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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q370-Q375):

NEW QUESTION # 370

A company has many AWS accounts. During AWS account creation the company uses automation to create an Amazon CloudWatch Logs log group in every AWS Region that the company operates in. The automation configures new resources in the accounts to publish logs to the provisioned log groups in their Region.

The company has created a logging account to centralize the logging from all the other accounts. A DevOps engineer needs to aggregate the log groups from all the accounts to an existing Amazon S3 bucket in the logging account.

Which solution will meet these requirements in the MOST operationally efficient manner?

- A. In the logging account create a CloudWatch Logs destination with a destination policy. For each new account subscribe

the CloudWatch Logs log groups to the destination. Configure a single Amazon Kinesis data stream to deliver the logs from the CloudWatch Logs destination to the S3 bucket.

- B. In the logging account create a CloudWatch Logs destination with a destination policy for each Region. For each new account subscribe the CloudWatch Logs log groups to the destination. Configure an Amazon Kinesis data stream and an Amazon Kinesis Data Firehose delivery stream for each Region to deliver the logs from the CloudWatch Logs destinations to the S3 bucket.
- C. In the logging account create a CloudWatch Logs destination with a destination policy for each Region. For each new account subscribe the CloudWatch Logs log groups to the destination. Configure a single Amazon Kinesis data stream and a single Amazon Kinesis Data Firehose delivery stream to deliver the logs from all the CloudWatch Logs destinations to the S3 bucket.
- D. In the logging account create a CloudWatch Logs destination with a destination policy. For each new account subscribe the CloudWatch Logs log groups to the destination. Configure a single Amazon Kinesis data stream and a single Amazon Kinesis Data Firehose delivery stream to deliver the logs from the CloudWatch Logs destination to the S3 bucket.

Answer: B

Explanation:

Explanation

This solution will meet the requirements in the most operationally efficient manner because it will use CloudWatch Logs destination to aggregate the log groups from all the accounts to a single S3 bucket in the logging account. However, unlike option A, this solution will create a CloudWatch Logs destination for each region, instead of a single destination for all regions. This will improve the performance and reliability of the log delivery, as it will avoid cross-region data transfer and latency issues. Moreover, this solution will use an Amazon Kinesis data stream and an Amazon Kinesis Data Firehose delivery stream for each region, instead of a single stream for all regions. This will also improve the scalability and throughput of the log delivery, as it will avoid bottlenecks and throttling issues that may occur with a single stream.

NEW QUESTION # 371

A company is developing code and wants to use semantic versioning. The company's DevOps team needs to create a pipeline for compiling the code. The team also needs to manage versions of the compiled code. If the code uses any open source libraries, the libraries must also be cached in the build process. Which solution will meet these requirements?

- A. Create a new AWS CodeArtifact repository. Create an AWS Lambda function that pulls open source packages from the internet and publishes the packages to the repository. Configure AWS CodeDeploy to build semantic versions of the code and publish the versions to the repository.
- B. Use an AWS CodeBuild project to build the code and to publish the generated semantic version of the artifact to AWS Artifact. Configure build caching in the CodeBuild project.
- C. Create an AWS CodeArtifact repository and associate the upstream repositories. Create an AWS CodeBuild project that builds the semantic version of the code artifacts. Configure the project to authenticate and connect to the CodeArtifact repository and publish the artifact to the repository.
- D. Use AWS CodeDeploy to upload the generated semantic version of the artifact to an Amazon Elastic File System (Amazon EFS) file system.

Answer: C

NEW QUESTION # 372

A company runs its container workloads in AWS App Runner. A DevOps engineer manages the company's container repository in Amazon Elastic Container Registry (Amazon ECR).

The DevOps engineer must implement a solution that continuously monitors the container repository. The solution must create a new container image when the solution detects an operating system vulnerability or language package vulnerability.

Which solution will meet these requirements?

- A. Create an AWS CodeBuild project to create a container image. Use Amazon ECR as the target repository. Configure AWS Systems Manager Compliance to scan all managed nodes. Create an Amazon EventBridge rule to capture a configuration compliance state change event. Use the event to invoke the CodeBuild project.
- B. Use EC2 Image Builder to create a container image pipeline. Use Amazon ECR as the target repository. Turn on enhanced scanning on the ECR repository. Create an Amazon EventBridge rule to capture an Inspector2 finding event. Use the event to invoke the image pipeline. Re-upload the container to the repository.
- C. Create an AWS CodeBuild project to create a container image. Use Amazon ECR as the target repository. Turn on basic scanning on the repository. Create an Amazon EventBridge rule to capture an ECR image action event. Use the event to

- invoke the CodeBuild project. Re-upload the container to the repository.
- D. Use EC2 Image Builder to create a container image pipeline. Use Amazon ECR as the target repository. Enable Amazon GuardDuty Malware Protection on the container workload. Create an Amazon EventBridge rule to capture a GuardDuty finding event. Use the event to invoke the image pipeline.

Answer: B

Explanation:

The solution that meets the requirements is to use EC2 Image Builder to create a container image pipeline, use Amazon ECR as the target repository, turn on enhanced scanning on the ECR repository, create an Amazon EventBridge rule to capture an Inspector2 finding event, and use the event to invoke the image pipeline. Re-upload the container to the repository.

This solution will continuously monitor the container repository for vulnerabilities using enhanced scanning, which is a feature of Amazon ECR that provides detailed information and guidance on how to fix security issues found in your container images.

Enhanced scanning uses Inspector2, a security assessment service that integrates with Amazon ECR and generates findings for any vulnerabilities detected in your images. You can use Amazon EventBridge to create a rule that triggers an action when an Inspector2 finding event occurs. The action can be to invoke an EC2 Image Builder pipeline, which is a service that automates the creation of container images. The pipeline can use the latest patches and updates to build a new container image and upload it to the same ECR repository, replacing the vulnerable image.

The other options are not correct because they do not meet all the requirements or use services that are not relevant for the scenario. Option B is not correct because it uses Amazon GuardDuty Malware Protection, which is a feature of GuardDuty that detects malicious activity and unauthorized behavior on your AWS accounts and resources.

GuardDuty does not scan container images for vulnerabilities, nor does it integrate with Amazon ECR or EC2 Image Builder.

Option C is not correct because it uses basic scanning on the ECR repository, which only provides a summary of the vulnerabilities found in your container images. Basic scanning does not use Inspector2 or generate findings that can be captured by Amazon EventBridge. Moreover, basic scanning does not provide guidance on how to fix the vulnerabilities.

Option D is not correct because it uses AWS Systems Manager Compliance, which is a feature of Systems Manager that helps you monitor and manage the compliance status of your AWS resources based on AWS Config rules and AWS Security Hub standards. Systems Manager Compliance does not scan container images for vulnerabilities, nor does it integrate with Amazon ECR or EC2 Image Builder.

NEW QUESTION # 373

A company is using an Amazon Aurora cluster as the data store for its application. The Aurora cluster is configured with a single DB instance. The application performs read and write operations on the database by using the cluster's instance endpoint.

The company has scheduled an update to be applied to the cluster during an upcoming maintenance window.

The cluster must remain available with the least possible interruption during the maintenance window.

What should a DevOps engineer do to meet these requirements?

- A. Turn on the Multi-AZ option on the Aurora cluster. Create a custom ANY endpoint for the cluster. Update the application to use the Aurora cluster's custom ANY endpoint for read and write operations.
- B. Add a reader instance to the Aurora cluster. Create a custom ANY endpoint for the cluster. Update the application to use the Aurora cluster's custom ANY endpoint for read and write operations.
- C. Turn on the Multi-AZ option on the Aurora cluster. Update the application to use the Aurora cluster endpoint for write operations. Update the Aurora cluster's reader endpoint for reads.
- D. Add a reader instance to the Aurora cluster. Update the application to use the Aurora cluster endpoint for write operations. Update the Aurora cluster's reader endpoint for reads.

Answer: C

Explanation:

To meet the requirements, the DevOps engineer should do the following:

* Turn on the Multi-AZ option on the Aurora cluster.

* Update the application to use the Aurora cluster endpoint for write operations.

* Update the Aurora cluster's reader endpoint for reads.

Turning on the Multi-AZ option will create a replica of the database in a different Availability Zone. This will ensure that the database remains available even if one of the Availability Zones is unavailable.

Updating the application to use the Aurora cluster endpoint for write operations will ensure that all writes are sent to both the primary and replica databases. This will ensure that the data is always consistent.

Updating the Aurora cluster's reader endpoint for reads will allow the application to read data from the replica database. This will improve the performance of the application during the maintenance window.

NEW QUESTION # 374

A company's organization in AWS Organizations has a single OU. The company runs Amazon EC2 instances in the OU accounts. The company needs to limit the use of each EC2 instance's credentials to the specific EC2 instance that the credential is assigned to. A DevOps engineer must configure security for the EC2 instances.

Which solution will meet these requirements?

- A. Create an SCP that specifies the VPC CIDR block. Configure the SCP to check whether the value of the aws:VpcSourceIp condition key is in the specified block. In the same SCP check, check whether the values of the aws:EC2InstanceSourcePrivateIPv4 and aws:SourceVpc condition keys are the same. Deny access if either condition is false. Apply the SCP to the OU.
- B. Create an SCP that checks whether the values of the aws:EC2InstanceSourceVPC and aws:SourceVpc condition keys are the same. Deny access if the values are not the same. In the same SCP check, check whether the values of the aws:EC2InstanceSourcePrivateIPv4 and aws:VpcSourceIp condition keys are the same. Deny access if the values are not the same. Apply the SCP to the OU.
- C. Create an SCP that includes a list of acceptable VPC values and checks whether the value of the aws:SourceVpc condition key is in the list. In the same SCP check, define a list of acceptable IP address values and check whether the value of the aws:VpcSourceIp condition key is in the list. Deny access if either condition is false. Apply the SCP to each account in the organization.
- D. Create an SCP that checks whether the values of the aws:EC2InstanceSourceVPC and aws:VpcSourceIp condition keys are the same. Deny access if the values are not the same. In the same SCP check, check whether the values of the aws:EC2InstanceSourcePrivateIPv4 and aws:SourceVpc condition keys are the same. Deny access if the values are not the same. Apply the SCP to each account in the organization.

Answer: B

Explanation:

- * Step 1: Using Service Control Policies (SCPs) for EC2 SecurityTo limit the use of EC2 instance credentials to the specific EC2 instance they are assigned to, you can create a Service Control Policy (SCP) that verifies specific conditions, such as whether the EC2 instance's source VPC and private IP match expected values.
- * Action:Create an SCP that checks whether the values of the aws:EC2InstanceSourceVPC and aws:SourceVpc condition keys are the same. Deny access if they are not.
- * Why:This ensures that credentials cannot be used outside the designated EC2 instance or VPC.
- * Step 2: Further Validation with Private IPsThe SCP should also verify that the EC2 instance's private IP matches the IP range specified for the VPC. If the instance's private IP does not match, access should be denied.
- * Action:In the same SCP, check whether the values of the aws:EC2InstanceSourcePrivateIP and aws:VpcSourceIP condition keys are the same. Deny access if they are not.
- * Why:This ensures that the credentials are only used within the specific EC2 instance and its associated VPC.

NEW QUESTION # 375

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