SOA-C02^{Q&As}

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QUESTION 1

A company updates its security policy to clarify cloud hosting arrangements for regulated workloads. Workloads that are identified as sensitive must run on hardware that is not shared with other customers or with other AWS accounts within the company.

Which solution will ensure compliance with this policy?

A. Deploy workloads only to Dedicated Hosts.

B. Deploy workloads only to Dedicated Instances.

C. Deploy workloads only to Reserved Instances.

D. Place all instances in a dedicated placement group.

Correct Answer: A

The solution that will ensure compliance with the policy is to deploy workloads only to Dedicated Hosts. This is because Dedicated Hosts provide physical isolation between instances that belong to different accounts or different parts of the same account. By deploying workloads to Dedicated Hosts, the company can ensure that sensitive workloads are not sharing hardware with other customers or with other accounts within the company.

Deploying workloads only to Dedicated Instances, on the other hand, does not provide the same level of isolation as Dedicated Hosts because the underlying hardware is still shared with other instances from the same account.

QUESTION 2

A SysOps administrator is building a process for sharing Amazon RDS database snapshots between different accounts associated with different business units within the same company. All data must be encrypted at rest. How should the administrator implement this process?

A. Write a script to download the encrypted snapshot, decrypt it using the AWS KMS encryption key used to encrypt the snapshot, then create a new volume in each account.

B. Update the key policy to grant permission to the AWS KMS encryption key used to encrypt the snapshot with all relevant accounts, then share the snapshot with those accounts.

C. Create an Amazon EC2 instance based on the snapshot, then save the instance\'s Amazon EBS volume as a snapshot and share it with the other accounts. Require each account owner to create a new volume from that snapshot and encrypt it.

D. Create a new unencrypted RDS instance from the encrypted snapshot, connect to the instance using SSH/RDP. export the database contents into a file, then share this file with the other accounts.

Correct Answer: B

You must first update the key policy use to encrypt the volume, then share it with other accounts.

QUESTION 3

An ecommerce company has built a web application that uses an Amazon Aurora DB cluster. The DB cluster includes memory optimized instance types with both a writer node and a reader node. Traffic volume changes throughout the day.

During sudden traffic surges, Amazon CloudWatch metrics for the DB cluster indicate high RAM consumption and an increase in select latency.

A SysOps administrator must implement a configuration change to improve the performance of the DB cluster. The change must minimize downtime and must not result in the loss of data.

Which change will meet these requirements?

A. Add an Aurora Replica to the DB cluster.

B. Modify the DB cluster to convert the DB cluster into a multi-master DB cluster.

C. Take a snapshot of the DB cluster. From that snapshot, create a new DB cluster that has larger memory optimized instances.

D. Increase the disk storage capacity of the DB cluster to double the existing disk capacity.

Correct Answer: A

To improve the performance of the Aurora DB cluster, while minimizing downtime and without losing data, option A - adding an Aurora Replica to the DB cluster, is the best choice.

Adding an Aurora Replica would create a new reader node in the cluster, which can help distribute the load during sudden traffic surges, and reduce the select latency. This can also help reduce RAM consumption on the writer node. Additionally, adding a replica can be done with minimal downtime, as it does not require any changes to the application, and data will be automatically replicated from the writer node to the new replica.

QUESTION 4

A company has set up an IPsec tunnel between its AWS environment and its on-premises data center. The tunnel is reporting as UP, but the Amazon EC2 instances are not able to ping any on-premises resources. What should a SysOps administrator do to resolve this issue?

A. Create a new inbound rule on the EC2 instances\\' security groups to allow ICMP traffic from the on-premises CIDR.

B. Create a peering connection between the IPsec tunnel and the subnet of the EC2 instances.

C. Enable route propagation for the virtual private gateway in the route table that is assigned to the subnet of the EC2 instances.

D. Modify the VPC\\'s DHCP options set. Add the IPsec tunnel to the VPN section.

Correct Answer: C

C: Enabling route propagation for the virtual private gateway in the route table associated with the subnet of the EC2 instances will allow the VPC route table to learn and propagate the routes for the on-premises network. This ensures that the EC2 instances know how to reach the on-premises resources through the IPsec tunnel.

QUESTION 5

A SysOps administrator applies the following policy to an AWS CloudFormation stack:

```
{
    "Statement": [
        {
            "Effect": "Deny",
            "Action": "Update:*",
            "Principal": "*",
            "Resource": ["LogicalResourceId/Production*"]
        },
        {
            "Effect": "Allow",
            "Action": "Update:*",
            "Principal": "*",
            "Resource": "*"
        }
    ]
}
```

What is the result of this policy?

A. Users that assume an IAM role with a logical ID that begins with "Production" are prevented from running the update-stack command.

B. Users can update all resources in the stack except for resources that have a logical ID that begins with "Production".

C. Users can update all resources in the stack except for resources that have an attribute that begins with "Production".

D. Users in an IAM group with a logical ID that begins with "Production" are prevented from running the update-stack command.

Correct Answer: B

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