



# Amazon-Web-Services

## Exam Questions SOA-C03

AWS Certified CloudOps Engineer - Associate

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#### 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'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 4

A company runs an application on Amazon EC2 instances in an Auto Scaling group. Scale-out actions take a long time because of long-running boot scripts. The CloudOps engineer must reduce scale-out time without overprovisioning. Which solution will meet these requirements?

- A. Change the launch configuration to use a larger instance size.
- B. Increase the minimum number of instances in the Auto Scaling group.
- C. Add a predictive scaling policy to the Auto Scaling group.
- D. Add a warm pool to the Auto Scaling group.

**Answer: D**

#### NEW QUESTION 5

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 6

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 7

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 8

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 9

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 each
- B. Use a Systems Manager Run Command document to download and install the package
- C. Run each batch one time.
- D. Use an AWS Lambda function to automatically run a Systems Manager Run Command document
- 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 10

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 10

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 monitorin
- B. Add an action to restart the instance.
- C. Create an Amazon CloudWatch alarm for the EC2 instance with detailed monitorin
- 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 11

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 is using an Amazon Aurora MySQL DB cluster that has point-in-time recovery, backtracking, and automatic backups enabled. A CloudOps engineer needs to be able to roll back the DB cluster to a specific recovery point within the previous 72 hours. Restores must be completed in the same production DB cluster.

Which solution will meet these requirements?

- A. Create an Aurora Replic
- B. Promote the replica to replace the primary DB instance.
- C. Create an AWS Lambda function to restore an automatic backup to the existing DB cluster.
- D. Use backtracking to rewind the existing DB cluster to the desired recovery point.
- E. Use point-in-time recovery to restore the existing DB cluster to the desired recovery point.

**Answer: C**

#### NEW QUESTION 20

A company must ensure that all Amazon EC2 Windows instances that are launched in an AWS account have a third-party agent installed. The company uses AWS Systems Manager, and the Windows instances are tagged appropriately. The company must deploy periodic updates to the third-party agent when the updates become available.

Which combination of steps will meet these requirements with the LEAST operational effort? (Select TWO.)

- A. Create a Systems Manager Distributor package for the third-party agent.
- B. Create a Systems Manager OpsItem that includes the tag value for Window
- C. Attach Systems Manager inventory to the OpsItem.
- D. Create an AWS Lambda functio
- E. Program the Lambda function to log in to each instance and to install or update the third-party agent as needed.
- F. Create a Systems Manager State Manager association to run the AWS- RunRemoteScript documen
- G. Populate the details of the third-party agent package.
- H. Create a Systems Manager State Manager association to run the AWS- ConfigureAWSPackage documen
- I. Populate the details of the third-party agent packag
- J. Specify instance targets based on the appropriate tag value for Windows.

**Answer: AE**

#### NEW QUESTION 22

A company uses hundreds of Amazon EC2 On-Demand Instances and Spot Instances to run production and non-production workloads. The company installs and configures the AWS Systems Manager Agent (SSM Agent) on the EC2 instances.

During a recent instance patch operation, some instances were not patched because the instances were either busy or down. The company needs to generate a report that lists the current patch version of all instances.

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

- A. Use Systems Manager Inventory to collect patch version
- B. Generate a report of all instances.
- C. Use Systems Manager Run Command to remotely collect patch version informatio
- D. Generate a report of all instances.
- E. Use AWS Config to track EC2 instance configuration changes by using output from the SSM Agent
- F. Create a custom rule to check for patch version
- G. Generate a report of all unpatched instances.
- H. Use AWS Config to monitor the patch status of the EC2 instances by using output from the SSM Agent
- I. Create a configuration compliance rule to check whether patches are installe
- J. Generate a report of all instances.

**Answer: A**

#### NEW QUESTION 24

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 29

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 34

A CloudOps engineer is using AWS Compute Optimizer to generate recommendations for a fleet of Amazon EC2 instances. Some of the instances use newly released instance types, while other instances use older instance types.

After the analysis is complete, the CloudOps engineer notices that some of the EC2 instances are missing from the Compute Optimizer dashboard.

What is the likely cause of this issue?

- A. The missing instances have insufficient historical Amazon CloudWatch metric data for analysis.
- B. Compute Optimizer does not support the instance types of the missing instances.
- C. Compute Optimizer already considers the missing instances to be optimized.
- D. The missing instances are running a Windows operating system.

**Answer: B**

#### NEW QUESTION 35

A company's CloudOps engineer is troubleshooting communication between the components of an application. The company configured VPC flow logs to be published to Amazon CloudWatch Logs. However, there are no logs in CloudWatch Logs.

What could be blocking the VPC flow logs from being published to CloudWatch Logs?

- A. The IAM policy attached to the IAM role for the flow log is missing the logs:CreateLogGroup permission.
- B. The IAM policy attached to the IAM role for the flow log is missing the logs:CreateExportTask permission.
- C. The VPC is configured for IPv6 addresses.
- D. The VPC is peered with another VPC in the AWS account.

**Answer: A**

#### NEW QUESTION 36

A financial services company stores customer images in an Amazon S3 bucket in the us-east-1 Region. To comply with regulations, the company must ensure that all existing objects are replicated to an S3 bucket in a second AWS Region. If an object replication fails, the company must be able to retry replication for the object.

What solution will meet these requirements?

- A. Configure Amazon S3 Cross-Region Replication (CRR). Use Amazon S3 live replication to replicate existing objects.
- B. Configure Amazon S3 Cross-Region Replication (CRR). Use S3 Batch Replication to replicate existing objects.
- C. Configure Amazon S3 Cross-Region Replication (CRR). Use S3 Replication Time Control (S3 RTC) to replicate existing objects.
- D. Use S3 Lifecycle rules to move objects to the destination bucket in a second Region.

**Answer: B**

#### NEW QUESTION 38

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 43

A medical research company uses an Amazon Bedrock powered AI assistant with agents and knowledge bases to provide physicians quick access to medical

study protocols. The company needs to generate audit reports that contain user identities, usage data for Bedrock agents, access data for knowledge bases, and interaction parameters.

Which solution will meet these requirements?

- A. Use AWS CloudTrail to log API events from generative AI workload
- B. Store the events in CloudTrail Lak
- C. Use SQL-like queries to generate reports.
- D. Use Amazon CloudWatch to capture generative AI application log
- E. Stream the logs to Amazon OpenSearch Servic
- F. Use an OpenSearch dashboard visualization to generate reports.
- G. Use Amazon CloudWatch to log API events from generative AI workload
- H. Send the events to an Amazon S3 bucke
- I. Use Amazon Athena queries to generate reports.
- J. Use AWS CloudTrail to capture generative AI application log
- K. Stream the logs to Amazon Managed Service for Apache Flin
- L. Use SQL queries to generate reports.

**Answer: A**

#### NEW QUESTION 46

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 dashboard
- B. Run the command each time a new CloudFormation stack is created.
- C. Export the existing CloudWatch dashboard as JSON
- D. Update the CloudFormation template to define an `AWS::CloudWatch::Dashboard` resource
- E. Include the exported JSON in the resource's `DashboardBody` property.
- F. Update the CloudFormation template to define an `AWS::CloudWatch::Dashboard` resource
- 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` resource
- I. Specify the name of the existing dashboard in the `DashboardName` property.

**Answer: B**

#### NEW QUESTION 50

A CloudOps engineer needs to build an event infrastructure for custom application-specific events. The events must be sent to an AWS Lambda function for processing. The CloudOps engineer must record the events so they can be replayed later by event type or event time.

Which solution will meet these requirements?

- A. Create an Amazon EventBridge custom event bus, create an archive, and create a rule to send events to Lambda.
- B. Create an archive on the default event bus and use pattern matching.
- C. Create an EventBridge pipe and store events in an archive.
- D. Create a CloudWatch Logs log group and route events there.

**Answer: A**

#### NEW QUESTION 54

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 CloudWate
- 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 59

A company plans to run a public web application on Amazon EC2 instances behind an Elastic Load Balancing (ELB) load balancer. The company's security team wants to protect the website by using AWS Certificate Manager (ACM) certificates. The load balancer must automatically redirect any HTTP requests to HTTPS.

Which solution will meet these requirements?

- A. Create an Application Load Balancer that has one HTTPS listener on port 80. Attach an SSL/TLS certificate to port 80.
- B. Create an Application Load Balancer that has one HTTP listener on port 80 and one HTTPS listener on port 443. Attach an SSL/TLS certificate to port 443. Create a rule to redirect requests from port 80 to port 443.
- C. Create an Application Load Balancer that has two TCP listeners on ports 80 and 443. Attach an SSL/TLS certificate to port 443.
- D. Create a Network Load Balancer with TCP listeners on ports 80 and 443. Attach an SSL/TLS certificate to port 443.

**Answer: B**

#### NEW QUESTION 61

A company runs applications on Amazon EC2 instances. The company wants to ensure that SSH ports on the EC2 instances are never open. The company has enabled AWS Config and has set up the restricted-ssh AWS managed rule.

A CloudOps engineer must implement a solution to remediate SSH port access for noncompliant security groups.

What should the engineer do to meet this requirement with the MOST operational efficiency?

- A. Configure the AWS Config rule to identify noncompliant security group
- B. Configure the rule to use the AWS-PublishSNSNotification AWS Systems Manager Automation runbook to send notifications about noncompliant resources.
- C. Configure the AWS Config rule to identify noncompliant security group
- D. Configure the rule to use the AWS-DisableIncomingSSHOnPort22 AWS Systems Manager Automation runbook to remediate noncompliant resources.
- E. Make an AWS Config API call to search for noncompliant security group
- F. Disable SSH access for noncompliant security groups by using a Deny rule.
- G. Configure the AWS Config rule to identify noncompliant security group
- H. Manually update each noncompliant security group to remove the Allow rule.

**Answer: B**

#### NEW QUESTION 65

A global gaming company is preparing to launch a new game on AWS. The game runs in multiple AWS Regions on a fleet of Amazon EC2 instances. The instances are in an Auto Scaling group behind an Application Load Balancer (ALB) in each Region. The company plans to use Amazon Route 53 for DNS services. The DNS configuration must direct users to the Region that is closest to them and must provide automated failover.

Which combination of steps should a CloudOps engineer take to configure Route 53 to meet these requirements? (Select TWO.)

- A. Create Amazon CloudWatch alarms that monitor the health of the ALB in each Region
- B. Configure Route 53 DNS failover by using a health check that monitors the alarms.
- C. Create Amazon CloudWatch alarms that monitor the health of the EC2 instances in each Region
- D. Configure Route 53 DNS failover by using a health check that monitors the alarms.
- E. Configure Route 53 DNS failover by using a health check that monitors the private IP address of an EC2 instance in each Region.
- F. Configure Route 53 geoproximity routing
- G. Specify the Regions that are used for the infrastructure.
- H. Configure Route 53 simple routing
- I. Specify the continent, country, and state or province that are used for the infrastructure.

**Answer: AD**

#### NEW QUESTION 69

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 73

A company's CloudOps engineer monitors multiple AWS accounts in an organization and checks each account's AWS Health Dashboard. After adding 10 new accounts, the engineer wants to consolidate health alerts from all accounts.

Which solution meets this requirement with the least operational effort?

- A. Enable organizational view in AWS Health.
- B. Configure the Health Dashboard in each account to forward events to a central AWS CloudTrail log.
- C. Create an AWS Lambda function to query the AWS Health API and write all events to an Amazon DynamoDB table.
- D. Use the AWS Health API to write events to an Amazon DynamoDB table.

**Answer: A**

#### NEW QUESTION 76

A company needs to enforce tagging requirements for Amazon DynamoDB tables in its AWS accounts. A CloudOps engineer must implement a solution to identify and remediate all DynamoDB tables that do not have the appropriate tags.

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

- A. Create a custom AWS Lambda function to evaluate and remediate all DynamoDB tables
- B. Create an Amazon EventBridge scheduled rule to invoke the Lambda function.
- C. Create a custom AWS Lambda function to evaluate and remediate all DynamoDB tables

- D. Create an AWS Config custom rule to invoke the Lambda function.
- E. Use the required-tags AWS Config managed rule to evaluate all DynamoDB tables for the appropriate tag
- F. Configure an automatic remediation action that uses an AWS Systems Manager Automation custom runbook.
- G. Create an Amazon EventBridge managed rule to evaluate all DynamoDB tables for the appropriate tag
- H. Configure the EventBridge rule to run an AWS Systems Manager Automation custom runbook for remediation.

**Answer: C**

#### NEW QUESTION 78

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 79

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 83

A company deploys an application on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB). The company wants to protect the application from SQL injection attacks.

Which solution will meet this requirement?

- A. Deploy AWS Shield Advanced in front of the ALB
- B. Enable SQL injection filtering.
- C. Deploy AWS Shield Standard in front of the ALB
- D. Enable SQL injection filtering.
- E. Deploy a vulnerability scanner on each EC2 instance
- F. Continuously scan the application code.
- G. Deploy AWS WAF in front of the ALB
- H. Subscribe to an AWS Managed Rule for SQL injection filtering.

**Answer: D**

#### NEW QUESTION 84

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 85

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 88

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 91

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 94

A company uses AWS Organizations to manage multiple AWS accounts. A CloudOps engineer must identify all IPv4 ports open to 0.0.0.0/0 across the organization's accounts. Which solution will meet this requirement with the LEAST operational effort?

- A. Use the AWS CLI to print all security group rules for review.
- B. Review AWS Trusted Advisor findings in an organizational view for the Security Groups – Specific Ports Unrestricted check.
- C. Create an AWS Lambda function to gather security group rules from all accounts
- D. Aggregate the findings in an Amazon S3 bucket.
- E. Enable Amazon Inspector in each account
- F. Run an automated workload discovery job.

**Answer:** B

#### NEW QUESTION 99

A CloudOps engineer has created a VPC that contains a public subnet and a private subnet. Amazon EC2 instances that were launched in the private subnet cannot access the internet. The default network ACL is active on all subnets in the VPC, and all security groups allow outbound traffic. Which solution will provide the EC2 instances in the private subnet with access to the internet?

- A. Create a NAT gateway in the public subnet
- B. Create a route from the private subnet to the NAT gateway.
- C. Create a NAT gateway in the private subnet
- D. Create a route from the public subnet to the NAT gateway.
- E. Create a NAT gateway in the private subnet
- F. Create a route from the public subnet to the NAT gateway.
- G. Create a NAT gateway in the public subnet
- H. Create a route from the private subnet to the NAT gateway.

**Answer:** A

#### NEW QUESTION 101

A CloudOps engineer creates a new VPC that includes a public subnet and a private subnet. The CloudOps engineer successfully launches 11 Amazon EC2 instances in the private subnet. The CloudOps engineer attempts to launch one more EC2 instance in the same subnet but receives an error stating that not enough free IP addresses are available. What must the CloudOps engineer do to deploy more EC2 instances?

- A. Edit the private subnet to change the CIDR block to /27.
- B. Edit the private subnet to extend across a second Availability Zone.
- C. Assign additional Elastic IP addresses to the private subnet.
- D. Create a new private subnet to hold the required EC2 instances.

**Answer:** D

#### NEW QUESTION 105

A web application runs on Amazon EC2 instances in the us-east-1 Region and the us-west-2 Region. The instances run behind an Application Load Balancer (ALB) in each Region. An Amazon Route 53 hosted zone controls DNS records. The instances in us-east-1 are production resources. The instances in us-west-2 are for disaster recovery. EC2 Auto Scaling groups are configured based on the ALBRequestCountPerTarget metric in both Regions. A SysOps administrator must implement a solution that provides failover from us-east-1 to us-west-2. The instances in us-west-2 must be used only for failover. Which solution will meet these requirements?

- A. Implement a Route 53 health check and a failover routing policy for the hosted zone
- B. Configure the failover routing policy to automatically redirect traffic to the resources in us-west-2.
- C. Implement a Route 53 health check and a latency routing policy for the hosted zone
- D. Configure the latency routing policy to automatically redirect traffic to the resources in us-west-2.
- E. In us-east-1, create an Amazon CloudWatch alarm that enters ALARM state when an EC2 instance is terminated
- F. In us-west-2, create an AWS Lambda function that modifies the Route 53 hosted zone records to send traffic to us-west-2. Configure the CloudWatch alarm to

invoke the Lambda function.

G. In us-west-2, create an Amazon CloudWatch alarm that enters ALARM state when resources in us-east-1 cannot be resolve

H. In us-west-2, create an AWS Lambda function that modifies the Route 53 hosted zone records to send traffic to us-west-2. Configure the CloudWatch alarm to invoke the Lambda function.

**Answer:** A

#### NEW QUESTION 106

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

**Answer:** A

#### NEW QUESTION 110

A multinational company uses an organization in AWS Organizations to manage over 200 member accounts across multiple AWS Regions. The company must ensure that all AWS resources meet specific security requirements.

The company must not deploy any EC2 instances in the ap-southeast-2 Region. The company must completely block root user actions in all member accounts.

The company must prevent any user from deleting AWS CloudTrail logs, including administrators. The company requires a centrally managed solution that the company can automatically apply to all existing and future accounts. Which solution will meet these requirements?

- A. Create AWS Config rules with remediation actions in each account to detect policy violation
- B. Implement IAM permissions boundaries for the account root users.
- C. Enable AWS Security Hub across the organizatio
- D. Create custom security standards to enforce the security requirement
- E. Use AWS CloudFormation StackSets to deploy the standards to all the accounts in the organizatio
- F. Set up Security Hub automated remediation actions.
- G. Use AWS Control Tower for account governanc
- H. Configure Region deny control
- I. UseService Control Policies (SCPs) to restrict root user access.
- J. Configure AWS Firewall Manager with security policies to meet the security requirement
- K. Use an AWS Config aggregator with organization-wide conformance packs to detect security policy violations.

**Answer:** C

#### NEW QUESTION 111

A company is migrating a legacy application to AWS. The application runs on EC2 instances across multiple Availability Zones behind an Application Load Balancer (ALB). The target group routing algorithm is set to weighted random, and the application requires session affinity (sticky sessions).

After deployment, users report random application errors that were not present before migration, even though target health checks are passing.

Which solution will meet this requirement?

- A. Set the routing algorithm of the target group to least outstanding requests.
- B. Turn on anomaly mitigation for the target group.
- C. Turn off the cross-zone load balancing attribute of the target group.
- D. Increase the deregistration delay attribute of the target group.

**Answer:** A

#### NEW QUESTION 112

A company asks a SysOps administrator to provision an additional environment for an application in four additional AWS Regions. The application is running on more than 100 Amazon EC2 instances in the us-east-1 Region, using fully configured Amazon Machine Images (AMIs). The company has an AWS CloudFormation template to deploy resources in us-east-1.

What should the SysOps administrator do to provision the application in the MOST operationally efficient manner?

- A. Copy the AMI to each Region by using the aws ec2 copy-image comman
- B. Update the CloudFormation template to include mappings for the copied AMIs.
- C. Create a snapshot of the running instanc
- D. Copy the snapshot to the other Region
- E. Create an AMI from the snapshot

- F. Update the CloudFormation template for each Region to use the new AMI.
- G. Run the existing CloudFormation template in each additional Region based on the success of the template that is used currently in us-east-1.
- H. Update the CloudFormation template to include the additional Regions in the Auto Scaling group.
- I. Update the existing stack in us-east-1.

**Answer:** A

#### NEW QUESTION 116

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 119

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 121

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 125

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 proxy.
- C. Configure the Lambda function to connect to the DB instance through the proxy.
- D. Deploy a NAT gateway.
- 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 130

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 configuratio
- D. When the replication process finishes, fail over to the new encrypted file system.
- E. Directly modify the file system to use encryptio
- F. Specify the KMS customer managed key.
- G. Use Amazon EFS replication to create a new file syste
- H. Copy the data and metadata from the existing file system to the new file syste
- I. Generate a new TLS certificat
- J. Specify the TLS certificate in the replication configuratio
- 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 ke
- M. Create an Amazon EC2 instance to copy the file
- N. Mount the encrypted file system and unencrypted file system on the instanc
- O. Copy all data from the unencrypted file system to the encrypted file syste
- P. Unmount the unencrypted file system and remove the temporary instance.

**Answer: A**

#### NEW QUESTION 131

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 136

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 137

A company requires the rotation of administrative credentials for production workloads on a regular basis. A CloudOps engineer must implement this policy for an Amazon RDS DB instance's master user password.

Which solution will meet this requirement with the LEAST operational effort?

- A. Create an AWS Lambda function to change the RDS master user passwor
- B. Create an Amazon EventBridge scheduled rule to invoke the Lambda function.
- C. Create a new SecureString parameter in AWS Systems Manager Parameter Stor
- D. Encrypt the parameter with an AWS Key Management Service (AWS KMS) ke
- E. Configure automatic rotation.
- F. Create a new String parameter in AWS Systems Manager Parameter Stor
- G. Configure automatic rotation.
- H. Create a new RDS database secret in AWS Secrets Manage
- I. Apply the secret to the RDS DB instanc
- J. Configure automatic rotation.

**Answer: D**

#### NEW QUESTION 141

A company's AWS accounts are in an organization in AWS Organizations. The organization has all features enabled. The accounts use Amazon EC2 instances to host applications. The company manages the EC2 instances manually by using the AWS Management Console. The company applies updates to the EC2 instances by using an SSH connection to each EC2 instance.

The company needs a solution that uses AWS Systems Manager to manage all the organization's current and future EC2 instances. The latest version of Systems Manager Agent (SSM Agent) is running on the EC2 instances.

Which solution will meet these requirements?

- A. Configure a home AWS Region in Systems Manager Quick Setup in the organization's management accoun
- B. Deploy the Systems Manager Default Host Management Configuration Quick Setup from the management account.
- C. Configure a home AWS Region in Systems Manager Quick Setup in the organization's management accoun
- D. Create a Systems Manager Run Command that attaches the AmazonSSMServiceRolePolicy IAM policy to every IAM role that the EC2 instances us

- E. Invoke the command in every account in the organization.
- F. Create an AWS CloudFormation stack set that contains a Systems Manager parameter to define the Default Host Management Configuration rol
- G. Use the organization's management account to deploy the stack set to every account in the organization.
- H. Create an AWS CloudFormation stack set that contains an EC2 instance profile with the AmazonSSMManagedEC2InstanceDefaultPolicy IAM policy attache
- I. Use the organization's management account to deploy the stack set to every account in the organization.

**Answer:** A

#### NEW QUESTION 145

A CloudOps engineer wants to share a copy of a production database with a migration account. The production database is hosted on an Amazon RDS DB instance and is encrypted at rest with an AWS Key Management Service (AWS KMS) key that has an alias of production-rds-key. What must the CloudOps engineer do to meet these requirements with the LEAST administrative overhead?

- A. Take a snapshot of the RDS DB instanc
- B. Update the KMS key policy to allow access for the migration account root use
- C. Share the snapshot with the migration account.
- D. Create an RDS read replica in the migration accoun
- E. Replicate the KMS key.
- F. Take a snapshot and create a new KMS key in the migration account with the same alias.
- G. Export the database to Amazon S3 and import it into a new RDS instance.

**Answer:** A

#### NEW QUESTION 150

A CloudOps engineer has successfully deployed a VPC with an AWS CloudFormation template. The CloudOps engineer wants to deploy the same template across multiple accounts that are managed through AWS Organizations. Which solution will meet this requirement with the LEAST operational overhead?

- A. Assume the OrganizationAccountAccessRole IAM role from the management accoun
- B. Deploy the template in each of the accounts.
- C. Create an AWS Lambda function to assume a role in each account
- D. Deploy the template by using the AWS CloudFormation CreateStack API call.
- E. Create an AWS Lambda function to query for a list of account
- F. Deploy the template by using the AWS CloudFormation CreateStack API call.
- G. Use AWS CloudFormation StackSets from the management account to deploy the template in each of the accounts.

**Answer:** D

#### NEW QUESTION 155

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 157

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 162

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 167

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 168

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 instance
- B. Launch additional instances from the AMI in the same Availability Zone
- C. Add the new instances to the ALB target group.
- D. Increase the size of each instance
- E. Create an Amazon EventBridge rule
- 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 instance
- H. Launch an additional instance from the AMI in the same Availability Zone
- I. Add the new instance to the ALB target group
- J. Create an AWS Lambda function that runs when an instance is unhealthy
- K. Configure the Lambda function to stop and restart the unhealthy instance.
- L. Create an Amazon Machine Image (AMI) from a healthy instance
- M. Create a launch template that uses the AMI
- N. Create an Amazon EC2 Auto Scaling group that is deployed across multiple Availability Zones
- O. Configure the Auto Scaling group to add instances to the ALB target group.

**Answer: D**

#### NEW QUESTION 171

A company that uses AWS Organizations recently implemented AWS Control Tower. The company now needs to centralize identity management. A CloudOps engineer must federate AWS IAM Identity Center with an external SAML 2.0 identity provider (IdP) to centrally manage access to all AWS accounts and cloud applications.

Which prerequisites must the CloudOps engineer have so that the CloudOps engineer can connect to the external IdP? (Select TWO.)

- A. A copy of the IAM Identity Center SAML metadata
- B. The IdP metadata, including the public X.509 certificate
- C. The IP address of the IdP
- D. Root access to the management account
- E. Administrative permissions to the member accounts of the organization

**Answer: AB**

#### NEW QUESTION 174

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 176

A CloudOps engineer is troubleshooting an implementation of Amazon CloudWatch Synthetics. The CloudWatch Synthetics results must be sent to an Amazon S3 bucket.

The CloudOps engineer has copied the configuration of an existing canary that runs on a VPC that has an internet gateway attached. However, the CloudOps engineer cannot get the canary to successfully start on a private VPC that has no internet access.

What should the CloudOps engineer do to successfully run the canary on the private VPC?

- A. Ensure that the DNS resolution option and the DNS hostnames option are turned on in the VPC
- B. Add the synthetics:GetCanaryRuns permission to the VPC
- C. On the S3 bucket, add the IgnorePublicAcls permission to the CloudWatch Synthetics role.
- D. Ensure that the DNS resolution option and the DNS hostnames option are turned off in the VPC
- E. Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use the S3 endpoint.
- F. Ensure that the DNS resolution option and the DNS hostnames option are turned off in the VPC
- G. Add a security group to the canary to allow outbound traffic on the DNS port
- H. Add the permissions to allow CloudWatch Synthetics to write to the S3 bucket.

- I. Ensure that the DNS resolution option and the DNS hostnames option are turned on in the VP
- J. Create an interface VPC endpoint for CloudWatc
- K. Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use both endpoints.

**Answer:** D

#### NEW QUESTION 179

A CloudOps engineer wants to provide access to AWS services by attaching an IAM policy to multiple IAM users. The CloudOps engineer also wants to be able to change the policy and create new versions.

Which combination of actions will meet these requirements? (Select TWO.)

- A. Add the users to an IAM service-linked rol
- B. Attach the policy to the role.
- C. Add the users to an IAM user grou
- D. Attach the policy to the group.
- E. Create an AWS managed policy.
- F. Create a customer managed policy.
- G. Create an inline policy.

**Answer:** BD

#### NEW QUESTION 181

A SysOps administrator needs to give an existing AWS Lambda function access to an existing Amazon S3 bucket. Traffic between the Lambda function and the S3 bucket must not use public IP addresses. The Lambda function has been configured to run in a VPC.

Which solution will meet these requirements?

- A. Configure VPC sharing between the Lambda VPC and the S3 bucket.
- B. Attach a transit gateway to the Lambda VPC to allow the Lambda function to connect to the S3 bucket.
- C. Create a NAT gatewa
- D. Associate the NAT gateway with the subnet where the Lambda function is configured to run.
- E. Create an S3 interface endpoint
- F. Change the Lambda function to use the new S3 DNS name.

**Answer:** D

#### NEW QUESTION 183

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 187

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 189

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 191

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 volume.
- E. Replace the original volume with a volume that is created from the snapshot.

**Answer: A**

#### NEW QUESTION 196

A media company hosts a public news and video portal on AWS. The portal uses an Amazon DynamoDB table with provisioned capacity to maintain an index of video files that are stored in an Amazon S3 bucket. During a recent event, millions of visitors came to the portal for news. This increase in traffic caused read requests to be throttled in the DynamoDB table. Videos could not be displayed in the portal.

The company's operations team manually increased the provisioned capacity on a temporary basis to meet the demand. The company wants the operations team to receive an alert before the table is throttled in the future. The company has created an Amazon Simple Notification Service (Amazon SNS) topic and has subscribed the operations team's email address to the SNS topic.

What should the company do next to meet these requirements?

- A. Create an Amazon CloudWatch alarm that uses the ConsumedReadCapacityUnits metric.
- B. Set the alarm threshold to a value that is close to the DynamoDB table's provisioned capacity.
- C. Configure the alarm to publish notifications to the SNS topic.
- D. Turn on auto scaling on the DynamoDB table.
- E. Configure an Amazon EventBridge rule to publish notifications to the SNS topic during scaling events.
- F. Turn on Amazon CloudWatch Logs for the DynamoDB table.
- G. Create an Amazon CloudWatch metric filter to pattern match the THROTTLING\_EXCEPTION status code from DynamoDB.
- H. Create a CloudWatch alarm for the metric.
- I. Select the SNS topic for notifications.
- J. Configure the application to store logs in Amazon CloudWatch Log.
- K. Create an Amazon CloudWatch metric filter to pattern match the THROTTLING\_EXCEPTION status code from DynamoDB.
- L. Create a CloudWatch alarm for the metric.
- M. Select the SNS topic for notifications.

**Answer: A**

#### NEW QUESTION 201

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

**Answer: C**

#### NEW QUESTION 204

A CloudOps engineer created a VPC with a private subnet, a security group allowing all outbound traffic, and an endpoint for EC2 Instance Connect in the private subnet. The EC2 instance was launched without an SSH key pair, using the same subnet and security group. However, the engineer cannot connect via EC2 Instance Connect endpoint.

How can the CloudOps engineer connect to the instance?

- A. Create an inbound rule in the security group to allow HTTPS traffic on port 443 from the private subnet.
- B. Create an inbound rule in the security group to allow SSH traffic on port 22 from the private subnet.
- C. Create an IAM instance profile that allows AWS Systems Manager Session Manager to access the EC2 instance.
- D. Associate the instance profile with the instance.
- E. Recreate the EC2 instance.
- F. Associate an SSH key pair with the instance.

**Answer: C**

#### NEW QUESTION 206

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 208**

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