

Amazon-Web-Services

Exam Questions SOA-C03

AWS Certified CloudOps Engineer - Associate



NEW QUESTION 1

A company's website runs on an Amazon EC2 Linux instance. The website needs to serve PDF files from an Amazon S3 bucket. All public access to the S3 bucket is blocked at the account level. The company needs to allow website users to download the PDF files.

Which solution will meet these requirements with the LEAST administrative effort?

- A. Create an IAM role that has a policy that allows s3:list* and s3:get* permission
- B. Assign the role to the EC2 instance
- C. Assign a company employee to download requested PDF files to the EC2 instance and deliver the files to website user
- D. Create an AWS Lambda function to periodically delete local files.
- E. Create an Amazon CloudFront distribution that uses an origin access control (OAC) that points to the S3 bucket
- F. Apply a bucket policy to the bucket to allow connections from the CloudFront distribution
- G. Assign a company employee to provide a download URL that contains the distribution URL and the object path to users when users request PDF files.
- H. Change the S3 bucket permissions to allow public access on the source S3 bucket
- I. Assign a company employee to provide a PDF file URL to users when users request the PDF files.
- J. Deploy an EC2 instance that has an IAM instance profile to a public subnet
- K. Use a signed URL from the EC2 instance to provide temporary access to the S3 bucket for website users.

Answer: B

NEW QUESTION 2

A company runs custom statistical analysis software on a cluster of Amazon EC2 instances. The software is highly sensitive to network latency between nodes, although network throughput is not a limitation.

Which solution will minimize network latency?

- A. Place all the EC2 instances into a cluster placement group.
- B. Configure and assign two Elastic IP addresses for each EC2 instance.
- C. Configure jumbo frames on all the EC2 instances in the cluster.
- D. Place all the EC2 instances into a spread placement group in the same AWS Region.

Answer: A

NEW QUESTION 3

A company uses memory-optimized Amazon EC2 instances behind a Network Load Balancer (NLB) to run an application. The company launched the EC2 instances from an AWS-provided Red Hat Enterprise Linux (RHEL) AMI.

A CloudOps engineer must monitor RAM utilization in 5-minute intervals. The CloudOps engineer must ensure that the EC2 instances scale in and out appropriately based on incoming load.

Which solution will meet these requirements?

- A. Configure detailed monitoring for the EC2 instance
- B. Configure the Amazon CloudWatch agent on the EC2 instance
- C. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem_active metric.
- D. Configure detailed monitoring for the EC2 instance
- E. Use the mem_used_percent metric that the detailed monitoring feature provides
- F. Create an IAM role that allows the CloudWatch agent to upload data
- G. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem_used_percent metric.
- H. Configure basic monitoring for the EC2 instance
- I. Configure the Amazon CloudWatch agent on the EC2 instance
- J. Create an IAM role that allows the CloudWatch agent to upload data
- K. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem_used_percent metric.
- L. Configure basic monitoring for the EC2 instance
- M. Use the standard mem_used_percent metric for monitoring
- N. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem_used_percent metric.

Answer: C

NEW QUESTION 4

An ecommerce company uses Amazon ElastiCache (Redis OSS) for caching product queries. The CloudOps engineer observes a large number of cache evictions in Amazon CloudWatch metrics and needs to reduce evictions while retaining popular data in cache.

Which solution meets these requirements with the least operational overhead?

- A. Add another node to the ElastiCache cluster.
- B. Increase the ElastiCache TTL value.
- C. Decrease the ElastiCache TTL value.
- D. Migrate to a new ElastiCache cluster with larger nodes.

Answer: D

NEW QUESTION 5

A company has an application running on EC2 that stores data in an Amazon RDS for MySQL Single-AZ DB instance. The application requires both read and write operations, and the company needs failover capability with minimal downtime.

Which solution will meet these requirements?

- A. Modify the DB instance to be a Multi-AZ DB instance deployment.
- B. Add a read replica in the same Availability Zone where the DB instance is deployed.
- C. Add the DB instance to an Auto Scaling group that has a minimum capacity of 2 and a desired capacity of 2.
- D. Use RDS Proxy to configure a proxy in front of the DB instance.

Answer: A

NEW QUESTION 6

A company's reporting job that previously ran in 15 minutes is now taking 1 hour. The application runs on Amazon EC2 and extracts data from an Amazon RDS for MySQL DB instance. CloudWatch metrics show high Read IOPS even when reports are not running. The CloudOps engineer must improve performance and availability. Which solution will meet these requirements?

- A. Configure Amazon ElastiCache and query it for reports.
- B. Deploy an RDS read replica and update the reporting job to query the reader endpoint.
- C. Create a CloudFront distribution with the RDS instance as the origin.
- D. Increase the size of the RDS instance.

Answer: B

NEW QUESTION 7

A CloudOps engineer needs to ensure that AWS resources across multiple AWS accounts are tagged consistently. The company uses an organization in AWS Organizations to centrally manage the accounts. The company wants to implement cost allocation tags to accurately track the costs that are allocated to each business unit. Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Organizations tag policies to enforce mandatory tagging on all resource
- B. Enable cost allocation tags in the AWS Billing and Cost Management console.
- C. Configure AWS CloudTrail events to invoke an AWS Lambda function to detect untagged resources and to automatically assign tags based on predefined rules.
- D. Use AWS Config to evaluate tagging compliance
- E. Use AWS Budgets to apply tags for cost allocation.
- F. Use AWS Service Catalog to provision only pre-tagged resource
- G. Use AWS Trusted Advisor to enforce tagging across the organization.

Answer: A

NEW QUESTION 8

An environment consists of 100 Amazon EC2 Windows instances. The Amazon CloudWatch agent is deployed and running on all EC2 instances with a baseline configuration file to capture log files. There is a new requirement to capture DHCP log files that exist on 50 of the instances. What is the MOST operationally efficient way to meet this new requirement?

- A. Create an additional CloudWatch agent configuration file to capture the DHCP log
- B. Use AWS Systems Manager Run Command to restart the CloudWatch agent on each EC2 instance with the append-config option.
- C. Log in to each EC2 instance with administrator rights and create a PowerShell script to push logs to CloudWatch.
- D. Run the CloudWatch agent configuration wizard on each EC2 instance and add DHCP logs manually.
- E. Run the CloudWatch agent configuration wizard on each EC2 instance and select the advanced detail level.

Answer: A

NEW QUESTION 9

An AWS CloudFormation template creates an Amazon RDS instance. This template is used to build up development environments as needed and then delete the stack when the environment is no longer required. The RDS-persisted data must be retained for further use, even after the CloudFormation stack is deleted. How can this be achieved in a reliable and efficient way?

- A. Write a script to continue backing up the RDS instance every five minutes.
- B. Create an AWS Lambda function to take a snapshot of the RDS instance, and manually invoke the function before deleting the stack.
- C. Use the Snapshot Deletion Policy in the CloudFormation template definition of the RDS instance.
- D. Create a new CloudFormation template to perform backups of the RDS instance, and run this template before deleting the stack.

Answer: C

NEW QUESTION 10

A company is performing deployments of an application at regular intervals. Users report that the application sometimes does not work properly. The company discovers that some users' browsers are fetching previous versions of the JavaScript files. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The ALB is the origin for an Amazon CloudFront distribution.

A SysOps administrator must implement a solution to ensure that CloudFront serves the latest version of the JavaScript files. The solution must not affect application server performance.

Which solution will meet these requirements?

- A. Reduce the maximum TTL and default TTL of the CloudFront distribution behavior to 0.
- B. Add a final step in the deployment process to invalidate all files in the CloudFront distribution.
- C. Add a final step in the deployment process to invalidate only the changed JavaScript files in the CloudFront distribution.
- D. Remove CloudFront from the path of serving JavaScript file
- E. Serve the JavaScript files directly through the ALB.

Answer: C

NEW QUESTION 10

A company uses AWS Organizations to manage a set of AWS accounts. The company has set up organizational units (OUs) in the organization. An application OU supports various applications.

A CloudOps engineer must prevent users from launching Amazon EC2 instances that do not have a CostCenter-Project tag into any account in the application OU. The restriction must apply only to accounts in the application OU.

Which solution will meet these requirements?

- A. Create an IAM group that has a policy that allows the ec2:RunInstances action when the CostCenter-Project tag is present
- B. Place all IAM users who need access to the application accounts in the IAM group.
- C. Create a service control policy (SCP) that denies the ec2:RunInstances action when the CostCenter-Project tag is missing
- D. Attach the SCP to the application OU.
- E. Create an IAM role that has a policy that allows the ec2:RunInstances action when the CostCenter-Project tag is present
- F. Attach the IAM role to the IAM users that are in the application OU accounts.
- G. Create a service control policy (SCP) that denies the ec2:RunInstances action when the CostCenter-Project tag is missing
- H. Attach the SCP to the root OU.

Answer: B

NEW QUESTION 14

A company with millions of subscribers needs to automatically send notifications every Saturday. The company already uses Amazon SNS to send messages but has historically sent them manually.

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

- A. Launch a new Amazon EC2 instance
- B. Configure a cron job to use the AWS SDK to send an SNS notification to subscribers every Saturday.
- C. Create a rule in Amazon EventBridge that triggers every Saturday
- D. Configure the rule to publish a notification to an SNS topic.
- E. Create an SNS subscription to a message fanout that sends notifications to subscribers every Saturday.
- F. Use AWS Step Functions scheduling to run a step every Saturday
- G. Configure the step to publish a message to an SNS topic.

Answer: B

NEW QUESTION 16

A company runs several workloads on AWS. The company identifies five AWS Trusted Advisor service quota metrics to monitor in a specific AWS Region. The company wants to receive email notifications each time resource usage exceeds 60% of one of the service quotas.

Which solution will meet these requirements?

- A. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric
- B. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.
- C. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification.
- E. Use the AWS Health Dashboard to monitor each Trusted Advisor service quota metric
- F. Configure an Amazon SQS queue for email notification.
- G. Use the AWS Health Dashboard to monitor each Trusted Advisor service quota metric
- H. Configure an Amazon SNS topic for email notification.

Answer: A

NEW QUESTION 20

A company applies user-defined tags to AWS resources. Twenty days after applying the tags, the company notices that the tags cannot be used to filter views in the AWS Cost Explorer console.

What is the reason for this issue?

- A. It takes at least 30 days before tags can be used in Cost Explorer.
- B. The company has not activated the user-defined tags for cost allocation.
- C. The company has not created an AWS Cost and Usage Report.
- D. The company has not created a usage budget in AWS Budgets.

Answer: B

NEW QUESTION 22

A company has a new security policy that requires all Amazon Elastic Block Store (Amazon EBS) volumes to be encrypted at rest. The company needs to use a custom key policy to manage access to the encryption keys. The company must rotate the keys once each year.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create AWS KMS symmetric customer managed key
- B. Enable automatic key rotation.
- C. Use AWS owned AWS KMS keys across the company's AWS environment.
- D. Create AWS KMS asymmetric customer managed key
- E. Enable automatic key rotation.
- F. Create AWS KMS symmetric customer managed keys by using imported key material
- G. Rotate the keys on a yearly basis.

Answer: A

NEW QUESTION 27

A company manages a set of AWS accounts by using AWS Organizations. The company's security team wants to use a native AWS service to regularly scan all AWS accounts against the Center for Internet Security (CIS) AWS Foundations Benchmark.

What is the MOST operationally efficient way to meet these requirements?

- A. Designate a central security account as the AWS Security Hub administrator account
- B. Use scripts to invite and accept member accounts.

- C. Run the CIS AWS Foundations Benchmark by using Amazon Inspector.
- D. Designate a central security account as the Amazon GuardDuty administrator account and configure CIS scans.
- E. Designate an AWS Security Hub administrator account, automatically enroll new organization accounts, and enable CIS AWS Foundations Benchmark.

Answer: D

NEW QUESTION 31

An errant process is known to use an entire processor and run at 100% CPU. A CloudOps engineer wants to automate restarting an Amazon EC2 instance when the problem occurs for more than 2 minutes. How can this be accomplished?

- A. Create an Amazon CloudWatch alarm for the EC2 instance with basic monitoring.
- B. Add an action to restart the instance.
- C. Create an Amazon CloudWatch alarm for the EC2 instance with detailed monitoring.
- D. Add an action to restart the instance.
- E. Create an AWS Lambda function to restart the EC2 instance, invoked on a scheduled basis every 2 minutes.
- F. Create an AWS Lambda function to restart the EC2 instance, invoked by EC2 health checks.

Answer: B

NEW QUESTION 33

An Amazon EC2 instance is running an application that uses Amazon Simple Queue Service (Amazon SQS) queues. A CloudOps engineer must ensure that the application can read, write, and delete messages from the SQS queues. Which solution will meet these requirements in the MOST secure manner?

- A. Create an IAM user with permissions and embed credentials in the application configuration.
- B. Create an IAM user with permissions and export credentials as environment variables.
- C. Create and associate an IAM role for EC2. Attach a policy that allows sqs:* permissions.
- D. Create and associate an IAM role for EC2. Attach a policy that allows SendMessage, ReceiveMessage, and DeleteMessage permissions.

Answer: D

NEW QUESTION 34

A company is implementing security and compliance by using AWS Trusted Advisor. The company's CloudOps team is validating the list of Trusted Advisor checks that it can access. Which factor will affect the quantity of available Trusted Advisor checks?

- A. Whether at least one Amazon EC2 instance is in the running state
- B. The AWS Support plan
- C. An AWS Organizations service control policy (SCP)
- D. Whether the AWS account root user has multi-factor authentication (MFA) enabled

Answer: B

NEW QUESTION 36

A CloudOps engineer needs to control access to groups of Amazon EC2 instances using AWS Systems Manager Session Manager. Specific tags on the EC2 instances have already been added. Which additional actions should the CloudOps engineer take to control access? (Select TWO.)

- A. Attach an IAM policy to the users or groups that require access to the EC2 instances.
- B. Attach an IAM role to control access to the EC2 instances.
- C. Create a placement group for the EC2 instances and add a specific tag.
- D. Create a service account and attach it to the EC2 instances that need to be controlled.
- E. Create an IAM policy that grants access to any EC2 instances with a tag specified in the Condition element.

Answer: AE

NEW QUESTION 38

A company runs an application that logs user data to an Amazon CloudWatch Logs log group. The company discovers that personal information the application has logged is visible in plain text in the CloudWatch logs. The company needs a solution to redact personal information in the logs by default. Unredacted information must be available only to the company's security team. Which solution will meet these requirements?

- A. Create an Amazon S3 bucket
- B. Create an export task from appropriate log groups in CloudWatch
- C. Export the logs to the S3 bucket
- D. Configure an Amazon Macie scan to discover personal data in the S3 bucket
- E. Invoke an AWS Lambda function to move identified personal data to a second S3 bucket
- F. Update the S3 bucket policies to grant only the security team access to both buckets.
- G. Create a customer managed AWS KMS key
- H. Configure the KMS key policy to allow only the security team to perform decrypt operation
- I. Associate the KMS key with the application log group.
- J. Create an Amazon CloudWatch data protection policy for the application log group
- K. Configure data identifiers for the types of personal information that the application log
- L. Ensure that the security team has permission to call the unmask API operation on the application log group.
- M. Create an OpenSearch domain
- N. Create an AWS Glue workflow that runs a Detect PII transform job and streams the output to the OpenSearch domain
- O. Configure the CloudWatch log group to stream the logs to AWS Glue

P. Modify the OpenSearch domain access policy to allow only the security team to access the domain.

Answer: C

NEW QUESTION 41

A company uses Amazon ElastiCache (Redis OSS) to cache application data. A CloudOps engineer must implement a solution to increase the resilience of the cache. The solution also must minimize the recovery time objective (RTO). Which solution will meet these requirements?

- A. Replace ElastiCache (Redis OSS) with ElastiCache (Memcached).
- B. Create an Amazon EventBridge rule to initiate a backup every hour.
- C. Restore the backup when necessary.
- D. Create a read replica in a second Availability Zone.
- E. Enable Multi-AZ for the ElastiCache (Redis OSS) replication group.
- F. Enable automatic backup.
- G. Restore the backups when necessary.

Answer: C

NEW QUESTION 45

A company has an application that collects notifications from thousands of alarm systems. Notifications include alarm notifications and information notifications. All notifications are stored in an Amazon Simple Queue Service (Amazon SQS) queue. Amazon EC2 instances in an Auto Scaling group process the messages. A CloudOps engineer needs to prioritize alarm notifications over information notifications. Which solution will meet these requirements?

- A. Scale the Auto Scaling group faster when message volume increases.
- B. Use Amazon SNS fanout to send messages to all EC2 instances.
- C. Add an Amazon DynamoDB stream to accelerate processing.
- D. Create separate SQS queues for alarm notifications and information notifications and process alarm messages first.

Answer: D

NEW QUESTION 50

A company runs an application on Amazon EC2 instances behind an Elastic Load Balancer (ELB) in an Auto Scaling group. The application performs well except during a 2-hour period of daily peak traffic, when performance slows. A CloudOps engineer must resolve this issue with minimal operational effort. What should the engineer do?

- A. Adjust the minimum capacity of the Auto Scaling group to the size required to meet the increased demand during the 2-hour period.
- B. Adjust the launch template that is associated with the Auto Scaling group to be more sensitive to increases in user traffic.
- C. Create a scheduled scaling action to scale out the number of EC2 instances shortly before the increase in user traffic occurs.
- D. Manually add a few more EC2 instances to the Auto Scaling group to support the increase in user traffic.
- E. Enable instance scale-in protection on the Auto Scaling group.

Answer: C

NEW QUESTION 51

A company has an AWS CloudFormation template that includes an AWS::EC2::Instance resource and a custom resource (Lambda function). The Lambda function fails because it runs before the EC2 instance is launched. Which solution will resolve this issue?

- A. Add a DependsOn attribute to the custom resource.
- B. Specify the EC2 instance in the DependsOn attribute.
- C. Update the custom resource's service token to point to a valid Lambda function.
- D. Update the Lambda function to use the cfn-response module to send a response to the custom resource.
- E. Use the Fn::If intrinsic function to check for the EC2 instance before the custom resource runs.

Answer: A

NEW QUESTION 52

A company has users that deploy Amazon EC2 instances with more Amazon EBS performance capacity than required. A CloudOps engineer must review all EBS volumes and create cost optimization recommendations based on IOPS and throughput. What should the CloudOps engineer do in the MOST operationally efficient way?

- A. Review EC2 console monitoring graphs manually.
- B. Change instance types to EBS-optimized.
- C. Opt in to AWS Compute Optimizer and review EBS volume recommendations.
- D. Run fio benchmarks on each instance.

Answer: C

NEW QUESTION 53

A SysOps administrator creates a custom Amazon Machine Image (AMI) in the eu-west-2 Region and uses the AMI to launch Amazon EC2 instances. The SysOps administrator needs to use the same AMI to launch EC2 instances in two other Regions: us-east-1 and us-east-2. What must the SysOps administrator do to use the custom AMI in the additional Regions?

- A. Copy the AMI to the additional Regions.
- B. Make the AMI public in the Community AMIs section of the AWS Management Console.
- C. Share the AMI to the additional Region.

- D. Assign the required access permissions.
- E. Copy the AMI to a new Amazon S3 bucket.
- F. Assign access permissions to the AMI for the additional Regions

Answer: A

NEW QUESTION 57

A company hosts a production MySQL database on an Amazon Aurora single-node DB cluster. The database is queried heavily for reporting purposes. The DB cluster is experiencing periods of performance degradation because of high CPU utilization and maximum connections errors. A CloudOps engineer needs to improve the stability of the database.

Which solution will meet these requirements?

- A. Create an Aurora Replica node
- B. Create an Auto Scaling policy to scale replicas based on CPU utilization
- C. Ensure that all reporting requests use the read-only connection string.
- D. Create a second Aurora MySQL single-node DB cluster in a second Availability Zone
- E. Ensure that all reporting requests use the connection string for this additional node.
- F. Create an AWS Lambda function that caches reporting requests
- G. Ensure that all reporting requests call the Lambda function.
- H. Create a multi-node Amazon ElastiCache cluster
- I. Ensure that all reporting requests use the ElastiCache cluster
- J. Use the database if the data is not in the cache.

Answer: A

NEW QUESTION 62

A company has a VPC that contains a public subnet and a private subnet. The company deploys an Amazon EC2 instance that uses an Amazon Linux Amazon Machine Image (AMI) and has the AWS Systems Manager Agent (SSM Agent) installed in the private subnet. The EC2 instance is in a security group that allows only outbound traffic.

A CloudOps engineer needs to give a group of privileged administrators the ability to connect to the instance through SSH without exposing the instance to the internet.

Which solution will meet this requirement?

- A. Create an EC2 Instance Connect endpoint in the private subnet
- B. Update the security group to allow inbound SSH traffic
- C. Create an IAM group for privileged administrators
- D. Assign the PowerUserAccess managed policy to the IAM group.
- E. Create a Systems Manager endpoint in the private subnet
- F. Update the security group to allow SSH traffic from the private network where the Systems Manager endpoint is connected
- G. Create an IAM group for privileged administrators
- H. Assign the PowerUserAccess managed policy to the IAM group.
- I. Create an EC2 Instance Connect endpoint in the public subnet
- J. Update the security group to allow SSH traffic from the private network
- K. Create an IAM group for privileged administrators
- L. Assign the PowerUserAccess managed policy to the IAM group.
- M. Create a Systems Manager endpoint in the public subnet
- N. Create an IAM role that has the AmazonSSMManagedInstanceCore permission for the EC2 instance
- O. Create an IAM group for privileged administrators
- P. Assign the AmazonEC2ReadOnlyAccess IAM policy to the IAM group.

Answer: A

NEW QUESTION 67

A company runs an application on an Amazon EC2 instance. The application uses a MySQL database. The EC2 instance has a General Purpose SSD (gp3) Amazon EBS volume attached. The company wants to perform load testing using a new MySQL database created from an EBS snapshot of the production instance. The new database must perform as similarly as possible to production.

Which solution will meet these requirements in the LEAST amount of time?

- A. Use Amazon EBS fast snapshot restore (FSR) to create a new General Purpose SSD volume from the production snapshot.
- B. Use Amazon EBS fast snapshot restore (FSR) to create a new Provisioned IOPS SSD volume from the production snapshot.
- C. Use Amazon EBS standard snapshot restore to create a new General Purpose SSD volume from the production snapshot.
- D. Use Amazon EBS standard snapshot restore to create a new Provisioned IOPS SSD volume from the production snapshot.

Answer: A

NEW QUESTION 71

A company's security policy requires incoming SSH traffic to be restricted to a defined set of addresses. The company is using an AWS Config rule to check whether security groups allow unrestricted incoming SSH traffic.

A CloudOps engineer discovers a noncompliant resource and fixes the security group manually. The CloudOps engineer wants to automate the remediation of other noncompliant resources.

What is the MOST operationally efficient solution that meets these requirements?

- A. Create a CloudWatch alarm for the AWS Config rule and invoke a Lambda function to remediate.
- B. Configure an automatic remediation action on the AWS Config rule using AWS-DisableIncomingSSHOonPort22.
- C. Create an EventBridge rule for AWS Config events and invoke a Lambda function.
- D. Run a scheduled Lambda function to inspect and remediate security groups.

Answer: B

NEW QUESTION 76

A CloudOps engineer must manage the security of an AWS account. Recently, an IAM user's access key was mistakenly uploaded to a public code repository. The engineer must identify everything that was changed using this compromised key. How should the CloudOps engineer meet these requirements?

- A. Create an Amazon EventBridge rule to send all IAM events to an AWS Lambda function for analysis.
- B. Query Amazon EC2 logs by using Amazon CloudWatch Logs Insights for all events initiated with the compromised access key within the suspected timeframe.
- C. Search AWS CloudTrail event history for all events initiated with the compromised access key within the suspected timeframe.
- D. Search VPC Flow Logs for all events initiated with the compromised access key within the suspected timeframe.

Answer: C

NEW QUESTION 80

A CloudOps engineer wants to configure observability of specific metrics for a public website that runs on Amazon Elastic Kubernetes Service (Amazon EKS). The CloudOps engineer wants to observe latency, traffic, errors, and saturation metrics. The CloudOps engineer wants to define service level objectives (SLOs) and monitor service level indicators (SLIs). The CloudOps engineer also wants to correlate metrics, logs, and traces to support faster issue resolution. Which solution will meet these requirements with the LEAST operational effort?

- A. Use Amazon CloudWatch Application Signals to automatically collect and monitor the specified metrics for the EKS workloads.
- B. Configure AWS Distro for OpenTelemetry and use Amazon Managed Service for Prometheus and Amazon Managed Grafana.
- C. Configure Amazon CloudWatch RUM and CloudWatch Synthetics canaries.
- D. Configure Amazon CloudWatch Application Insights.

Answer: A

NEW QUESTION 85

A CloudOps engineer needs to track the costs of data transfer between AWS Regions. The CloudOps engineer must implement a solution to send alerts to an email distribution list when transfer costs reach 75% of a specific threshold. What should the CloudOps engineer do to meet these requirements?

- A. Create an AWS Cost and Usage Report
- B. Analyze the results in Amazon Athena
- C. Configure an alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when costs reach 75% of the threshold
- D. Subscribe the email distribution list to the topic.
- E. Create an Amazon CloudWatch billing alarm to detect when costs reach 75% of the threshold
- F. Configure the alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic
- G. Subscribe the email distribution list to the topic.
- H. Use AWS Budgets to create a cost budget for data transfer cost
- I. Set an alert at 75% of the budgeted amount
- J. Configure the budget to send a notification to the email distribution list when costs reach 75% of the threshold.
- K. Set up a VPC flow log
- L. Set up a subscription filter to an AWS Lambda function to analyze data transfer costs
- M. Configure the Lambda function to send a notification to the email distribution list when costs reach 75% of the threshold.

Answer: C

NEW QUESTION 87

A SysOps administrator needs to encrypt an existing Amazon Elastic File System (Amazon EFS) file system by using an existing AWS KMS customer managed key. Which solution will meet these requirements?

- A. Use Amazon EFS replication to create a new file system
- B. Copy the data and metadata from the existing file system to the new file system
- C. Specify the KMS customer managed key in the replication configuration
- D. When the replication process finishes, fail over to the new encrypted file system.
- E. Directly modify the file system to use encryption
- F. Specify the KMS customer managed key.
- G. Use Amazon EFS replication to create a new file system
- H. Copy the data and metadata from the existing file system to the new file system
- I. Generate a new TLS certificate
- J. Specify the TLS certificate in the replication configuration
- K. When the replication process finishes, fail over to the new encrypted file system.
- L. Create a new EFS file system that is encrypted with the KMS customer managed key
- M. Create an Amazon EC2 instance to copy the file
- N. Mount the encrypted file system and unencrypted file system on the instance
- O. Copy all data from the unencrypted file system to the encrypted file system
- P. Unmount the unencrypted file system and remove the temporary instance.

Answer: A

NEW QUESTION 89

A CloudOps engineer has created an AWS Service Catalog portfolio and shared it with a second AWS account in the company, managed by a different CloudOps engineer. Which action can the CloudOps engineer in the second account perform?

- A. Add a product from the imported portfolio to a local portfolio.
- B. Add new products to the imported portfolio.
- C. Change the launch role for the products contained in the imported portfolio.
- D. Customize the products in the imported portfolio.

Answer: A

NEW QUESTION 93

A company has a workload that is sending log data to Amazon CloudWatch Logs. One of the fields includes a measure of application latency. A CloudOps engineer needs to monitor the p90 statistic of this field over time. What should the CloudOps engineer do to meet this requirement?

- A. Create an Amazon CloudWatch Contributor Insights rule on the log data.
- B. Create a metric filter on the log data.
- C. Create a subscription filter on the log data.
- D. Create an Amazon CloudWatch Application Insights rule for the workload.

Answer: B

NEW QUESTION 98

A CloudOps engineer needs to set up alerting and remediation for a web application. The application consists of Amazon EC2 instances that have AWS Systems Manager Agent (SSM Agent) installed. Each EC2 instance runs a custom web server. The EC2 instances run behind a load balancer and write logs locally. The CloudOps engineer must implement a solution that restarts the web server software automatically if specific web errors are detected in the logs. Which combination of steps will meet these requirements? (Select THREE.)

- A. Install the Amazon CloudWatch agent on the EC2 instances.
- B. Create an AWS CloudTrail metric filter for the web log
- C. Configure an alarm for the specific errors.
- D. Create an Amazon CloudWatch metric filter for the web log
- E. Configure an alarm for the specific errors.
- F. Publish alarm findings to Amazon Simple Email Service (Amazon SES). Invoke an AWS Lambda function to restart the web server software.
- G. Create an Amazon EventBridge rule that responds to the alarm
- H. Configure the rule to invoke an AWS Systems Manager Automation runbook to restart the web server software.
- I. Create an Amazon Simple Notification Service (Amazon SNS) notification that responds to the alarm
- J. Configure the notification to invoke an AWS Systems Manager Automation runbook to restart the web server software.

Answer: ACE

NEW QUESTION 103

A company hosts a web application on an Amazon EC2 instance. The web server logs are published to Amazon CloudWatch Logs. The log events have the same structure and include the HTTP response codes associated with user requests. The company needs to monitor the number of times the web server returns an HTTP 404 response.

What is the MOST operationally efficient solution that meets these requirements?

- A. Create a CloudWatch Logs metric filter that counts the number of times the web server returns an HTTP 404 response.
- B. Create a CloudWatch Logs subscription filter that counts the number of HTTP 404 responses.
- C. Create an AWS Lambda function that runs a CloudWatch Logs Insights query every hour.
- D. Create a script that runs a CloudWatch Logs Insights query every hour.

Answer: A

NEW QUESTION 108

A company has two AWS accounts connected by a transit gateway. Each account has one VPC in the same AWS Region. The company wants to simplify inbound and outbound rules in security groups by referencing security group IDs instead of IP CIDR blocks.

Which solution will meet this requirement?

- A. Create VPC peering connections and remove the transit gateway.
- B. Enable security group referencing support on the transit gateway.
- C. Enable security group referencing support on each transit gateway attachment.
- D. Deploy private NAT gateways in each VPC.

Answer: C

NEW QUESTION 110

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