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Amazon SAP-C02 Exam is a professional-level certification offered by Amazon Web Services (AWS) for individuals who want to prove their expertise in designing and deploying AWS-based solutions. AWS Certified Solutions Architect - Professional (SAP-C02) certification is designed to test your knowledge and skills in various areas related to AWS architecture, including security, scalability, reliability, and cost optimization.

To pass the SAP-C02 exam, candidates must demonstrate their proficiency in designing, deploying, and managing complex AWS solutions that meet the needs of their organizations. AWS Certified Solutions Architect - Professional (SAP-C02) certification exam covers a wide range of topics, including AWS architecture, security, data storage, networking, and automation. Candidates must also demonstrate their ability to evaluate and recommend appropriate AWS services and features based on specific business requirements.

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The SAP-C02 exam is a two-part examination consisting of multiple-choice and multiple-response questions, which test a candidate's ability to design and deploy AWS solutions that meet customer requirements. SAP-C02 exam is intended for individuals who have already achieved the AWS Certified Solutions Architect - Associate certification and have at least two years of experience working with AWS. By passing the SAP-C02 Certification Exam, individuals demonstrate their ability to design, implement, and manage complex AWS architectures and solutions, thereby enhancing their professional credentials and career prospects in the cloud computing industry.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q143-Q148):

NEW QUESTION # 143

A company runs an application on a fleet of Amazon EC2 instances that are in private subnets behind an internet-facing Application Load Balancer (ALB). The ALB is the origin for an Amazon CloudFront distribution. An AWS WAF web ACL that contains various AWS managed rules is associated with the CloudFront distribution.

The company needs a solution that will prevent internet traffic from directly accessing the ALB.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Add a security group rule to the ALB to allow only the various CloudFront IP address ranges.
- B. Create a new web ACL that contains the same rules that the existing web ACL contains. Associate the new web ACL with the ALB.
- C. Associate the existing web ACL with the ALB.
- D. Add a security group rule to the ALB to allow traffic from the AWS managed prefix list for CloudFront only.

Answer: D

Explanation:

https://docs.amazonaws.cn/en_us/AmazonCloudFront/latest/DeveloperGuide/LocationsOfEdgeServers.html AWS managed prefix list is more recommended.

NEW QUESTION # 144

A company's factory and automation applications are running in a single VPC. More than 23 applications run on a combination of Amazon EC2, Amazon Elastic Container Service (Amazon ECS), and Amazon RDS.

The company has software engineers spread across three teams. One of the three teams owns each application, and each team is responsible for the cost and performance of all of its applications. Team resources have tags that represent their application and team. The teams use IAM access for daily activities.

The company needs to determine which costs on the monthly AWS bill are attributable to each application or team. The company also must be able to create reports to compare costs from the last 12 months and to help forecast costs for the next 12 months. A solution architect must recommend an AWS Billing and Cost Management solution that provides these cost reports.

Which combination of actions will meet these requirements? Select THREE.)

- A. Create a cost category for each application in Billing and Cost Management
- B. Activate the user-defined cost allocation tags that represent the application and the team
- C. Create a cost budget
- D. Enable Cost Explorer.
- E. Activate IAM access to Billing and Cost Management.
- F. Activate the AWS generated cost allocation tags that represent the application and the team

Answer: A,B,D

Explanation:

To attribute AWS costs to specific applications or teams and enable detailed cost analysis and forecasting, the solution architect should recommend the following actions: A. Activating user-defined cost allocation tags for resources associated with each application and team allows for detailed tracking of costs by these identifiers.

C). Creating a cost category for each application within AWS Billing and Cost Management enables the organization to group costs according to application, facilitating detailed reporting and analysis. F. Enabling Cost Explorer is essential for analyzing and visualizing AWS spending over time. It provides the capability to view historical costs and forecast future expenses, supporting the company's requirement for cost comparison and forecasting.

References:

AWS Billing and Cost Management Documentation: Covers the activation of cost allocation tags, creation of cost categories, and the use of Cost Explorer for cost management.

AWS Tagging Strategies: Provides best practices for implementing tagging strategies that support cost allocation and reporting.

AWS Cost Explorer Documentation: Details how to use Cost Explorer to analyze and forecast AWS costs.

NEW QUESTION # 145

Question:

A company provisions short-lived AWS accounts for students. Each account needs access to ml.p2.xlarge SageMaker instances for training and inference. The default quotas are insufficient.

How should quota increases be automated during account provisioning?

- A. Use warm pool quotas in us-east-1.
- **B. Create a quota request template in us-east-1, enable template association, and add quotas for ml.p2.xlarge training and endpoint usage in ap-southeast-2.**
- C. Create the template in ap-southeast-2 for SageMaker quotas in us-east-1.
- D. Use ml.p2.xlarge training warm pool quota in ap-southeast-2.

Answer: B

Explanation:

A is correct: Quota request templates must be created in us-east-1, the only region that supports them. You specify the desired quota in the correct target Region (ap-southeast-2) for SageMaker training and endpoint usage. This enables automatic quota increases for newly created accounts in the org.

* B, C, and D misconfigure either region or quota type.

Reference: Quota request templates

NEW QUESTION # 146

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 # 147

A company is deploying a new big data analytics cluster across multiple Availability Zones. All nodes must have read/write access to shared file storage that is highly available, POSIX-compatible, and high-throughput.

- A. Use Amazon EFS in General Purpose performance mode
- B. Use Amazon EBS with Multi-Attach
- **C. Use Amazon EFS with Max I/O performance mode**
- D. Use AWS Storage Gateway (file gateway) backed by Amazon S3

Answer: C

Explanation:

