Question Point

Disaster recovery type or **Technique**

1. **your disaster recovery planning method**

##### (D****isaster Recovery As A Service (DRaaS)****

1. Backup and Restore:
2. Pilot Light: keeps **critical applications** and data at the ready for **quickly retrieved**
3. Warm Standby: keeps a **duplicate version** running on **standby at all times**
4. Multi-Site Solution: **fully replicates** your company’s data/applications between **two or more active locations**

Note:

Is not Recovery type

1. Single-site
2. Standby
3. **Allows failover to a second database in case the primary database fails?**

Ans: Multi-AZ Deployment

What does an AMI include?

Ans: ABC

1. EBS snapshot(s), or a template for the root volume of an instance-store backed instance.
2. Launch permissions that specify which AWS accounts can use the AMI to launch instances.
3. Block device mappings for instance volumes.

**D---Not Correct**

**The instance type and network configuration**

1. For auditing purposes, your company now wants to monitor all API activity for all regions in your AWS environment. What can you use to fulfill this new requirement? Please select the best answer out of the available choices.

**Ans:** Make sure you have CloudTrail trail enabled on all Regions and deliver all log files from all regions to one S3 bucket

**Why is this incorrect?**

CloudTrail is enabled for Regions, **not specific** **Availability Zones**.

Video for reference: CloudTrail

**Correct Answer: D**

**Why is this correct?**

**CloudTrail for region not in Availability Zones.**

Turn on **CloudTrail for all regions** in your environment and CloudTrail can deliver all log files from all regions to one S3 bucket.

Video for reference: CloudTrail

1. **You receive an alert about an issue between an application and the database servers. What should you check to ensure communication is working?**

Ans: Security group rules

**Why is this incorrect?**

NACL rules control access at the subnet level. We are having issues at the instance level.

**Correct Answer: B**

**Why is this correct?**

Since the issue is communication between the application and server, you should check security group rules since security groups control access at the instance ENI level.

1. **What AWS service allows you to quickly provision a test environment to investigate possible breaches(violation-** **ભંગ) into your EC2 instance?**

**Your Answer: D**

**Why is this incorrect?**

CloudWatch collects monitoring and operational data in the form of logs, metrics, and events, providing you with a unified view of AWS resources, applications and services that run on AWS, and on-premises servers.

**Correct Answer: C**

**Why is this correct?**

AWS CloudFormation **provides a common language** for you to **describe and provision** all the infrastructure resources in your cloud environment. CloudFormation allows you to use a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across **all regions and accounts**. This file serves as the single source of truth for your cloud environment.

1. Which disaster recovery option below has the highest downtime?

Ans: Backup and restore

**Correct Answer:**

**Why is this correct?**

Since most environments back up data to tape and then send the tapes off-site, it can take a longer time to restore your systems.

1. You have an EC2 instance in your environment that needs access to a DynamoDB table. What option below gives your EC2 instance access to the DynamoDB table?

**Ans:** Use an IAM role.

**Correct Answer:**

**Why is this correct?**

Assign an IAM role to the EC2 instance to provide access to the DynamoDB table.

1. **What is the best solution to provide secure access to an S3 bucket not using the internet?**

**Answer:** Use a VPC endpoint to access S3

**Why is this incorrect?**

You can use a network address translation (NAT) gateway to enable instances in a private subnet to connect to the internet or other AWS services, but prevent the internet from initiating a connection with those instances.

**Correct Answer:**

**Why is this correct?**

We can simplify access to S3 resources from within a VPC by introducing the concept of a VPC endpoint. These endpoints are easy to configure, highly reliable, and provide a secure connection to S3 that does not require a gateway or NAT instances.

1. What allows AWS to enable fast, easy, and secure file transfers over long distances between you and S3?

Ans: S3 Transfer Acceleration(S3TA)

**Correct Answer:**

**Why is this correct?**

Amazon S3 Transfer Acceleration is a bucket-level feature that enables faster data transfers to and from Amazon S3.

1. **Which database below is not a supported database in AWS RDS?**

**Answer: DynamoDB**

**Why is this incorrect?**

**Aurora, MySQL, MariaDB is supported**. Amazon RDS is available on several database instance types — optimized for memory, performance, or I/O — and provides you with six familiar database engines to choose from, including MariaDB.

**Correct Answer: DynamoDB**

**Why is this correct?**

**Amazon RDS is available on several database instance types** — optimized for memory, performance, or I/O — and provides you with six familiar database engines to choose from. **DynamoDB, however, is not one of them.  
DynamoDB not from RDS.**

1. What AWS service helps process a large number of data sets?

**Correct Answer: EMR**

**Why is this incorrect?**

Athena,S3, SQS is a queue service.

**Correct Answer:**

**Why is this correct?**

**EMR (Elastic Map Reduce)** helps you **analyze and process vast amounts** of data by distributing the compute work across a cluster of servers. The cluster is managed using the open-source framework Hadoop. EMR lets you focus on crunching and analyzing data.

1. Edge locations have which of the following features?

**Correct Answer: ABC**

**A.** Distribute content to users

**B.** Cache common content

**C.** Used with CloudFront

**Correct Answer: A**

**Why is this correct?**

Edge locations are used to deliver content **quickly to your users**.

**Correct Answer: B**

**Why is this correct?**

Edge locations are **used to cache objects**.

**Correct Answer: C**

**Why is this correct?**

Edge locations are **used along with CloudFront**.

**Why is this incorrect? D**

Edge locations do **not distributes** content **across multiple** AWS resources

1. **Which two options below allow RDS to offer a scalable and highly available database solution?**

A. Multi-AZ

B. Read replicas

**Correct Answer: A**

**Why is this correct?**

Enable Multi-AZ to increase your data durability and high availability.

**Correct Answer: B**

**Why is this correct?**

Use read replicas to increase your data durability and scaling benefits.

1. What are three features of AWS pricing that help companies lower costs?
2. Discount and price reduction for upfront or partial payments
3. The ability to pay as you go
4. No upfront costs

D. Ability to choose the **lowest** **cost** **vendor**

1. **You have a distributed application that sometimes processes large volumes of data. The application is designed to recover gracefully if any EC2 instance fails. Your task is to process the large volumes of data in the most cost-effective way. What instance type will work best and be the most cost-effective?**

**A.**Dedicated instances

**B.**Reserved instances

**C.**Spot instances

**D.**On-demand instances

**Correct Answer: C**

**Why is this correct?**

Your requirement is a cost-effective way to process data, and since your application recovers gracefully from failures, you can choose spot instances — **because even if you lose the instance, your application will recover gracefully.**

**Your Answer: D**

**Why is this incorrect?**

With on-demand instances, you only pay for EC2 instances you use. The use of on-demand instances frees you from the costs and complexities of planning, purchasing, and maintaining hardware, as well as transforms what are commonly large fixed costs into much smaller variable costs.

**Note:**

The question says "The application is designed to recover gracefully from Amazon EC2 instance failures.", which means that application has the ability to handle failed EC2 instances. If it was written " The application should be designed", then that would have been a different case altogether.

Since the application can recover itself and cost is another factor to be considered, **Spot instance is the right answer here.**

1. **What tool is best for forecasting(આગાહી) your AWS spending?**

**Correct Answer:**  AWS Cost Explorer

**Incorrect Answer:**

**Why is this incorrect?**

Trusted Advisor gives recommendations to **optimize your environment**

**but does not relate to billing.**

**Correct Answer: A**

**Why is this correct?**

**Cost Explorer is a free** tool you can use to view your costs and also data up to the last 13 months, along with forecasting your spending over the next three months.

1. What is the best benefit of consolidated billing?

**Correct Answer: D**

**A.** Access to a higher support plan level

**B.** Faster response from AWS technical support

**C.**  Access to other accounts not in your organization

1. Gain a volume discount for usage across all your AWS accounts

**Correct Answer:**

**Why is this correct?**

Consolidated billing allows you to view, manage, and pay bills for multiple AWS accounts in one user interface. Volume discounts can be earned by combining the usage from all accounts your own.

1. Gfs