

TOP SAP-C02 Valid Exam Sims - Amazon AWS Certified Solutions Architect - Professional (SAP-C02) - High-quality SAP-C02 Interactive EBook



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Amazon SAP-C02 (AWS Certified Solutions Architect - Professional) Certification Exam is a highly sought-after certification for professionals who are interested in enhancing their skills and knowledge in the field of cloud computing. AWS Certified Solutions Architect - Professional (SAP-C02) certification is designed to validate the skills and expertise of professionals in designing, deploying, and managing scalable, highly available, and fault-tolerant systems on Amazon Web Services (AWS).

To pass the SAP-C02 Exam, candidates need to have a deep understanding of AWS services and architectures, as well as hands-on experience in designing and deploying complex systems on the AWS cloud. They must be able to design and implement scalable, fault-tolerant, and highly available systems that meet the needs of their organizations.

SAP-C02 Interactive Ebook & SAP-C02 Actual Exam Dumps

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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q51-Q56):

NEW QUESTION # 51

An AWS partner company is building a service in AWS Organizations using Its organization named org. This service requires the partner company to have access to AWS resources in a customer account, which is in a separate organization named org2. The company must establish least privilege security access using an API or command line tool to the customer account. What is the MOST secure way to allow org1 to access resources in org2?

- A. The customer should create an IAM role and assign the required permissions to the IAM role. The partner company should then use the IAM role's Amazon Resource Name (ARN). Including the external ID in the IAM role's trust policy, when requesting access to perform the required tasks
- B. The customer should create an IAM user and assign the required permissions to the IAM user. The customer should then provide the credentials to the partner company to log in and perform the required tasks.
- **C. The customer should create an IAM role and assign the required permissions to the IAM role. The partner company should then use the IAM role's Amazon Resource Name (ARN) when requesting access to perform the required tasks**
- D. The customer should provide the partner company with their AWS account access keys to log in and perform the required tasks

Answer: C

Explanation:

Explanation

<https://docs.aws.amazon.com/IAM/latest/UserGuide/confused-deputy.html>

This is the most secure way to allow org1 to access resources in org2 because it allows for least privilege security access. The customer should create an IAM role and assign the required permissions to the IAM role.

The partner company should then use the IAM role's Amazon Resource Name (ARN) and include the external ID in the IAM role's trust policy when requesting access to perform the required tasks. This ensures that the partner company can only access the resources that it needs and only from the specific customer account.

NEW QUESTION # 52

A start up company hosts a fleet of Amazon EC2 instances in private subnets using the latest Amazon Linux 2 AMI. The company's engineers rely heavily on SSH access to the instances for troubleshooting.

The company's existing architecture includes the following:

- * A VPC with private and public subnets, and a NAT gateway
- * Site-to-Site VPN for connectivity with the on-premises environment
- * EC2 security groups with direct SSH access from the on-premises environment. The company needs to increase security controls around SSH access and provide auditing of commands executed by the engineers.

Which strategy should a solutions architect use?

- A. Update the EC2 security groups to only allow inbound TCP on port 22 to the IP addresses of the engineer's devices. Install the Amazon CloudWatch agent on all EC2 instances and send operating system audit logs to CloudWatch Logs.
- **B. Create an IAM role with the AmazonSSMManagedInstanceCore managed policy attached. Attach the IAM role to all the EC2 instances. Remove all security group rules attached to the EC2 instances that allow inbound TCP on port 22. Have the engineers install the AWS Systems Manager Session Manager plugin for their devices and remotely access the instances by using the start-session API call from Systems Manager.**

- C. Update the EC2 security groups to only allow inbound TCP on port 22 to the IP addresses of the engineer's devices. Enable AWS Config for EC2 security group resource changes. Enable AWS Firewall Manager and apply a security group policy that automatically remediates changes to rules.
- D. Install and configure EC2 Instance Connect on the fleet of EC2 instances. Remove all security group rules attached to EC2 instances that allow inbound TCP on port 22. Advise the engineers to remotely access the instances by using the EC2 Instance Connect CLI.

Answer: B

Explanation:

Allows client machines to be able to connect to Session Manager using the AWS CLI instead of going through the AWS EC2 or AWS Server Manager console. <https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-working-with-install-plugin.html> <https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-working-with-install-plugin.html#:~:text=aws%20ssmf%20start%2Dsession%20%2D%2Dtarget%20instance%2Ddid>

NEW QUESTION # 53

A company has a website that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. The ALB is associated with an AWS WAF web ACL.

The website often encounters attacks in the application layer. The attacks produce sudden and significant increases in traffic on the application server. The access logs show that each attack originates from different IP addresses. A solutions architect needs to implement a solution to mitigate these attacks.

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

- A. Inspect access logs to find a pattern of IP addresses that launched the attacks. Use an Amazon Route 53 geolocation routing policy to deny traffic from the countries that host those IP addresses.
- **B. Create an Amazon CloudWatch alarm that monitors user IP addresses. Set a threshold based on access by IP address. Configure the alarm to invoke an AWS Lambda function to add a deny rule in the application server's subnet route table for any IP addresses that activate the alarm.**
- C. Deploy AWS Shield Advanced in addition to AWS WAF. Add the ALB as a protected resource.
- D. Create an Amazon CloudWatch alarm that monitors server access. Set a threshold based on access by IP address. Configure an alarm action that adds the IP address to the web ACL's deny list.

Answer: B

Explanation:

"The AWS WAF API supports security automation such as blacklisting IP addresses that exceed request limits, which can be useful for mitigating HTTP flood attacks." > <https://aws.amazon.com/blogs/security/how-to-protect-dynamic-web-applications-against-ddos-attacks-by-using-amazon-cloudfront-and-amazon-route-53/>

NEW QUESTION # 54

A company has an application that runs on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The application is in an AWS account that has AWS CloudTrail enabled. The company restricts access to the application by adding the IP addresses of end users to a security group that is associated with the ALB.

The company is developing an AWS Lambda function to determine if the allowed IP addresses have accessed the application recently. If an allowed IP address has not accessed the application in the last 90 days, the Lambda function will remove the IP address from the security group.

The company needs to implement the functionality for the Lambda function to check the IP addresses.

Which combination of steps will provide this functionality MOST cost-effectively? (Select TWO.)

- A. For the VPC that contains the ALB, configure VPC flow logs to be sent to a log group in Amazon CloudWatch Logs.
- **B. Program the Lambda function to check when each allowed IP address from the security group last appeared in the ALB access logs**
- C. Program the Lambda function to check when each allowed IP address from the security group last appeared in the VPC flow logs.
- D. Program the Lambda function to check when each allowed IP address from the security group last appeared in the CloudTrail logs.
- **E. Enable access logging on the ALB. Create an Amazon Athena table to query the ALB access logs.**

Answer: B,E

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