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**QUESTION 1**

A company in France uses Amazon Cognito with the Cognito Hosted UI as an identity broker for sign-in and sign-up processes. The company is marketing an application and expects that all the application's users will come from France.

When the company launches the application the company's security team observes fraudulent sign-ups for the application. Most of the fraudulent registrations are from users outside of France.

The security team needs a solution to perform custom validation at sign-up. Based on the results of the validation the solution must accept or deny the registration request.

Which combination of steps will meet these requirements? (Select TWO.)

- A. Create a pre sign-up AWS Lambda trigger. Associate the Amazon Cognito function with the Amazon Cognito user pool.
- B. Use a geographic match rule statement to configure an AWS WAF web ACL. Associate the web ACL with the Amazon Cognito user pool.
- C. Configure an app client for the application's Amazon Cognito user pool. Use the app client ID to validate the requests in the hosted UI.
- D. Update the application's Amazon Cognito user pool to configure a geographic restriction setting.
- E. Use Amazon Cognito to configure a social identity provider (IdP) to validate the requests on the hosted UI.

Correct Answer: B

<https://docs.aws.amazon.com/cognito/latest/developerguide/user-pool-lambda-post-authentication.html>

QUESTION 2

A security engineer needs to configure an Amazon S3 bucket policy to restrict access to an S3 bucket that is named DOC-EXAMPLE-BUCKET. The policy must allow access to only DOC-EXAMPLE-BUCKET from only the following endpoint: vpce-1a2b3c4d. The policy must deny all access to DOC-EXAMPLE-BUCKET if the specified endpoint is not used.

Which bucket policy statement meets these requirements?



- A.
- ```
"Statement": [
 {
 "Sid": "Access-to-specific-VPCE-only",
 "Principal": "*",
 "Action": "s3:*",
 "Effect": "Allow",
 "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",
 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],
 "Condition": {
 "StringNotEquals": {
 "aws:sourceVpce": "vpce-1a2b3c4d"
 }
 }
 }
]
```
- B.
- ```
"Statement": [  
  {  
    "Sid": "Access-to-specific-VPCE-only",  
    "Principal": "*",  
    "Action": "s3:*",  
    "Effect": "Deny",  
    "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",  
                 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],  
    "Condition": {  
      "StringNotEquals": {  
        "aws:sourceVpce": "vpce-1a2b3c4d"  
      }  
    }  
  }  
]
```



- C.
- ```
"Statement": [
 {
 "Sid": "Access-to-specific-VPCE-only",
 "Principal": "*",
 "Action": "s3:*",
 "Effect": "Deny",
 "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",
 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],
 "Condition": {
 "StringEquals": {
 "aws:sourceVpce": "vpce-1a2b3c4d"
 }
 }
 }
]
```
- D.
- ```
"Statement": [
  {
    "Sid": "Access-to-specific-VPCE-only",
    "Principal": "*",
    "Action": "s3:*",
    "Effect": "Allow",
    "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",
                 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],
    "Condition": {
      "StringEquals": {
        "aws:sourceVpce": "vpce-1a2b3c4d"
      }
    }
  }
]
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/example-bucket-policies-vpc-endpoint.html>

**QUESTION 3**

A company has multiple departments. Each department has its own IAM account. All these accounts belong to the same organization in IAM Organizations.

A large .csv file is stored in an Amazon S3 bucket in the sales department's IAM account. The company wants to allow users from the other accounts to access the .csv file's content through the combination of IAM Glue and Amazon Athena. However, the company does not want to allow users from the other accounts to access other files in the same folder.

Which solution will meet these requirements?

- A. Apply a user policy in the other accounts to allow IAM Glue and Athena to access the .csv file.
- B. Use S3 Select to restrict access to the .csv file. In IAM Glue Data Catalog, use S3 Select as the source of the IAM Glue database.
- C. Define an IAM Glue Data Catalog resource policy in IAM Glue to grant cross-account S3 object access to the .csv file.
- D. Grant IAM Glue access to Amazon S3 in a resource-based policy that specifies the organization as the principal.

Correct Answer: A

QUESTION 4

A development team is using an IAM Key Management Service (IAM KMS) CMK to try to encrypt and decrypt a secure string parameter from IAM Systems Manager Parameter Store. However, the development team receives an error message on each attempt.

Which issues that are related to the CMK could be reasons for the error? (Select TWO.)

- A. The CMK that is used in the attempt does not exist.
- B. The CMK that is used in the attempt needs to be rotated.
- C. The CMK that is used in the attempt is using the CMK's key ID instead of the CMK ARN.
- D. The CMK that is used in the attempt is not enabled.
- E. The CMK that is used in the attempt is using an alias.

Correct Answer: AD

QUESTION 5

Your CTO is very worried about the security of your IAM account. How best can you prevent hackers from completely hijacking your account?

Please select:

- A. Use short but complex password on the root account and any administrators.



- B. Use IAM Geo-Lock and disallow anyone from logging in except for in your city.
- C. Use MFA on all users and accounts, especially on the root account.
- D. Don't write down or remember the root account password after creating the IAM account.

Correct Answer: C

Multi-factor authentication can add one more layer of security to your IAM account Even when you go to your Security Credentials dashboard one of the items is to enable MFA on your root account

The screenshot shows the 'Security Status' section of the AWS IAM console. A progress bar at the top right indicates '3 out of 5 complete'. Below the progress bar is a list of five security recommendations, each with a status icon and a dropdown arrow:

Item	Status
Delete your root access keys	Warning (Yellow triangle)
Activate MFA on your root account	Warning (Yellow triangle)
Create individual IAM users	Complete (Green checkmark)
Use groups to assign permissions	Complete (Green checkmark)
Apply an IAM password policy	Complete (Green checkmark)

Option A is invalid because you need to have a good password policy Option B is invalid because there is no IAM Geo-Lock Option D is invalid because this is not a recommended practices For more information on MFA, please visit the below URL http://docs.IAM.amazon.com/IAM/latest/UserGuide/id_credentials_mfa.html The correct answer is: Use MFA on all users and accounts, especially on the root account.

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