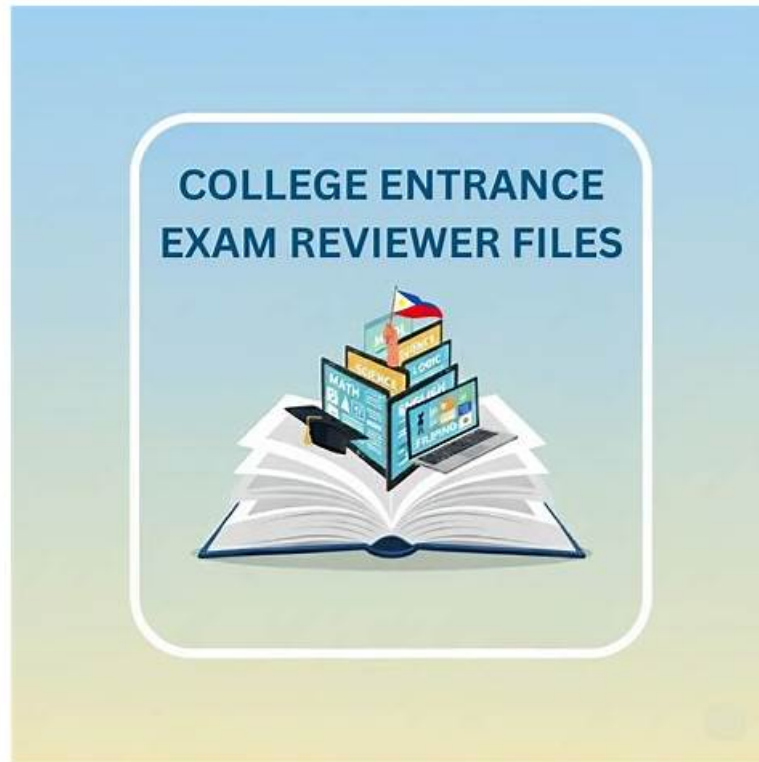


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## Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q180-Q185):

### NEW QUESTION # 180

[Design High-Performing Architectures]

A security audit reveals that Amazon EC2 instances are not being patched regularly. A solutions architect needs to provide a solution that will run regular security scans across a large fleet of EC2 instances. The solution should also patch the EC2 instances on a

regular schedule and provide a report of each instance's patch status.  
Which solution will meet these requirements?

- A. Set up Amazon Macie to scan the EC2 instances for software vulnerabilities. Set up a cron job on each EC2 instance to patch the instance on a regular schedule.
- B. Set up Amazon Detective to scan the EC2 instances for software vulnerabilities. Set up an Amazon EventBridge scheduled rule to patch the EC2 instances on a regular schedule.
- C. Turn on Amazon GuardDuty in the account. Configure GuardDuty to scan the EC2 instances for software vulnerabilities. Set up AWS Systems Manager Session Manager to patch the EC2 instances on a regular schedule.
- **D. Turn on Amazon Inspector in the account. Configure Amazon Inspector to scan the EC2 instances for software vulnerabilities. Set up AWS Systems Manager Patch Manager to patch the EC2 instances on a regular schedule.**

**Answer: D**

Explanation:

Amazon Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on AWS. Amazon Inspector automatically assesses applications for exposure, vulnerabilities, and deviations from best practices. After performing an assessment, Amazon Inspector produces a detailed list of security findings prioritized by level of severity<sup>1</sup>. Amazon Inspector can scan the EC2 instances for software vulnerabilities and provide a report of each instance's patch status. AWS Systems Manager Patch Manager is a capability of AWS Systems Manager that automates the process of patching managed nodes with both security-related updates and other types of updates. Patch Manager uses patch baselines, which include rules for auto-approving patches within days of their release, in addition to optional lists of approved and rejected patches. Patch Manager can patch fleets of Amazon EC2 instances, edge devices, on-premises servers, and virtual machines (VMs) by operating system type<sup>2</sup>. PatchManager can patch the EC2 instances on a regular schedule and provide a report of each instance's patch status. Therefore, the combination of Amazon Inspector and AWS Systems Manager Patch Manager will meet the requirements of the question.

The other options are not valid because:

Amazon Macie is a security service that uses machine learning to automatically discover, classify, and protect sensitive data in AWS. Amazon Macie does not scan the EC2 instances for software vulnerabilities, but rather for data classification and protection<sup>3</sup>. A cron job is a Linux command for scheduling a task to be executed sometime in the future. A cron job is not a reliable way to patch the EC2 instances on a regular schedule, as it may fail or be interrupted by other processes<sup>4</sup>.

Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior to protect your AWS accounts and workloads. Amazon GuardDuty does not scan the EC2 instances for software vulnerabilities, but rather for network and API activity anomalies<sup>5</sup>. AWS Systems Manager Session Manager is a fully managed AWS Systems Manager capability that lets you manage your Amazon EC2 instances, edge devices, on-premises servers, and virtual machines (VMs) through an interactive one-click browser-based shell or the AWS Command Line Interface (AWS CLI). Session Manager does not patch the EC2 instances on a regular schedule, but rather provides secure and auditable node management<sup>2</sup>.

Amazon Detective is a security service that makes it easy to analyze, investigate, and quickly identify the root cause of potential security issues or suspicious activities. Amazon Detective does not scan the EC2 instances for software vulnerabilities, but rather collects and analyzes data from AWS sources such as Amazon GuardDuty, Amazon VPC Flow Logs, and AWS CloudTrail. Amazon EventBridge is a serverless event bus that makes it easy to connect applications using data from your own applications, integrated Software-as-a-Service (SaaS) applications, and AWS services. EventBridge delivers a stream of real-time data from event sources, such as Zendesk, Datadog, or Pagerduty, and routes that data to targets like AWS Lambda. EventBridge does not patch the EC2 instances on a regular schedule, but rather triggers actions based on events.

Reference:

[Amazon Detective],

[Amazon EventBridge]

## NEW QUESTION # 181

An online photo-sharing company stores its photos in an Amazon S3 bucket that exists in the us-west-1 Region. The company needs to store a copy of all new photos in the us-east-1 Region.

Which solution will meet this requirement with the LEAST operational effort?

- A. Create a second S3 bucket in us-east-1 across multiple Availability Zones. Create an S3 Lifecycle rule to save photos into the second S3 bucket.
- B. Create a second S3 bucket in us-east-1. Configure S3 event notifications on object creation and update events to invoke an AWS Lambda function to copy photos from the existing S3 bucket to the second S3 bucket.
- **C. Create a second S3 bucket in us-east-1. Use S3 Cross-Region Replication to copy photos from the existing S3 bucket to the second S3 bucket.**
- D. Create a cross-origin resource sharing (CORS) configuration of the existing S3 bucket. Specify us-east-1 in the CORS

rule's AllowedOrigins element.

**Answer: C**

Explanation:

Understanding the Requirement: The company needs to store a copy of all new photos in the us-east-1 Region from an S3 bucket in the us-west-1 Region.

Analysis of Options:

Cross-Region Replication: Automatically replicates objects across regions with minimal operational effort once configured.

CORS Configuration: Used for allowing resources on a web page to be requested from another domain, not for replication.

S3 Lifecycle Rule: Manages the transition of objects between storage classes within the same bucket, not for cross-region replication.

S3 Event Notifications with Lambda: Requires additional configuration and management compared to Cross-Region Replication.

Best Solution:

S3 Cross-Region Replication: This solution provides an automated and efficient way to replicate objects to another region, meeting the requirement with the least operational effort.

Reference:

Amazon S3 Cross-Region Replication

### NEW QUESTION # 182

A solutions architect needs to connect a company's corporate network to its VPC to allow on-premises access to its AWS resources. The solution must provide encryption of all traffic between the corporate network and the VPC at the network layer and the session layer. The solution also must provide security controls to prevent unrestricted access between AWS and the on-premises systems.

Which solution meets these requirements?

- A. Configure AWS Transit Gateway to connect to the VPC. Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.
- B. Configure AWS Direct Connect to connect to the VPC. Configure the VPC route tables to allow and deny traffic between AWS and on premises as required.
- C. Create an IAM policy to allow access to the AWS Management Console only from a defined set of corporate IP addresses. Restrict user access based on job responsibility by using an IAM policy and roles.
- **D. Configure AWS Site-to-Site VPN to connect to the VPC. Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.**

**Answer: D**

Explanation:

This solution meets the requirements of providing encryption at both the network and session layers while also allowing for controlled access between on-premises systems and AWS resources.

AWS Site-to-Site VPN: This service allows you to establish a secure and encrypted connection between your on-premises network and AWS VPC over the internet or via AWS Direct Connect. The VPN encrypts data at the network layer (IPsec) as it travels between the corporate network and AWS.

Routing and Security Controls: By configuring route table entries, you can ensure that only the traffic intended for AWS resources is directed to the VPC. Additionally, by setting up security groups and network ACLs, you can further restrict and control which traffic is allowed to communicate with the instances within your VPC. This approach provides the necessary security to prevent unrestricted access, aligning with the company's security policies.

Why Not Other Options?:

Option A (AWS Direct Connect): While Direct Connect provides a private connection, it does not inherently provide encryption. Additional steps would be required to encrypt traffic, and it doesn't address the session layer encryption.

Option B (IAM policies for Console access): This option does not meet the requirement for network-level encryption and security between the corporate network and the VPC.

Option D (AWS Transit Gateway): Although Transit Gateway can help in managing multiple connections, it doesn't directly provide encryption at the network layer. You would still need to configure a VPN or use other methods for encryption.

AWS References:

AWS Site-to-Site VPN- Overview of AWS Site-to-Site VPN capabilities, including encryption.

Security Groups and Network ACLs- Information on configuring security groups and network ACLs to control traffic.

### NEW QUESTION # 183

A company is deploying a new public web application to AWS. The application will run behind an Application Load Balancer (ALB). The application needs to be encrypted at the edge with an SSL/TLS certificate that is issued by an external certificate authority (CA). The certificate must be rotated each year before the certificate expires. What should a solutions architect do to meet these requirements?

- A. Use AWS Certificate Manager (ACM) Private Certificate Authority to issue an SSL/TLS certificate from the root CA. Apply the certificate to the ALB. Use the managed renewal feature to automatically rotate the certificate.
- B. Use AWS Certificate Manager (ACM) to issue an SSL/TLS certificate. Import the key material from the certificate. Apply the certificate to the ALB. Use the managed renewal feature to automatically rotate the certificate.
- C. Use AWS Certificate Manager (ACM) to issue an SSL/TLS certificate. Apply the certificate to the ALB. Use the managed renewal feature to automatically rotate the certificate.
- **D. Use AWS Certificate Manager (ACM) to import an SSL/TLS certificate. Apply the certificate to the ALB. Use Amazon EventBridge (Amazon CloudWatch Events) to send a notification when the certificate is nearing expiration. Rotate the certificate manually.**

**Answer: D**

Explanation:

[https://www.amazonaws.cn/en/certificate-manager/faqs/#Managed\\_renewal\\_and\\_deployment](https://www.amazonaws.cn/en/certificate-manager/faqs/#Managed_renewal_and_deployment)

#### NEW QUESTION # 184

A global company runs its workloads on AWS. The company's application uses Amazon S3 buckets across AWS Regions for sensitive data storage and analysis. The company stores millions of objects in multiple S3 buckets daily. The company wants to identify all S3 buckets that are not versioning-enabled. Which solution will meet these requirements?

- A. Enable IAM Access Analyzer for S3 to identify all S3 buckets that are not versioning-enabled across Regions
- B. Create an S3 Multi-Region Access Point to identify all S3 buckets that are not versioning-enabled across Regions
- **C. Use Amazon S3 Storage Lens to identify all S3 buckets that are not versioning-enabled across Regions.**
- D. Set up an AWS CloudTrail event that has a rule to identify all S3 buckets that are not versioning-enabled across Regions

**Answer: C**

Explanation:

Amazon S3 Storage Lens:

S3 Storage Lens provides organization-wide visibility into object storage usage and activity trends.

It can generate metrics and insights about your S3 buckets, including versioning status.

Configuration:

Enable S3 Storage Lens at the organization level.

Configure the dashboard to include the versioning status metric.

Identify Non-Versioned Buckets:

Use the S3 Storage Lens dashboard to filter and identify buckets that do not have versioning enabled.

Storage Lens provides detailed insights and reports which can be used to enforce compliance and manage storage effectively.

Operational Efficiency: Using S3 Storage Lens provides a centralized, easy-to-use interface for monitoring bucket configurations across multiple Regions and accounts, reducing the need for custom scripts or manual checks.

Reference:

Amazon S3 Storage Lens

S3 Storage Lens Metrics

#### NEW QUESTION # 185

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