Private Cloud

c) Virtual Public Cloud

d) Virtual Provisioned Cloud

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Q5. True or False: By default, a new VPC is created with a single public subnet.

Q6. True or False: S3 is a relational database service.

Q7. Which storage class in S3 is optimized for frequently accessed data?

a) S3 Standard

b) S3 Intelligent-Tiering

c) S3 Glacier

d) S3 One Zone-IA

Q8. True or False: S3 allows you to create folders directly; there is no need to create a bucket first.

Q9. What happens when you delete an S3 bucket?

a) The objects in the bucket are immediately deleted.

b) The objects in the bucket become archived in Glacier.

c) The bucket is moved to a different AWS account.

d) You must delete the objects individually before deleting the bucket.

Q10. How does S3 ensure data durability?

a) By replicating data across multiple AWS regions

b) By replicating data across multiple Availability Zones within a region

c) By automatically taking regular snapshots of the data

d) By storing data on magnetic tape backup

Task 1: Launch an EC2 Instance

- Launch a new Amazon EC2 instance using the Ubuntu AMI in the default VPC.
- Choose the t2.micro instance type.
- Add port 80 to your security group
- Keep all other settings as default during the launch process.
- Assign a unique name tag to the instance for identification.
- SSH into the EC2 instance, Update the ubuntu.
- Install the package <nginx>
- Access the web server using your public IP <http://ip> on your web browser

Task 2: Create an S3 Bucket

- Log in to the AWS Management Console.
- Navigate to the S3 service.
- Click on "Create bucket."
- Follow the prompts to create an S3 bucket with a unique name and choose the region of your preference.
- Within the S3 bucket you just created, click on "Upload" to upload a file (image, text, etc.) to the bucket.
- Verify that the object has been successfully uploaded
- Inside the S3 bucket, create a folder (prefix) to organize your objects.
- Upload additional objects to the created folder.

- Select one of the uploaded objects and modify its permissions to be publicly accessible.
- Verify that the object can be accessed using its public URL.

Task 3: Create IAM Users and Groups

- Create an IAM group called "Developers."
- Provide S3fullaccess permission
- Create two IAM users with the usernames "UserA" and "UserB."
- Add both IAM users to the "Developers" group.

Task 4: write down the steps to create VPC, Public Subnet and Private Subnet.