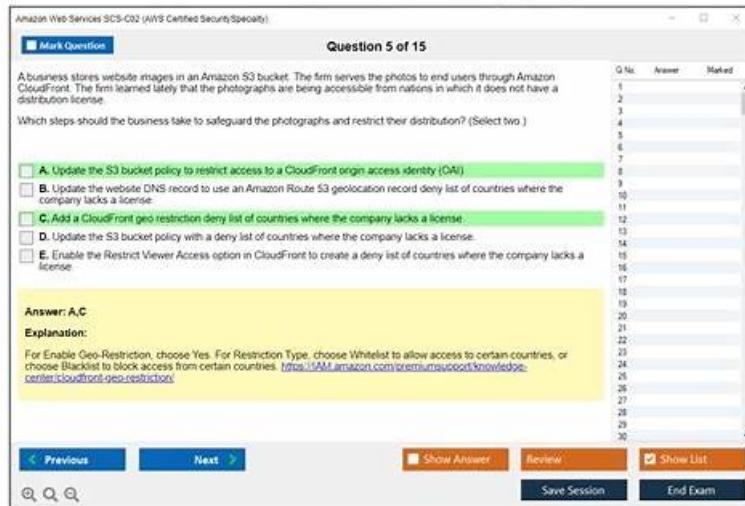


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## Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Data Protection: AWS Security specialists learn to ensure data confidentiality and integrity for data in transit and at rest. Topics include lifecycle management of data at rest, credential protection, and cryptographic key management. These capabilities are central to managing sensitive data securely, reflecting the exam's focus on advanced data protection strategies.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• Security Logging and Monitoring: This topic prepares AWS Security specialists to design and implement robust monitoring and alerting systems for addressing security events. It emphasizes troubleshooting logging solutions and analyzing logs to enhance threat visibility.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• Infrastructure Security: Aspiring AWS Security specialists are trained to implement and troubleshoot security controls for edge services, networks, and compute workloads under this topic. Emphasis is placed on ensuring resilience and mitigating risks across AWS infrastructure. This section aligns closely with the exam's focus on safeguarding critical AWS services and environments.</li> </ul>

## Amazon AWS Certified Security - Specialty Sample Questions (Q57-Q62):

### NEW QUESTION # 57

There is a requirement for a company to transfer large amounts of data between IAM and an on-premise location. There is an additional requirement for low latency and high consistency traffic to IAM. Given these requirements how would you design a hybrid architecture? Choose the correct answer from the options below Please select:

- A. Provision a Direct Connect connection to an IAM region using a Direct Connect partner.
- B. Create a VPC peering connection between IAM and the Customer gateway.
- C. Create an iPSec tunnel for private connectivity, which increases network consistency and reduces latency.
- D. Create a VPN tunnel for private connectivity, which increases network consistency and reduces latency.

### Answer: A

Explanation:

Explanation

IAM Direct Connect makes it easy to establish a dedicated network connection from your premises to IAM.

Using IAM Direct Connect you can establish private connectivity between IAM and your datacenter, office, or colocation environment which in many cases can reduce your network costs, increase bandwidth throughput and provide a more consistent network experience than Internet-based connections.

Options B and C are invalid because these options will not reduce network latency Options D is invalid because this is only used to connect 2 VPC's For more information on IAM direct connect, just browse to the below URL:

<https://IAM.amazon.com/directconnect>

The correct answer is: Provision a Direct Connect connection to an IAM region using a Direct Connect partner. omit your Feedback/Queries to our Experts

### NEW QUESTION # 58

A company deploys its application as a service on an Amazon Elastic Container Service (Amazon ECS) cluster with the AWS Fargate launch type. A security engineer suspects that some incoming requests are malicious. The security engineer needs to inspect the running container by retrieving log files and memory dump files.

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

- A. Update the application to dump the required data to STDOUT. Use the awslogs log driver to pass the logs to Amazon CloudWatch Logs. Examine the log files in CloudWatch Logs.
- B. Migrate the application to an ECS cluster with the Amazon EC2 launch type. Configure the EC2 instances with proper remote access. Log in and inspect the container.
- C. Update the ECS task role with AWS Systems Manager permissions. Enable the ECS Exec feature for the ECS service. Use ECS Exec to inspect the container.
- D. Turn on Amazon CloudWatch Container Insights for the ECS cluster. Send the log data to Amazon CloudWatch Logs by using AWS Distro for OpenTelemetry. Examine the log data in CloudWatch Logs.

### Answer: A

### NEW QUESTION # 59

A company deploys a set of standard IAM roles in AWS accounts. The IAM roles are based on job functions within the company. To balance operational efficiency and security, a security engineer implemented AWS Organizations SCPs to restrict access to critical security services in all company accounts.

All of the company's accounts and OUs within AWS Organizations have a default FullAWSAccess SCP that is attached. The security engineer needs to ensure that no one can disable Amazon GuardDuty and AWS Security Hub. The security engineer also must not override other permissions that are granted by IAM policies that are defined in the accounts. Which SCP should the security engineer attach to the root of the organization to meet these requirements?

```
"Version": "2012-10-17",
"Statement": [
  {
    "Effect": "Allow",
    "NotAction": [
      "guardduty:DeleteDetector",
      "guardduty:UpdateDetector",
      "securityhub:DisableSecurityHub"
    ],
    "Resource": [
      "*"
    ]
  }
]
```

- A.

```
"Version": "2012-10-17",
"Statement": [
  {
    "Effect": "Allow",
    "Action": "*",
    "Resource": "*"
  },
  {
    "Effect": "Deny",
    "NotAction": [
      "guardduty:DeleteDetector",
      "guardduty:UpdateDetector",
      "securityhub:DisableSecurityHub"
    ],
    "Resource": [
      "*"
    ]
  }
]
```

- B.

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "*",
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "NotAction": [
        "guardduty:DeleteDetector",
        "guardduty:UpdateDetector",
        "securityhub:DisableSecurityHub"
      ],
      "Resource": [
        "*"
      ]
    }
  ]
}
  
```

- C.

```

"Version": "2012-10-17",
"Statement": [
  {
    "Effect": "Deny",
    "Action": [
      "guardduty:DeleteDetector",
      "guardduty:UpdateDetector",
      "securityhub:DisableSecurityHub"
    ],
    "Resource": [
      "*"
    ]
  }
]
  
```

- D.

**Answer: D**

#### NEW QUESTION # 60

A Security Architect has been asked to review an existing security architecture and identify why the application servers cannot successfully initiate a connection to the database servers. The following summary describes the architecture:

- 1 An Application Load Balancer, an internet gateway, and a NAT gateway are configured in the public subnet
- 2 Database, application, and web servers are configured on three different private subnets
- 3 The VPC has two route tables: one for the public subnet and one for all other subnets The route table for the public subnet has a 0 0 0/0 route to the internet gateway The route table for all other subnets has a 0 0.0.0/0 route to the NAT gateway. All private subnets can route to each other
- 4 Each subnet has a network ACL implemented that limits all inbound and outbound connectivity to only the required ports and protocols
- 5 There are 3 Security Groups (SGs) database application and web Each group limits all inbound and outbound connectivity to the minimum required Which of the following accurately reflects the access control mechanisms the Architect should verify?

- A. Inbound SG configuration on database servers Outbound SG configuration on application servers Inbound network ACL configuration on the database subnet Outbound network ACL configuration on the application server subnet.
- B. Inbound and outbound SG configuration on database servers Inbound and outbound SG configuration on application servers Inbound network ACL configuration on the database subnet Outbound network ACL configuration on the application server subnet

- C. Inbound SG configuration on database servers  
Outbound SG configuration on application servers  
Inbound and outbound network ACL configuration on the database subnet  
Inbound and outbound network ACL configuration on the application server subnet
- D. Outbound SG configuration on database servers Inbound SG configuration on application servers inbound and outbound network ACL configuration on the database subnet Inbound and outbound network ACL configuration on the application server subnet

**Answer: D**

Explanation:

this is the accurate reflection of the access control mechanisms that the Architect should verify. Access control mechanisms are methods that regulate who can access what resources and how. Security groups and network ACLs are two types of access control mechanisms that can be applied to EC2 instances and subnets. Security groups are stateful, meaning they remember and return traffic that was previously allowed. Network ACLs are stateless, meaning they do not remember or return traffic that was previously allowed. Security groups and network ACLs can have inbound and outbound rules that specify the source, destination, protocol, and port of the traffic. By verifying the outbound security group configuration on database servers, the inbound security group configuration on application servers, and the inbound and outbound network ACL configuration on both the database and application server subnets, the Architect can check if there are any misconfigurations or conflicts that prevent the application servers from initiating a connection to the database servers. The other options are either inaccurate or incomplete for verifying the access control mechanisms.

#### NEW QUESTION # 61

A security engineer needs to develop a process to investigate and respond to potential security events on a company's Amazon EC2 instances. All the EC2 instances are backed by Amazon Elastic Block Store (Amazon EBS). The company uses AWS Systems Manager to manage all the EC2 instances and has installed Systems Manager Agent (SSM Agent) on all the EC2 instances. The process that the security engineer is developing must comply with AWS security best practices and must meet the following requirements:

- \* A compromised EC2 instance's volatile memory and non-volatile memory must be preserved for forensic purposes.
- \* A compromised EC2 instance's metadata must be updated with corresponding incident ticket information.
- \* A compromised EC2 instance must remain online during the investigation but must be isolated to prevent the spread of malware.
- \* Any investigative activity during the collection of volatile data must be captured as part of the process.

Which combination of steps should the security engineer take to meet these requirements with the LEAST operational overhead? (Select THREE.)

- A. Establish a Linux SSH or Windows Remote Desktop Protocol (RDP) session to the compromised EC2 instance to invoke scripts that collect volatile data.
- B. Create a snapshot of the compromised EC2 instance's EBS volume for follow-up investigations. Tag the instance with any relevant metadata and incident ticket information.
- C. Use Systems Manager Run Command to invoke scripts that collect volatile data.
- D. Gather any relevant metadata for the compromised EC2 instance. Enable termination protection. Move the instance to an isolation subnet that denies all source and destination traffic. Associate the instance with the subnet to restrict access. Detach the instance from any Auto Scaling groups that the instance is a member of. Deregister the instance from any Elastic Load Balancing (ELB) resources.
- E. Gather any relevant metadata for the compromised EC2 instance. Enable termination protection. Isolate the instance by updating the instance's security groups to restrict access. Detach the instance from any Auto Scaling groups that the instance is a member of. Deregister the instance from any Elastic Load Balancing (ELB) resources.
- F. Create a Systems Manager State Manager association to generate an EBS volume snapshot of the compromised EC2 instance. Tag the instance with any relevant metadata and incident ticket information.

**Answer: B,C,E**

#### NEW QUESTION # 62

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