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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q86-Q91):

NEW QUESTION # 86
A company is migrating mobile banking applications to run on Amazon EC2 instances in a VPC. Backend service applications run in an on-premises data center.

The data center has an AWS Direct Connect connection into AWS. The applications that run in the VPC need to resolve DNS requests to an on-premises Active Directory domain that runs in the data center.
Which solution will meet these requirements with the LEAST administrative overhead?

- A. Provision a set of EC2 instances across two Availability Zones in the VPC as caching DNS servers to resolve DNS queries from the application servers within the VPC.
- B. Provision a new Active Directory domain controller in the VPC with a bidirectional trust between this new domain and the on-premises Active Directory domain.
- C. Create DNS endpoints by using Amazon Route 53 Resolver Add conditional forwarding rules to resolve DNS namespaces between the on-premises data center and the VPC.
- D. Provision an Amazon Route 53 private hosted zone. Configure NS records that point to on-premises DNS servers.

Answer: C

NEW QUESTION # 87
A solutions architect needs to assess a newly acquired company's portfolio of applications and databases. The solutions architect must create a business case to migrate the portfolio to AWS. The newly acquired company runs applications in an on-premises data center. The data center is not well documented. The solutions architect cannot immediately determine how many applications and databases exist. Traffic for the applications is variable. Some applications are batch processes that run at the end of each month. The solutions architect must gain a better understanding of the portfolio before a migration to AWS can begin.
Which solution will meet these requirements?

- A. Use AWS Server Migration Service (AWS SMS) and AWS Database Migration Service (AWS DMS) to evaluate migration. Use AWS Service Catalog to understand application and database dependencies.
- B. Use AWS Control Tower in the destination account to generate an application portfolio. Use AWS Server Migration Service (AWS SMS) to generate deeper reports and a business case. Use a landing zone for core accounts and resources.
- C. Use AWS Application Migration Service. Run agents on the on-premises infrastructure. Manage the agents by using AWS Migration Hub. Use AWS Storage Gateway to assess local storage needs and database dependencies.
- D. Use Migration Evaluator to generate a list of servers. Build a report for a business case. Use AWS Migration Hub to view the portfolio. Use AWS Application Discovery Service to gain an understanding of application dependencies.

Answer: D

Explanation:
The company should use Migration Evaluator to generate a list of servers and build a report for a business case. The company should use AWS Migration Hub to view the portfolio and use AWS Application Discovery Service to gain an understanding of application dependencies. This solution will meet the requirements because Migration Evaluator is a migration assessment service that helps create a data-driven business case for AWS cloud planning and migration. Migration Evaluator provides a clear baseline of what the company is running today and projects AWS costs based on measured on-premises provisioning and utilization1. Migration Evaluator can use an agentless collector to conduct broad-based discovery or securely upload exports from existing inventory tools2. Migration Evaluator integrates with AWS Migration Hub, which is a service that provides a single location to track the progress of application migrations across multiple AWS and partner solutions3. Migration Hub also supports AWS Application Discovery Service, which is a service that helps systems integrators quickly and reliably plan application migration projects by automatically identifying applications running in on-premises data centers, their associated dependencies, and their performance profile4.
https://aws.amazon.com/migration-evaluator/
https://docs.aws.amazon.com/migration-evaluator/latest/userguide/what-is.html
https://aws.amazon.com/migration-hub/
https://aws.amazon.com/application-discovery/
https://aws.amazon.com/server-migration-service/
https://aws.amazon.com/dms/
https://docs.aws.amazon.com/controltower/latest/userguide/what-is-control-tower.html
https://aws.amazon.com/application-migration-service/
https://aws.amazon.com/storagegateway/

NEW QUESTION # 88
A company is providing weather data over a REST-based API to several customers. The API is hosted by Amazon API Gateway and is integrated with different AWS Lambda functions for each API operation. The company uses Amazon Route 53 for DNS and has created a resource record of weather.example.com. The company stores data for the API in Amazon DynamoDB tables. The

company needs a solution that will give the API the ability to fail over to a different AWS Region.
Which solution will meet these requirements?

- A. Deploy a new set of Lambda functions in a new Region. Update the API Gateway API to use an edge-optimized API endpoint with Lambda functions from both Regions as targets. Convert the DynamoDB tables to global tables.
- B. Deploy a new API Gateway API and Lambda functions in another Region. Change the Route 53 DNS record to a failover record. Enable target health monitoring. Convert the DynamoDB tables to global tables.
- C. Deploy a new API Gateway API in a new Region. Change the Lambda functions to global functions.Change the Route 53 DNS record to a multivalue answer. Add both API Gateway APIs to the answer.Enable target health monitoring. Convert the DynamoDB tables to global tables.
- D. Deploy a new API Gateway API and Lambda functions in another Region. Change the Route 53 DNS record to a multivalue answer. Add both API Gateway APIs to the answer. Enable target health monitoring. Convert the DynamoDB tables to global tables.

Answer: B

Explanation:
Explanation
https://docs.aws.amazon.com/apigateway/latest/developerguide/dns-failover.html

NEW QUESTION # 89

A company plans to migrate a legacy on-premises application to AWS. The application is a Java web application that runs on Apache Tomcat with a PostgreSQL database.
The company does not have access to the source code but can deploy the application Java Archive (JAR) files. The application has increased traffic at the end of each month.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Launch Amazon EC2 instances in multiple Availability Zones. Deploy Tomcat and PostgreSQL to all the instances by using Amazon EFS mount points. Use AWS Step Functions to deploy additional EC2 instances to scale for increased traffic.
- B. Provision Amazon EKS in an Auto Scaling group across multiple AWS Regions. Deploy Tomcat and PostgreSQL in the container images. Use a Network Load Balancer to scale for increased traffic.
- C. Use AWS Elastic Beanstalk to deploy the Tomcat servers with auto scaling in multiple Availability Zones. Store application data in an Amazon RDS for PostgreSQL database. Deploy Amazon CloudFront and an Application Load Balancer to scale for increased traffic.
- D. Refactor the Java application into Python-based containers. Use AWS Lambda functions for the application logic. Store application data in Amazon DynamoDB global tables. Use AWS Storage Gateway and Lambda concurrency to scale for increased traffic.

Answer: C

NEW QUESTION # 90

A solutions architect must provide a secure way for a team of cloud engineers to use the AWS CLI to upload objects into an Amazon S3 bucket Each cloud engineer has an IAM user. IAM access keys and a virtual multi-factor authentication (MFA) device The IAM users for the cloud engineers are in a group that is named S3-access The cloud engineers must use MFA to perform any actions in Amazon S3 Which solution will meet these requirements?

- A. Attach a policy to the S3 bucket to prompt the 1AM user for an MFA code when the 1AM user performs actions on the S3 bucket Use 1AM access keys with the AWS CLI to call Amazon S3
- B. Attach a policy to the S3-access group to deny all S3 actions unless MFA is present Use 1AM access keys with the AWS CLI to call Amazon S3
- C. Update the trust policy for the S3-access group to require principals to use MFA when principals assume the group Use 1AM access keys with the AWS CLI to call Amazon S3
- D. Attach a policy to the S3-access group to deny all S3 actions unless MFA is present Request temporary credentials from AWS Security Token Service (AWS STS) Attach the temporary credentials in a profile that Amazon S3 will reference when the user performs actions in Amazon S3

Answer: D

Explanation:

The company should attach a policy to the S3-access group to deny all S3 actions unless MFA is present. The company should request temporary credentials from AWS Security Token Service (AWS STS). The company should attach the temporary credentials in a profile that Amazon S3 will reference when the user performs actions in Amazon S3. This solution will meet the requirements because AWS STS is a service that enables you to request temporary, limited-privilege credentials for IAM users or for users that you authenticate (federated users). You can use MFA with AWS STS to provide an extra layer of security when requesting temporary credentials1. You can use the sts get-session-token AWS CLI command to request temporary credentials that include an MFA token2. You can then use these credentials with the AWS CLI to access Amazon S3 resources. To do this, you need to attach a policy to the IAM group that denies all S3 actions unless MFA is present3. You also need to create a profile in the AWS CLI configuration file that references the temporary credentials.

The other options are not correct because:

Attaching a policy to the S3 bucket to prompt the IAM user for an MFA code when the IAM user performs actions on the S3 bucket would not work because policies attached to S3 buckets cannot enforce MFA authentication. Policies attached to S3 buckets are resource-based policies that define what actions can be performed on the bucket and by whom. They do not have any logic to prompt for an MFA code or verify it.

Updating the trust policy for the S3-access group to require principals to use MFA when principals assume the group would not work because trust policies are used for roles, not groups. Trust policies are policies that define which principals can assume a role. They do not apply to groups, which are collections of IAM users that share permissions.

Creating an Amazon Route 53 Resolver DNS Firewall domain list that contains the allowed domains and configuring a DNS Firewall rule group with rules to allow or block requests based on the domain list would not help with enforcing MFA authentication for Amazon S3 actions. Amazon Route 53 Resolver DNS Firewall is a feature that enables you to filter and regulate outbound DNS traffic for your VPC. You can create reusable collections of filtering rules in DNS Firewall rule groups and associate them with your VPCs. You can specify lists of domain names to allow or block, and you can customize the responses for the DNS queries that you block. This feature is useful for controlling access to sites and blocking DNS-level threats, but not for requiring MFA authentication.

References:

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https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_mfa_sample-policies.html

https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-profiles.html

https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/resolver-dns-firewall.html

NEW QUESTION # 91

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