



# SAP-C01<sup>Q&As</sup>

AWS Certified Solutions Architect - Professional (SAP-C01)

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## QUESTION 1

The following AWS Identity and Access Management (IAM) customer managed policy has been attached to an IAM user:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:*",
      "Resource": [
        "arn:aws:s3:::prod-data",
        "arn:aws:s3:::prod-data/*"
      ]
    },
    {
      "Effect": "Deny",
      "NotAction": "s3:*",
      "NotResource": [
        "arn:aws:s3:::prod-data",
        "arn:aws:s3:::prod-data/*"
      ]
    }
  ]
}
```

Which statement describes the access that this policy provides to the user?

- A. The policy grants access to all Amazon S3 actions, including all actions in the prod-data S3 bucket
- B. This policy denies access to all Amazon S3 actions, excluding all actions in the prod-data S3 bucket
- C. This policy denies access to the Amazon S3 bucket and objects not having prod-data in the bucket name
- D. This policy grants access to all Amazon S3 actions in the prod-data S3 bucket, but explicitly denies access to all other AWS services

Correct Answer: D



## QUESTION 2

A company is migrating its infrastructure to the AWS Cloud. The company must comply with a variety of regulatory standards for different projects. The company needs a multi-account environment.

A solutions architect needs to prepare the baseline infrastructure. The solution must provide a consistent baseline of management and security but it must allow flexibility for different compliance requirements within various AWS accounts. The solution also needs to integrate with the existing on-premises Active Directory Federation Services (AD FS) server.

Which solution meets these requirements with the LEAST amount of operational overhead?

- A. Create an organization in AWS Organizations. Create a single SCP for least privilege access across all accounts. Create a single OU for all accounts. Configure an IAM identity provider for federation with the on-premises AD FS server. Configure a central logging account with a defined process for log generating services to send log events to the central account. Enable AWS Config in the central account with conformance packs for all accounts.
- B. Create an organization in AWS Organizations. Enable AWS Control Tower on the organization. Review included guardrails for SCPs. Check AWS Config for areas that require additions. Add OUs as necessary. Connect AWS Single Sign-On to the on-premises AD FS server.
- C. Create an organization in AWS Organizations. Create SCPs for least privilege access. Create an OU structure, and use it to group AWS accounts. Connect AWS Single Sign-On to the on-premises AD FS server. Configure a central logging account with a defined process for log generating services to send log events to the central account. Enable AWS Config in the central account with aggregators and conformance packs.
- D. Create an organization in AWS Organizations. Enable AWS Control Tower on the organization. Review included guardrails for SCPs. Check AWS Config for areas that require additions. Configure an IAM identity provider for federation with the on-premises AD FS server.

Correct Answer: A

## QUESTION 3

A company is building an application on AWS. The application sends logs to an Amazon Elasticsearch Service (Amazon ES) cluster for analysis. All data must be stored within a VPC.

Some of the company's developers work from home. Other developers work from three different company office locations. The developers need to access Amazon ES to analyze and visualize logs directly from their local development machines.

Which solution will meet these requirements?

- A. Configure and set up an AWS Client VPN endpoint. Associate the Client VPN endpoint with a subnet in the VPC. Configure a Client VPN self-service portal. Instruct the developers to connect by using the client for Client VPN.
- B. Create a transit gateway, and connect it to the VPC. Create an AWS Site-to-Site VPN. Create an attachment to the transit gateway. Instruct the developers to connect by using an OpenVPN client.
- C. Create a transit gateway, and connect it to the VPC. Order an AWS Direct Connect connection. Set up a public VIF on the Direct Connect connection. Associate the public VIF with the transit gateway. Instruct the developers to connect to the Direct Connect connection.
- D. Create and configure a bastion host in a public subnet of the VPC. Configure the bastion host security group to allow SSH access from the company CIDR ranges. Instruct the developers to connect by using SSH.



Correct Answer: A

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#### QUESTION 4

A public retail web application uses an Application Load Balancer (ALB) in front of Amazon EC2 instances running across multiple Availability Zones (AZs) in a Region backed by an Amazon RDS MySQL Multi-AZ deployment. Target group health checks are configured to use HTTP and pointed at the product catalog page. Auto Scaling is configured to maintain the web fleet size based on the ALB health check.

Recently, the application experienced an outage. Auto Scaling continuously replaced the instances during the outage. A subsequent investigation determined that the web server metrics were within the normal range, but the database tier was experiencing high load, resulting in severely elevated query response times.

Which of the following changes together would remediate these issues while improving monitoring capabilities for the availability and functionality of the entire application stack for future growth? (Choose two.)

- A. Configure read replicas for Amazon RDS MySQL and use the single reader endpoint in the web application to reduce the load on the backend database tier.
- B. Configure the target group health check to point at a simple HTML page instead of a product catalog page and the Amazon Route 53 health check against the product page to evaluate full application functionality. Configure Amazon CloudWatch alarms to notify administrators when the site fails.
- C. Configure the target group health check to use a TCP check of the Amazon EC2 web server and the Amazon Route 53 health check against the product page to evaluate full application functionality. Configure Amazon CloudWatch alarms to notify administrators when the site fails.
- D. Configure an Amazon CloudWatch alarm for Amazon RDS with an action to recover a high-load, impaired RDS instance in the database tier.
- E. Configure an Amazon ElastiCache cluster and place it between the web application and RDS MySQL instances to reduce the load on the backend database tier.

Correct Answer: BE

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/health-checks-types.html>

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#### QUESTION 5

A bucket owner has allowed another account's IAM users to upload or access objects in his bucket. The IAM user of Account A is trying to access an object created by the IAM user of account B. What will happen in this scenario?

- A. It is not possible to give permission to multiple IAM users
- B. AWS S3 will verify proper rights given by the owner of Account A, the bucket owner as well as by the IAM user B to the object
- C. The bucket policy may not be created as S3 will give error due to conflict of Access Rights
- D. It is not possible that the IAM user of one account accesses objects of the other IAM user

Correct Answer: B



If a IAM user is trying to perform some action on an object belonging to another AWS user's bucket, S3 will verify whether the owner of the IAM user has given sufficient permission to him. It also verifies the policy for the bucket as well as the policy defined by the object owner.

Reference: <http://docs.aws.amazon.com/AmazonS3/latest/dev/access-control-auth-workflow-object-operation.html>

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