Amazon

Exam Questions AWS-Certified-DevOps-Engineer-Professional

Amazon AWS Certified DevOps Engineer Professional

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NEW QUESTION 1
A company is adopting AWS CodeDeploy to automate its application deployments for a Java-Apache Tomcat application with an Apache Webserver. The development team started with a proof of concept, created a deployment group for a developer environment, and performed functional tests within the application. After completion, the team will create additional deployment groups for staging and production.
The current log level is configured within the Apache settings, but the team wants to change this configuration dynamically when the deployment occurs, so that they can set different log level configurations depending on the deployment group without having a different application revision for each group.
How can these requirements be met with the LEAST management overhead and without requiring different script versions for each deployment group?

A. Tag the Amazon EC2 instances depending on the deployment grou
B. Then place ascript into the application revision that calls the metadata service and the EC2 API to identify which deployment group the instance is part o
C. Use this information to configure the log level setting
D. Reference the script as part of the AfterInstall lifecycle hook in the appspec.yml file.
E. Create a script that uses the CodeDeploy environment variable DEPLOYMENT_GROUP_ NAME to identify which deployment group the instance is part o
F. Use this information to configure the log level setting
G. Reference this script as part of the BeforeInstall lifecycle hook in the appspec.yml file.
H. Create a CodeDeploy custom environment variable for each environmen
I. Then place a script into the application revision that checks this environment variable to identify which deployment group the instance is part o
J. Use this information to configure the log level setting
K. Reference this script as part of the ValidateService lifecycle hook in the appspec.yml file.
L. Create a script that uses the CodeDeploy environment variable DEPLOYMENT_GROUP_ID to identify which deployment group the instance is part of to configure the log level setting
M. Reference this script as part of the Install lifecycle hook in the appspec.yml file.

Answer: B

Explanation:
The following are the steps that the company can take to change the log level dynamically when the deployment occurs:
? Create a script that uses the CodeDeploy environment variable DEPLOYMENT_GROUP_NAME to identify which deployment group the instance is part of.
? Use this information to configure the log level settings.
? Reference this script as part of the BeforeInstall lifecycle hook in the appspec.yml file.
The DEPLOYMENT_GROUP_NAME environment variable is automatically set by CodeDeploy when the deployment is triggered. This means that the script does not need to call the metadata service or the EC2 API to identify the deployment group.
This solution is the least complex and requires the least management overhead. It also does not require different script versions for each deployment group.
The following are the reasons why the other options are not correct:
? Option A is incorrect because it would require tagging the Amazon EC2 instances, which would be a manual and time-consuming process.
? Option C is incorrect because it would require creating a custom environment variable for each environment. This would be a complex and error-prone process.
? Option D is incorrect because it would use
the DEPLOYMENT_GROUP_ID environment variable. However, this variable is not automatically set by CodeDeploy, so the script would need to call the metadata service or the EC2 API to get the deployment group ID. This would add complexity and overhead to the solution.

NEW QUESTION 2
A company uses a single AWS account lo test applications on Amazon EC2 instances. The company has turned on AWS Config in the AWS account and has activated the restricted- ssh AWS Config managed rule.
The company needs an automated monitoring solution that will provide a customized notification in real time if any security group in the account is not compliant with the restricted-ssh rule. The customized notification must contain the name and ID of the noncompliant security group.
A DevOps engineer creates an Amazon Simple Notification Service (Amazon SNS) topic in the account and subscribes the appropriate personnel to the topic.
What should me DevOps engineer do next to meet these requirements?

A. Create an Amazon EventBridge rule that matches an AWS Config evaluation result of NON_COMPLIANT tor the restricted-ssh rul
B. Configure an input transformer for the EventBridge rule Configure the EventBridge rule to publish a notification to the SNS topic.
C. Configure AWS Config to send all evaluation results for the restricted-ssh rule to the SNS topi
D. Configure a filter policy on the SNS topic to send only notifications that contain the text of NON_COMPLIANT in the notification to subscribers.
E. Create an Amazon EventBridge rule that matches an AWS Config evaluation result of NON_COMPLIANT for the restricted-ssh rule Configure the EventBridge rule to invoke AWS Systems Manager Run Command on the SNS topic to customize a notification and to publish the notification to the SNS topic
F. Create an Amazon EventBridge rule that matches all AWS Config evaluation results of NON_COMPLIANT Configure an input transformer for the restricted-ssh rule Configure the EventBridge rule to publish a notification to the SNS topic.

Answer: A

Explanation:
Create an Amazon EventBridge (Amazon CloudWatch Events) rule that matches an AWS Config evaluation result of NON_COMPLIANT for the restricted-ssh rule. Configure an input transformer for the EventBridge (CloudWatch Events) rule. Configure the EventBridge (CloudWatch Events) rule to publish a notification to the SNS topic. This approach uses Amazon EventBridge (previously known as Amazon CloudWatch Events) to filter AWS Config evaluation results based on the restricted-ssh rule and its compliance status (NON_COMPLIANT). An input transformer can be used to customize the information contained in the notification, such as the name and ID of the noncompliant security group. The EventBridge (CloudWatch Events) rule can then be configured to publish a notification to the SNS topic, which will notify the appropriate personnel in real-time.

NEW QUESTION 3
A company is migrating its on-premises Windows applications and Linux applications to AWS. The company will use automation to launch Amazon EC2 instances to mirror the on- premises configurations. The migrated applications require access to shared storage that uses SMB for Windows and NFS for Linux.
The company is also creating a pilot light disaster recovery (DR) environment in another AWS Region. The company will use automation to launch and configure the EC2 instances in the DR Region. The company needs to replicate the storage to the DR Region.
Which storage solution will meet these requirements?

A. Use Amazon S3 for the application storag
B. Create an S3 bucket in the primary Region and an S3 bucket in the DR Regio
C. Configure S3 Cross-Region Replication (CRR) from the primary Region to the DR Region.
D. Use Amazon Elastic Block Store (Amazon EBS) for the application storag
E. Create a backup plan in AWS Backup that creates snapshots of the EBS volumes that are in the primary Region and replicates the snapshots to the DR Region.

F. Use a Volume Gateway in AWS Storage Gateway for the application storag
G. Configure Cross-Region Replication (CRR) of the Volume Gateway from the primary Region to the DR Region.
H. Use Amazon FSx for NetApp ONTAP for the application storag
I. Create an FSx for ONTAP instance in the DR Regio
J. Configure NetApp SnapMirror replication from the primary Region to the DR Region.

Answer: D

Explanation:
To meet the requirements of migrating its on-premises Windows and Linux applications to AWS and creating a pilot light DR environment in another AWS Region, the company should use Amazon FSx for NetApp ONTAP for the application storage. Amazon FSx for NetApp ONTAP is a fully managed service that provides highly reliable, scalable, high- performing, and feature-rich file storage built on NetApp's popular ONTAP file system. FSx for ONTAP supports multiple protocols, including SMB for Windows and NFS for Linux, so the company can access the shared storage from both types of applications. FSx for ONTAP also supports NetApp SnapMirror replication, which enables the company to replicate the storage to the DR Region. NetApp SnapMirror replication is efficient, secure, and incremental, and it preserves the data deduplication and compression benefits of FSx for ONTAP. The company can use automation to launch and configure the EC2 instances in the DR Region and then use NetApp SnapMirror to restore the data from the primary Region.
The other options are not correct because they do not meet the requirements or follow best practices. Using Amazon S3 for the application storage is not a good option because S3 is an object storage service that does not support SMB or NFS protocols natively. The company would need to use additional services or software to mount S3 buckets as file systems, which would add complexity and cost. Using Amazon EBS for the application storage is also not a good option because EBS is a block storage service that does not support SMB or NFS protocols natively. The company would need to set up and manage file servers on EC2 instances to provide shared access to the EBS volumes, which would add overhead and maintenance. Using a Volume Gateway in AWS Storage Gateway for the application storage is not a valid option because Volume Gateway does not support SMB protocol. Volume Gateway only supports iSCSI protocol, which means that only Linux applications can access the shared storage.
References:
? 1: What is Amazon FSx for NetApp ONTAP? - FSx for ONTAP
? 2: Amazon FSx for NetApp ONTAP
? 3: Amazon FSx for NetApp ONTAP | NetApp
? 4: AWS Announces General Availability of Amazon FSx for NetApp ONTAP
? : Replicating Data with NetApp SnapMirror - FSx for ONTAP
? : What Is Amazon S3? - Amazon Simple Storage Service
? : What Is Amazon Elastic Block Store (Amazon EBS)? - Amazon Elastic Compute Cloud
? : What Is AWS Storage Gateway? - AWS Storage Gateway

NEW QUESTION 4
A company is developing a new application. The application uses AWS Lambda functions for its compute tier. The company must use a canary deployment for any changes to the Lambda functions. Automated rollback must occur if any failures are reported.
The company's DevOps team needs to create the infrastructure as code (IaC) and the CI/CD pipeline for this solution.
Which combination of steps will meet these requirements? (Choose three.)

A. Create an AWS CloudFormation template for the applicatio
B. Define each Lambda function in the template by using the AWS::Lambda::Function resource typ
C. In the template, include a version for the Lambda function by using the AWS::Lambda::Version resource typ
D. Declare the CodeSha256 propert
E. Configure an AWS::Lambda::Alias resource that references the latest version of the Lambda function.
F. Create an AWS Serverless Application Model (AWS SAM) template for the applicatio
G. Define each Lambda function in the template by using the AWS::Serverless::Function resource typ
H. For each function, include configurations for the AutoPublishAlias property and the DeploymentPreference propert
I. Configure the deployment configuration type to LambdaCanary10Percent10Minutes.
J. Create an AWS CodeCommit repositor
K. Create an AWS CodePipeline pipelin
L. Use the CodeCommit repository in a new source stage that starts the pipelin
M. Create an AWS CodeBuild project to deploy the AWS Serverless Application Model (AWS SAM) templat
N. Upload the template and source code to the CodeCommit repositor
O. In the CodeCommit repository, create a buildspec.yml file that includes the commands to build and deploy the SAM application.
P. Create an AWS CodeCommit repositor
Q. Create an AWS CodePipeline pipelin
R. Use the CodeCommit repository in a new source stage that starts the pipelin
S. Create an AWS CodeDeploy deployment group that is configured for canary deployments with a DeploymentPreference type of Canary10Percent10Minute
T. Upload the AWS CloudFormation template and source code to the CodeCommit repositor
. In the CodeCommit repository, create an appspec.yml file that includes the commands to deploy the CloudFormation template.
. Create an Amazon CloudWatch composite alarm for all the Lambda function
. Configure an evaluation period and dimensions for Lambd
. Configure the alarm to enter the ALARMstate if any errors are detected or if there is insufficient data.
. Create an Amazon CloudWatch alarm for each Lambda functio
. Configure the alarms to enter the ALARM state if any errors are detecte
. Configure an evaluation period, dimensions for each Lambda function and version, and the namespace as AWS/Lambda on the Errors metric.

Answer: BCF

Explanation:
The requirement is to create the infrastructure as code (IaC) and the CI/CD pipeline for the Lambda application that uses canary deployment and automated rollback. To do this, the DevOps team needs to use the following steps:
? Create an AWS Serverless Application Model (AWS SAM) template for the application. AWS SAM is a framework that simplifies the development and deployment of serverless applications on AWS. AWS SAM allows customers to define Lambda functions and other resources in a template by using a simplified syntax. For each Lambda function, the DevOps team can include configurations for the AutoPublishAlias property and the DeploymentPreference property. The AutoPublishAlias property specifies the name of the alias that points to the latest version of the function. The DeploymentPreference property specifies how CodeDeploy deploys new versions of the function. By configuring the deployment configuration type to LambdaCanary10Percent10Minutes, the DevOps team can enable canary deployment with 10% of traffic shifted to the new version every 10 minutes.
? Create an AWS CodeCommit repository. Create an AWS CodePipeline pipeline.
Use the CodeCommit repository in a new source stage that starts the pipeline. Create an AWS CodeBuild project to deploy the AWS SAM template. CodeCommit is a fully managed source control service that hosts Git repositories. CodePipeline is a fully managed continuous delivery service that automates the release process of software applications. CodeBuild is a fully managed continuous integration service that compiles source code and runs tests. By using these services,

the DevOps team can create a CI/CD pipeline for the Lambda application. The pipeline should use the CodeCommit repository as the source stage, where the DevOps team can upload the SAM template and source code. The pipeline should also use a CodeBuild project as the build stage, where the SAM template can be built and deployed.
? Create an Amazon CloudWatch alarm for each Lambda function. Configure the
alarms to enter the ALARM state if any errors are detected. Configure an evaluation period, dimensions for each Lambda function and version, and the namespace as AWS/Lambda on the Errors metric. CloudWatch is a service that monitors and collects metrics from AWS resources and applications. CloudWatch alarms are actions that are triggered when a metric crosses a specified threshold. By creating CloudWatch alarms for each Lambda function, the DevOps team can monitor the health and performance of each function version during deployment. By configuring the alarms to enter the ALARM state if any errors are detected, the DevOps team can enable automated rollback if any failures are reported.

NEW QUESTION 5
A company has containerized all of its in-house quality control applications. The company is running Jenkins on Amazon EC2 instances, which require patching and upgrading. The compliance officer has requested a DevOps engineer begin encrypting build artifacts since they contain company intellectual property.
What should the DevOps engineer do to accomplish this in the MOST maintainable manner?

A. Automate patching and upgrading using AWS Systems Manager on EC2 instances and encrypt Amazon EBS volumes by default.
B. Deploy Jenkins to an Amazon ECS cluster and copy build artifacts to an Amazon S3 bucket with default encryption enabled.
C. Leverage AWS CodePipeline with a build action and encrypt the artifacts using AWS Secrets Manager.
D. Use AWS CodeBuild with artifact encryption to replace the Jenkins instance running on EC2 instances.

Answer: D

Explanation:
The following are the steps involved in accomplishing this in the most maintainable manner:
? Use AWS CodeBuild with artifact encryption to replace the Jenkins instance running on EC2 instances.
? Configure CodeBuild to encrypt the build artifacts using AWS Secrets Manager.
? Deploy the containerized quality control applications to CodeBuild.
This approach is the most maintainable because it eliminates the need to manage Jenkins on EC2 instances. CodeBuild is a managed service, so the DevOps engineer does not need to worry about patching or upgrading the service. https://docs.aws.amazon.com/codebuild/latest/userguide/security-encryption.html Build artifact encryption - CodeBuild requires access to an AWS KMS CMK in order to encrypt its build output artifacts. By default, CodeBuild uses an AWS Key Management Service CMK for Amazon S3 in your AWS account. If you do not want to use this CMK, you must create and configure a customer-managed CMK. For more information Creating keys.

NEW QUESTION 6
A company has an application that runs on a fleet of Amazon EC2 instances. The application requires frequent restarts. The application logs contain error messages when a restart is required. The application logs are published to a log group in Amazon CloudWatch Logs.
An Amazon CloudWatch alarm notifies an application engineer through an Amazon Simple Notification Service (Amazon SNS) topic when the logs contain a large number of restart- related error messages. The application engineer manually restarts the application on the instances after the application engineer receives a notification from the SNS topic.
A DevOps engineer needs to implement a solution to automate the application restart on the instances without restarting the instances.
Which solution will meet these requirements in the MOST operationally efficient manner?

A. Configure an AWS Systems Manager Automation runbook that runs a script to restart the application on the instance
B. Configure the SNS topic to invoke the runbook.
C. Create an AWS Lambda function that restarts the application on the instance
D. Configure the Lambda function as an event destination of the SNS topic.
E. Configure an AWS Systems Manager Automation runbook that runs a script to restart the application on the instance
F. Create an AWS Lambda function to invoke the runboo
G. Configure the Lambda function as an event destination of the SNS topic.
H. Configure an AWS Systems Manager Automation runbook that runs a script to restart the application on the instance
I. Configure an Amazon EventBridge rule that reacts when the CloudWatch alarm enters ALARM stat
J. Specify the runbook as a target of the rule.

Answer: D

Explanation:
This solution meets the requirements in the most operationally efficient manner by automating the application restart process on the instances without restarting them. When the CloudWatch alarm enters the ALARM state, the EventBridge rule is triggered, which in turn invokes the Systems Manager Automation runbook that contains the script to restart the application on the instances.

NEW QUESTION 7
A company is developing an application that will generate log events. The log events consist of five distinct metrics every one tenth of a second and produce a large amount of data The company needs to configure the application to write the logs to Amazon Time stream The company will configure a daily query against the Timestream table.
Which combination of steps will meet these requirements with the FASTEST query performance? (Select THREE.)

A. Use batch writes to write multiple log events in a Single write operation
B. Write each log event as a single write operation
C. Treat each log as a single-measure record
D. Treat each log as a multi-measure record
E. Configure the memory store retention period to be longer than the magnetic store retention period
F. Configure the memory store retention period to be shorter than the magnetic store retention period

Answer: ADF

Explanation:
A comprehensive and detailed explanation is:
? Option A is correct because using batch writes to write multiple log events in a single write operation is a recommended practice for optimizing the performance and cost of data ingestion in Timestream. Batch writes can reduce the number of network round trips and API calls, and can also take advantage of parallel

processing by Timestream. Batch writes can also improve the compression ratio of data in the memory store and the magnetic store, which can reduce the storage costs and improve the query performance1.
? Option B is incorrect because writing each log event as a single write operation is not a recommended practice for optimizing the performance and cost of data ingestion in Timestream. Writing each log event as a single write operation would increase the number of network round trips and API calls, and would also reduce the compression ratio of data in the memory store and the magnetic store. This would increase the storage costs and degrade the query performance1.
? Option C is incorrect because treating each log as a single-measure record is not a recommended practice for optimizing the query performance in Timestream. Treating each log as a single-measure record would result in creating multiple records for each timestamp, which would increase the storage size and the query latency. Moreover, treating each log as a single-measure record would require using joins to query multiple measures for the same timestamp, which would add complexity and overhead to the query processing2.
? Option D is correct because treating each log as a multi-measure record is a recommended practice for optimizing the query performance in Timestream. Treating each log as a multi-measure record would result in creating a single record for each timestamp, which would reduce the storage size and the query latency. Moreover, treating each log as a multi-measure record would allow querying multiple measures for the same timestamp without using joins, which would simplify and speed up the query processing2.
? Option E is incorrect because configuring the memory store retention period to be longer than the magnetic store retention period is not a valid option in Timestream. The memory store retention period must always be shorter than or equal to the magnetic store retention period. This ensures that data is moved from the memory store to the magnetic store before it expires out of the memory store3.
? Option F is correct because configuring the memory store retention period to be shorter than the magnetic store retention period is a valid option in Timestream. The memory store retention period determines how long data is kept in the memory store, which is optimized for fast point-in-time queries. The magnetic store retention period determines how long data is kept in the magnetic store, which is optimized for fast analytical queries. By configuring these retention periods appropriately, you can balance your storage costs and query performance according to your application needs3.
References:
? 1: Batch writes
? 2: Multi-measure records vs. single-measure records
? 3: Storage

NEW QUESTION 8
A company wants to ensure that their EC2 instances are secure. They want to be notified if any new vulnerabilities are discovered on their instances and they also want an audit trail of all login activities on the instances.
Which solution will meet these requirements'?

A. Use AWS Systems Manager to detect vulnerabilities on the EC2 instances Install the Amazon Kinesis Agent to capture system logs and deliver them to Amazon S3.
B. Use AWS Systems Manager to detect vulnerabilities on the EC2 instances Install the Systems Manager Agent to capture system logs and view login activity in the CloudTrail console.
C. Configure Amazon CloudWatch to detect vulnerabilities on the EC2 instances Install the AWS Config daemon to capture system logs and view them in the AWS Config console.
D. Configure Amazon Inspector to detect vulnerabilities on the EC2 instances Install the Amazon CloudWatch Agent to capture system logs and record them via Amazon CloudWatch Logs.

Answer: D

Explanation:
This solution will meet the requirements because it will use Amazon Inspector to scan the EC2 instances for any new vulnerabilities and generate findings that can be viewed in the Inspector console or sent as notifications via Amazon Simple Notification Service (SNS). It will also use the Amazon CloudWatch Agent to collect and send system logs from the EC2 instances to Amazon CloudWatch Logs, where they can be stored, searched, and analyzed. The system logs can provide an audit trail of all login activities on the instances, as well as other useful information such as performance metrics, errors, and events.
https://docs.aws.amazon.com/inspector/latest/user/what-is-inspector.html

NEW QUESTION 9
A company uses an organization in AWS Organizations to manage its AWS accounts. The company recently acquired another company that has standalone AWS accounts. The acquiring company's DevOps team needs to consolidate the administration of the AWS accounts for both companies and retain full administrative control of the accounts. The DevOps team also needs to collect and group findings across all the accounts to implement and maintain a security posture.
Which combination of steps should the DevOps team take to meet these requirements? (Select TWO.)
A. Invite the acquired company's AWS accounts to join the organizatio
B. Create an SCP that has full administrative privilege
C. Attach the SCP to the management account.
D. Invite the acquired company's AWS accounts to join the organizatio
E. Create the OrganizationAccountAccessRole 1AM role in the invited account
F. Grant permission to the management account to assume the role.
G. Use AWS Security Hub to collect and group findings across all account
H. Use Security Hub to automatically detect new accounts as the accounts are added to the organization.
I. Use AWS Firewall Manager to collect and group findings across all account
J. Enable all features for the organizatio
K. Designate an account in the organization as the delegated administrator account for Firewall Manager.
L. Use Amazon Inspector to collect and group findings across all account
M. Designate an account in the organization as the delegated administrator account for Amazon Inspector.

Answer: BC

Explanation:
The correct answer is B and C. Option B is correct because inviting the acquired company’s AWS accounts to join the organization and creating the OrganizationAccountAccessRole IAM role in the invited accounts allows the management account to assume the role and gain full administrative access to the member accounts. Option C is correct because using AWS Security Hub to collect and group findings across all accounts enables the DevOps team to monitor and improve the security posture of the organization. Security Hub can automatically detect new accounts as the accounts are added to the organization and enable Security Hub for them. Option A is incorrect because creating an SCP that has full administrative privileges and attaching it to the management account does not grant the management account access to the member accounts. SCPs are used to restrict the permissions of the member accounts, not to grant permissions to the management account. Option D is incorrect because using AWS Firewall Manager to collect and group findings across all accounts is not a valid use case for Firewall Manager. Firewall Manager is used to centrally configure and manage firewall rules across the organization, not to collect and group security findings. Option E is incorrect because using Amazon Inspector to collect and group findings across all accounts is not a valid use case for Amazon Inspector. Amazon Inspector is used to assess the security and compliance of applications running on Amazon EC2 instances, not to collect and group security

findings across accounts. References:
? Inviting an AWS account to join your organization
? Enabling and disabling AWS Security Hub
? Service control policies
? AWS Firewall Manager
? Amazon Inspector

NEW QUESTION 10
A company is testing a web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Auto Scaling group across multiple Availability Zones. The company uses a blue green deployment process with immutable instances when deploying new software.
During testing users are being automatically logged out of the application at random times. Testers also report that when a new version of the application is deployed all users are logged out. The development team needs a solution to ensure users remain logged m across scaling events and application deployments.
What is the MOST operationally efficient way to ensure users remain logged in?

A. Enable smart sessions on the load balancer and modify the application to check tor an existing session.
B. Enable session sharing on the toad balancer and modify the application to read from the session store.
C. Store user session information in an Amazon S3 bucket and modify the application to read session information from the bucket.
D. Modify the application to store user session information in an Amazon ElastiCache cluster.

Answer: D

Explanation:
https://aws.amazon.com/caching/session-management/

NEW QUESTION 10
A company has deployed an application in a production VPC in a single AWS account. The application is popular and is experiencing heavy usage. The company's security team wants to add additional security, such as AWS WAF, to the application deployment. However, the application's product manager is concerned about cost and does not want to approve the change unless the security team can prove that additional security is necessary.
The security team believes that some of the application's demand might come from users that have IP addresses that are on a deny list. The security team provides the deny list to a DevOps engineer. If any of the IP addresses on the deny list access the application, the security team wants to receive automated notification in near real time so that the security team can document that the application needs additional security. The DevOps engineer creates a VPC flow log for the production VPC.
Which set of additional steps should the DevOps engineer take to meet these requirements MOST cost-effectively?

A. Create a log group in Amazon CloudWatch Log
B. Configure the VPC flow log to capture accepted traffic and to send the data to the log grou
C. Create an Amazon CloudWatch metric filter for IP addresses on the deny lis
D. Create a CloudWatch alarm with the metric filter as inpu
E. Set the period to 5 minutes and the datapoints to alarm to 1. Use an Amazon Simple Notification Service (Amazon SNS) topic to send alarm notices to the security team.
F. Create an Amazon S3 bucket for log file
G. Configure the VPC flow log to capture all traffic and to send the data to the S3 bucke
H. Configure Amazon Athena to return all log files in the S3 bucket for IP addresses on the deny lis
I. Configure Amazon QuickSight to accept data from Athena and to publish the data as a dashboard that the security team can acces
J. Create a threshold alert of 1 for successful acces
K. Configure the alert to automatically notify the security team as frequently as possible when the alert threshold is met.
L. Create an Amazon S3 bucket for log file
M. Configure the VPC flow log to capture accepted traffic and to send the data to the S3 bucke
N. Configure an Amazon OpenSearch Service cluster and domain for the log file
O. Create an AWS Lambda function to retrieve the logs from the S3 bucket, format the logs, and load the logs into the OpenSearch Service cluste
P. Schedule the Lambda function to run every 5 minute
Q. Configure an alert and condition in OpenSearch Service to send alerts to the security team through an Amazon Simple Notification Service (Amazon SNS) topic when access from the IP addresses on the deny list is detected.
R. Create a log group in Amazon CloudWatch Log
S. Create an Amazon S3 bucket to hold query result
T. Configure the VPC flow log to capture all traffic and to send the data to the log grou
. Deploy an Amazon Athena CloudWatch connector in AWS Lambd
. Connect the connector to the log grou
. Configure Athena to periodically query for all accepted traffic from the IP addresses on the deny list and to store the results in the S3 bucke
. Configure an S3 event notification to automatically notify the security team through an Amazon Simple Notification Service (Amazon SNS) topic when new objects are added to the S3 bucket.

Answer: A

NEW QUESTION 12
A company builds a container image in an AWS CodeBuild project by running Docker commands. After the container image is built, the CodeBuild project uploads the container image to an Amazon S3 bucket. The CodeBuild project has an 1AM service role that has permissions to access the S3 bucket.
A DevOps engineer needs to replace the S3 bucket with an Amazon Elastic Container Registry (Amazon ECR) repository to store the container images. The DevOps engineer creates an ECR private image repository in the same AWS Region of the CodeBuild project. The DevOps engineer adjusts the 1AM service role with the permissions that are necessary to work with the new ECR repository. The DevOps engineer also places new repository information into the docker build command and the docker push command that are used in the buildspec.yml file.
When the CodeBuild project runs a build job, the job fails when the job tries to access the ECR repository.
Which solution will resolve the issue of failed access to the ECR repository?

A. Update the buildspec.yml file to log in to the ECR repository by using the aws ecr get- login-password AWS CLI command to obtain an authentication toke
B. Update the docker login command to use the authentication token to access the ECR repository.
C. Add an environment variable of type SECRETS_MANAGER to the CodeBuild projec
D. In the environment variable, include the ARN of the CodeBuild project's lAM service rol
E. Update the buildspec.yml file to use the new environment variable to log in with the docker login command to access the ECR repository.
F. Update the ECR repository to be a public image repositor

G. Add an ECR repository policy that allows the 1AM service role to have access.
H. Update the buildspec.yml file to use the AWS CLI to assume the 1AM service role for ECR operation
I. Add an ECR repository policy that allows the 1AM service role to have access.

Answer: A

Explanation:
(A) When Docker communicates with an Amazon Elastic Container Registry (ECR) repository, it requires authentication. You can authenticate your Docker client to the Amazon ECR registry with the help of the AWS CLI (Command Line Interface). Specifically, you can use the "aws ecr get-login-password" command to get an authorization token and then use Docker's "docker login" command with that token to authenticate to the registry. You would need to perform these steps in your buildspec.yml file before attempting to push or pull images from/to the ECR repository.

NEW QUESTION 16
A company has configured an Amazon S3 event source on an AWS Lambda function The company needs the Lambda function to run when a new object is created or an existing object IS modified In a particular S3 bucket The Lambda function will use the S3 bucket name and the S3 object key of the incoming event to read the contents of the created or modified S3 object The Lambda function will parse the contents and save the parsed contents to an Amazon DynamoDB table. The Lambda function's execution role has permissions to read from the S3 bucket and to write to the DynamoDB table, During testing, a DevOps engineer discovers that the Lambda
function does not run when objects are added to the S3 bucket or when existing objects are modified.
Which solution will resolve this problem?

A. Increase the memory of the Lambda function to give the function the ability to process large files from the S3 bucket.
B. Create a resource policy on the Lambda function to grant Amazon S3 the permission to invoke the Lambda function for the S3 bucket
C. Configure an Amazon Simple Queue Service (Amazon SQS) queue as an OnFailure destination for the Lambda function
D. Provision space in the /tmp folder of the Lambda function to give the function the ability to process large files from the S3 bucket

Answer: B

Explanation:
? Option A is incorrect because increasing the memory of the Lambda function does not address the root cause of the problem, which is that the Lambda function is not triggered by the S3 event source. Increasing the memory of the Lambda function might improve its performance or reduce its execution time, but it does not affect its invocation. Moreover, increasing the memory of the Lambda function might incur higher costs, as Lambda charges based on the amount of memory allocated to the function.
? Option B is correct because creating a resource policy on the Lambda function to grant Amazon S3 the permission to invoke the Lambda function for the S3 bucket is a necessary step to configure an S3 event source. A resource policy is a JSON document that defines who can access a Lambda resource and under what conditions. By granting Amazon S3 permission to invoke the Lambda function, the company ensures that the Lambda function runs when a new object is created or an existing object is modified in the S3 bucket1.
? Option C is incorrect because configuring an Amazon Simple Queue Service (Amazon SQS) queue as an On-Failure destination for the Lambda function does not help with triggering the Lambda function. An On-Failure destination is a feature that allows Lambda to send events to another service, such as SQS or Amazon Simple Notification Service (Amazon SNS), when a function invocation fails. However, this feature only applies to asynchronous invocations, and S3 event sources use synchronous invocations. Therefore, configuring an SQS queue as an On-Failure destination would have no effect on the problem.
? Option D is incorrect because provisioning space in the /tmp folder of the Lambda function does not address the root cause of the problem, which is that the Lambda function is not triggered by the S3 event source. Provisioning space in the /tmp folder of the Lambda function might help with processing large files from the S3 bucket, as it provides temporary storage for up to 512 MB of data. However, it does not affect the invocation of the Lambda function.
References:
? Using AWS Lambda with Amazon S3
? Lambda resource access permissions
? AWS Lambda destinations
? [AWS Lambda file system]

NEW QUESTION 19
A company has an on-premises application that is written in Go. A DevOps engineer must move the application to AWS. The company's development team wants to enable blue/green deployments and perform A/B testing.
Which solution will meet these requirements?

A. Deploy the application on an Amazon EC2 instance, and create an AMI of the instanc
B. Use the AMI to create an automatic scaling launch configuration that is used in an Auto Scaling grou
C. Use Elastic Load Balancing to distribute traffi
D. When changes are made to the application, a new AMI will be created, which will initiate an EC2 instance refresh.
E. Use Amazon Lightsail to deploy the applicatio
F. Store the application in a zipped format in an Amazon S3 bucke
G. Use this zipped version to deploy new versions of the application to Lightsai
H. Use Lightsail deployment options to manage the deployment.
I. Use AWS CodeArtifact to store the application cod
J. Use AWS CodeDeploy to deploy the application to a fleet of Amazon EC2 instance
K. Use Elastic Load Balancing to distribute the traffic to the EC2 instance
L. When making changes to the application, upload a new version to CodeArtifact and create a new CodeDeploy deployment.
M. Use AWS Elastic Beanstalk to host the applicatio
N. Store a zipped version of the application in Amazon S3. Use that location to deploy new versions of the applicatio
O. Use Elastic Beanstalk to manage the deployment options.

Answer: D

Explanation:
https://aws.amazon.com/quickstart/architecture/blue-green-deployment/

NEW QUESTION 24
A company that uses electronic health records is running a fleet of Amazon EC2 instances with an Amazon Linux operating system. As part of patient privacy requirements, the company must ensure continuous compliance for patches for operating system and applications running on the EC2 instances.
How can the deployments of the operating system and application patches be automated using a default and custom repository?

A. Use AWS Systems Manager to create a new patch baseline including the custom repositor
B. Run the AWS-RunPatchBaseline document using the run command to verify and install patches.
C. Use AWS Direct Connect to integrate the corporate repository and deploy the patchesusing Amazon CloudWatch scheduled events, then use the CloudWatch dashboard to create reports.
D. Use yum-config-manager to add the custom repository under /etc/yum.repos.d and run yum-config-manager-enable to activate the repository.
E. Use AWS Systems Manager to create a new patch baseline including the corporate repositor
F. Run the AWS-AmazonLinuxDefaultPatchBaseline document using the run command to verify and install patches.

Answer: A

Explanation:
https://docs.aws.amazon.com/systems-manager/latest/userguide/patch-manager-how-it-works-alt-source-repository.html

NEW QUESTION 29
A company plans to use Amazon CloudWatch to monitor its Amazon EC2 instances. The company needs to stop EC2 instances when the average of the NetworkPacketsIn metric is less than 5 for at least 3 hours in a 12-hour time window. The company must evaluate the metric every hour. The EC2 instances must continue to run if there is missing data for the NetworkPacketsIn metric during the evaluation period.
A DevOps engineer creates a CloudWatch alarm for the NetworkPacketsIn metric. The DevOps engineer configures a threshold value of 5 and an evaluation period of 1 hour.
Which set of additional actions should the DevOps engineer take to meet these requirements?

A. Configure the Datapoints to Alarm value to be 3 out of 12. Configure the alarm to treat missing data as breaching the threshol
B. Add an AWS Systems Manager action to stop the instance when the alarm enters the ALARM state.
C. Configure the Datapoints to Alarm value to be 3 out of 12. Configure the alarm to treat missing data as not breaching the threshol
D. Add an EC2 action to stop the instance when the alarm enters the ALARM state.
E. Configure the Datapoints to Alarm value to be 9 out of 12. Configure the alarm to treat missing data as breaching the threshol
F. Add an EC2 action to stop the instance when the alarm enters the ALARM state.
G. Configure the Datapoints to Alarm value to be 9 out of 12. Configure the alarm to treat missing data as not breaching the threshol
H. Add an AWS Systems Manager action to stop the instance when the alarm enters the ALARM state.

Answer: B

Explanation:
To meet the requirements, the DevOps engineer needs to configure the CloudWatch alarm to stop the EC2 instances when the average of the NetworkPacketsIn metric is less than 5 for at least 3 hours in a 12-hour time window. This means that the alarm should trigger when 3 out of 12 datapoints are below the threshold of 5. The alarm should also treat missing data as not breaching the threshold, so that the EC2 instances continue to run if there is no data for the metric during the evaluation period. The DevOps engineer can add an EC2 action to stop the instance when the alarm enters the ALARM state, which is a built-in action type for CloudWatch alarms.

NEW QUESTION 34
A company is using AWS CodePipeline to automate its release pipeline. AWS CodeDeploy is being used in the pipeline to deploy an application to Amazon Elastic Container Service (Amazon ECS) using the blue/green deployment model. The company wants to implement scripts to test the green version of the application before shifting traffic. These scripts will complete in 5 minutes or less. If errors are discovered during these tests, the application must be rolled back.
Which strategy will meet these requirements?

A. Add a stage to the CodePipeline pipeline between the source and deploy stage
B. Use AWS CodeBuild to create a runtime environment and build commands in the buildspec file to invoke test script
C. If errors are found, use the aws deploy stop-deployment command to stop the deployment.
D. Add a stage to the CodePipeline pipeline between the source and deploy stage
E. Use this stage to invoke an AWS Lambda function that will run the test script
F. If errors are found, use the aws deploy stop-deployment command to stop the deployment.
G. Add a hooks section to the CodeDeploy AppSpec fil
H. Use the AfterAllowTestTraffic lifecycle event to invoke an AWS Lambda function to run the test script
I. If errors are found, exit the Lambda function with an error to initiate rollback.
J. Add a hooks section to the CodeDeploy AppSpec fil
K. Use the AfterAllowTraffic lifecycle event to invoke the test script
L. If errors are found, use the aws deploy stop-deployment CLI command to stop the deployment.

Answer: C

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

NEW QUESTION 36
A company’s security team requires that all external Application Load Balancers (ALBs) and Amazon API Gateway APIs are associated with AWS WAF web ACLs. The company
has hundreds of AWS accounts, all of which are included in a single organization in AWS Organizations. The company has configured AWS Config for the organization. During an audit, the company finds some externally facing ALBs that are not associated with AWS WAF web ACLs.
Which combination of steps should a DevOps engineer take to prevent future violations? (Choose two.)

A. Delegate AWS Firewall Manager to a security account.
B. Delegate Amazon GuardDuty to a security account.
C. Create an AWS Firewall Manager policy to attach AWS WAF web ACLs to any newly created ALBs and API Gateway APIs.
D. Create an Amazon GuardDuty policy to attach AWS WAF web ACLs to any newly created ALBs and API Gateway APIs.
E. Configure an AWS Config managed rule to attach AWS WAF web ACLs to any newly created ALBs and API Gateway APIs.

Answer: AC

Explanation:
If instead you want to automatically apply the policy to existing in-scope resources, choose Auto remediate any noncompliant resources. This option creates a

web ACL in each applicable account within the AWS organization and associates the web ACL with the resources in the accounts. When you choose Auto remediate any noncompliant resources, you can also choose to remove existing web ACL associations from in-scope resources, for the web ACLs that aren't managed by another active Firewall Manager policy. If you choose this option, Firewall Manager first associates the policy's web ACL with the resources, and then removes the prior associations. If a resource has an association with another web ACL that's managed by a different active Firewall Manager policy, this choice doesn't affect that association.

NEW QUESTION 41
A company uses AWS Directory Service for Microsoft Active Directory as its identity provider (IdP). The company requires all infrastructure to be defined and deployed by AWS CloudFormation.
A DevOps engineer needs to create a fleet of Windows-based Amazon EC2 instances to host an application. The DevOps engineer has created a CloudFormation template that contains an EC2 launch template, IAM role, EC2 security group, and EC2 Auto Scaling group. The DevOps engineer must implement a solution that joins all EC2 instances to the domain of the AWS Managed Microsoft AD directory.
Which solution will meet these requirements with the MOST operational efficiency?

A. In the CloudFormation template, create an AWS::SSM::Document resource that joins the EC2 instance to the AWS Managed Microsoft AD domain by using the parameters for the existing director
B. Update the launch template to include the SSMAssociation property to use the new SSM documen
C. Attach the AmazonSSMManagedInstanceCore and AmazonSSMDirectoryServiceAccess AWS managed policies to the IAM role that the EC2 instances use.
D. In the CloudFormation template, update the launch template to include specific tags that propagate on launc
E. Create an AWS::SSM::Association resource to associate the AWS- JoinDirectoryServiceDomain Automation runbook with the EC2 instances that have the specified tag
F. Define the required parameters to join the AWS Managed Microsoft AD director
G. Attach the AmazonSSMManagedInstanceCore and AmazonSSMDirectoryServiceAccess AWS managed policies to the IAM role that the EC2 instances use.
H. Store the existing AWS Managed Microsoft AD domain connection details in AWS Secrets Manage
I. In the CloudFormation template, create an AWS::SSM::Association resource to associate the AWS-CreateManagedWindowsInstanceWithApproval Automation runbook with the EC2 Auto Scaling grou
J. Pass the ARNs for the parameters from Secrets Manager to join the domai
K. Attach the AmazonSSMDirectoryServiceAccess and SecretsManagerReadWrite AWS managed policies to the IAM role that the EC2 instances use.
L. Store the existing AWS Managed Microsoft AD domain administrator credentials in AWS Secrets Manage
M. In the CloudFormation template, update the EC2 launch template to include user dat
N. Configure the user data to pull the administrator credentials from Secrets Manager and to join the AWS Managed Microsoft AD domai
O. Attach the AmazonSSMManagedInstanceCore and SecretsManagerReadWrite AWS managed policies to the IAM role that the EC2 instances use.

Answer: B

Explanation:
To meet the requirements, the DevOps engineer needs to create a solution that joins all EC2 instances to the domain of the AWS Managed Microsoft AD directory with the most operational efficiency. The DevOps engineer can use AWS Systems Manager Automation to automate the domain join process using an existing runbook called AWS- JoinDirectoryServiceDomain. This runbook can join Windows instances to an AWS Managed Microsoft AD or Simple AD directory by using PowerShell commands. The DevOps engineer can create an AWS::SSM::Association resource in the CloudFormation template to associate the runbook with the EC2 instances that have specific tags. The tags can be defined in the launch template and propagated on launch to the EC2 instances. The DevOps engineer can also define the required parameters for the runbook, such as the directory ID, directory name, and organizational unit. The DevOps engineer can attach the AmazonSSMManagedInstanceCore and AmazonSSMDirectoryServiceAccess AWS managed policies to the IAM role that the EC2 instances use. These policies grant the necessary permissions for Systems Manager and Directory Service operations.

NEW QUESTION 46
A company needs to implement failover for its application. The application includes an Amazon CloudFront distribution and a public Application Load Balancer (ALB) in an AWS Region. The company has configured the ALB as the default origin for the distribution.
After some recent application outages, the company wants a zero-second RTO. The company deploys the application to a secondary Region in a warm standby configuration. A DevOps engineer needs to automate the failover of the application to the secondary Region so that HTTP GET requests meet the desired RTO.
Which solution will meet these requirements?

A. Create a second CloudFront distribution that has the secondary ALB as the default origi
B. Create Amazon Route 53 alias records that have a failover policy and Evaluate Target Health set to Yes for both CloudFront distribution
C. Update the application to use the new record set.
D. Create a new origin on the distribution for the secondary AL
E. Create a new origin grou
F. Set the original ALB as the primary origi
G. Configure the origin group to fail over for HTTP 5xx status code
H. Update the default behavior to use the origin group.
I. Create Amazon Route 53 alias records that have a failover policy and Evaluate TargetHealth set to Yes for both ALB
J. Set the TTL of both records to 0. Update the distribution's origin to use the new record set.
K. Create a CloudFront function that detects HTTP 5xx status code
L. Configure the function to return a 307 Temporary Redirect error response to the secondary ALB if the function detects 5xx status code
M. Update the distribution's default behavior to send origin responses to the function.

Answer: B

Explanation:
The best solution to implement failover for the application is to use CloudFront origin groups. Origin groups allow CloudFront to automatically switch to a secondary origin when the primary origin is unavailable or returns specific HTTP status codes that indicate a failure1. This way, CloudFront can serve the requests from the secondary ALB in the secondary Region without any delay or redirection. To set up origin groups, the DevOps engineer needs to create a new origin on the distribution for the secondary ALB, create a new origin group with the original ALB as the primary origin and the secondary ALB as the secondary origin, and configure the origin group to fail over for HTTP 5xx status
codes. Then, the DevOps engineer needs to update the default behavior to use the origin group instead of the single origin2.
The other options are not as effective or efficient as the solution in option B. Option A is not suitable because creating a second CloudFront distribution will increase the complexity and cost of the application. Moreover, using Route 53 alias records with a failover policy will introduce some delay in detecting and switching to the secondary CloudFront distribution, which may not meet the zero-second RTO requirement. Option C is not feasible because CloudFront does not support using Route 53 alias records as origins3. Option D is not advisable because using a CloudFront function to redirect the requests to the secondary ALB will add an extra round-trip and latency to the failover process, which may also not meet the zero-second RTO requirement.
References:

? 1: Optimizing high availability with CloudFront origin failover - Amazon CloudFront
? 2: Creating an origin group - Amazon CloudFront
? 3: Values That You Specify When You Create or Update a Web Distribution - Amazon CloudFront

NEW QUESTION 49
A company is hosting a static website from an Amazon S3 bucket. The website is available to customers at example.com. The company uses an Amazon Route 53 weighted routing policy with a TTL of 1 day. The company has decided to replace the existing static website with a dynamic web application. The dynamic web application uses an Application Load Balancer (ALB) in front of a fleet of Amazon EC2 instances.
On the day of production launch to customers, the company creates an additional Route 53 weighted DNS record entry that points to the ALB with a weight of 255 and a TTL of 1 hour. Two days later, a DevOps engineer notices that the previous static website is displayed sometimes when customers navigate to example.com.
How can the DevOps engineer ensure that the company serves only dynamic content for example.com?

A. Delete all objects, including previous versions, from the S3 bucket that contains the static website content.
B. Update the weighted DNS record entry that points to the S3 bucke
C. Apply a weight of 0. Specify the domain reset option to propagate changes immediately.
D. Configure webpage redirect requests on the S3 bucket with a hostname that redirects to the ALB.
E. Remove the weighted DNS record entry that points to the S3 bucket from the example.com hosted zon
F. Wait for DNS propagation to become complete.

Answer: D

NEW QUESTION 51
A company is divided into teams Each team has an AWS account and all the accounts are in an organization in AWS Organizations. Each team must retain full administrative rights to its AWS account. Each team also must be allowed to access only AWS services that the company approves for use AWS services must gam approval through a request and approval process.
How should a DevOps engineer configure the accounts to meet these requirements?

A. Use AWS CloudFormation StackSets to provision IAM policies in each account to deny access to restricted AWS service
B. In each account configure AWS Config rules that ensure that the policies are attached to IAM principals in the account.
C. Use AWS Control Tower to provision the accounts into OUs within the organization Configure AWS Control Tower to enable AWS IAM identity Center (AWS Single Sign-On). Configure 1AM Identity Center to provide administrative access Include deny policies on user roles for restricted AWS services.
D. Place all the accounts under a new top-level OU within the organization Create an SCP that denies access to restricted AWS services Attach the SCP to the OU.
E. Create an SCP that allows access to only approved AWS service
F. Attach the SCP to the root OU of the organizatio
G. Remove the FullAWSAccess SCP from the root OU of the organization.

Answer: C

Explanation:
https://docs.aws.amazon.com/vpc/latest/userguide/managed-prefix-lists.html A managed prefix list is a set of one or more CIDR blocks. You can use prefix lists to make it easier to configure and maintain your security groups and route tables. https://docs.aws.amazon.com/vpc/latest/userguide/sharing-managed-prefix-lists.html With AWS Resource Access Manager (AWS RAM), the owner of a prefix list can share a prefix list with the following: Specific AWS accounts inside or outside of its organization in AWS Organizations An organizational unit inside its organization in AWS Organizations An entire organization in AWS Organizations

NEW QUESTION 55
A company has an application that includes AWS Lambda functions. The Lambda functions run Python code that is stored in an AWS CodeCommit repository. The company has recently experienced failures in the production environment because of an error in the Python code. An engineer has written unit tests for the Lambda functions to help avoid releasing any future defects into the production environment.
The company's DevOps team needs to implement a solution to integrate the unit tests into an existing AWS CodePipeline pipeline. The solution must produce reports about the unit tests for the company to view.
Which solution will meet these requirements?

A. Associate the CodeCommit repository with Amazon CodeGuru Reviewe
B. Create a new AWS CodeBuild projec
C. In the CodePipeline pipeline, configure a test stage that uses the new CodeBuild projec
D. Create a buildspec.yml file in the CodeCommit repositor
E. In the buildspec.yml file, define the actions to run a CodeGuru review.
F. Create a new AWS CodeBuild projec
G. In the CodePipeline pipeline, configure a test stage that uses the new CodeBuild projec
H. Create a CodeBuild report grou
I. Create a buildspec.yml file in the CodeCommit repositor
J. In the buildspec.yml file, define the actions to run the unit tests with an output of JUNITXML in the build phase section.Configure the test reports to be uploaded to the new CodeBuild report group.
K. Create a new AWS CodeArtifact repositor
L. Create a new AWS CodeBuild projec
M. In the CodePipeline pipeline, configure a test stage that uses the new CodeBuild projec
N. Create an appspec.yml file in the original CodeCommit repositor
O. In the appspec.yml file, define the actions to run the unit tests with an output of CUCUMBERJSON in the build phase sectio
P. Configure the tests reports to be sent to the new CodeArtifact repository.
Q. Create a new AWS CodeBuild projec
R. In the CodePipeline pipeline, configure a test stage that uses the new CodeBuild projec
S. Create a new Amazon S3 bucke
T. Create a buildspec.yml file in the CodeCommit repositor
. In the buildspec.yml file, define the actions to run the unit tests with an output of HTML in the phases sectio
. In the reports section, upload the test reports to the S3 bucket.

Answer: B

Explanation:
The correct answer is B. Creating a new AWS CodeBuild project and configuring a test stage in the AWS CodePipeline pipeline that uses the new CodeBuild project is the best way to integrate the unit tests into the existing pipeline. Creating a CodeBuild report group and uploading the test reports to the new CodeBuild report group will produce reports about the unit tests for the company to view. Using JUNITXML as the output format for the unit tests is supported by CodeBuild and will generate a valid report. Option A is incorrect because Amazon CodeGuru Reviewer is a service that provides automated code reviews and recommendations for improving code quality and performance. It is not a tool for running unit tests or producing test reports. Therefore, option A will not meet the requirements.
Option C is incorrect because AWS CodeArtifact is a service that provides secure, scalable, and cost-effective artifact management for software development. It is not a tool for running unit tests or producing test reports. Moreover, option C uses CUCUMBERJSON as the output format for the unit tests, which is not supported by CodeBuild and will not generate a valid report.
Option D is incorrect because uploading the test reports to an Amazon S3 bucket is not the best way to produce reports about the unit tests for the company to view. CodeBuild has a built-in feature to create and manage test reports, which is more convenient and efficient than using S3. Furthermore, option D uses HTML as the output format for the unit tests, which is not supported by CodeBuild and will not generate a valid report.

NEW QUESTION 57
A DevOps engineer manages a web application that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an EC2 Auto Scaling group across multiple Availability Zones. The engineer needs to implement a deployment strategy that:
Launches a second fleet of instances with the same capacity as the original fleet. Maintains the original fleet unchanged while the second fleet is launched.
Transitions traffic to the second fleet when the second fleet is fully deployed. Terminates the original fleet automatically 1 hour after transition.
Which solution will satisfy these requirements?

A. Use an AWS CloudFormation template with a retention policy for the ALB set to 1 hou
B. Update the Amazon Route 53 record to reflect the new ALB.
C. Use two AWS Elastic Beanstalk environments to perform a blue/green deployment from the original environment to the new on
D. Create an application version lifecycle policy to terminate the original environment in 1 hour.
E. Use AWS CodeDeploy with a deployment group configured with a blue/green deployment configuration Select the option Terminate the original instances in the deployment group with a waiting period of 1 hour.
F. Use AWS Elastic Beanstalk with the configuration set to Immutabl
G. Create an.ebextension using the Resources key that sets the deletion policy of the ALB to 1 hour, and deploy the application.

Answer: C

Explanation:
https://docs.aws.amazon.com/codedeploy/latest/APIReference/API_BlueInstanceTerminati onOption.html
The original revision termination settings are configured to wait 1 hour after traffic has been rerouted before terminating the blue task set.
https://docs.aws.amazon.com/AmazonECS/latest/developerguide/deployment-type- bluegreen.html

NEW QUESTION 62
A company updated the AWS Cloud Formation template for a critical business application. The stack update process failed due to an error in the updated template and AWS CloudFormation automatically began the stack rollback process Later a DevOps engineer discovered that the application was still unavailable and that the stack was in the UPDATE_ROLLBACK_FAILED state.
Which combination of actions should the DevOps engineer perform so that the stack rollback can complete successfully? (Select TWO.)

A. Attach the AWSC loud Formation FullAccess IAM policy to the AWS CtoudFormation role.
B. Automatically recover the stack resources by using AWS CloudFormation drift detection.
C. Issue a ContinueUpdateRollback command from the AWS CloudFormation console or the AWS CLI.
D. Manually adjust the resources to match the expectations of the stack.
E. Update the existing AWS CloudFormation stack by using the original template.

Answer: CD

Explanation:
https://docs.aws.amazon.com/cli/latest/reference/cloudformation/continue- update-rollback.html For a specified stack that is in the UPDATE_ROLLBACK_FAILED state, continues rolling it back to the UPDATE_ROLLBACK_COMPLETE state. Depending on the cause of the failure, you can manually fix the error and continue the rollback. By continuing the rollback, you can return your stack to a working state (the UPDATE_ROLLBACK_COMPLETE state), and then try to update the stack again.

NEW QUESTION 63
A global company manages multiple AWS accounts by using AWS Control Tower. The company hosts internal applications and public applications.
Each application team in the company has its own AWS account for application hosting. The accounts are consolidated in an organization in AWS Organizations.
One of the AWS Control Tower member accounts serves as a centralized DevOps account with CI/CD pipelines that application teams use to deploy applications to their respective target AWS accounts. An 1AM role for deployment exists in the centralized DevOps account.
An application team is attempting to deploy its application to an Amazon Elastic Kubernetes Service (Amazon EKS) cluster in an application AWS account. An 1AM role for deployment exists in the application AWS account. The deployment is through an AWS CodeBuild project that is set up in the centralized DevOps account. The CodeBuild project uses an 1AM service role for CodeBuild. The deployment is failing with an Unauthorized error during attempts to connect to the cross-account EKS cluster from CodeBuild.
Which solution will resolve this error?

A. Configure the application account's deployment 1AM role to have a trust relationship with the centralized DevOps accoun
B. Configure the trust relationship to allow the sts:AssumeRole actio
C. Configure the application account's deployment 1AM role to have the required access to the EKS cluste
D. Configure the EKS cluster aws-auth ConfigMap to map the role to the appropriate system permissions.
E. Configure the centralized DevOps account's deployment I AM role to have a trust relationship with the application accoun
F. Configure the trust relationship to allow the sts:AssumeRole actio
G. Configure the centralized DevOps account's deployment 1AM role to allow the required access to CodeBuild.
H. Configure the centralized DevOps account's deployment 1AM role to have a trust relationship with the application accoun
I. Configure the trust relationship to allow the sts:AssumeRoleWithSAML actio
J. Configure the centralized DevOps account's deployment 1AM role to allow the required access to CodeBuild.
K. Configure the application account's deployment 1AM role to have a trust relationship with the AWS Control Tower management accoun
L. Configure the trust relationship to allow the sts:AssumeRole actio

M. Configure the application account's deployment 1AM role to have the required access to the EKS cluste
N. Configure the EKS cluster aws-auth ConfigMap to map the role to the appropriate system permissions.

Answer: A

Explanation:
In the source AWS account, the IAM role used by the CI/CD pipeline should have permissions to access the source code repository, build artifacts, and any other resources required for the build process. In the destination AWS accounts, the IAM role used for deployment should have permissions to access the AWS resources required for deploying the application, such as EC2 instances, RDS databases, S3 buckets, etc. The exact permissions required will depend on the specific resources being used by the application. the IAM role used for deployment in the destination accounts should also have permissions to assume the IAM role for deployment in the centralized DevOps account. This is typically done using an IAM role trust policy that allows the destination account to assume the DevOps account role.

NEW QUESTION 66
An online retail company based in the United States plans to expand its operations to Europe and Asia in the next six months. Its product currently runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. All data is stored in an Amazon Aurora database instance.
When the product is deployed in multiple regions, the company wants a single product catalog across all regions, but for compliance purposes, its customer information and purchases must be kept in each region.
How should the company meet these requirements with the LEAST amount of application changes?

A. Use Amazon Redshift for the product catalog and Amazon DynamoDB tables for the customer information and purchases.
B. Use Amazon DynamoDB global tables for the product catalog and regional tables for the customer information and purchases.
C. Use Aurora with read replicas for the product catalog and additional local Aurora instances in each region for the customer information and purchases.
D. Use Aurora for the product catalog and Amazon DynamoDB global tables for the customer information and purchases.

Answer: C

NEW QUESTION 68
AnyCompany is using AWS Organizations to create and manage multiple AWS accounts AnyCompany recently acquired a smaller company, Example Corp. During the acquisition process, Example Corp's single AWS account joined AnyCompany's management account through an Organizations invitation. AnyCompany moved the new member account under an OU that is dedicated to Example Corp.
AnyCompany's DevOps eng•neer has an IAM user that assumes a role that is named OrganizationAccountAccessRole to access member accounts. This role is configured with a full access policy When the DevOps engineer tries to use the AWS Management Console to assume the role in Example Corp's new member account, the DevOps engineer receives the following error message "Invalid information in one or more fields. Check your information or contact your administrator."
Which solution will give the DevOps engineer access to the new member account?

A. In the management account, grant the DevOps engineer's IAM user permission to assume the OrganzatlonAccountAccessR01e IAM role in the new member account.
B. In the management account, create a new SCR In the SCP, grant the DevOps engineer's IAM user full access to all resources in the new member accoun
C. Attach the SCP to the OU that contains the new member account,
D. In the new member account, create a new IAM role that is named OrganizationAccountAccessRol
E. Attach the AdmInistratorAccess AVVS managed policy to the rol
F. In the role's trust policy, grant the management account permission to assume the role.
G. In the new member account edit the trust policy for the Organ zationAccountAccessRole IAM rol
H. Grant the management account permission to assume the role.

Answer: C

Explanation:
The problem is that the DevOps engineer cannot assume the OrganizationAccountAccessRole IAM role in the new member account that joined AnyCompany’s management account through an Organizations invitation. The solution is to create a new IAM role with the same name and trust policy in the new member account.
? Option A is incorrect, as it does not address the root cause of the error. The DevOps engineer’s IAM user already has permission to assume the OrganizationAccountAccessRole IAM role in any member account, as this is the default role name that AWS Organizations creates when a new account joins an organization. The error occurs because the new member account does not have this role, as it was not created by AWS Organizations.
? Option B is incorrect, as it does not address the root cause of the error. An SCP is a policy that defines the maximum permissions for account members of an organization or organizational unit (OU). An SCP does not grant permissions to IAM users or roles, but rather limits the permissions that identity-based policies or resource-based policies grant to them. An SCP also does not affect how IAM roles are assumed by other principals.
? Option C is correct, as it addresses the root cause of the error. By creating a new IAM role with the same name and trust policy as the OrganizationAccountAccessRole IAM role in the new member account, the DevOps engineer can assume this role and access the account. The new role should have the AdministratorAccess AWS managed policy attached, which grants full access to all AWS resources in the account. The trust policy should allow the management account to assume the role, which can be done by specifying the management account ID as a principal in the policy statement.
? Option D is incorrect, as it assumes that the new member account already has the OrganizationAccountAccessRole IAM role, which is not true. The new member account does not have this role, as it was not created by AWS Organizations. Editing the trust policy of a non-existent role will not solve the problem.

NEW QUESTION 73
A company builds a container image in an AWS CodeBuild project by running Docker commands. After the container image is built, the CodeBuild project uploads the container image to an Amazon S3 bucket. The CodeBuild project has an IAM service role that has permissions to access the S3 bucket.
A DevOps engineer needs to replace the S3 bucket with an Amazon Elastic Container Registry (Amazon ECR) repository to store the container images. The DevOps engineer creates an ECR private image repository in the same AWS Region of the CodeBuild project. The DevOps engineer adjusts the IAM service role with the permissions that are necessary to work with the new ECR repository. The DevOps engineer also places
new repository information into the docker build command and the docker push command that are used in the buildspec.yml file.
When the CodeBuild project runs a build job, the job fails when the job tries to access the ECR repository.
Which solution will resolve the issue of failed access to the ECR repository?

A. Update the buildspec.yml file to log in to the ECR repository by using the aws ecr get- login-password AWS CLI command to obtain an authentication toke
B. Update the docker login command to use the authentication token to access the ECR repository.
C. Add an environment variable of type SECRETS_MANAGER to the CodeBuild projec

D. In the environment variable, include the ARN of the CodeBuild project's IAM service rol
E. Update the buildspec.yml file to use the new environment variable to log in with the docker login command to access the ECR repository.
F. Update the ECR repository to be a public image repositor
G. Add an ECR repository policy that allows the IAM service role to have access.
H. Update the buildspec.yml file to use the AWS CLI to assume the IAM service role for ECR operation
I. Add an ECR repository policy that allows the IAM service role to have access.

Answer: A

Explanation:
Update the buildspec.yml file to log in to the ECR repository by using the aws ecr get-login- password AWS CLI command to obtain an authentica-tion token.
Update the docker login command to use the authentication token to access the ECR repository.
This is the correct solution. The aws ecr get-login-password AWS CLI command retrieves and displays an authentication token that can be used to log in to an ECR repository. The docker login command can use this token as a password to authenticate with the ECR repository. This way, the CodeBuild project can push and pull images from the ECR repository without any errors. For more information, see Using Amazon ECR with the AWS CLI and get-login-password.

NEW QUESTION 76
A development team wants to use AWS CloudFormation stacks to deploy an application. However, the developer IAM role does not have the required permissions to provision the resources that are specified in the AWS CloudFormation template. A DevOps engineer needs to implement a solution that allows the developers to deploy the stacks. The solution must follow the principle of least privilege.
Which solution will meet these requirements?

A. Create an IAM policy that allows the developers to provision the required resource
B. Attach the policy to the developer IAM role.
C. Create an IAM policy that allows full access to AWS CloudFormatio
D. Attach the policy to the developer IAM role.
E. Create an AWS CloudFormation service role that has the required permission
F. Grant the developer IAM role a cloudformation:* actio
G. Use the new service role during stack deployments.
H. Create an AWS CloudFormation service role that has the required permission
I. Grant the developer IAM role the iam:PassRole permissio
J. Use the new service role during stack deployments.

Answer: D

Explanation:
https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/using-iam-servicerole.html

NEW QUESTION 79
A company has a single AWS account that runs hundreds of Amazon EC2 instances in a single AWS Region. New EC2 instances are launched and terminated each hour in the account. The account also includes existing EC2 instances that have been running for longer than a week.
The company's security policy requires all running EC2 instances to use an EC2 instance profile. If an EC2 instance does not have an instance profile attached, the EC2 instance must use a default instance profile that has no IAM permissions assigned.
A DevOps engineer reviews the account and discovers EC2 instances that are running without an instance profile. During the review, the DevOps engineer also observes that new EC2 instances are being launched without an instance profile.
Which solution will ensure that an instance profile is attached to all existing and future EC2 instances in the Region?

A. Configure an Amazon EventBridge rule that reacts to EC2 RunInstances API call
B. Configure the rule to invoke an AWS Lambda function to attach the default instance profile to the EC2 instances.
C. Configure the ec2-instance-profile-attached AWS Config managed rule with a trigger type of configuration change
D. Configure an automatic remediation action that invokes an AWS Systems Manager Automation runbook to attach the default instance profile to the EC2 instances.
E. Configure an Amazon EventBridge rule that reacts to EC2 StartInstances API call
F. Configure the rule to invoke an AWS Systems Manager Automation runbook to attach the default instance profile to the EC2 instances.
G. Configure the iam-role-managed-policy-check AWS Config managed rule with a trigger type of configuration change
H. Configure an automatic remediation action that invokes an AWS Lambda function to attach the default instance profile to the EC2 instances.

Answer: B

Explanation:
https://docs.aws.amazon.com/config/latest/developerguide/ec2-instance-profile-attached.html

NEW QUESTION 82
A company wants to use a grid system for a proprietary enterprise m-memory data store on top of AWS. This system can run in multiple server nodes in any Linux-based distribution. The system must be able to reconfigure the entire cluster every time a node is added or removed. When adding or removing nodes an /etc./cluster/nodes config file must be updated listing the IP addresses of the current node members of that cluster.
The company wants to automate the task of adding new nodes to a cluster. What can a DevOps engineer do to meet these requirements?

A. Use AWS OpsWorks Stacks to layer the server nodes of that cluste
B. Create a Chef recipe that populates the content of the 'etc./cluster/nodes config file and restarts the service by using the current members of the laye
C. Assign that recipe to the Configure lifecycle event.
D. Put the file nodes config in version contro
E. Create an AWS CodeDeploy deployment configuration and deployment group based on an Amazon EC2 tag value for thecluster node
F. When adding a new node to the cluster update the file with all tagged instances and make a commit in version contro
G. Deploy the new file and restart the services.
H. Create an Amazon S3 bucket and upload a version of the /etc./cluster/nodes config file Create a crontab script that will poll for that S3 file and download it frequentl
I. Use a process manager such as Monit or system, to restart the cluster services when it detects that the new file was modifie
J. When adding a node to the cluster edit the file's most recent members Upload the new file to the S3 bucket.
K. Create a user data script that lists all members of the current security group of the cluster and automatically updates the /etc/cluster/. nodes confi

L. Tile whenever a new instance is added to the cluster.

Answer: A

Explanation:
You can run custom recipes manually, but the best approach is usually to have AWS OpsWorks Stacks run them automatically. Every layer has a set of built-in recipes assigned each of five lifecycle events—Setup, Configure, Deploy, Undeploy, and Shutdown. Each time an event occurs for an instance, AWS OpsWorks Stacks runs the associated recipes for each of the instance's layers, which handle the corresponding tasks. For example, when an instance finishes booting, AWS OpsWorks Stacks triggers a Setup event. This event runs the associated layer's Setup recipes, which typically handle tasks such as installing and configuring packages

NEW QUESTION 83
An ecommerce company has chosen AWS to host its new platform. The company's DevOps team has started building an AWS Control Tower landing zone. The DevOps team has set the identity store within AWS IAM Identity Center (AWS Single Sign-On) to external identity provider (IdP) and has configured SAML 2.0. The DevOps team wants a robust permission model that applies the principle of least privilege. The model must allow the team to build and manage only the team's own resources.
Which combination of steps will meet these requirements? (Choose three.)

A. Create IAM policies that include the required permission
B. Include the aws:PrincipalTag condition key.
C. Create permission set
D. Attach an inline policy that includes the required permissions and uses the aws:PrincipalTag condition key to scope the permissions.
E. Create a group in the Id
F. Place users in the grou
G. Assign the group to accounts and the permission sets in IAM Identity Center.
H. Create a group in the Id
I. Place users in the grou
J. Assign the group to OUs and IAM policies.
K. Enable attributes for access control in IAM Identity Cente
L. Apply tags to user
M. Map the tags as key-value pairs.
N. Enable attributes for access control in IAM Identity Cente
O. Map attributes from the IdP as key-value pairs.

Answer: BCF

Explanation:
Using the principalTag in the Permission Set inline policy a logged in user belonging to a specific AD group in the IDP can be permitted access to perform operations on certain resources if their group matches the group used in the PrincipleTag. Basically you are narrowing the scope of privileges assigned via Permission policies conditionally based on whether the logged in user belongs to a specific AD Group in IDP. The mapping of the AD group to the request attributes can be done using SSO attributes where we can pass other attributes like the SAML token as well.
https://docs.aws.amazon.com/singlesignon/latest/userguide/abac.html

NEW QUESTION 88
A company uses an organization in AWS Organizations that has all features enabled. The company uses AWS Backup in a primary account and uses an AWS Key Management Service (AWS KMS) key to encrypt the backups.
The company needs to automate a cross-account backup of the resources that AWS Backup backs up in the primary account. The company configures cross-account backup in the Organizations management account. The company creates a new AWS account in the organization and configures an AWS Backup backup vault in the new account. The company creates a KMS key in the new account to encrypt the backups. Finally, the company configures a new backup plan in the primary account. The destination for the new backup plan is the backup vault in the new account.
When the AWS Backup job in the primary account is invoked, the job creates backups in the primary account. However, the backups are not copied to the new account's backup vault.
Which combination of steps must the company take so that backups can be copied to the new account's backup vault? (Select TWO.)

A. Edit the backup vault access policy in the new account to allow access to the primary account.
B. Edit the backup vault access policy in the primary account to allow access to the new account.
C. Edit the backup vault access policy in the primary account to allow access to the KMS key in the new account.
D. Edit the key policy of the KMS key in the primary account to share the key with the new account.
E. Edit the key policy of the KMS key in the new account to share the key with the primary account.

Answer: AE

Explanation:
To enable cross-account backup, the company needs to grant permissions to both the backup vault and the KMS key in the destination account. The backup vault access policy in the destination account must allow the primary account to copy backups into the vault. The key policy of the KMS key in the destination account must allow the primary account to use the key to encrypt and decrypt the backups. These steps are described in the AWS documentation12. Therefore, the correct answer is A and E.
References:
? 1: Creating backup copies across AWS accounts - AWS Backup
? 2: Using AWS Backup with AWS Organizations - AWS Backup

NEW QUESTION 93
A company hosts a security auditing application in an AWS account. The auditing application uses an IAM role to access other AWS accounts. All the accounts are in the same organization in AWS Organizations.
A recent security audit revealed that users in the audited AWS accounts could modify or delete the auditing application's IAM role. The company needs to prevent any modification to the auditing application's IAM role by any entity other than a trusted administrator IAM role.
Which solution will meet these requirements?

A. Create an SCP that includes a Deny statement for changes to the auditing application's IAM rol
B. Include a condition that allows the trusted administrator IAM role to make change

C. Attach the SCP to the root of the organization.
D. Create an SCP that includes an Allow statement for changes to the auditing application's IAM role by the trusted administrator IAM rol
E. Include a Deny statement for changes by all other IAM principal
F. Attach the SCP to the IAM service in each AWS account where the auditing application has an IAM role.
G. Create an IAM permissions boundary that includes a Deny statement for changes to the auditing application's IAM rol
H. Include a condition that allows the trusted administrator IAM role to make change
I. Attach the permissions boundary to the audited AWS accounts.
J. Create an IAM permissions boundary that includes a Deny statement for changes to the auditing application's IAM rol
K. Include a condition that allows the trusted administrator IAM role to make change
L. Attach the permissions boundary to the auditing application's IAM role in the AWS accounts.

Answer: A

Explanation:
https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps. html?icmpid=docs_orgs_console
SCPs (Service Control Policies) are the best way to restrict permissions at the organizational level, which in this case would be used to restrict modifications to the IAM role used by the auditing application, while still allowing trusted administrators to make changes to it. Options C and D are not as effective because IAM permission boundaries are applied to IAM entities (users, groups, and roles), not the account itself, and must be applied to all IAM entities in the account.

NEW QUESTION 95
A company is deploying a new application that uses Amazon EC2 instances. The company needs a solution to query application logs and AWS account API activity Which solution will meet these requirements?

A. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon CloudWatch Logs Configure AWS CloudTrail to deliver the API logs to Amazon S3 Use CloudWatch to query both sets of logs.
B. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon CloudWatch Logs Configure AWS CloudTrail to deliver the API logs to CloudWatch Logs Use CloudWatch Logs Insights to query both sets of logs.
C. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon Kinesis Configure AWS CloudTrail to deliver the API logs to Kinesis Use Kinesis to load the data into Amazon Redshift Use Amazon Redshift to query both sets of logs.
D. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon S3 Use AWS CloudTrail to deliver the API togs to Amazon S3 Use Amazon Athena to query both sets of logs in Amazon S3.

Answer: D

Explanation:
This solution will meet the requirements because it will use Amazon S3 as a common data lake for both the application logs and the API logs. Amazon S3 is a service that provides scalable, durable, and secure object storage for any type of data. You can use the Amazon CloudWatch agent to send logs from your EC2 instances to S3 buckets, and use AWS CloudTrail to deliver the API logs to S3 buckets as well. You can also use Amazon Athena to query both sets of logs in S3 using standard SQL, without loading or transforming them. Athena is a serverless interactive query service that allows you to analyze data in S3 using a variety of data formats, such as JSON, CSV, Parquet, and ORC.

NEW QUESTION 97
A company needs to ensure that flow logs remain configured for all existing and new VPCs in its AWS account. The company uses an AWS CloudFormation stack to manage its VPCs. The company needs a solution that will work for any VPCs that any IAM user creates.
Which solution will meet these requirements?

A. Add the resource to the CloudFormation stack that creates the VPCs.
B. Create an organization in AWS Organization
C. Add the company's AWS account to the organizatio
D. Create an SCP to prevent users from modifying VPC flow logs.
E. Turn on AWS Confi
F. Create an AWS Config rule to check whether VPC flow logs are turned o
G. Configure automatic remediation to turn on VPC flow logs.
H. Create an IAM policy to deny the use of API calls for VPC flow log
I. Attach the IAM policy to all IAM users.

Answer: C

Explanation:
To meet the requirements of ensuring that flow logs remain configured for all existing and new VPCs in the AWS account, the company should use AWS Config and automatic remediation. AWS Config is a service that enables customers to assess, audit, and evaluate the configurations of their AWS resources. AWS Config continuously monitors and records the configuration changes of the AWS resources and evaluates them against desired configurations. Customers can use AWS Config rules to define the desired configuration state of their AWS resources and trigger actions when a resource configuration violates a rule.
One of the AWS Config rules that customers can use is vpc-flow-logs-enabled, which checks whether VPC flow logs are enabled for all VPCs in an AWS account. Customers can also configure automatic remediation for this rule, which means that AWS Config will automatically enable VPC flow logs for any VPCs that do not have them enabled. Customers can specify the destination (CloudWatch Logs or S3) and the traffic type (all, accept, or reject) for the flow logs as remediation parameters. By using AWS Config and automatic remediation, the company can ensure that flow logs remain configured for all existing and new VPCs in its AWS account, regardless of who creates them or how they are created.
The other options are not correct because they do not meet the requirements or follow best practices. Adding the resource to the CloudFormation stack that creates the VPCs is not a sufficient solution because it will only work for VPCs that are created by using the CloudFormation stack. It will not work for VPCs that are created by using other methods, such as the console or the API. Creating an organization in AWS Organizations and creating an SCP to prevent users from modifying VPC flow logs is not a good solution because it will not ensure that flow logs are enabled for all VPCs in the first place. It will only prevent users from disabling or changing flow logs after they are enabled. Creating an IAM policy to deny the use of API calls for VPC flow logs and attaching it to all IAM users is not a valid solution because it will prevent users from enabling or disabling flow logs at all.
It will also not work for VPCs that are created by using other methods, such as the console or CloudFormation.
References:
? 1: AWS::EC2::FlowLog - AWS CloudFormation
? 2: Amazon VPC Flow Logs extends CloudFormation Support to custom format subscriptions, 1-minute aggregation intervals and tagging
? 3: Logging IP traffic using VPC Flow Logs - Amazon Virtual Private Cloud
? : About AWS Config - AWS Config
? : vpc-flow-logs-enabled - AWS Config

? : Remediate Noncompliant Resources with AWS Config Rules - AWS Config

NEW QUESTION 102
A company has its AWS accounts in an organization in AWS Organizations. AWS Config is manually configured in each AWS account. The company needs to implement a solution to centrally configure AWS Config for all accounts in the organization The solution also must record resource changes to a central account.
Which combination of actions should a DevOps engineer perform to meet these requirements? (Choose two.)

A. Configure a delegated administrator account for AWS Confi
B. Enable trusted access for AWS Config in the organization.
C. Configure a delegated administrator account for AWS Confi
D. Create a service-linked role for AWS Config in the organization's management account.
E. Create an AWS CloudFormation template to create an AWS Config aggregato
F. Configure a CloudFormation stack set to deploy the template to all accounts in the organization.
G. Create an AWS Config organization aggregator in the organization's management accoun
H. Configure data collection from all AWS accounts in the organization and from all AWS Regions.
I. Create an AWS Config organization aggregator in the delegated administrator accoun
J. Configure data collection from all AWS accounts in the organization and from all AWS Regions.

Answer: AE

Explanation:
https://aws.amazon.com/blogs/mt/org-aggregator-delegated-admin/ https://docs.aws.amazon.com/organizations/latest/userguide/services-that-can-integrate-config.html

NEW QUESTION 103
A company that runs many workloads on AWS has an Amazon EBS spend that has increased over time. The DevOps team notices there are many unattached EBS volumes. Although there are workloads where volumes are detached, volumes over 14 days old are stale and no longer needed. A DevOps engineer has been tasked with creating automation that deletes unattached EBS volumes that have been unattached for 14 days.
Which solution will accomplish this?

A. Configure the AWS Config ec2-volume-inuse-check managed rule with a configuration changes trigger type and an Amazon EC2 volume resource targe
B. Create a new Amazon CloudWatch Events rule scheduled to execute an AWS Lambda function in 14 days to delete the specified EBS volume.
C. Use Amazon EC2 and Amazon Data Lifecycle Manager to configure a volume lifecycle polic
D. Set the interval period for unattached EBS volumes to 14 days and set the retention rule to delet
E. Set the policy target volumes as *.
F. Create an Amazon CloudWatch Events rule to execute an AWS Lambda function dail
G. The Lambda function should find unattached EBS volumes and tag them with the current date, and delete unattached volumes that have tags with dates that are more than 14 days old.
H. Use AWS Trusted Advisor to detect EBS volumes that have been detached for more than 14 day
I. Execute an AWS Lambda function that creates a snapshot and then deletes the EBS volume.

Answer: C

Explanation:
The requirement is to create automation that deletes unattached EBS volumes that have been unattached for 14 days. To do this, the DevOps engineer needs to use the following steps:
? Create an Amazon CloudWatch Events rule to execute an AWS Lambda function
daily. CloudWatch Events is a service that enables event-driven architectures by delivering events from various sources to targets. Lambda is a service that lets you
run code without provisioning or managing servers. By creating a CloudWatch Events rule that executes a Lambda function daily, the DevOps engineer can schedule a recurring task to check and delete unattached EBS volumes.
? The Lambda function should find unattached EBS volumes and tag them with the
current date, and delete unattached volumes that have tags with dates that are more than 14 days old. The Lambda function can use the EC2 API to list and filter unattached EBS volumes based on their state and tags. The function can then tag each unattached volume with the current date using the create-tags command. The function can also compare the tag value with the current date and delete any unattached volume that has been tagged more than 14 days ago using the delete- volume command.

NEW QUESTION 108
To run an application, a DevOps engineer launches an Amazon EC2 instance with public IP addresses in a public subnet. A user data script obtains the application artifacts and installs them on the instances upon launch. A change to the security classification of the application now requires the instances to run with no access to the internet. While the instances launch successfully and show as healthy, the application does not seem to be installed.
Which of the following should successfully install the application while complying with the new rule?

A. Launch the instances in a public subnet with Elastic IP addresses attache
B. Once the application is installed and running, run a script to disassociate the Elastic IP addresses afterwards.
C. Set up a NAT gatewa
D. Deploy the EC2 instances to a private subne
E. Update the private subnet's route table to use the NAT gateway as the default route.
F. Publish the application artifacts to an Amazon S3 bucket and create a VPC endpoint for S3. Assign an IAM instance profile to the EC2 instances so they can read the application artifacts from the S3 bucket.
G. Create a security group for the application instances and allow only outbound traffic to the artifact repositor
H. Remove the security group rule once the install is complete.

Answer: C

Explanation:
EC2 instances running in private subnets of a VPC can now have controlled access to S3 buckets, objects, and API functions that are in the same region as the VPC. You can use an S3 bucket policy to indicate which VPCs and which VPC Endpoints have access to your S3 buckets 1- https://aws.amazon.com/pt/blogs/aws/new-vpc-endpoint-for- amazon-s3/

NEW QUESTION 110
A company has an application that is using a MySQL-compatible Amazon Aurora Multi-AZ DB cluster as the database. A cross-Region read replica has been created for disaster recovery purposes. A DevOps engineer wants to automate the promotion of the replica so it becomes the primary database instance in the event of a failure.
Which solution will accomplish this?

A. Configure a latency-based Amazon Route 53 CNAME with health checks so it points to both the primary and replica endpoint
B. Subscribe an Amazon SNS topic to Amazon RDS failure notifications from AWS CloudTrail and use that topic to invoke an AWS Lambda function that will promote the replica instance as the primary.
C. Create an Aurora custom endpoint to point to the primary database instanc
D. Configure the application to use this endpoin
E. Configure AWS CloudTrail to run an AWS Lambda function to promote the replica instance and modify the custom endpoint to point to the newly promoted instance.
F. Create an AWS Lambda function to modify the application's AWS CloudFormation template to promote the replica, apply the template to update the stack, and point the application to the newly promoted instanc
G. Create an Amazon CloudWatch alarm to invoke this Lambda function after the failure event occurs.
H. Store the Aurora endpoint in AWS Systems Manager Parameter Stor
I. Create an Amazon EventBridge event that detects the database failure and runs an AWS Lambda function to promote the replica instance and update the endpoint URL stored in AWS Systems Manager Parameter Stor
J. Code the application to reload the endpoint from Parameter Store if a database connection fails.

Answer: D

Explanation:
EventBridge is needed to detect the database failure. Lambda is needed to promote the replica as it's in another Region (manual promotion, otherwise). Storing and updating the endpoint in Parameter store is important in updating the application. Look at High Availability section of Aurora FAQ:
https://aws.amazon.com/rds/aurora/faqs/

NEW QUESTION 111
A company uses AWS Organizations to manage its AWS accounts. The company has a root OU that has a child OU. The root OU has an SCP that allows all actions on all resources. The child OU has an SCP that allows all actions for Amazon DynamoDB and AWS Lambda, and denies all other actions.
The company has an AWS account that is named vendor-data in the child OU. A DevOps engineer has an 1AM user that is attached to the AdministratorAccess 1AM policy in the vendor-data account. The DevOps engineer attempts to launch an Amazon EC2 instance in the vendor-data account but receives an access denied error.
Which change should the DevOps engineer make to launch the EC2 instance in the vendor-data account?

A. Attach the AmazonEC2FullAccess 1AM policy to the 1AM user.
B. Create a new SCP that allows all actions for Amazon EC2. Attach the SCP to the vendor-data account.
C. Update the SCP in the child OU to allow all actions for Amazon EC2.
D. Create a new SCP that allows all actions for Amazon EC2. Attach the SCP to the root OU.

Answer: C

Explanation:
The correct answer is C. Updating the SCP in the child OU to allow all actions for Amazon EC2 will enable the DevOps engineer to launch the EC2 instance in the vendor-data account. SCPs are applied to OUs and accounts in a hierarchical manner, meaning that the SCPs attached to the parent OU are inherited by the child OU and accounts. Therefore, the SCP in the child OU overrides the SCP in the root OU and denies all actions except for DynamoDB and Lambda. By adding EC2 to the allowed actions in the child OU's SCP, the DevOps engineer can access EC2 resources in the vendor-data account.
Option A is incorrect because attaching the AmazonEC2FullAccess IAM policy to the IAM user will not grant the user access to EC2 resources. IAM policies are evaluated after SCPs, so even if the IAM policy allows EC2 actions, the SCP will still deny them.
Option B is incorrect because creating a new SCP that allows all actions for EC2 and attaching it to the vendor-data account will not work. SCPs are not cumulative, meaning that only one SCP is applied to an account at a time. The SCP attached to the account will be the SCP attached to the OU that contains the account. Therefore, option B will not change the SCP that is applied to the vendor-data account.
Option D is incorrect because creating a new SCP that allows all actions for EC2 and attaching it to the root OU will not work. As explained earlier, the SCP in the child OU overrides the SCP in the root OU and denies all actions except for DynamoDB and Lambda. Therefore, option D will not affect the SCP that is applied to the vendor-data account.

NEW QUESTION 113
A DevOps engineer needs to configure a blue green deployment for an existing three-tier application. The application runs on Amazon EC2 instances and uses an Amazon RDS database The EC2 instances run behind an Application Load Balancer (ALB) and are in an Auto Scaling group.
The DevOps engineer has created a launch template and an Auto Scaling group for the blue environment. The DevOps engineer also has created a launch template and an Auto Scaling group for the green environment. Each Auto Scaling group deploys to a matching blue or green target group. The target group also specifies which software blue or green gets loaded on the EC2 instances. The ALB can be configured to send traffic to the blue environments target group or the green environments target group. An Amazon Route 53 record for www example com points to the ALB.
The deployment must move traffic all at once between the software on the blue environment's EC2 instances to the newly deployed software on the green environments EC2 instances
What should the DevOps engineer do to meet these requirements?

A. Start a rolling restart to the Auto Scaling group tor the green environment to deploy the new software on the green environment's EC2 instances When the rolling restart is complete, use an AWS CLI command to update the ALB to send traffic to the green environment's target group.
B. Use an AWS CLI command to update the ALB to send traffic to the green environment's target grou
C. Then start a rolling restart of the Auto Scaling group for the green environment to deploy the new software on the green environment's EC2 instances.
D. Update the launch template to deploy the green environment's software on the blue environment's EC2 instances Keep the target groups and Auto Scaling groups unchanged in both environments Perform a rolling restart of the blue environment's EC2 instances.
E. Start a rolling restart of the Auto Scaling group for the green environment to deploy the new software on the green environment's EC2 instances When the rolling restart is complete, update the Route 53 DNS to point to the green environments endpoint on the ALB.

Answer: A

Explanation:
This solution will meet the requirements because it will use a rolling restart to gradually replace the EC2 instances in the green environment with new instances

that have the new software version installed. A rolling restart is a process that terminates and launches instances in batches, ensuring that there is always a minimum number of healthy instances in service. This way, the green environment can be updated without affecting the availability or performance of the application. When the rolling restart is complete, the DevOps engineer can use an AWS CLI command to modify the listener rules of the ALB and change the default action to forward traffic to the green environment's target group. This will switch the traffic from the blue environment to the green environment all at once, as required by the question.

NEW QUESTION 118
A media company has several thousand Amazon EC2 instances in an AWS account. The company is using Slack and a shared email inbox for team communications and important updates. A DevOps engineer needs to send all AWS-scheduled EC2 maintenance notifications to the Slack channel and the shared inbox. The solution must include the instances' Name and Owner tags.
Which solution will meet these requirements?

A. Integrate AWS Trusted Advisor with AWS Config Configure a custom AWS Config rule to invoke an AWS Lambda function to publish notifications to an Amazon Simple Notification Service (Amazon SNS) topic Subscribe a Slack channel endpoint and the shared inbox to the topic.
B. Use Amazon EventBridge to monitor for AWS Health Events Configure the maintenance events to target an Amazon Simple Notification Service (Amazon SNS) topic Subscribe an AWS Lambda function to the SNS topic to send notifications to the Slack channel and the shared inbox.
C. Create an AWS Lambda function that sends EC2 maintenance notifications to the Slack channel and the shared inbox Monitor EC2 health events by using Amazon CloudWatch metrics Configure a CloudWatch alarm that invokes the Lambda function when a maintenance notification is received.
D. Configure AWS Support integration with AWS CloudTrail Create a CloudTrail lookup event to invoke an AWS Lambda function to pass EC2 maintenance notifications to Amazon Simple Notification Service (Amazon SNS) Configure Amazon SNS to target the Slack channel and the shared inbox.

Answer: B

Explanation:
https://docs.aws.amazon.com/health/latest/ug/cloudwatch-events-health.html

NEW QUESTION 122
A company's application teams use AWS CodeCommit repositories for their applications.
The application teams have repositories in multiple AWS accounts. All accounts are in an organization in AWS Organizations.
Each application team uses AWS IAM Identity Center (AWS Single Sign-On) configured with an external IdP to assume a developer IAM role. The developer role allows the application teams to use Git to work with the code in the repositories.
A security audit reveals that the application teams can modify the main branch in any repository. A DevOps engineer must implement a solution that allows the application teams to modify the main branch of only the repositories that they manage.
Which combination of steps will meet these requirements? (Select THREE.)

A. Update the SAML assertion to pass the user's team nam
B. Update the IAM role's trust policy to add an access-team session tag that has the team name.
C. Create an approval rule template for each team in the Organizations management accoun
D. Associate the template with all the repositorie
E. Add the developer role ARN as an approver.
F. Create an approval rule template for each accoun
G. Associate the template with all repositorie
H. Add the "aws:ResourceTag/access-team":"$;{aws:PrincipalTag/access- team}" condition to the approval rule template.
I. For each CodeCommit repository, add an access-team tag that has the value set to the name of the associated team.
J. Attach an SCP to the account
K. Include the following statement:

```
{
    "Effect": "Deny",
    "Action": [
        "codecommit:GitPush",
        "codecommit:PutFile",
        "codecommit:Merge*"
    ],
    "Resource": "*",
    "Condition": {
        "StringEqualsIfExists": {
            "codecommit:References": ["refs/heads/main"]
        },
        "StringNotEquals": {
            "aws:ResourceTag/access-team": "$ ;{aws:PrincipalTag/access-team}"
        },
        "Null": {
            "codecommit:References": "false"
        }
    }
}
```

L. Create an IAM permissions boundary in each accoun
M. Include the following statement:

```
{
    "Effect": "Allow",
    "Action": [
        "codecommit:GitPush",
        "codecommit:PutFile",
        "codecommit:Merge*"
    ],
    "Resource": "*",
    "Condition": {
        "StringEqualsIfExists": {
            "codecommit:References": ["refs/heads/main"]
        },
        "StringNotEquals": {
            "aws:ResourceTag/access-team": "$ ;{aws:PrincipalTag/access-team}"
        },
        "Null": {
            "codecommit:References": "false"
        }
    }
}
```

Answer: ADF

Explanation:
Short Explanation: To meet the requirements, the DevOps engineer should update the SAML assertion to pass the user's team name, update the IAM role's trust policy to add an access-team session tag that has the team name, create an IAM permissions boundary in each account, and for each CodeCommit repository, add an access-team tag that has the value set to the name of the associated team.
References:
? Updating the SAML assertion to pass the user's team name allows the DevOps engineer to use IAM tags to identify which team a user belongs to. This can help enforce fine-grained access control based on the user's team membership1.
? Updating the IAM role's trust policy to add an access-team session tag that has the team name allows the DevOps engineer to use IAM condition keys to restrict access based on the session tag value2. For example, the DevOps engineer can use the aws:PrincipalTag condition key to match the access-team tag of the user with the access-team tag of the repository3.
? Creating an IAM permissions boundary in each account allows the DevOps engineer to set the maximum permissions that an identity-based policy can grant to an IAM entity. An entity's permissions boundary allows it to perform only the actions that are allowed by both its identity-based policies and its permissions boundaries4. For example, the DevOps engineer can use a permissions boundary policy to limit the actions that a user can perform on CodeCommit repositories based on their access-team tag5.
? For each CodeCommit repository, adding an access-team tag that has the value set to the name of the associated team allows the DevOps engineer to use resource tags to identify which team manages a repository. This can help enforce fine-grained access control based on the resource tag value6.
? The other options are incorrect because:

NEW QUESTION 124
A company needs to implement failover for its application. The application includes an Amazon CloudFront distribution and a public Application Load Balancer (ALB) in an AWS Region. The company has configured the ALB as the default origin for the distribution.
After some recent application outages, the company wants a zero-second RTO. The company deploys the application to a secondary Region in a warm standby configuration. A DevOps engineer needs to automate the failover of the application to the secondary Region so that HTTP GET requests meet the desired R TO.
Which solution will meet these requirements?

A. Create a second CloudFront distribution that has the secondary ALB as the default origi
B. Create Amazon Route 53 alias records that have a failover policy and Evaluate Target Health set to Yes for both CloudFront distribution
C. Update the application to use the new record set.
D. Create a new origin on the distribution for the secondary AL
E. Create a new origin grou
F. Set the original ALB as the primary origi
G. Configure the origin group to fail over for HTTP 5xx status code
H. Update the default behavior to use the origin group.
I. Create Amazon Route 53 alias records that have a failover policy and Evaluate Target Health set to Yes for both ALB
J. Set the TTL of both records to
K. Update the distribution's origin to use the new record set.
L. Create a CloudFront function that detects HTTP 5xx status code
M. Configure the function to return a 307 Temporary Redirect error response to the secondary ALB if the function detects 5xx status code
N. Update the distribution's default behavior to send origin responses to the function.

Answer: B

Explanation:
To implement failover for the application to the secondary Region so that HTTP GET requests meet the desired RTO, the DevOps engineer should use the following solution:
? Create a new origin on the distribution for the secondary ALB. A CloudFront origin
is the source of the content that CloudFront delivers to viewers. By creating a new origin for the secondary ALB, the DevOps engineer can configure CloudFront to route traffic to the secondary Region when the primary Region is unavailable1
? Create a new origin group. Set the original ALB as the primary origin. Configure
the origin group to fail over for HTTP 5xx status codes. An origin group is a logical grouping of two origins: a primary origin and a secondary origin. By creating an origin group, the DevOps engineer can specify which origin CloudFront should use as a fallback when the primary origin fails. The DevOps engineer can also define which HTTP status codes should trigger a failover from the primary origin to the secondary origin. By setting the original ALB as the primary origin and configuring the origin group to fail over for HTTP 5xx status codes, the DevOps engineer can ensure that CloudFront will switch to the secondary ALB when the

primary ALB returns server errors2
? Update the default behavior to use the origin group. A behavior is a set of rules
that CloudFront applies when it receives requests for specific URLs or file types. The default behavior applies to all requests that do not match any other behaviors. By updating the default behavior to use the origin group, the DevOps engineer can enable failover routing for all requests that are sent to the distribution3
This solution will meet the requirements because it will automate the failover of the
application to the secondary Region with zero-second RTO. When CloudFront receives an HTTP GET request, it will first try to route it to the primary ALB in the primary Region. If the primary ALB is healthy and returns a successful response, CloudFront will deliver it to the viewer. If the primary ALB is unhealthy or returns an HTTP 5xx status code, CloudFront will automatically route the request to the secondary ALB in the secondary Region and deliver its response to the viewer.
The other options are not correct because they either do not provide zero-second RTO or do not work as expected. Creating a second CloudFront distribution that has the secondary ALB as the default origin and creating Amazon Route 53 alias records that have a failover policy is not a good option because it will introduce additional latency and complexity to the solution. Route 53 health checks and DNS propagation can take several minutes or longer, which means that viewers might experience delays or errors when accessing the application during a failover event. Creating Amazon Route 53 alias records that have a failover policy and Evaluate Target Health set to Yes for both ALBs and setting the TTL of both records to O is not a valid option because it will not work with CloudFront distributions. Route 53 does not support health checks for alias records that point to CloudFront distributions, so it cannot detect if an ALB behind a distribution is healthy or not. Creating a CloudFront function that detects HTTP 5xx status codes and returns a 307 Temporary Redirect error response to the secondary ALB is not a valid option because it will not provide zero-second RTO. A 307 Temporary Redirect error response tells viewers to retry their requests with a different URL, which means that viewers will have to make an additional request and wait for another response from CloudFront before reaching the secondary ALB.
References:
? 1: Adding, Editing, and Deleting Origins - Amazon CloudFront
? 2: Configuring Origin Failover - Amazon CloudFront
? 3: Creating or Updating a Cache Behavior - Amazon CloudFront

NEW QUESTION 128
A company has multiple development groups working in a single shared AWS account. The Senior Manager of the groups wants to be alerted via a third-party API call when the creation of resources approaches the service limits for the account.
Which solution will accomplish this with the LEAST amount of development effort?

A. Create an Amazon CloudWatch Event rule that runs periodically and targets an AWS Lambda functio
B. Within the Lambda function, evaluate the current state of the AWS environment and compare deployed resource values to resource limits on the accoun
C. Notify the Senior Manager if the account is approaching a service limit.
D. Deploy an AWS Lambda function that refreshes AWS Trusted Advisor checks, and configure an Amazon CloudWatch Events rule to run the Lambda function periodicall
E. Create another CloudWatch Events rule with an event pattern matching Trusted Advisor events and a target Lambda functio
F. In the target Lambda function, notify the Senior Manager.
G. Deploy an AWS Lambda function that refreshes AWS Personal Health Dashboard checks, and configure an Amazon CloudWatch Events rule to run the Lambda function periodicall
H. Create another CloudWatch Events rule with an event pattern matching Personal Health Dashboard events and a target Lambda functio
I. In the target Lambda function, notify the Senior Manager.
J. Add an AWS Config custom rule that runs periodically, checks the AWS service limit status, and streams notifications to an Amazon SNS topi
K. Deploy an AWS Lambda function that notifies the Senior Manager, and subscribe the Lambda function to the SNS topic.

Answer: B

Explanation:
To meet the requirements, the company needs to create a solution that alerts the Senior Manager when the creation of resources approaches the service limits for the account with the least amount of development effort. The company can use AWS Trusted Advisor, which is a service that provides best practice recommendations for cost optimization, performance, security, and service limits. The company can deploy an AWS Lambda function that refreshes Trusted Advisor checks, and configure an Amazon CloudWatch Events rule to run the Lambda function periodically. This will ensure that Trusted Advisor checks are up to date and reflect the current state of the account. The company can then create another CloudWatch Events rule with an event pattern matching Trusted Advisor events and a target Lambda function. The event pattern can filter for events related to service limit checks and their status. The target Lambda function can notify the Senior Manager via a third-party API call if the event indicates that the account is approaching or exceeding a service limit.

NEW QUESTION 129
A company's application development team uses Linux-based Amazon EC2 instances as bastion hosts. Inbound SSH access to the bastion hosts is restricted to specific IP addresses, as defined in the associated security groups. The company's security team wants to receive a notification if the security group rules are modified to allow SSH access from any IP address.
What should a DevOps engineer do to meet this requirement?

A. Create an Amazon EventBridge rule with a source of aws.cloudtrail and the event name AuthorizeSecurityGroupIngres
B. Define an Amazon Simple Notification Service (Amazon SNS) topic as the target.
C. Enable Amazon GuardDuty and check the findings for security groups in AWS Security Hu
D. Configure an Amazon EventBridge rule with a custom pattern that matches GuardDuty events with an output of NON_COMPLIAN
E. Define an Amazon Simple Notification Service (Amazon SNS) topic as the target.
F. Create an AWS Config rule by using the restricted-ssh managed rule to check whether security groups disallow unrestricted incoming SSH traffi
G. Configure automatic remediation to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
H. Enable Amazon Inspecto
I. Include the Common Vulnerabilities and Exposures-1.1 rules package to check the security groups that are associated with the bastion host
J. Configure Amazon Inspector to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.

Answer: A

Explanation:
https://aws.amazon.com/premiumsupport/knowledge-center/monitor-security-group-changes-ec2/

NEW QUESTION 130
A company has migrated its container-based applications to Amazon EKS and want to establish automated email notifications. The notifications sent to each email address are for specific activities related to EKS components. The solution will include Amazon SNS topics and an AWS Lambda function to evaluate incoming log events and publish messages to the correct SNS topic.
Which logging solution will support these requirements?

A. Enable Amazon CloudWatch Logs to log the EKS component
B. Create a CloudWatch subscription filter for each component with Lambda as the subscription feed destination.
C. Enable Amazon CloudWatch Logs to log the EKS component
D. Create CloudWatch Logs Insights queries linked to Amazon EventBridge events that invoke Lambda.
E. Enable Amazon S3 logging for the EKS component
F. Configure an Amazon CloudWatch subscription filter for each component with Lambda as the subscription feed destination.
G. Enable Amazon S3 logging for the EKS component
H. Configure S3 PUT Object event notifications with AWS Lambda as the destination.

Answer: A

Explanation:
https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/SubscriptionFilters.html#La mbdaFunctionExample
https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/SubscriptionFilters.html

NEW QUESTION 133
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