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QUESTION 1

A solutions architect is designing a shared storage solution for a web application that is deployed across multiple Availability Zones. The web application runs on Amazon EC2 instances that are in an Auto Scaling group. The company plans to make frequent changes to the content. The solution must have strong consistency in returning the new content as soon as the changes occur.

Which solutions meet these requirements? (Select TWO.)

- A. Use AWS Storage Gateway Volume Gateway Internet Small Computer Systems Interface (iSCSI) block storage that is mounted to the individual EC2 instances.
- B. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system on the individual EC2 instances.
- C. Create a shared Amazon Elastic Block Store (Amazon EBS) volume. Mount the EBS volume on the individual EC2 instances.
- D. Use AWS DataSync to perform continuous synchronization of data between EC2 hosts in the Auto Scaling group.
- E. Create an Amazon S3 bucket to store the web content. Set the metadata for the Cache-Control header to no-cache. Use Amazon CloudFront to deliver the content.

Correct Answer: BC

Reference: <https://docs.aws.amazon.com/storagegateway/latest/userguide/WhatIsStorageGateway.html>
<https://docs.aws.amazon.com/efs/latest/ug/how-it-works.html>

QUESTION 2

A company is designing a new web application that the company will deploy into a single AWS Region. The application requires a two-tier architecture that will include Amazon EC2 instances and an Amazon RDS DB instance. A solutions architect needs to design the application so that all components are highly available.

Which solution will meet these requirements MOST cost-effectively?

- A. Deploy EC2 instances in an additional Region. Create a DB instance with the Multi-AZ option activated.
- B. Deploy all EC2 instances in the same Region and the same Availability Zone. Create a DB instance with the Multi-AZ option activated.
- C. Deploy EC2 instances across at least two Availability Zones within the same Region. Create a DB instance in a single Availability Zone.
- D. Deploy EC2 instances across at least two Availability Zones within the same Region. Create a DB instance with the Multi-AZ option activated.

Correct Answer: D

QUESTION 3

A company recently implemented hybrid cloud connectivity using AWS Direct Connect and is migrating data to Amazon S3. The company is looking for a fully managed solution that will automate and accelerate the replication of data between

the on-premises storage systems and AWS storage services.

Which solution should a solutions architect recommend to keep the data private?

- A. Deploy an AWS DataSync agent for the on-premises environment. Configure a sync job to replicate the data and connect it with an AWS service endpoint.
- B. Deploy an AWS DataSync agent for the on-premises environment. Schedule a batch job to replicate point-in-time snapshots to AWS.
- C. Deploy an AWS Storage Gateway volume gateway for the on-premises environment. Configure it to store data locally, and asynchronously back up point-in-time snapshots to AWS.
- D. Deploy an AWS Storage Gateway file gateway for the on-premises environment. Configure it to store data locally, and asynchronously back up point-in-time snapshots to AWS.

Correct Answer: A

QUESTION 4

A company owns an asynchronous API that is used to ingest user requests and, based on the request type, dispatch requests to the appropriate microservice for processing. The company is using Amazon API Gateway to deploy the API front end, and an AWS Lambda function that invokes Amazon DynamoDB to store user requests before dispatching them to the processing microservices. The company provisioned as much DynamoDB throughput as its budget allows, but the company is still experiencing availability issues and is losing user requests. What should a solutions architect do to address this issue without impacting existing users?

- A. Add throttling on the API Gateway with server-side throttling limits.
- B. Use DynamoDB Accelerator (DAX) and Lambda to buffer writes to DynamoDB.
- C. Create a secondary index in DynamoDB for the label with the user requests.
- D. Use the Amazon Simple Queue Service (Amazon SQS) queue and Lambda to buffer writes to DynamoDB.

Correct Answer: D

QUESTION 5

A solutions architect is designing a mission-critical web application. It will consist of Amazon EC2 instances behind an Application Load Balancer and a relational database. The database should be highly available and fault tolerant. Which database implementations will meet these requirements? (Select TWO.)

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. Amazon RDS for MySQL
- D. MySQL-compatible Amazon Aurora Multi-AZ
- E. Amazon RDS for SQL Server Standard Edition Multi-AZ

Correct Answer: DE

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