



SOA-C01^{Q&As}

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QUESTION 1

A new Amazon Redshift Spectrum Cluster has been launched for a team of Business Analysis. When the team attempts to use the cluster to query the data in Amazon S3, they receive the following error:

```
[Amazon](500310) Invalid operation: AwsClientException: Failed connect to datacatalog.us-west-2.amazonaws.com:443; Operation now in progress, statement failed  
Execution time: 4m 24s
```

[Amazon](500310) Invalid operation: AwsClientException: Failed connect to datacatalog.us-west2.amazonaws.com:443; Operation now in progress, statement failed Execution time: 4m 24s

What is one cause of this?

- A. The cluster has Enhanced VPC Routing enabled and it must be turned off
- B. The cluster is only a single node and needs to be expanded to multi-node.
- C. The cluster login credentials are incorrect request new credentials from the Administrator
- D. The cluster nodes are running in multiple Availability Zones, and all need to be placed in a single Availability Zone.

Correct Answer: C

QUESTION 2

A company has developed a new memory-intensive application that is deployed to a large Amazon EC2 Linux fleet. The company is concerned about potential memory exhaustion, so the development team wants to monitor memory usage by using Amazon CloudWatch.

What is the MOST operationally efficient way to accomplish this goal?

- A. Create an AWS Lambda function to capture memory utilization of the EC2 instances. Schedule the Lambda function with Amazon EventBridge (Amazon CloudWatch Events).
- B. Deploy the application to memory optimized EC2 instances. Use the CloudWatch MemoryUtilization metric.
- C. Install the CloudWatch agent on the EC2 instances to collect and send metrics to CloudWatch.
- D. Install the CloudWatch monitoring scripts on the EC2 instances to collect and send metrics to CloudWatch.

Correct Answer: D

QUESTION 3

A user has launched multiple EC2 instances for the purpose of development and testing in the same region. The user wants to find the separate cost for the production and development instances. How can the user find the cost distribution?

- A. The user should download the activity report of the EC2 services as it has the instance ID wise data



- B. It is not possible to get the AWS cost usage data of single region instances separately
- C. The user should use Cost Distribution Metadata and AWS detailed billing
- D. The user should use Cost Allocation Tags and AWS billing reports

Correct Answer: D

Explanation: AWS provides cost allocation tags to categorize and track the AWS costs. When the user applies tags to his AWS resources (such as Amazon EC2 instances or Amazon S3 buckets), AWS generates a cost allocation report as a comma-separated value (CSV file) with the usage and costs aggregated by those tags. The user can apply tags which represent business categories (such as cost centers, application names, or instance type – Production/Dev. to organize usage costs across multiple services.

QUESTION 4

An application running on Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones was deployed using an AWS CloudFormation template. The SysOps team has patched the Amazon Machine Image (AMI) version and must update all the EC2 instances to use the new AMI.

How can the SysOps Administrator use CloudFormation to apply the new AMI while maintaining a minimum level of active instances to ensure service continuity?

- A. Run the `aws cloudformation update-stack` command with the `--rollback-configuration` option
- B. Update the CloudFormation template with the new AMI ID, then reboot the EC2 instances
- C. Deploy a second CloudFormation stack and use Amazon Route 53 to redirect traffic to the new stack
- D. Set an `AutoScalingUpdatePolicy` in the CloudFormation template to update the stack.

Correct Answer: D

QUESTION 5

A user has created a VPC with a public subnet. The user has terminated all the instances which are part of the subnet. Which of the below mentioned statements is true with respect to this scenario?

- A. The user cannot delete the VPC since the subnet is not deleted
- B. All network interface attached with the instances will be deleted
- C. When the user launches a new instance it cannot use the same subnet
- D. The subnet to which the instances were launched with will be deleted

Correct Answer: B



Explanation: A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. A user can create a subnet with VPC and launch instances inside that subnet. When an instance is launched it will have a network interface attached with it. The user cannot delete the subnet until he terminates the instance and deletes the network interface. When the user terminates the instance all the network interfaces attached with it are also deleted.

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