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QUESTION 1

You are devising a policy to allow users to have the ability to access objects in a bucket called appbucket. You define the below custom bucket policy

```
{ "ID": "Policy1502987489630",  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Sid": "Stmnt1502987487640",  
      "Action": [  
        "s3:GetObject",  
        "s3:GetObjectVersion"  
      ],  
      "Effect": "Allow",  
      "Resource": "arn:aws:s3:::appbucket",  
      "Principal": "*"   
    }  
  ]  
}
```

But when you try to apply the policy you get the error "Action does not apply to any resource(s) in statement." What should be done to rectify the error

Please select:

- A. Change the IAM permissions by applying PutBucketPolicy permissions.
- B. Verify that the policy has the same name as the bucket name. If not, make it the same.
- C. Change the Resource section to "arn:aws:s3:::appbucket/*\".
- D. Create the bucket "appbucket" and then apply the policy.

Correct Answer: C

When you define access to objects in a bucket you need to ensure that you specify to which objects in the bucket access needs to be given to. In this case, the * can be used to assign the permission to all objects in the bucket Option A is invalid because the right permissions are already provided as per the question requirement Option B is invalid because it is not necessary that the policy has the same name as the bucket Option D is invalid because this should be the default flow for applying the policy For more information on bucket policies please visit the below URL: <https://docs.aws.amazon.com/AmazonS3/latest/dev/example-bucket-policies.html> The correct answer is: Change the Resource section to "arn:aws:s3:::appbucket/"



QUESTION 2

You are designing a custom IAM policy that would allow users to list buckets in S3 only if they are MFA authenticated. Which of the following would best match this requirement?

- A. `{ "Version": "2012-10-17", "Statement": { "Effect": "Allow", "Action": ["s3:ListAllMyBuckets", "s3:GetBucketLocation"], "Resource": "Resource": "arn:aws:s3:*", "Condition": { "Bool": { "aws:MultiFactorAuthPresent": true } } } }`
- B. `{ "Version": "2012-10-17", "Statement": { "Effect": "Allow", "Action": ["s3:ListAllMyBuckets", "s3:GetBucketLocation"], "Resource": "Resource": "arn:aws:s3:*", "Condition": { "Bool": { "aws:MultiFactorAuthPresent": false } } } }`
- C. `{ "Version": "2012-10-17", "Statement": { "Effect": "Allow", "Action": ["s3:ListAllMyBuckets", "s3:GetBucketLocation"], "Resource": "Resource": "arn:aws:s3:*", "Condition": { "aws:MultiFactorAuthPresent": false } } }`
- D. `{ "Version": "2012-10-17", "Statement": { "Effect": "Allow", "Action": ["s3:ListAllMyBuckets", "s3:GetBucketLocation"], "Resource": "Resource": "arn:aws:s3:*", "Condition": { "aws:MultiFactorAuthPresent": true } } }`

Correct Answer: A

The Condition clause can be used to ensure users can only work with resources if they are MFA authenticated.

Option B and C are wrong since the `aws:MultiFactorAuthPresent` clause should be marked as true. Here you are saying that only if the user has been MFA activated, that means it is true, then allow access.

Option D is invalid because the "bool" clause is missing in the evaluation for the condition clause.

Boolean conditions let you construct Condition elements that restrict access based on comparing a key to "true" or "false."

Here in this scenario the bool attribute in the condition element will return a value True for option A which will ensure that access is allowed on S3 resources. For more information on an example on such a policy, please visit the following URL:

https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_mfa-dates.html

QUESTION 3

You have just developed a new mobile application that handles analytics workloads on large scale datasets that are stored on Amazon Redshift. Consequently, the application needs to access Amazon Redshift tables. Which of the below methods would be the best both practically and security-wise, to access the tables? Choose the correct answer from the options below. Please select:

- A. Create an IAM user and generate encryption keys for that user. Create a policy for Redshift read-only access. Embed the keys in the application.
- B. Create an HSM client certificate in Redshift and authenticate using this certificate.
- C. Create a Redshift read-only access policy in IAM and embed those credentials in the application.



D. Use roles that allow a web identity federated user to assume a role that allows access to the Redshift table by providing temporary credentials.

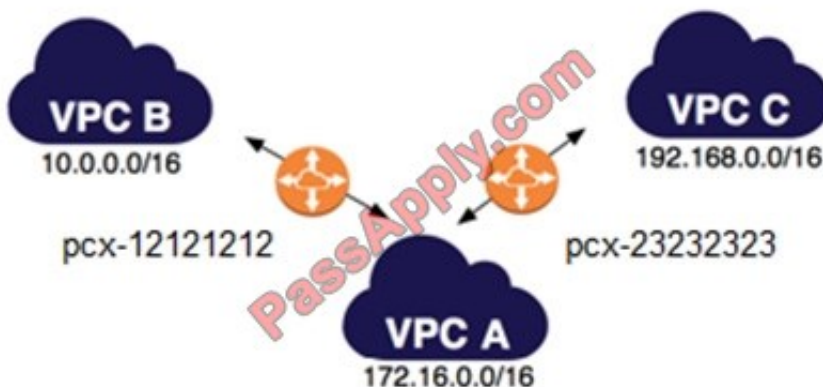
Correct Answer: D

The AWS Documentation mentions the following "When you write such an app, you'll make requests to AWS services that must be signed with an AWS access key. However, we strongly recommend that you do not embed or distribute long-term AWS credentials with apps that a user downloads to a device, even in an encrypted store. Instead, build your app so that it requests temporary AWS security credentials dynamically when needed using web identity federation. The supplied temporary credentials map to an AWS role that has only the permissions needed to perform the tasks required by the mobile app". Option A, B and C are all automatically incorrect because you need to use IAM Roles for Secure access to services. For more information on web identity federation please refer to the below Link: http://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_providers_oidc.html The correct answer is: Use roles that allow a web identity federated user to assume a role that allows access to the RedShift table by providing temporary credentials.

QUESTION 4

A company has multiple VPCs in their account that are peered, as shown in the diagram. A Security Engineer wants to perform penetration tests of the Amazon EC2 instances in all three VPCs.

How can this be accomplished? (Choose two.)



- A. Deploy a pre-authorized scanning engine from the AWS Marketplace into VPC B, and use it to scan instances in all three VPCs. Do not complete the penetration test request form.
- B. Deploy a pre-authorized scanning engine from the Marketplace into each VPC, and scan instances in each VPC from the scanning engine in that VPC. Do not complete the penetration test request form.
- C. Create a VPN connection from the data center to VPC A. Use an on-premises scanning engine to scan the instances in all three VPCs. Complete the penetration test request form for all three VPCs.
- D. Create a VPN connection from the data center to each of the three VPCs. Use an on-premises scanning engine to scan the instances in each VPC. Do not complete the penetration test request form.
- E. Create a VPN connection from the data center to each of the three VPCs. Use an on-premises scanning engine to scan the instances in each VPC. Complete the penetration test request form for all three VPCs.

Correct Answer: BD



<https://aws.amazon.com/security/penetration-testing/>

QUESTION 5

A company's Security Engineer has been tasked with restricting a contractor's IAM account access to the company's Amazon EC2 console without providing access to any other AWS services. The contractor's IAM account must not be able to gain access to any other AWS service, even if the IAM account is assigned additional permissions based on IAM group membership.

What should the Security Engineer do to meet these requirements?

- A. Create an Inline IAM user policy that allows for Amazon EC2 access for the contractor's IAM user.
- B. Create an IAM permissions boundary policy that allows Amazon EC2 access. Associate the contractor's IAM account with the IAM permissions boundary policy.
- C. Create an IAM group with an attached policy that allows for Amazon EC2 access. Associate the contractor's IAM account with the IAM group.
- D. Create an IAM role that allows for EC2 and explicitly denies all other services. Instruct the contractor to always assume this role.

Correct Answer: B

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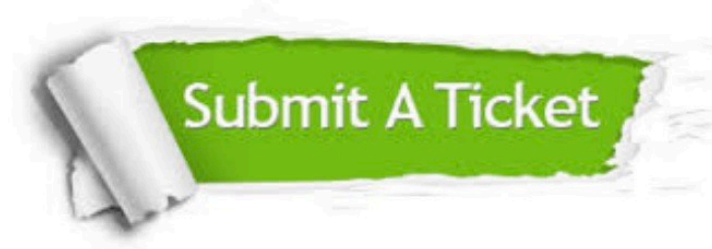
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