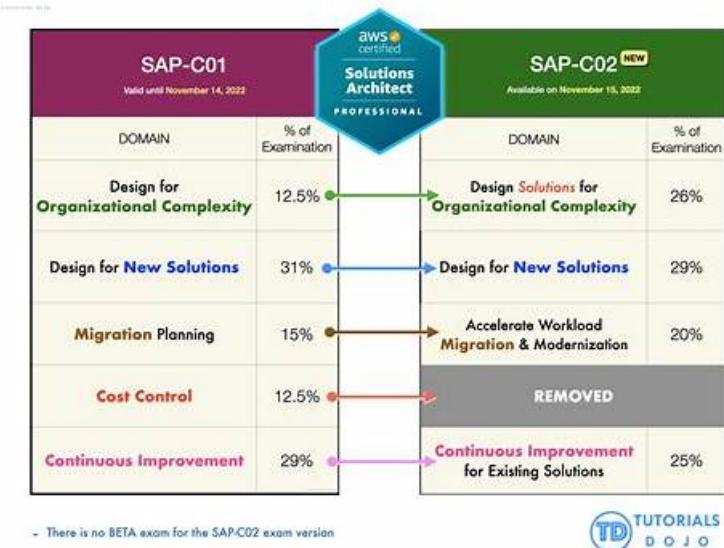


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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q17-Q22):

NEW QUESTION # 17

A company that provides image storage services wants to deploy a customer-facing solution to AWS. Millions of individual customers will use the solution. The solution will receive batches of large image files, resize the files, and store the files in an Amazon S3 bucket for up to 6 months.

The solution must handle significant variance in demand. The solution must also be reliable at enterprise scale and have the ability to rerun processing jobs in the event of failure.

Which solution will meet these requirements MOST cost-effectively?

- A. Use S3 Event Notifications to invoke an AWS Lambda function when a user stores an image. Use the Lambda function to resize the image in place and to store the original file in the S3 bucket. Create an S3 Lifecycle policy to move all stored images to S3 Standard-Infrequent Access (S3 Standard-IA) after 6 months.
- B. Use Amazon EventBridge to process the S3 event that occurs when a user uploads an image. Run an AWS Lambda function that resizes the image in place and replaces the original file in the S3 bucket. Create an S3 Lifecycle expiration policy to expire all stored images after 6 months.
- C. Use Amazon Simple Queue Service (Amazon SQS) to process the S3 event that occurs when a user stores an image. Run an AWS Lambda function that resizes the image and stores the resized file in an S3 bucket that uses S3 Standard-Infrequent Access (S3 Standard-IA). Create an S3 Lifecycle policy to move all stored images to S3 Glacier Deep Archive after 6 months.
- D. Use AWS Step Functions to process the S3 event that occurs when a user stores an image. Run an AWS Lambda function that resizes the image in place and replaces the original file in the S3 bucket. Create an S3 Lifecycle expiration policy to expire all stored images after 6 months.

Answer: A

Explanation:

S3 Event Notifications is a feature that allows users to receive notifications when certain events happen in an S3 bucket, such as object creation or deletion¹. Users can configure S3 Event Notifications to invoke an AWS Lambda function when a user stores an image in the bucket. Lambda is a serverless compute service that runs code in response to events and automatically manages the underlying compute resources². The Lambda function can resize the image in place and store the original file in the same S3 bucket. This way, the solution can handle significant variance in demand and be reliable at enterprise scale. The solution can also rerun processing jobs in the event of failure by using the retry and dead-letter queue features of Lambda².

S3 Lifecycle is a feature that allows users to manage their objects so that they are stored cost-effectively throughout their lifecycle³. Users can create an S3 Lifecycle policy to move all stored images to S3 Standard-Infrequent Access (S3 Standard-IA) after 6 months. S3 Standard-IA is a storage class designed for data that is accessed less frequently, but requires rapid access when needed⁴. It offers a lower storage cost than S3 Standard, but charges a retrieval fee. Therefore, moving the images to S3 Standard-IA after 6 months can reduce the storage cost for the solution.

Option A is incorrect because using AWS Step Functions to process the S3 event that occurs when a user stores an image is not necessary or cost-effective. AWS Step Functions is a service that lets users coordinate multiple AWS services into serverless workflows. However, for this use case, a single Lambda function can handle the image resizing task without needing Step Functions. Option B is incorrect because using Amazon EventBridge to process the S3 event that occurs when a user uploads an image is not necessary or cost-effective. Amazon EventBridge is a serverless event bus service that makes it easy to connect applications with data from a variety of sources. However, for this use case, S3 Event Notifications can directly invoke the Lambda function without needing EventBridge.

Option D is incorrect because using Amazon Simple Queue Service (Amazon SQS) to process the S3 event that occurs when a user stores an image is not necessary or cost-effective. Amazon SQS is a fully managed message queuing service that enables users to decouple and scale microservices, distributed systems, and serverless applications. However, for this use case, S3 Event Notifications can directly invoke the Lambda function without needing SQS. Moreover, storing the resized file in an S3 bucket that uses S3 Standard-IA will incur a retrieval fee every time the file is accessed, which may not be cost-effective for frequently accessed files.

NEW QUESTION # 18

A company is using Amazon SageMaker A1 Notebook Instances and SageMaker APIs to train machine learning (ML) models. The SageMaker A1 Notebook Instances are deployed in a VPC that does not have access to or from the internet. Datasets for ML model training are stored in an Amazon S3 bucket. Interface VPC endpoints provide access to Amazon S3 and the SageMaker APIs.

Occasionally, data scientists require access to a private Git repository to update application packages that they use as part of their workflow. The company must provide access to the Git repository while ensuring that the SageMaker A1 Notebook Instances remain isolated from the internet.

Which solution meets these requirements with the LEAST operational overhead?

- A. Create a NAT gateway in the VPC. Configure VPC routes to allow access to the internet. Configure network ACL rules

that allow the SageMaker A1 Notebook Instances access to only the Git repository URL.

- B. Create a NAT gateway in the VPC. Configure VPC routes to allow access to the internet with a network ACL that allows access to only the Git repository URL.
- C. Add the Git repository as a resource for SageMaker by referencing the remote URL. Add the username to the URL that is required to access the repository.
- D. Add the Git repository as a resource for SageMaker by referencing the remote URL. Configure AWS Secrets Manager to use Git credentials to access the repository.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The key requirement is to provide access to a private Git repository while keeping the SageMaker notebook instances isolated from the internet. The environment is intentionally configured without internet access, and connectivity to AWS services is provided through VPC endpoints. Introducing a NAT gateway and routing to the internet would violate the requirement to keep the notebook instances isolated from the internet, and network ACLs cannot reliably restrict outbound access by URL or domain name because NACLs operate at the IP and port level and do not provide DNS-aware URL filtering.

SageMaker supports integrating Git repositories so that notebooks can pull code directly as part of the workflow. When using a private repository, credentials must be handled securely. Using AWS Secrets Manager to store and reference Git credentials allows authentication without embedding usernames and passwords in code or URLs and without granting broad network access. This approach meets the requirement with low operational overhead because it relies on managed SageMaker Git integration and managed secret storage rather than custom networking controls.

Option A uses SageMaker's Git repository integration with the remote URL and stores credentials in AWS Secrets Manager. This allows notebooks to access the private repository in a controlled, auditable way while preserving the "no internet access" posture of the VPC design (because it does not require adding a NAT gateway or public routes).

Option B is not appropriate because embedding credentials (even just usernames) in URLs is not a secure or robust credential management practice. It also does not solve private authentication in a secure manner and can lead to credential leakage through logs or configuration.

Options C and D are not correct because they require adding a NAT gateway and routing to the internet. That directly conflicts with the requirement that SageMaker notebook instances remain isolated from the internet.

Additionally, the proposed restriction mechanism is invalid: network ACLs cannot restrict traffic to a specific URL. They only allow/deny traffic based on IP addresses, ports, and protocols. A Git repository can resolve to multiple IPs, can change IPs, and can use CDNs, making NACL-based IP allowlisting brittle and operationally heavy.

Therefore, integrating the Git repository with SageMaker and using Secrets Manager for credentials is the best solution with the least operational overhead while maintaining internet isolation.

References: AWS documentation on SageMaker notebook Git repository integration for pulling code from remote repositories. AWS documentation on AWS Secrets Manager for secure storage and retrieval of credentials used by applications and workflows. AWS networking documentation describing that network ACLs operate on IP/port rules and do not support URL-based filtering, and that adding NAT gateway enables internet egress from private subnets.

NEW QUESTION # 19

A large company with hundreds of AWS accounts has a newly established centralized internal process for purchasing new or modifying existing Reserved Instances. This process requires all business units that want to purchase or modify Reserved Instances to submit requests to a dedicated team for procurement or execution.

Previously, business units would directly purchase or modify Reserved Instances in their own respective AWS accounts autonomously.

Which combination of steps should be taken to proactively enforce the new process in the MOST secure way possible? (Select TWO.)

- A. Create an SCP that contains a deny rule to the ec2:PurchaseReservedInstancesOffering and ec2: Modify Reserved Instances actions. Attach the SCP to each organizational unit (OU) of the AWS Organizations structure.
- B. In each AWS account, create an IAM policy with a DENY rule to the ec2:PurchaseReservedInstancesOffering and ec2:ModifyReservedInstances actions.
- C. Ensure that all AWS accounts are part of an AWS Organizations structure operating in consolidated billing features mode.
- D. Ensure all AWS accounts are part of an AWS Organizations structure operating in all features mode.
- E. Use AWS Config to report on the attachment of an IAM policy that denies access to the ec2:PurchaseReservedInstancesOffering and ec2:ModifyReservedInstances actions.

Answer: A,D

Explanation:

Explanation

https://docs.aws.amazon.com/organizations/latest/APIReference/API_EnableAllFeatures.html

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scp-strategies.html A: By ensuring all AWS accounts are part of an organization in AWS Organizations, it allows for centralized management and control of the accounts. This can help enforce the new purchasing process by giving a dedicated team the ability to manage and enforce policies across all accounts. D: By creating an SCP (Service Control Policy) that denies access to the ec2:PurchaseReservedInstancesOffering and ec2:ModifyReservedInstances actions, it enforces the new centralized purchasing process. Attaching the SCP to each OU (organizational unit) within the organization ensures that all business units are adhering to the new process.

NEW QUESTION # 20

A company has a photo sharing social networking application. To provide a consistent experience for users, the company performs some image processing on the photos uploaded by users before publishing on the application. The image processing is implemented using a set of Python libraries.

The current architecture is as follows:

*. The image processing Python code runs in a single Amazon EC2 instance and stores the processed images in an Amazon S3 bucket named ImageBucket.

*. The front-end application, hosted in another bucket, loads the images from ImageBucket to display to users.

With plans for global expansion, the company wants to implement changes in its existing architecture to be able to scale for increased demand on the application and reduce management complexity as the application scales.

Which combination of changes should a solutions architect make? (Select TWO.)

- A. Deploy the applications in an Amazon ECS cluster and apply Service Auto Scaling.
- B. Use Amazon CloudFront in front of ImageBucket.
- C. Use AWS Lambda to run the image processing tasks.
- D. Use Amazon Rekognition for image processing.
- E. Place the image processing EC2 instance into an Auto Scaling group.

Answer: B,C

NEW QUESTION # 21

A company ingests and processes streaming market data. The data rate is constant. A nightly process that calculates aggregate statistics is run, and each execution takes about 4 hours to complete. The statistical analysis is not mission critical to the business, and previous data points are picked up on the next execution if a particular run fails.

The current architecture uses a pool of Amazon EC2 Reserved Instances with 1-year reservations running full time to ingest and store the streaming data in attached Amazon EBS volumes. On-Demand EC2 instances are launched each night to perform the nightly processing, accessing the stored data from NFS shares on the ingestion servers, and terminating the nightly processing servers when complete. The Reserved Instance reservations are expiring, and the company needs to determine whether to purchase new reservations or implement a new design.

Which is the most cost-effective design?

- A. Update the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon S3. Use a scheduled script to launch a fleet of EC2 On-Demand Instances each night to perform the batch processing of the S3 data. Configure the script to terminate the instances when the processing is complete.
- B. Update the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon Redshift. Use Amazon EventBridge to schedule an AWS Lambda function to run nightly to query Amazon Redshift to generate the daily statistics.
- C. Update the ingestion process to use a fleet of EC2 Reserved Instances with 3-year reservations behind a Network Load Balancer. Use AWS Batch with Spot Instances to perform nightly processing with a maximum Spot price that is 50% of the On-Demand price.
- D. Update the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon S3. Use AWS Batch with Spot Instances to perform nightly processing with a maximum Spot price that is 50% of the On-Demand price.

Answer: D

Explanation:

Updating the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon S3 will reduce the need for EC2 instances and EBS volumes for data storage. Using AWS Batch with Spot Instances to perform nightly processing will leverage the cost savings of Spot Instances, which are up to 90% cheaper than On-Demand Instances. AWS Batch will also handle the scheduling and scaling of the processing jobs.

Setting the maximum Spot price to 50% of the On-Demand price will reduce the chances of interruption and ensure that the processing is cost-effective.

NEW QUESTION # 22

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