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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q225-Q230):

NEW QUESTION # 225
A DevOps engineer manages a Java-based application that runs in an Amazon Elastic Container Service (Amazon ECS) cluster on AWS Fargate. Auto scaling has not been configured for the application. The DevOps engineer has determined that the Java Virtual Machine (JVM) thread count is a good indicator of when to scale the application. The application serves customer traffic on port 8080 and makes JVM metrics available on port 9404. Application use has recently increased. The DevOps engineer needs to configure auto scaling for the application. Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an Amazon Managed Service for Prometheus workspace. Deploy AWS Distro for OpenTelemetry as a container sidecar to retrieve JVM metrics from port 9404 to publish the JVM metrics from port 9404 to the Prometheus workspace.

Add a target tracking policy in Fargate. Select the Prometheus metric as a scale target.

- **B. Deploy the Amazon CloudWatch agent as a container sidecar. Configure the CloudWatch agent to retrieve JVM metrics from port 9404. Create CloudWatch alarms on the JVM thread count metric to scale the application. Add a step scaling policy in Fargate to scale up and scale down based on the CloudWatch alarms.**
- C. Create an Amazon Managed Service for Prometheus workspace. Deploy AWS Distro for OpenTelemetry as a container sidecar to publish the JVM metrics from port 9404 to the Prometheus workspace. Configure rules for the workspace to use the JVM thread count metric to scale the application. Add a step scaling policy in Fargate. Select the Prometheus rules to scale up and scaling down.
- D. Deploy the Amazon CloudWatch agent as a container sidecar. Configure a metric filter for the JVM thread count metric on the CloudWatch log group for the CloudWatch agent. Add a target tracking policy in Fargate. Select the metric from the metric filter as a scale target.

Answer: B

NEW QUESTION # 226

A company uses AWS CodeArtifact to centrally store Python packages. The CodeArtifact repository is configured with the following repository policy.

A development team is building a new project in an account that is in an organization in AWS Organizations.
The development team wants to use a Python library that has already been stored in the CodeArtifact repository in the organization.
The development team uses AWS CodePipeline and AWS CodeBuild to build the new application. The CodeBuild job that the development team uses to build the application is configured to run in a VPC Because of compliance requirements the VPC has no internet connectivity.
The development team creates the VPC endpoints for CodeArtifact and updates the CodeBuild buildspec yaml file. However, the development team cannot download the Python library from the repository.
Which combination of steps should a DevOps engineer take so that the development team can use Code Artifact? (Select TWO.)

- A. Specify the account that hosts the repository as the delegated administrator for CodeArtifact in the organization.
- **B. Create an Amazon S3 gateway endpoint Update the route tables for the subnets that are running the CodeBuild job.**
- C. Update the repository policy's Principal statement to include the ARN of the role that the CodeBuild project uses.
- D. Share the CodeArtifact repository with the organization by using AWS Resource Access Manager (AWS RAM).
- **E. Update the role that the CodeBuild project uses so that the role has sufficient permissions to use the CodeArtifact repository.**

Answer: B,E

Explanation:
"AWS CodeArtifact operates in multiple Availability Zones and stores artifact data and metadata in Amazon S3 and Amazon DynamoDB. Your encrypted data is redundantly stored across multiple facilities and multiple devices in each facility, making it highly

available and highly durable." https://aws.amazon.com/codeartifact
/features/ With no internet connectivity, a gateway endpoint becomes necessary to access S3.

NEW QUESTION # 227

A company has configured Amazon RDS storage autoscaling for its RDS DB instances. A DevOps team needs to visualize the autoscaling events on an Amazon CloudWatch dashboard. Which solution will meet this requirement?

- A. Create an Amazon EventBridge rule that reacts to RDS storage autoscaling events (rom the RDS events. Create a CloudWatch alarm. Configure the EventBridge rule to change the status of the CloudWatch alarm. Visualize the alarm status by using the CloudWatch dashboard.
- B. Create a trail by using AWS CloudTrail with data events configured. Configure the trail to send the data events to Amazon CloudWatch Logs. Create a metric filter in CloudWatch Logs to match the RDS storage autoscaling events. Visualize the metric filter by using the CloudWatch dashboard.
- C. Create a trail by using AWS CloudTrail with management events configured. Configure the trail to send the management events to Amazon CloudWatch Logs. Create a metric filter in CloudWatch Logs to match the RDS storage autoscaling events. Visualize the metric filter by using the CloudWatch dashboard.
- D. Create an Amazon EventBridge rule that reacts to RDS storage autoscaling events from RDS events. Create an AWS Lambda function that publishes a CloudWatch custom metric. Configure the EventBridge rule to invoke the Lambda function. Visualize the custom metric by using the CloudWatch dashboard.

Answer: D

Explanation:
Step 1: Reacting to RDS Storage Autoscaling Events Using Amazon EventBridge Amazon RDS emits events when storage autoscaling occurs. To visualize these events in a CloudWatch dashboard, you can create an EventBridge rule that listens for these specific autoscaling events.
Action: Create an EventBridge rule that reacts to RDS storage autoscaling events from the RDS event stream.
Why: EventBridge allows you to listen to RDS events and route them to specific AWS services for processing.
Step 2: Creating a Custom CloudWatch Metric via Lambda
Once the EventBridge rule detects a storage autoscaling event, you can use a Lambda function to publish a custom metric to CloudWatch. This metric can then be visualized in a CloudWatch dashboard.
Action: Use a Lambda function to publish custom metrics to CloudWatch based on the RDS storage autoscaling events.
Why: Custom metrics allow you to track specific events like autoscaling and visualize them easily on a CloudWatch dashboard.
Reference:
This corresponds to Option A: Create an Amazon EventBridge rule that reacts to RDS storage autoscaling events from RDS events. Create an AWS Lambda function that publishes a CloudWatch custom metric. Configure the EventBridge rule to invoke the Lambda function. Visualize the custom metric by using the CloudWatch dashboard.

NEW QUESTION # 228

A DevOps engineer manages a company's Amazon Elastic Container Service (Amazon ECS) cluster. The cluster runs on several Amazon EC2 instances that are in an Auto Scaling group. The DevOps engineer must implement a solution that logs and reviews all stopped tasks for errors.
Which solution will meet these requirements?

- A. Create an Amazon EventBridge rule to capture task state changes. Send the event to Amazon CloudWatch Logs. Use CloudWatch Logs Insights to investigate stopped tasks.
- B. Configure the EC2 instances to store logs in Amazon CloudWatch Logs. Create a CloudWatch Contributor Insights rule that uses the EC2 instance log data. Use the Contributor Insights rule to investigate stopped tasks.
- C. Configure tasks to write log data in the embedded metric format. Store the logs in Amazon CloudWatch Logs. Monitor the ContainerInstanceCount metric for changes.
- D. Configure an EC2 Auto Scaling lifecycle hook for the EC2_INSTANCE_TERMINATING scale-in event. Write the SystemEventLog file to Amazon S3. Use Amazon Athena to query the log file for errors.

Answer: A

Explanation:
The best solution to log and review all stopped tasks for errors is to use Amazon EventBridge and Amazon CloudWatch Logs. Amazon EventBridge allows the DevOps engineer to create a rule that matches task state change events from Amazon ECS. The rule can then send the event data to Amazon CloudWatch Logs as the target. Amazon CloudWatch Logs can store and monitor the

log data, and also provide CloudWatch Logs Insights, a feature that enables the DevOps engineer to interactively search and analyze the log data. Using CloudWatch Logs Insights, the DevOps engineer can filter and aggregate the log data based on various fields, such as cluster, task, container, and reason. This way, the DevOps engineer can easily identify and investigate the stopped tasks and their errors.

The other options are not as effective or efficient as the solution in option A. Option B is not suitable because the embedded metric format is designed for custom metrics, not for logging task state changes. Option C is not feasible because the EC2 instances do not store the task state change events in their logs. Option D is not relevant because the EC2_INSTANCE_TERMINATING lifecycle hook is triggered when an EC2 instance is terminated by the Auto Scaling group, not when a task is stopped by Amazon ECS.

Reference:
1: Creating a CloudWatch Events Rule That Triggers on an Event - Amazon Elastic Container Service
2: Sending and Receiving Events Between AWS Accounts - Amazon EventBridge
3: Working with Log Data - Amazon CloudWatch Logs
4: Analyzing Log Data with CloudWatch Logs Insights - Amazon CloudWatch Logs
5: Embedded Metric Format - Amazon CloudWatch
6: Amazon EC2 Auto Scaling Lifecycle Hooks - Amazon EC2 Auto Scaling

NEW QUESTION # 229

A company has developed an AWS Lambda function that handles orders received through an API. The company is using AWS CodeDeploy to deploy the Lambda function as the final stage of a CI/CD pipeline.

A DevOps engineer has noticed there are intermittent failures of the ordering API for a few seconds after deployment. After some investigation the DevOps engineer believes the failures are due to database changes not having fully propagated before the Lambda function is invoked How should the DevOps engineer overcome this?

- A. Add a BeforeAllowTraffic hook to the AppSpec file that tests and waits for any necessary database changes before deploying the new version of the Lambda function.
- B. Add a validateService hook to the AppSpec file that inspects incoming traffic and rejects the payload if dependent services such as the database are not yet ready.
- C. Add an AfterAllowTraffic hook to the AppSpec file that forces traffic to wait for any pending database changes before allowing the new version of the Lambda function to respond.
- D. Add a BeforeAllowTraffic hook to the AppSpec file that tests and waits for any necessary database changes before traffic can flow to the new version of the Lambda function.

Answer: D

Explanation:
Explanation
https://docs.aws.amazon.com/codedeploy/latest/userguide/reference-appspec-file-structure-hooks.html#appspec-

NEW QUESTION # 230

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