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## **Conclusion**

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## **Amazon AWS Certified Developer Associate Exam (DVA-C02) Sample Questions (Q232-Q237):**

### NEW QUESTION # 232

Which of the following items are required to allow an application deployed on an EC2 instance to write data to a DynamoDB table? Assume that no security Keys are allowed to be stored on the EC2 instance. Choose 2 answers

- A. Create an IAM Role that allows write access to the DynamoDB table.
- B. Add an IAM User to a running EC2 Instance.
- C. Create an IAM User that allows write access to the DynamoDB table.
- D. Launch an EC2 Instance with the IAM Role included in the launch configuration.
- E. Add an IAM Role to a running EC2 instance.
- F. Launch an EC2 Instance with the IAM User included in the launch configuration.

**Answer: A,E**

Explanation:

Explanation

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/iam-roles-for-amazon-ec2.html#attach-iam-role>

### NEW QUESTION # 233

An organization is having an application which can start and stop an EC2 instance as per schedule. The organization needs the MAC address of the instance to be registered with its software. The instance is launched in EC2-CLASSIC. How can the organization update the MAC registration every time an instance is booted?

- A. AWS never provides a MAC address to an instance; instead the instance ID is used for identifying the instance for any software registration.
- B. The instance MAC address never changes. Thus, it is not required to register the MAC address every time.
- C. The organization should provide a MAC address as a part of the user data. Thus, whenever the instance is booted the script assigns the fixed MAC address to that instance.
- D. The organization should write a boot strapping script which will get the MAC address from the instance metadata and use that script to register with the application.

**Answer: D**

Explanation:

AWS provides an on demand, scalable infrastructure. AWS EC2 allows the user to launch On-Demand instances. AWS does not provide a fixed MAC address to the instances launched in EC2-CLASSIC. If the instance is launched as a part of EC2-VPC, it can have an ENI which can have a fixed MAC. However, with EC2-CLASSIC, every time the instance is started or stopped it will have a new MAC address. To get this MAC, the organization can run a script on boot which can fetch the instance metadata and get the MAC address from that instance metadata. Once the MAC is received, the organization can register that MAC with the software.

Reference: <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AESDG-chapter-instancedata.html>

### NEW QUESTION # 234

A Security Engineer for a large company is managing a data processing application used by 1,500 subsidiary companies. The parent and subsidiary companies all use AWS. The application uses TCP port 443 and runs on Amazon EC2 behind a Network Load Balancer (NLB). For compliance reasons, the application should only be accessible to the subsidiaries and should not be available on the public internet. To meet the compliance requirements for restricted access, the Engineer has received the public and private CIDR block ranges for each subsidiary.

What solution should the Engineer use to implement the appropriate access restrictions for the application?

- A. Create an AWS security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the security group to the NLB. Create a second security group for EC2 instances with access on TCP port 443 from the NLB security group.
- B. Create a NACL to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the NACL to both the NLB and EC2 instances
- C. Create an AWS PrivateLink endpoint service in the parent company account attached to the NLB.

Create an AWS security group for the instances to allow access on TCP port 443 from the AWS PrivateLink endpoint. Use AWS PrivateLink interface endpoints in the 1,500 subsidiary AWS accounts to connect to the data processing application.

- D. Create an AWS security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the security group with EC2 instances.

**Answer: C**

#### NEW QUESTION # 235

The Lambda function below is being called through an API using Amazon API Gateway. The average execution time for the Lambda function is about 1 second. The pseudocode for the Lambda function is as shown in the exhibit.

```
include "3rd party encryption module"
include "match module"

lambda_handler(event, context)
    rds_host = "rds-instance-endpoint"
    name = db_username
    password = db_password
    db_name = db_name

    # Connect to the RDS Database
    Conn = RDSConnection(rds_host, user=name, passwd=password,
                        db=db_name, connect_timeout=5)

    #Perform some Processing reading data from the RDS database

    #Code Block
    #Code Block
    #Code Block
```

What two actions can be taken to improve the performance of this Lambda function without increasing the cost of the solution? (Select two.)

- A. Implement custom database connection pooling with the Lambda function
- B. Use Amazon DynamoDB instead of Amazon RDS
- C. Move the initialization of the variable Amazon RDS connection outside of the handler function
- D. Package only the modules the Lambda function requires
- E. Implement local caching of Amazon RDS data so Lambda can re-use the cache

**Answer: D,E**

#### NEW QUESTION # 236

A company has a REST application comprised of an Amazon API Gateway and several AWS Lambda functions. A developer is responding to an alert that the API Gateway's HTTP response error rate has unexpectedly increased. The developer must determine must which Lambda function is malfunctioning.

Which method would help the developer make this determination while minimizing delays?

- A. Execute an Amazon Athena query against the API Gateway and Lambda execution logs.
- B. Execute an Amazon CloudWatch Logs Insights query against the API Gateway and Lambda execution logs.
- C. Download the API Gateway and Lambda execution logs from Amazon S3, and perform a line-by-line search against them.
- D. Download the API Gateway and Lambda execution logs from Amazon CloudWatch Events, and perform line-by-line search against them.

**Answer: D**

### NEW QUESTION # 237

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