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whitepapers, AWS documentation, and practice exams. AWS provides a range of training options, including instructor-led training, self-paced training, and virtual training. Candidates can also access AWS whitepapers and documentation to gain a deeper understanding of AWS services, architectures, and best practices. Lastly, practice exams are available to help candidates identify their strengths and weaknesses and to gain familiarity with the exam format.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q459-Q464):

NEW QUESTION # 459

A company wants to optimize AWS data-transfer costs and compute costs across developer accounts within the company's organization in AWS Organizations. Developers can configure VPCs and launch Amazon EC2 instances in a single AWS Region. The EC2 instances retrieve approximately 1 TB of data each day from Amazon S3. The developer activity leads to excessive monthly data-transfer charges and NAT gateway processing charges between EC2 instances and S3 buckets, along with high compute costs. The company wants to proactively enforce approved architectural patterns for any EC2 instance and VPC infrastructure that developers deploy within the AWS accounts. The company does not want this enforcement to negatively affect the speed at which the developers can perform their tasks. Which solution will meet these requirements MOST cost-effectively?

- A. Create and deploy AWS Config rules to monitor the compliance of EC2 and VPC resources in the developer AWS accounts. If developers launch unapproved EC2 instances or if developers create VPCs without S3 gateway endpoints, perform a remediation action to terminate the unapproved resources.
- **B. Create an AWS Service Catalog portfolio that users can use to create an approved VPC configuration with S3 gateway endpoints and approved EC2 instances. Share the portfolio with the developer accounts. Configure an AWS Service Catalog launch constraint to use an approved IAM role. Scope the developers' IAM permissions to allow access only to AWS Service Catalog.**
- C. Create a daily forecasted budget with AWS Budgets to monitor EC2 compute costs and S3 data-transfer costs across the developer accounts. When the forecasted cost is 75% of the actual budget cost, send an alert to the developer teams. If the actual budget cost is 100%, create a budget action to terminate the developers' EC2 instances and VPC infrastructure.
- D. Create SCPs to prevent developers from launching unapproved EC2 instance types. Provide the developers with an AWS CloudFormation template to deploy an approved VPC configuration with S3 interface endpoints. Scope the developers' IAM permissions so that the developers can launch VPC resources only with CloudFormation.

Answer: B

Explanation:

This solution allows developers to quickly launch resources using pre-approved configurations and instance types, while also ensuring that the resources launched comply with the company's architectural patterns. This can help reduce data transfer and compute costs associated with the resources. Using AWS Service Catalog also allows the company to control access to the approved configurations and resources through the use of IAM roles, while also allowing developers to quickly provision resources without negatively affecting their ability to perform their tasks.

Reference:

AWS Service Catalog: <https://aws.amazon.com/service-catalog/>

AWS Service Catalog Constraints:

<https://docs.aws.amazon.com/servicecatalog/latest/adminguide/constraints.html> AWS Service Catalog Launch Constraints:

<https://docs.aws.amazon.com/servicecatalog/latest/adminguide/launch-constraints.html>

NEW QUESTION # 460

A company has an Amazon VPC that is divided into a public subnet and a private subnet. A web application runs in Amazon VPC, and each subnet has its own NACL. The public subnet has a CIDR of 10.0.0/24. An Application Load Balancer is deployed to the public subnet. The private subnet has a CIDR of 10.0.1.0/24. Amazon EC2 instances that run a web server on port 80 are launched into the private subnet.

Only network traffic that is required for the Application Load Balancer to access the web application can be allowed to travel between the public and private subnets.

What collection of rules should be written to ensure that the private subnet's NACL meets the requirement? (Select TWO.)

- **A. An outbound rule for ports 1024 through 65535 to destination 10.0.0/24**
- B. An inbound rule for port 80 from source 0.0.0.0/0
- C. An outbound rule for port 80 to destination 0.0.0.0/0
- **D. An inbound rule for port 80 from source 10.0.0/24**
- E. An outbound rule for port 80 to destination 10.0.0/24

Answer: A,D

NEW QUESTION # 461

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 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.
- **B. 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.**
- 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 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.

Answer: B

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 # 462

A company has a web application that securely uploads pictures and videos to an Amazon S3 bucket. The company requires that only authenticated users are allowed to post content. The application generates a presigned URL that is used to upload objects through a browser interface. Most users are reporting slow upload times for objects larger than 100 MB.

What can a Solutions Architect do to improve the performance of these uploads while ensuring only authenticated users are allowed to post content?

- A. Configure an Amazon CloudFront distribution for the destination S3 bucket. Enable PUT and POST methods for the CloudFront cache behavior. Update the CloudFront origin to use an origin access identity (OAI). Give the OAI user s3:PutObject permissions in the bucket policy. Have the browser interface upload objects using the CloudFront distribution.
- B. Set up an Amazon API Gateway with a regional API endpoint that has a resource as an S3 service proxy. Configure the PUT method for this resource to expose the S3 PutObject operation. Secure the API Gateway using an AWS Lambda authorizer. Have the browser interface use API Gateway instead of the presigned URL to upload API objects.
- **C. Enable an S3 Transfer Acceleration endpoint on the S3 bucket. Use the endpoint when generating the presigned URL.**

Have the browser interface upload the objects to this URL using the S3 multipart upload API.

- D. Set up an Amazon API Gateway with an edge-optimized API endpoint that has a resource as an S3 service proxy. Configure the PUT method for this resource to expose the S3 PutObject operation. Secure the API Gateway using a COGNITO_USER_POOLS authorizer. Have the browser interface use API Gateway instead of the presigned URL to upload objects.

Answer: C

Explanation:

S3 Transfer Acceleration + multipart upload for performance, presigned URLs for access.

NEW QUESTION # 463

A solutions architect uses AWS Organizations to manage several AWS accounts for a company. The full Organizations feature set is activated for the organization. All production AWS accounts exist under an OU that is named "production". Systems operators have full administrative privileges within these accounts by using IAM roles.

The company wants to ensure that security groups in all production accounts do not allow inbound traffic for TCP port 22. All noncompliant security groups must be remediated immediately, and no new rules that allow port 22 can be created.

Which solution will meet these requirements?

- A. Write an SCP that denies the CreateSecurityGroup action with a condition of (ec2:ingress rule with value 22. Apply the SCP to the 'production' OU.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) event bus in the Organizations management account. Create an AWS CloudFormation template to deploy configurations that send CreateSecurityGroup events to the event bus from all production accounts. Configure an AWS Lambda function in the management account with permissions to assume a role in all production accounts to describe and modify security groups. Configure the event bus to invoke the Lambda function. Configure the Lambda function to analyze each event for noncompliant security group actions and to automatically remediate any issues.
- C. Configure an AWS CloudTrail trail for all accounts. Send CloudTrail logs to an Amazon S3 bucket in the Organizations management account. Configure an AWS Lambda function on the management account with permissions to assume a role in all production accounts to describe and modify security groups. Configure Amazon S3 to invoke the Lambda function on every PutObject event on the S3 bucket. Configure the Lambda function to analyze each CloudTrail event for noncompliant security group actions and to automatically remediate any issues.
- D. Create an AWS CloudFormation template to turn on AWS Config. Activate the INCOMING_SSH_DISABLED AWS Config managed rule. Deploy an AWS Lambda function that will run based on AWS Config findings and will remediate noncompliant resources. Deploy the CloudFormation template by using a StackSet that is assigned to the "production" OU. Apply an SCP to the OU to deny modification of the resources that the CloudFormation template provisions.

Answer: D

NEW QUESTION # 464

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