Amazon-Web-Services

Exam Questions SOA-C03

AWS Certified CloudOps Engineer - Associate

NEW QUESTION 1
A company hosts a static website in an Amazon S3 bucket, accessed globally via Amazon CloudFront. The Cache-Control max-age header is set to 1 hour, and Maximum TTL is set to 5 minutes. The CloudOps engineer observes that CloudFront is not caching objects for the expected duration.
What is the reason for this issue?

A. The Expires header has been set to 3 hours.
B. Cached assets are not expiring in the edge location.
C. Cache invalidation is missing in the CloudFront configuration.
D. Cache-duration settings conflict with each other.

Answer: D

NEW QUESTION 2
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 3
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 4
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 5
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 instanc
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 Saturda
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 Saturda
G. Configure the step to publish a message to an SNS topic.

Answer: B

NEW QUESTION 6
A company runs a website on Amazon EC2 instances. Users can upload images to an Amazon S3 bucket and publish the images to the website. The company wants to deploy a serverless image-processing application that uses an AWS Lambda function to resize the uploaded images.
The company's development team has created the Lambda function. A CloudOps engineer must implement a solution to invoke the Lambda function when users upload new images to the S3 bucket.
Which solution will meet this requirement?

A. Configure an Amazon Simple Notification Service (Amazon SNS) topic to invoke the Lambda function when a user uploads a new image to the S3 bucket.
B. Configure an Amazon CloudWatch alarm to invoke the Lambda function when a user uploads a new image to the S3 bucket.

C. Configure S3 Event Notifications to invoke the Lambda function when a user uploads anew image to the S3 bucket.
D. Configure an Amazon Simple Queue Service (Amazon SQS) queue to invoke the Lambda function when a user uploads a new image to the S3 bucket.

Answer: C

NEW QUESTION 7
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 8
A company runs a business application on more than 300 Linux-based instances. Each instance has the AWS Systems Manager Agent (SSM Agent) installed. The company expects the number of instances to grow in the future. All business application instances have the same user-defined tag.
A CloudOps engineer wants to run a command on all the business application instances to download and install a package from a private repository. To avoid overwhelming the repository, the CloudOps engineer wants to ensure that no more than 30 downloads occur at one time.
Which solution will meet this requirement in the MOST operationally efficient way?

A. Use a secondary tag to create 10 batches of 30 instances eac
B. Use a Systems Manager Run Command document to download and install the packag
C. Run each batch one time.
D. Use an AWS Lambda function to automatically run a Systems Manager Run Command documen
E. Set reserved concurrency for the Lambda function to 30.
F. Use a Systems Manager Run Command document to download and install the package.Use rate control to set concurrency to 30. Specify the target by using the user-defined tag.
G. Use a parallel workflow state in AWS Step Function
H. Set the number of parallel states to 30.

Answer: C

NEW QUESTION 9
A SysOps administrator is configuring an Auto Scaling group of Amazon EC2 instances for an application. The average CPU utilization of the instances in the Auto Scaling group must remain at approximately 40% when the load on the application changes.
Which solution will meet this requirement in the MOST operationally efficient manner?

A. Create a scheduled scaling actio
B. Configure the action to run at times when the application typically experiences an increase in traffic.
C. Configure a simple scaling polic
D. Create an Amazon CloudWatch alarm that enters ALARM state when CPU utilization is greater than 40%. Associate the alarm with the scaling policy.
E. Configure a step scaling polic
F. Create an Amazon CloudWatch alarm that enters ALARM state when CPU utilization is greater than 40%. Associate the alarm with the scaling policy.
G. Configure a target tracking scaling polic
H. Specify a target value of 40 for average CPU utilization.

Answer: D

NEW QUESTION 10
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 an IAM policy that allows the sqs:SendMessage permission, the sqs:ReceiveMessage permission, and the sqs:DeleteMessage permission to the appropriate queue
B. Embed the IAM user's credentials in the application's configuration.
C. Create an IAM user with an IAM policy that allows the sqs:SendMessage permission, the sqs:ReceiveMessage permission, and the sqs:DeleteMessage permission to the appropriate queue
D. Export the IAM user's access key and secret access key as environment variables on the EC2 instance.
E. Create and associate an IAM role that allows EC2 instances to call AWS service
F. Attach an IAM policy to the role that allows sqs:* permissions to the appropriate queues.
G. Create and associate an IAM role that allows EC2 instances to call AWS services.Attach an IAM policy to the role that allows the sqs:SendMessage permission, the sqs:ReceiveMessage permission, and the sqs:DeleteMessage permission to the appropriate queues.

Answer: D

NEW QUESTION 10
A company moves workloads from public subnets to private subnets to improve security. During testing, servers in the private subnets cannot reach an external API. The VPC has a CIDR block of 10.0.0.0/16, two public subnets, two private subnets, one internet gateway, and a NAT gateway in each private subnet.
The company must ensure that workloads in the private subnets can reach the external API.
Which solution will meet this requirement?

A. Deploy an outbound-only internet gateway and update route tables.
B. Create an Amazon API Gateway HTTP API as a proxy.

C. Deploy a NAT gateway in each public subnet and update private subnet route tables.
D. Create a VPC interface endpoint and update route tables.

Answer: C

NEW QUESTION 15
A company's developers manually install software modules on Amazon EC2 instances to deploy new versions of a service. A security audit finds that instances contain inconsistent and unapproved modules.
A CloudOps engineer must create a new instance image that contains only approved software.
Which solution will meet these requirements?

A. Use Amazon Detective to continuously find and uninstall unauthorized modules from the instances.
B. Use Amazon GuardDuty to create and deploy an Amazon Machine Image (AMI) that includes only the approved modules.
C. Use AWS Systems Manager Run Command to install the approved modules on all running instances during an in-place update.
D. Use EC2 Image Builder to create and test an Amazon Machine Image (AMI) that includes only the approved module
E. Update the deployment workflow to use the new AMI.

Answer: D

NEW QUESTION 17
A CloudOps engineer is troubleshooting an AWS CloudFormation stack creation that failed. Before the CloudOps engineer can identify the problem, the stack and its resources are deleted. For future deployments, the CloudOps engineer must preserve any resources that CloudFormation successfully created.
What should the CloudOps engineer do to meet this requirement?

A. Set the value of the DisableRollback parameter to False during stack creation.
B. Set the value of the OnFailure parameter to DO_NOTHING during stack creation.
C. Specify a rollback configuration that has a rollback trigger of DO_NOTHING during stack creation.
D. Set the value of the OnFailure parameter to ROLLBACK during stack creation.

Answer: B

NEW QUESTION 21
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 complianc
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 25
A CloudOps engineer creates an AWS CloudFormation template to define an application stack that can be deployed in multiple AWS Regions. The CloudOps engineer also creates an Amazon CloudWatch dashboard by using the AWS Management Console. Each deployment of the application requires its own CloudWatch dashboard.
How can the CloudOps engineer automate the creation of the CloudWatch dashboard each time the application is deployed?

A. Create a script by using the AWS CLI to run the aws cloudformation put-dashboard command with the name of the dashboar
B. Run the command each time a new CloudFormation stack is created.
C. Export the existing CloudWatch dashboard as JSO
D. Update the CloudFormation template to define an AWS::CloudWatch::Dashboard resourc
E. Include the exported JSON in the resource's DashboardBody property.
F. Update the CloudFormation template to define an AWS::CloudWatch::Dashboard resourc
G. Use the intrinsic Ref function to reference the ID of the existing CloudWatch dashboard.
H. Update the CloudFormation template to define an AWS::CloudWatch::Dashboard resourc
I. Specify the name of the existing dashboard in the DashboardName property.

Answer: B

NEW QUESTION 28
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 bucke
B. Create an export task from appropriate log groups in CloudWatc
C. Export the logs to the S3 bucke
D. Configure an Amazon Macie scan to discover personal data in the S3 bucke
E. Invoke an AWS Lambda function to move identified personal data to a second S3 bucke
F. Update the S3 bucket policies to grant only the security team access to both buckets.
G. Create a customer managed AWS KMS ke

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 grou
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 domai
N. Create an AWS Glue workflow that runs a Detect PII transform job and streams the output to the OpenSearch domai
O. Configure the CloudWatch log group to stream the logs to AWS Glu
P. Modify the OpenSearch domain access policy to allow only the security team to access the domain.

Answer: C

NEW QUESTION 29
A CloudOps engineer is designing a solution for an Amazon RDS for PostgreSQL DB instance. Database credentials must be stored and rotated monthly. The application generates write-intensive traffic with variable and sudden increases in client connections.
Which solution should the CloudOps engineer choose to meet these requirements?

A. Configure AWS Key Management Service (AWS KMS) to automatically rotate the key
B. Use RDS Proxy.
C. Configure AWS KMS to rotate key
D. Use RDS read replicas.
E. Configure AWS Secrets Manager to rotate credential
F. Use RDS Proxy.
G. Configure AWS Secrets Manager to rotate credential
H. Use RDS read replicas.

Answer: C

NEW QUESTION 30
An AWS Lambda function is intermittently failing several times a day. A CloudOps engineer must find out how often this error occurred in the last 7 days.
Which action will meet this requirement in the MOST operationally efficient manner?

A. Use Amazon Athena to query the Amazon CloudWatch logs that are associated with the Lambda function.
B. Use Amazon Athena to query the AWS CloudTrail logs that are associated with the Lambda function.
C. Use Amazon CloudWatch Logs Insights to query the associated Lambda function logs.
D. Use Amazon OpenSearch Service to stream the Amazon CloudWatch logs for the Lambda function.

Answer: C

NEW QUESTION 31
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 traffi
E. Enable instance scale-in protection on the Auto Scaling group.

Answer: C

NEW QUESTION 32
A company is running an ecommerce application on AWS. The application maintains many open but idle connections to an Amazon Aurora DB cluster. During times of peak usage, the database produces the following error message: "Too many connections." The database clients are also experiencing errors.
Which solution will resolve these errors?

A. Increase the read capacity units (RCUs) and the write capacity units (WCUs) on the database.
B. Configure RDS Prox
C. Update the application with the RDS Proxy endpoint.
D. Turn on enhanced networking for the DB instances.
E. Modify the DB cluster to use a burstable instance type.

Answer: B

NEW QUESTION 35
A company's application is hosted by an internet provider at app.example.com. The company wants to access the application by using www.company.com, which the company owns and manages with Amazon Route 53.
Which Route 53 record should be created to address this requirement?

A. A record
B. Alias record
C. CNAME record
D. Pointer (PTR) record

Answer: C

NEW QUESTION 39
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 resourc
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 44
A CloudOps engineer configures an application to run on Amazon EC2 instances behind an Application Load Balancer (ALB) in a simple scaling Auto Scaling group with the default settings. The Auto Scaling group is configured to use the RequestCountPerTarget metric for scaling. The CloudOps engineer notices that the RequestCountPerTarget metric exceeded the specified limit twice in 180 seconds.
How will the number of EC2 instances in this Auto Scaling group be affected in this scenario?

A. The Auto Scaling group will launch an additional EC2 instance every time the RequestCountPerTarget metric exceeds the predefined limit.
B. The Auto Scaling group will launch one EC2 instance and will wait for the default cooldown period before launching another instance.
C. The Auto Scaling group will send an alert to the ALB to rebalance the traffic and not add new EC2 instances until the load is normalized.
D. The Auto Scaling group will try to distribute the traffic among all EC2 instances before launching another instance.

Answer: B

NEW QUESTION 48
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 52
A company runs a web application on three Amazon EC2 instances behind an Application Load Balancer (ALB). The company notices that random periods of increased traffic cause a degradation in the application??s performance.
A CloudOps engineer must scale the application to meet the increased traffic. Which solution meets these requirements?

A. Create an Amazon CloudWatch alarm to monitor application latency and increase the size of each EC2 instance if the desired threshold is reached.
B. Create an Amazon EventBridge rule to monitor application latency and add an EC2 instance to the ALB if the desired threshold is reached.
C. Deploy the application to an Auto Scaling group of EC2 instances with a target tracking scaling polic
D. Attach the ALB to the Auto Scaling group.
E. Deploy the application to an Auto Scaling group of EC2 instances with a scheduled scaling polic
F. Attach the ALB to the Auto Scaling group.

Answer: C

NEW QUESTION 57
A company plans to host an application on Amazon EC2 instances distributed across multiple Availability Zones. The application must scale to millions of requests per second and handle sudden and volatile traffic patterns. The solution must use a single static IP address per Availability Zone.
Which solution will meet these requirements?

A. Amazon Simple Queue Service (Amazon SQS)
B. Application Load Balancer
C. AWS Global Accelerator
D. Network Load Balancer

Answer: C

NEW QUESTION 58
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 60
A company uses an organization in AWS Organizations to manage multiple AWS accounts. The company needs to send specific events from all the accounts in the organization to a new receiver account, where an AWS Lambda function will process the events.
A CloudOps engineer configures Amazon EventBridge to route events to a target event bus in the us-west-2 Region in the receiver account. The CloudOps engineer creates rules in both the sender and receiver accounts that match the specified events. The rules do not specify an account parameter in the event pattern. IAM roles are created in the sender accounts to allow PutEvents actions on the target event bus.
However, the first test events from the us-east-1 Region are not processed by the Lambda function in the receiving account.
What is the likely reason the events are not processed?

A. Interface VPC endpoints for EventBridge are required in the sender accounts and receiver accounts.
B. The target Lambda function is in a different AWS Region, which is not supported by EventBridge.
C. The resource-based policy on the target event bus must be modified to allow PutEvents API calls from the sender accounts.
D. The rule in the receiving account must specify {"account": ["sender-account-id"]} in its event pattern and must include the receiving account ID.

Answer: C

NEW QUESTION 62
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 64
A company runs an application on Amazon EC2 that connects to an Amazon Aurora PostgreSQL database. A developer accidentally drops a table from the database, causing application errors. Two hours later, a CloudOps engineer needs to recover the data and make the application functional again.
Which solution will meet this requirement?

A. Use the Aurora Backtrack feature to rewind the database to a specified time, 2 hours in the past.
B. Perform a point-in-time recovery on the existing database to restore the database to a specified point in time, 2 hours in the past.
C. Perform a point-in-time recovery and create a new database to restore the database to a specified point in time, 2 hours in the pas
D. Reconfigure the application to use a new database endpoint.
E. Create a new Aurora cluste
F. Choose the Restore data from S3 bucket optio
G. Choose log files up to the failure time 2 hours in the past.

Answer: C

NEW QUESTION 66
A company has a stateful web application that is hosted on Amazon EC2 instances in an Auto Scaling group. The instances run behind an Application Load Balancer (ALB) that has a single target group. The ALB is configured as the origin in an Amazon CloudFront distribution. Users are reporting random logouts from the web application.
Which combination of actions should a CloudOps engineer take to resolve this problem? (Select TWO.)

A. Change to the least outstanding requests algorithm on the ALB target group.
B. Configure cookie forwarding in the CloudFront distribution cache behavior.
C. Configure header forwarding in the CloudFront distribution cache behavior.
D. Enable group-level stickiness on the ALB listener rule.
E. Enable sticky sessions on the ALB target group.

Answer: BE

NEW QUESTION 67
A company deploys AWS infrastructure in a VPC that has an internet gateway. The VPC has public subnets and private subnets. An Amazon RDS for MySQL DB instance is deployed in a private subnet. An AWS Lambda function uses the same private subnet and connects to the DB instance to query data.
A developer modifies the Lambda function to require the function to publish messages to an Amazon Simple Queue Service (Amazon SQS) queue. After these changes, the Lambda function times out when it tries to publish messages to the SQS queue.
Which solutions will resolve this issue? (Select TWO.)

A. Reconfigure the Lambda function so that the function is not connected to the VPC.
B. Deploy an RDS prox
C. Configure the Lambda function to connect to the DB instance through the proxy.
D. Deploy a NAT gatewa
E. Update the private subnet's route table to route all traffic to the NAT gateway.
F. Create an interface VPC endpoint for Amazon SQS in the VPC.
G. Create a gateway endpoint for Amazon SQS in the VPC.

Answer: CD

NEW QUESTION 69
A company runs a high performance computing (HPC) data-processing application on Amazon EC2 instances in one Availability Zone within a development environment. The application uses a dataset that the company stores on an Amazon S3 general purpose
bucket in the same AWS Region as the EC2 instances.

A SysOps administrator must improve the application's performance for retrieval of objects from Amazon S3.
Which solution will meet these requirements?

A. Enable S3 Transfer Acceleration for the S3 bucke
B. Create an S3 access point for the bucke
C. Update the application to use the access point.
D. Create an S3 Lifecycle configuration for the S3 bucket to move all objects to the S3 Express One Zone storage clas
E. Update the application to use an S3 Regional endpoint.
F. Create a second general purpose S3 bucket in the same Regio
G. Copy the objects from the original bucket to the new bucke
H. Use the S3 Express One Zone storage class to store the objects in the new bucke
I. Update the application to use an S3 Regional endpoint.
J. Create an S3 directory bucket in the same Availability Zon
K. Import objects from the original bucket to the new bucke
L. Use the S3 Express One Zone storage class to store the objects in the new bucke
M. Update the application to use an S3 Zonal endpoint.

Answer: D

NEW QUESTION 73
A company has a web application that is experiencing performance problems many times each night. A root cause analysis reveals sudden increases in CPU utilization that last 5 minutes on an Amazon EC2 Linux instance. A CloudOps engineer must find the process ID (PID) of the service or process that is consuming more CPU.
What should the CloudOps engineer do to collect the process utilization information with the LEAST amount of effort?

A. Configure the Amazon CloudWatch agent procstat plugin to capture CPU process metrics.
B. Configure an AWS Lambda function to run every minute to capture the PID and send a notification.
C. Log in to the EC2 instance each night and run the top command.
D. Use the default Amazon CloudWatch CPUUtilization metric.

Answer: A

NEW QUESTION 76
A company maintains a list of 75 approved Amazon Machine Images (AMIs) that can be used across an organization in AWS Organizations. The company's development team has been launching Amazon EC2 instances from unapproved AMIs.
A SysOps administrator must prevent users from launching EC2 instances from unapproved AMIs.
Which solution will meet this requirement?

A. Add a tag to the approved AMI
B. Create an IAM policy that includes a tag condition that allows users to launch EC2 instances from only the tagged AMIs.
C. Create a service-linked rol
D. Attach a policy that denies the ability to launch EC2 instances from a list of unapproved AMI
E. Assign the role to users.
F. Use AWS Config with an AWS Lambda function to check for EC2 instances that are launched from unapproved AMI
G. Program the Lambda function to send an Amazon Simple Notification Service (Amazon SNS) message to the SysOps administrator to terminate those EC2 instances.
H. Use AWS Trusted Advisor to check for EC2 instances that are launched from unapproved AMI
I. Configure Trusted Advisor to invoke an AWS Lambda function to terminate those EC2 instances.

Answer: A

NEW QUESTION 81
A company??s ecommerce application is running on Amazon EC2 instances that are behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. Customers report that the website is occasionally down. When the website is down, it returns an HTTP 500 (server error) status code to customer browsers.
The Auto Scaling group??s health check is configured for EC2 status checks, and the instances appear healthy.
Which solution will resolve the problem?

A. Replace the ALB with a Network Load Balancer.
B. Add Elastic Load Balancing (ELB) health checks to the Auto Scaling group.
C. Update the target group configuration on the AL
D. Enable session affinity (sticky sessions).
E. Install the Amazon CloudWatch agent on all instance
F. Configure the agent to reboot the instances.

Answer: B

NEW QUESTION 82
A SysOps administrator needs to implement a solution that protects credentials for an Amazon RDS for MySQL DB instance. The solution must rotate the credentials automatically one time every week.
Which combination of steps will meet these requirements? (Select TWO.)

A. Configure an RDS proxy to store the credentials.
B. Add the credentials to AWS Secrets Manager.
C. Add the credentials to AWS Systems Manager Parameter Store.
D. Create an AWS Lambda function to rotate the credentials.
E. Create an AWS Systems Manager Automation runbook to rotate the credentials.

Answer: BD

NEW QUESTION 84
A CloudOps engineer is maintaining a web application that uses an Amazon CloudFront web distribution, an Application Load Balancer (ALB), Amazon RDS, and Amazon EC2 in a VPC. All services have logging enabled. The CloudOps engineer needs to investigate HTTP Layer 7 status codes from the web application.
Which log sources contain the status codes? (Select TWO.)

A. VPC Flow Logs
B. AWS CloudTrail logs
C. ALB access logs
D. CloudFront access logs
E. RDS logs

Answer: CD

NEW QUESTION 86
A company hosts a static website on Amazon S3. An Amazon CloudFront distribution presents this site to global users. The company uses the Managed-CachingDisabled CloudFront cache policy. The company's developers confirm that they frequently update a file in Amazon S3 with new information.
Users report that the website presents correct information when the website first loads the file. However, the users' browsers do not retrieve the updated file after a refresh.
What should a SysOps administrator recommend to fix this issue?

A. Add a Cache-Control header field with max-age=0 to the S3 object.
B. Change the CloudFront cache policy to Managed-CachingOptimized.
C. Disable bucket versioning in the S3 bucket configuration.
D. Enable content compression in the CloudFront configuration.

Answer: A

NEW QUESTION 87
A company hosts an FTP server on EC2 instances. AWS Security Hub sends findings to Amazon EventBridge when the FTP port becomes publicly exposed in attached security groups.
A CloudOps engineer needs an automated, event-driven remediation solution to remove public access from security groups.
Which solution will meet these requirements?

A. Configure the existing EventBridge event to stop the EC2 instances that have the exposed port.
B. Create a cron job for the FTP server to invoke an AWS Lambda functio
C. Configure the Lambda function to modify the security group of the identified EC2 instances and to remove the instances that allow public access.
D. Create a cron job for the FTP server that invokes an AWS Lambda functio
E. Configure the Lambda function to modify the server to use SFTP instead of FTP.
F. Configure the existing EventBridge event to invoke an AWS Lambda functio
G. Configure the function to remove the security group rule that allows public access.

Answer: D

NEW QUESTION 90
A company uses an Amazon Simple Queue Service (Amazon SQS) queue and Amazon EC2 instances in an Auto Scaling group with target tracking for a web application. The company collects the ASGAverageNetworkIn metric but notices that instances do not scale fast enough during peak traffic. There are a large number of SQS messages accumulating in the queue.
A CloudOps engineer must reduce the number of SQS messages during peak periods. Which solution will meet this requirement?

A. Define and use a new custom Amazon CloudWatch metric based on the SQS ApproximateNumberOfMessagesDelayed metric in the target tracking policy.
B. Define and use Amazon CloudWatch metric math to calculate the SQS queue backlog for each instance in the target tracking policy.
C. Define and use step scaling by specifying a ChangeInCapacity value for the EC2 instances.
D. Define and use simple scaling by specifying a ChangeInCapacity value for the EC2 instances.

Answer: B

NEW QUESTION 95
A company has created a new video-on-demand (VOD) application. The application runs on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The company configured an Amazon CloudFront distribution and set the ALB as the origin. Because of increasing application demand, the company wants to move all video files to a central Amazon S3 bucket.
A SysOps administrator needs to ensure that video files can be cached at edge locations after the company migrates the files to Amazon S3.
Which solution will meet this requirement?

A. Configure CloudFront to send the X-Forwarded-For header to the origin and to redirect video requests to Amazon S3 instead of the ALB.
B. Configure a new CloudFront cache behavior to route to Amazon S3 as a new origin, based on matching a URL path pattern.
C. Configure URL signing in the CloudFront distribution by using a custom polic
D. Ensure that video files are accessed through signed URLs only.
E. Configure a CloudFront origin grou
F. Specify the required HTTP status codes to direct connection attempts to a secondary origin.

Answer: B

NEW QUESTION 97
A company has a microservice that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). A CloudOps engineer must use Amazon Route 53 to create a record that maps the ALB URL to example.com.
Which type of Route 53 record will meet this requirement?

A. An A record
B. An AAAA record
C. An alias record
D. A CNAME record

Answer: C

NEW QUESTION 98
A company uses AWS Organizations to manage its AWS environment. The company implements a process that uses prebuilt Amazon Machine Images (AMIs) to launch instances as a security measure. All AMIs are tagged automatically with a key named ApprovedAMI.
The company wants to ensure that employees can use only the approved prebuilt AMIs to launch new instances.
Which solution will meet this requirement?

A. Implement a tag policy for the company's organization to require users to set the ApprovedAMI tag to launch new EC2 instances.
B. Implement an IAM policy that includes an aws:ResourceTag/ApprovedAMI condition.
C. Set up an AWS Config required-tags rule to prevent users from launching any nonapproved AMIs.
D. Use Amazon GuardDuty to constantly monitorDefenseEvasion:EC2/UnusualDoHActivity findings.

Answer: B

NEW QUESTION 102
A company hosts a static website in Amazon S3 behind an Amazon CloudFront distribution. When new versions are deployed, users sometimes do not see updated content immediately.
Which solution will meet this requirement?

A. Configure the CloudFront distribution to add a custom Cache-Control header to requests for content from the S3 bucket.
B. Modify the distribution settings to specify the protocol as HTTPS only.
C. Attach the CachingOptimized managed cache policy to the distribution.
D. Create a CloudFront invalidation.

Answer: D

NEW QUESTION 107
A company hosts a critical legacy application on two Amazon EC2 instances that are in one Availability Zone. The instances run behind an Application Load Balancer (ALB). The company uses Amazon CloudWatch alarms to send Amazon Simple Notification Service (Amazon SNS) notifications when the ALB health checks detect an unhealthy instance. After a notification, the company's engineers manually restart the unhealthy instance. A CloudOps engineer must configure the application to be highly available and more resilient to failures. Which solution will meet these requirements?

A. Create an Amazon Machine Image (AMI) from a healthy instanc
B. Launch additional instances from the AMI in the same Availability Zon
C. Add the new instances to the ALB target group.
D. Increase the size of each instanc
E. Create an Amazon EventBridge rul
F. Configure the EventBridge rule to restart the instances if they enter a failed state.
G. Create an Amazon Machine Image (AMI) from a healthy instanc
H. Launch an additional instance from the AMI in the same Availability Zon
I. Add the new instance to the ALB target grou
J. Create an AWS Lambda function that runs when an instance is unhealth
K. Configure the Lambda function to stop and restart the unhealthy instance.
L. Create an Amazon Machine Image (AMI) from a healthy instanc
M. Create a launch template that uses the AM
N. Create an Amazon EC2 Auto Scaling group that is deployed across multiple Availability Zone
O. Configure the Auto Scaling group to add instances to theALB target group.

Answer: D

NEW QUESTION 110
A company runs a retail website on multiple Amazon EC2 instances behind an Application Load Balancer (ALB). The company must secure traffic to the website over an HTTPS connection.
Which combination of actions should a SysOps administrator take to meet these requirements? (Select TWO.)

A. Attach the certificate to each EC2 instance.
B. Attach the certificate to the ALB.
C. Create a private certificate in AWS Certificate Manager (ACM).
D. Create a public certificate in AWS Certificate Manager (ACM).
E. Export the certificate, and attach it to the website.

Answer: BD

NEW QUESTION 111
Application A runs on Amazon EC2 instances behind a Network Load Balancer (NLB). The EC2 instances are in an Auto Scaling group and are in the same subnet that is associated with the NLB. Other applications from an on-premises environment cannot communicate with Application A on port 8080.
To troubleshoot the issue, a CloudOps engineer analyzes the flow logs. The flow logs include the following records:
? ACCEPT from 192.168.0.13:59003 172.31.16.139:8080
? REJECT from 172.31.16.139:8080 192.168.0.13:59003
What is the reason for the rejected traffic?

A. The security group of the EC2 instances has no Allow rule for the traffic from the NLB.

B. The security group of the NLB has no Allow rule for the traffic from the on-premises environment.
C. The ACL of the on-premises environment does not allow traffic to the AWS environment.
D. The network ACL that is associated with the subnet does not allow outbound traffic for the ephemeral port range.

Answer: D

NEW QUESTION 113
A CloudOps engineer is examining the following AWS CloudFormation template: AWSTemplateFormatVersion: '2010-09-09'
Description: 'Creates an EC2 Instance' Resources:
EC2Instance:
Type: AWS::EC2::Instance Properties:
ImageId: ami-79fd7eee InstanceType: m5n.large SubnetId: subnet-1abc3d3fg
PrivateDnsName: ip-10-24-34-0.ec2.internal Tags:
- Key: Name
Value: !Sub "${AWS::StackName} Instance" Why will the stack creation fail?

A. The Outputs section of the CloudFormation template was omitted.
B. The Parameters section of the CloudFormation template was omitted.
C. The PrivateDnsName cannot be set from a CloudFormation template.
D. The VPC was not specified in the CloudFormation template.

Answer: C

NEW QUESTION 118
A company uses AWS Systems Manager Session Manager to manage EC2 instances in the eu-west-1 Region. The company wants private connectivity using VPC endpoints.
Which VPC endpoints are required to meet these requirements? (Select THREE.)

A. com.amazonaws.eu-west-1.ssm
B. com.amazonaws.eu-west-1.ec2messages
C. com.amazonaws.eu-west-1.ec2
D. com.amazonaws.eu-west-1.ssmmessages
E. com.amazonaws.eu-west-1.s3
F. com.amazonaws.eu-west-1.states

Answer: ABD

NEW QUESTION 122
A company is storing backups in an Amazon S3 bucket. These backups must not be deleted for at least 3 months after creation.
What should the CloudOps engineer do?

A. Configure an IAM policy that denies the s3:DeleteObject action for all user
B. Three months after an object is written, remove the policy.
C. Enable S3 Object Lock on a new S3 bucket in compliance mod
D. Place all backups in the new S3 bucket with a retention period of 3 months.
E. Enable S3 Versioning on the existing S3 bucke
F. Configure S3 Lifecycle rules to protect the backups.
G. Enable S3 Object Lock on a new S3 bucket in governance mod
H. Place all backups in the new S3 bucket with a retention period of 3 months.

Answer: B

NEW QUESTION 124
A company runs thousands of Amazon EC2 instances that are based on the Amazon Linux 2 Amazon Machine Image (AMI). A SysOps administrator must implement a solution to record commands and output from any user that needs an interactive session on one of the EC2 instances. The solution must log the data to a durable storage location. The solution also must provide automated notifications and alarms that are based on the log data.
Which solution will meet these requirements with the MOST operational efficiency?

A. Configure command session logging on each EC2 instanc
B. Configure the unified Amazon CloudWatch agent to send session logs to Amazon CloudWatch Log
C. Set up query filters and alerts by using Amazon Athena.
D. Require all users to use a central bastion host when they need command line access to an EC2 instanc
E. Configure the unified Amazon CloudWatch agent on the bastion host to send session logs to Amazon CloudWatch Log
F. Set up a metric filter and a metric alarm for relevant security findings in CloudWatch Logs.
G. Require all users to use AWS Systems Manager Session Manager when they need command line access to an EC2 instanc
H. Configure Session Manager to stream session logs to Amazon CloudWatch Log
I. Set up a metric filter and a metric alarm for relevant security findings in CloudWatch Logs.
J. Configure command session logging on each EC2 instanc
K. Require all users to use AWS Systems Manager Run Command documents when they need command line access to an EC2 instanc
L. Configure the unified Amazon CloudWatch agent to send session logs to Amazon CloudWatch Log
M. Set up CloudWatch alarms that are based on Amazon Athena query results.

Answer: C

NEW QUESTION 128
A user working in the Amazon EC2 console increased the size of an Amazon Elastic Block Store (Amazon EBS) volume attached to an Amazon EC2 Windows instance. The change is not reflected in the file system.
What should a CloudOps engineer do to resolve this issue?

A. Extend the file system with operating system-level tools to use the new storage capacity.
B. Reattach the EBS volume to the EC2 instance.
C. Reboot the EC2 instance that is attached to the EBS volume.
D. Take a snapshot of the EBS volum
E. Replace the original volume with a volume that is created from the snapshot.

Answer: A

NEW QUESTION 130
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 alar
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 alar
J. Configure the notification to invoke an AWS Systems Manager Automation runbook to restart the web server software.

Answer: ACE

NEW QUESTION 133
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 136
A company??s application servers in AWS account 111122223333 use a security group sg-1234abcd. They need to access a database hosted in account 444455556666. The VPCs are connected using a VPC peering connection (pcx-b04deed9).
A CloudOps engineer must configure the database??s security group to allow new connections only from the application servers.
What should the engineer do?

A. Add an inbound rule to the database's security grou
B. Reference 111122223333/sg- 1234abcd as the source.
C. Add an inbound rule to the database's security grou
D. Reference pcx-b04deed9/sg- 1234abcd as the source.
E. Add an inbound rule to the database's security grou
F. Reference sg-1234abcd as the source.
G. Add an inbound rule to the database's security grou
H. Reference 444455556666/sg- 1234abcd as the source.

Answer: C

NEW QUESTION 139
A company is storing backups in an Amazon S3 bucket. The backups must not be deleted for at least 3 months after the backups are created.
What should a CloudOps engineer do to meet this requirement?

A. Configure an IAM policy that denies the s3:DeleteObject action for all user
B. Remove the policy after three months.
C. Enable S3 Object Lock on a new S3 bucket in compliance mod
D. Place all backups in the new S3 bucket with a retention period of 3 months.
E. Enable S3 Versioning on the existing S3 bucke
F. Configure S3 Lifecycle rules to protect the backups.
G. Enable S3 Object Lock on a new S3 bucket in governance mod
H. Place all backups in the new S3 bucket with a retention period of 3 months.

Answer: B

NEW QUESTION 143
A company needs to monitor its website's availability to end users. The company needs a solution to provide an Amazon Simple Notification Service (Amazon SNS) notification if the website's uptime decreases to less than 99%. The monitoring must provide an accurate view of the user experience on the website.
Which solution will meet these requirements?

A. Create an Amazon CloudWatch alarm that is based on the website??s logs that are published to a CloudWatch Logs log grou

B. Configure the alarm to publish an SNS notification if the number of HTTP 4xx and 5xx errors exceeds a specified threshold.
C. Create an Amazon CloudWatch alarm that is based on the website's published metrics in CloudWatc
D. Configure the alarm to publish an SNS notification based on anomaly detection.
E. Create an Amazon CloudWatch Synthetics heartbeat monitoring canar
F. Associate the canary with the website??s UR
G. Create a CloudWatch alarm for the canar
H. Configure the alarm to publish an SNS notification if the value of the SuccessPercent metric is less than 99%.
I. Create an Amazon CloudWatch Synthetics broken link checker monitoring canar
J. Associate the canary with the website??s UR
K. Create a CloudWatch alarm for the canar
L. Configure the alarm to publish an SNS notification if the value of the SuccessPercent metric is less than 99%.

Answer: C

NEW QUESTION 146
A CloudOps engineer is preparing to deploy an application to Amazon EC2 instances that are in an Auto Scaling group. The application requires dependencies to be installed. Application updates are issued weekly.
The CloudOps engineer needs to implement a solution to incorporate the application updates on a regular basis. The solution also must conduct a vulnerability scan during Amazon Machine Image (AMI) creation.
What is the MOST operationally efficient solution that meets these requirements?

A. Create a script that uses Packer and schedule a cron job.
B. Install the application and dependencies on an EC2 instance and create an AMI.
C. Use EC2 Image Builder with a custom recipe to install the application and dependencies.
D. Invoke the EC2 CreateImage API operation by using an EventBridge scheduled rule.

Answer: C

NEW QUESTION 149
A company plans to migrate several of its high-performance computing (HPC) virtual machines to Amazon EC2. The deployment must minimize network latency and maximize network throughput between the instances.
Which placement group strategy should the CloudOps engineer choose?

A. Deploy the instances in a cluster placement group in one Availability Zone.
B. Deploy the instances in a partition placement group in two Availability Zones.
C. Deploy the instances in a partition placement group in one Availability Zone.
D. Deploy the instances in a spread placement group in two Availability Zones.

Answer: A

NEW QUESTION 154
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