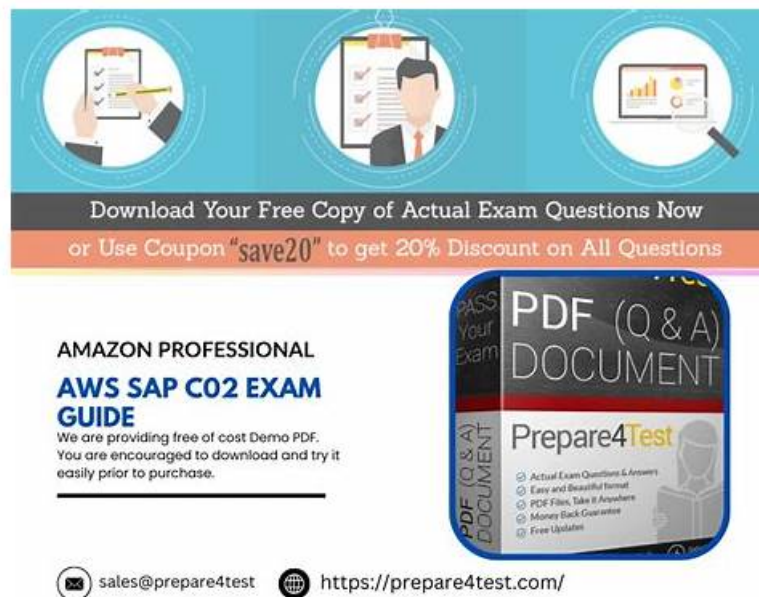


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To prepare for the SAP-C02 Certification Exam, individuals are recommended to have at least two years of hands-on experience in designing and deploying AWS-based solutions. They can also enroll in training courses, attend workshops, and use study materials provided by AWS to enhance their knowledge and skills. Additionally, individuals can take practice exams to familiarize themselves with the exam format and identify areas where they need to improve.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q167-Q172):

NEW QUESTION # 167

A company is using an existing orchestration tool to manage thousands of Amazon EC2 instances. A recent penetration test found a

vulnerability in the company's software stack. This vulnerability has prompted the company to perform a full evaluation of its current production environment.

The analysts determined that the following vulnerabilities exist within the environment:

- * Operating systems with outdated libraries and known vulnerabilities are being used in production
- * Relational databases hosted and managed by the company are running unsupported versions with known vulnerabilities
- * Data stored in databases is not encrypted.

The solutions architect intends to use AWS Config to continuously audit and assess the compliance of the company's AWS resource configurations with the company's policies and guidelines. What additional steps will enable the company to secure its environments and track resources while adhering to best practices?

- A. Create an AWS CloudFormation template for the EC2 instances. Use EC2 user data in the CloudFormation template to install the AWS Systems Manager Agent, and enable AWS KMS encryption on all Amazon EBS volumes. Have CloudFormation replace all running instances. Use Systems Manager Patch Manager to establish a patch baseline and deploy a Systems Manager Maintenance Windows task to run AWS-RunPatchBaseline using the patch baseline.
- B. Install the AWS Systems Manager Agent on all existing instances using the company's current orchestration tool. Migrate all relational databases to Amazon RDS and enable AWS KMS encryption. Use Systems Manager Patch Manager to establish a patch baseline and deploy a Systems Manager Maintenance Windows task to run AWS-RunPatchBaseline using the patch baseline.
- C. Install the AWS Systems Manager Agent on all existing instances using the company's current orchestration tool. Use the Systems Manager Run Command to run a list of commands to upgrade software on each instance using operating system-specific tools. Enable AWS KMS encryption on all Amazon EBS volumes.
- D. Use AWS Application Discovery Service to evaluate all running EC2 instances. Use the AWS CLI to modify each instance, and use EC2 user data to install the AWS Systems Manager Agent during boot. Schedule patching to run as a Systems Manager Maintenance Windows task. Migrate all relational databases to Amazon RDS and enable AWS KMS encryption.

Answer: B

NEW QUESTION # 168

A company built an e-commerce website on AWS using a three-tier web architecture. The application is Java-based and composed of an Amazon CloudFront distribution, an Apache web server layer of Amazon EC2 instances in an Auto Scaling group, and a backend Amazon Aurora MySQL database.

Last month, during a promotional sales event, users reported errors and timeouts while adding items to their shopping carts. The operations team recovered the logs created by the web servers and reviewed Aurora DB cluster performance metrics. Some of the web servers were terminated before logs could be collected and the Aurora metrics were not sufficient for query performance analysis.

Which combination of steps must the solutions architect take to improve application performance visibility during peak traffic events? (Select THREE.)

- A. Implement the AWS X-Ray SDK to trace incoming HTTP requests on the EC2 instances and implement tracing of SQL queries with the X-Ray SDK for Java.
- B. Enable Aurora MySQL DB cluster performance benchmarking and publish the stream to AWS X-Ray.
- C. Enable and configure AWS CloudTrail to collect and analyze application activity from Amazon EC2 and Aurora.
- D. Configure the Aurora MySQL DB cluster to publish slow query and error logs to Amazon CloudWatch Logs.
- E. Install and configure an Amazon CloudWatch Logs agent on the EC2 instances to send the Apache logs to CloudWatch Logs.
- F. Configure the Aurora MySQL DB cluster to stream slow query and error logs to Amazon Kinesis.

Answer: A,D,E

Explanation:

Explanation

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/USER_LogAccess.Concepts.MySQL.html#

<https://aws.amazon.com/blogs/mt/simplifying-apache-server-logs-with-amazon-cloudwatch-logs-insights/>

<https://docs.aws.amazon.com/xray/latest/devguide/xray-sdk-dotnet-messagehandler.html>

<https://docs.aws.amazon.com/xray/latest/devguide/xray-sdk-java-sqlclients.html>

NEW QUESTION # 169

A company wants to use AWS IAM Identity Center (AWS Single Sign-On) to manage employee access to AWS services. The

company uses AWS Organizations to manage its AWS accounts.

Each employee has their own IAM user. Each IAM user is a member of at least one IAM group. Each IAM group has an attached policy that allows members to assume specific roles across the accounts. The roles contain appropriate policies for the expected activities of each group of users in each account. All relevant accounts exist inside a single OU.

The company has already created new users and groups in IAM Identity Center to match the permissions that exist in IAM.

How should the company use IAM Identity Center to implement the existing permissions?

- A. For each group, create policies in each account. Give the policies the same name in each account. Create a new permission set. Add the name of the new policies to the permission set. Assign user access to the AWS accounts in IAM Identity Center.
- **B. For each group, create a new permission set. Attach the relevant existing IAM roles in each account to the permission set. Create a new customer managed policy that allows the group to assume the roles. Assign user access to the AWS accounts in IAM Identity Center.**
- C. For each group, create a new permission set. Create policies in each account. Give each policy a unique name. Set the path of each policy to match the name of the permission set. Assign user access to the AWS accounts in IAM Identity Center.
- D. Add the OU to the accounts configuration in IAM Identity Center. For each group, create policies in each account. Create a new permission set. Add the new policies to the permission set as customer managed policies. Attach each new policy to the correct account in the account configuration in IAM Identity Center.

Answer: B

Explanation:

The correct answer is B. This option uses IAM Identity Center to create permission sets that map to the existing IAM roles in each account. This way, the company can leverage the existing policies and roles that are already configured for the expected activities of each group of users in each account. The company also needs to create a customer managed policy that allows the group to assume the roles and attach it to the permission set. This policy grants the necessary permissions for IAM Identity Center to assume the roles on behalf of the users. Finally, the company can assign user access to the AWS accounts in IAM Identity Center, which will automatically create IAM users and groups in each account based on the permission sets.

Option A is incorrect because it requires creating new policies in each account and giving them the same name. This is not necessary and adds complexity and overhead. The company can use the existing IAM roles and policies that are already configured for each account.

Option C is incorrect because it requires creating new policies in each account and giving them unique names.

This is also not necessary and adds complexity and overhead. The company can use the existing IAM roles and policies that are already configured for each account.

Option D is incorrect because it requires adding the OU to the accounts configuration in IAM Identity Center.

This is not supported by IAM Identity Center, which only allows adding individual accounts or all accounts in an organization.

Reference: AWS Single Sign-On Permission Sets

NEW QUESTION # 170

An online magazine will launch its latest edition this month. This edition will be the first to be distributed globally. The magazine's dynamic website currently uses an Application

Load Balancer in front of the web tier, a fleet of Amazon EC2 instances for web and application servers, and Amazon Aurora MySQL. Portions of the website include static content and almost all traffic is read-only.

The magazine is expecting a significant spike in internet traffic when the new edition is launched. Optimal performance is a top priority for the week following the launch.

Which combination of steps should a solutions architect take to reduce system response times for a global audience? (Select TWO)

- **A. Use an Aurora global database for physical cross-Region replication. Use Amazon S3 with cross-Region replication for static content and resources. Deploy the web and application tiers in Regions across the world.**
- B. Use logical cross-Region replication to replicate the Aurora MySQL database to a secondary Region. Replace the web servers with Amazon S3. Deploy S3 buckets in cross-Region replication mode.
- C. Migrate the database from Amazon Aurora to Amazon RDS for MySQL. Ensure all three of the application tiers—web, application, and database—are in private subnets.
- **D. Introduce Amazon Route 53 with latency-based routing and Amazon CloudFront distributions. Ensure the web and application tiers are each in Auto Scaling groups.**
- E. Ensure the web and application tiers are each in Auto Scaling groups. Introduce an AWS Direct Connect connection. Deploy the web and application tiers in Regions across the world.

Answer: A,D

NEW QUESTION # 171

A company is deploying a new web-based application and needs a storage solution for the Linux application servers. The company wants to create a single location for updates to application data for all instances. The active dataset will be up to 100 GB in size. A solutions architect has determined that peak operations will occur for 3 hours daily and will require a total of 225 MiBps of read throughput.

The solutions architect must design a Multi-AZ solution that makes a copy of the data available in another AWS Region for disaster recovery (DR). The DR copy has an RPO of less than 1 hour.

Which solution will meet these requirements?

- A. Deploy a new Amazon FSx for Lustre file system. Configure Bursting Throughput mode for the file system. Use AWS Backup to back up the file system to the DR Region.
- B. Deploy a new Amazon Elastic File System (Amazon EFS) Multi-AZ file system. Configure the file system for 75 MiBps of provisioned throughput. Implement replication to a file system in the DR Region.
- C. Deploy a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume with 225 MiBps of throughput. Enable Multi-Attach for the EBS volume. Use AWS Elastic Disaster Recovery to replicate the EBS volume to the DR Region.
- D. Deploy an Amazon FSx for OpenZFS file system in both the production Region and the DR Region. Create an AWS DataSync scheduled task to replicate the data from the production file system to the DR file system every 10 minutes.

Answer: A

Explanation:

D (67%)

A (33%)

NEW QUESTION # 172

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