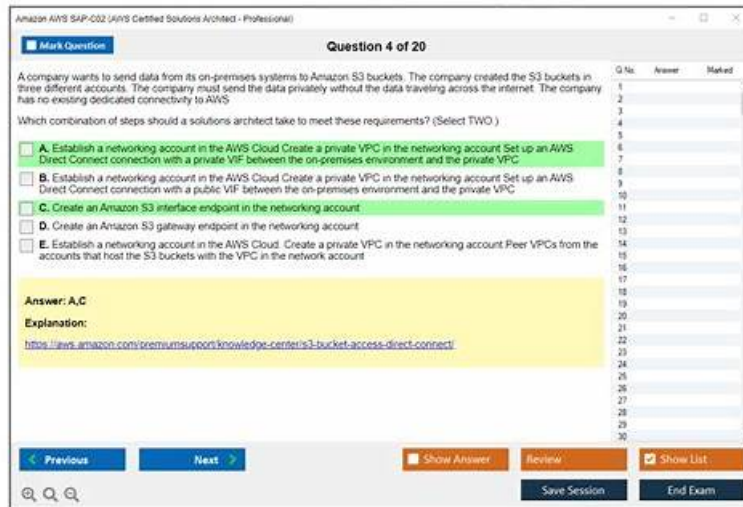


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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q55-Q60):

NEW QUESTION # 55

A company gives users the ability to upload images from a custom application. The upload process invokes an AWS Lambda function that processes and stores the image in an Amazon S3 bucket. The application invokes the Lambda function by using a specific function version ARN.

The Lambda function accepts image processing parameters by using environment variables. The company often adjusts the environment variables of the Lambda function to achieve optimal image processing output.

The company tests different parameters and publishes a new function version with the updated environment variables after validating results. This update process also requires frequent changes to the custom application to invoke the new function version ARN. These changes cause interruptions for users.

A solutions architect needs to simplify this process to minimize disruption to users. Which solution will meet these requirements with the LEAST operational overhead?

- A. Directly modify the environment variables of the published Lambda function version. Use the SLATEST version to test image processing parameters.
- B. Directly code the image processing parameters within the Lambda function and remove the environment variables. Publish a new function version when the company updates the parameters.
- **C. Create a Lambda function alias. Modify the client application to use the function alias ARN. Reconfigure the Lambda alias to point to new versions of the function when the company finishes testing.**
- D. Create an Amazon DynamoDB table to store the image processing parameters. Modify the Lambda function to retrieve the image processing parameters from the DynamoDB table.

Answer: C

Explanation:

Explanation

A Lambda function alias allows you to point to a specific version of a function and also can be updated to point to a new version of the function without modifying the client application. This way, the company can test different versions of the function with different environment variables and, once the optimal parameters are found, update the alias to point to the new version, without the need to update the client application.

By using this approach, the company can simplify the process of updating the environment variables, minimize disruption to users, and reduce the operational overhead.

NEW QUESTION # 56

A company hosts a software as a service (SaaS) solution on AWS. The solution has an Amazon API Gateway API that serves an HTTPS endpoint. The API uses AWS Lambda functions for compute. The Lambda functions store data in an Amazon Aurora Serverless V1 database.

The company used the AWS Serverless Application Model (AWS SAM) to deploy the solution. The solution extends across multiple Availability Zones and has no disaster recovery (DR) plan.

A solutions architect must design a DR strategy that can recover the solution in another AWS Region. The solution has an RTO of 5 minutes and an RPO of 1 minute.

What should the solutions architect do to meet these requirements?

- A. Create an Aurora Serverless V1 DB cluster that has multiple writer instances in the target Region. Launch the solution in the target Region. Configure the two Regional solutions to work in an active-passive configuration.
- **B. Change the Aurora Serverless V1 database to a standard Aurora MySQL global database that extends across the source Region and the target Region. Launch the solution in the target Region. Configure the two Regional solutions to work in an active-passive configuration.**
- C. Change the Aurora Serverless V1 database to a standard Aurora MySQL global database that extends across the source Region and the target Region. Use AWS SAM to create a runbook to deploy the solution to the target Region.
- D. Create a read replica of the Aurora Serverless V1 database in the target Region. Use AWS SAM to create a runbook to deploy the solution to the target Region. Promote the read replica to primary in case of disaster.

Answer: B

Explanation:

Explanation: This option allows the solutions architect to use Aurora global database to replicate data across multiple AWS Regions with low latency and high availability¹. By launching the solution in the target Region, the solutions architect can ensure that the API Gateway, Lambda functions, and other resources are ready to serve traffic in case of a disaster in the source Region. By configuring the two Regional solutions to work in an active-passive configuration, the solutions architect can minimize costs and avoid data conflicts by having only one primary Region that accepts write operations and one secondary Region that serves as a standby². The RTO and RPO requirements can be met by using Aurora global database, which supports sub-second failover times and near real-time replication¹.

References:

Working with Amazon Aurora global database

Active-passive failover

NEW QUESTION # 57

A large company recently experienced an unexpected increase in Amazon RDS and Amazon DynamoDB costs. The company

needs to increase visibility into delays of AWS Billing and Cost Management. There are various accounts associated with AWS Organizations, including many development and production accounts. There is no consistent tagging strategy across the organization, but there are guidelines in place that require all infrastructure to be deployed using AWS CloudFormation with consistent tagging. Management requires cost center numbers and project ID numbers for all existing and future DynamoDB tables and RDS instances. Which strategy should the solutions architect provide to meet these requirements?

- A. Create cost allocation tags to define the cost center and project ID and allow 24 hours for tags to propagate to existing resources.
Update existing federated roles to restrict privileges to provision resources that do not include the cost center and project ID on the resource.
- **B. Use Tag Editor to tag existing resources.**
Create cost allocation tags to define the cost center and project ID.
Use SCPs to restrict resource creation that do not have the cost center and project ID on the resource.
- C. Use an AWS Config rule to alert the finance team of untagged resources.
Create a centralized AWS Lambda based solution to tag untagged RDS databases and DynamoDB resources every hour using a cross-account role.
- D. Use Tag Editor to tag existing resources.
Create cost allocation tags to define the cost center and project ID and allow 24 hours for tags to propagate to existing resources.

Answer: B

Explanation:

For all present and prospective DynamoDB tables and RDS instances, management needs cost center and project ID numbers.

NEW QUESTION # 58

A company uses AWS Organizations to manage its development environment. Each development team at the company has its own AWS account. Each account has a single VPC and CIDR blocks that do not overlap.

The company has an Amazon Aurora DB cluster in a shared services account. All the development teams need to work with live data from the DB cluster. Which solution will provide the required connectivity to the DB cluster with the LEAST operational overhead?

- A. Create an Application Load Balancer (ALB) that points to the IP address of the DB cluster. Create an AWS PrivateLink endpoint service that uses the ALB. Add permissions to allow each development account to connect to the endpoint service.
- B. Create an AWS Site-to-Site VPN connection in the shared services account. Configure networking. Use AWS Marketplace VPN software in each development account to connect to the Site-to-Site VPN connection.
- **C. Create a transit gateway in the shared services account. Create an AWS Resource Access Manager (AWS RAM) resource share for the transit gateway. Share the transit gateway with all the development accounts. Instruct the developers to accept the resource share. Configure networking.**
- D. Create an AWS Resource Access Manager (AWS RAM) resource share for the DB cluster. Share the DB cluster with all the development accounts.

Answer: C

Explanation:

* Create a Transit Gateway:

* In the shared services account, create a new AWS Transit Gateway. This serves as a central hub to connect multiple VPCs, simplifying the network topology and management.

* Configure Transit Gateway Attachments:

* Attach the VPC containing the Aurora DB cluster to the transit gateway. This allows the shared services VPC to communicate through the transit gateway.

* Create Resource Share with AWS RAM:

* Use AWS Resource Access Manager (AWS RAM) to create a resource share for the transit gateway. Share this resource with all development accounts. AWS RAM allows you to securely share your AWS resources across AWS accounts without needing to duplicate them.

* Accept Resource Shares in Development Accounts:

* Instruct each development team to log into their respective AWS accounts and accept the transit gateway resource share. This step is crucial for enabling cross-account access to the shared transit gateway.

* Configure VPC Attachments in Development Accounts:

* Each development account needs to attach their VPC to the shared transit gateway. This allows their VPCs to route traffic through

the transit gateway to the Aurora DB cluster in the shared services account.

* Update Route Tables:

* Update the route tables in each VPC to direct traffic intended for the Aurora DB cluster through the transit gateway. This ensures that network traffic is properly routed between the development VPCs and the shared services VPC.

Using a transit gateway simplifies the network management and reduces operational overhead by providing a scalable and efficient way to interconnect multiple VPCs across different AWS accounts.

References

* AWS Database Blog on RDS Proxy for Cross-Account Access#48#.

* AWS Architecture Blog on Cross-Account and Cross-Region Aurora Setup#49#.

* DEV Community on Managing Multiple AWS Accounts with Organizations#51#.

NEW QUESTION # 59

A large company in Europe plans to migrate its applications to the AWS Cloud.

The company uses multiple AWS accounts for various business group.

A data privacy law requires the company to restrict developers' access to AWS European Regions only.

What should the solutions architect do to meet this requirement with the LEAST amount of management overhead?

- **A. Enable AWS Organizations, attach the AWS accounts, and create OUs for European Regions and non-European Regions.
Create SCPs to limit access to non-European Regions and attach the policies to the OUs.**
- B. Set up AWS Single Sign-On and attach AWS accounts.
Create permission sets with policies to restrict access to non-European Regions.
Create IAM users and IAM groups in each account.
- C. Enable AWS Organizations, attach the AWS accounts, and create OUs for European Regions and non-European Regions.
Create permission sets with policies to restrict access to non-European Regions.
Create IAM users and IAM groups in the primary account.
- D. Create IAM users and IAM groups in each account.
Create IAM policies to limit access to non-European Regions. Attach the IAM policies to the IAM groups.

Answer: A

Explanation:

This policy uses the Deny effect to deny access to all requests for operations that don't target one of the two approved regions (eu-central-1 and eu-west-1).

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_examples_general.html#example-scp-deny-region

NEW QUESTION # 60

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