



# Amazon-Web-Services

## Exam Questions SOA-C03

AWS Certified CloudOps Engineer - Associate

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#### NEW QUESTION 1

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 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 uses an AWS Lambda function to process user uploads to an Amazon S3 bucket. The Lambda function runs in response to Amazon S3 PutObject events.

A SysOps administrator needs to set up monitoring for the Lambda function. The SysOps administrator wants to receive a notification through an Amazon Simple Notification Service (Amazon SNS) topic if the function takes more than 10 seconds to process an event.

Which solution will meet this requirement?

- A. Collect Amazon CloudWatch logs for the Lambda function.
- B. Create a metric filter to extract the PostRuntimeExtensionsDuration metric from the log.
- C. Create a CloudWatch alarm to publish a notification to the SNS topic when the function runtime exceeds 10 seconds.
- D. Collect Amazon CloudWatch metrics for the Lambda function to extract the function runtime.
- E. Create a CloudWatch alarm to publish a notification to the SNS topic when the runtime exceeds 10 seconds.
- F. Configure an Amazon CloudWatch metric filter to capture the runtime of the Lambda function.
- G. Set the function's timeout setting to 10 seconds.
- H. Create an SNS subscription to alert the SysOps administrator if the function times out.
- I. Use Amazon CloudWatch Logs Insights to query Lambda logs for the function runtime.
- J. Set up a CloudWatch alarm based on the query result.
- K. Configure Amazon SNS to send notifications when function runtime exceeds 10 seconds.

**Answer: B**

#### NEW QUESTION 4

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 5

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

**Answer: A**

#### NEW QUESTION 6

An AWS CloudFormation template creates an Amazon RDS instance. This template is used to build up development environments as needed and then delete the

stack when the environment is no longer required. The RDS-persisted data must be retained for further use, even after the CloudFormation stack is deleted. How can this be achieved in a reliable and efficient way?

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

**Answer: C**

#### NEW QUESTION 7

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 8

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

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

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

**Answer: B**

#### NEW QUESTION 9

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 10

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 10

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 action
- B. Configure the action to run at times when the application typically experiences an increase in traffic.
- C. Configure a simple scaling policy
- 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 11

A company hosts an encrypted Amazon S3 bucket in the ap-southeast-2 Region. Users from the eu-west-2 Region access the S3 bucket through the internet. The users from eu-west-2 need faster transfers to and from the S3 bucket for large files. Which solution will meet these requirements?

- A. Create an S3 access point in eu-west-2 to use as the destination for S3 replication from ap-southeast-2. Ensure all users switch to the new S3 access point.
- B. Create an Amazon Route 53 hosted zone with a geolocation routing polic
- C. Choose the Alias to S3 website endpoint optio
- D. Specify the S3 bucket that is in ap-southeast-2 as the source bucket.
- E. Create a new S3 bucket in eu-west-2. Copy all contents from ap-southeast-2 to the new bucket in eu-west-2. Create an S3 access point, and associate it with both bucket
- F. Ensure users use the new S3 access point.
- G. Configure and activate S3 Transfer Acceleration on the S3 bucke
- H. Use the new S3 acceleration endpoint's domain name for access.

**Answer: D**

#### NEW QUESTION 13

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 16

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?

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 17

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.)

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 18

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 20

A company is implementing security and compliance by using AWS Trusted Advisor. The company's CloudOps team is validating the list of Trusted Advisor checks that it can access.

Which factor will affect the quantity of available Trusted Advisor checks?

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

**Answer: B**

#### NEW QUESTION 24

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 27

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 28

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 29

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 33

A company has a multi-account AWS environment that includes the following:

- A central identity account that contains all IAM users and groups
- Several member accounts that contain IAM roles

A SysOps administrator must grant permissions for a particular IAM group to assume a role in one of the member accounts. How should the SysOps administrator accomplish this task?

- A. In the member account, add sts:AssumeRole permissions to the role's policy
- B. In the identity account, add a trust policy to the group that specifies the account number of the member account.
- C. In the member account, add the group Amazon Resource Name (ARN) to the role's trust policy
- D. In the identity account, add an inline policy to the group with sts:AssumeRole permissions.
- E. In the member account, add the group Amazon Resource Name (ARN) to the role's trust policy
- F. In the identity account, add an inline policy to the group with sts:PassRole permissions.
- G. In the member account, add the group Amazon Resource Name (ARN) to the role's inline policy
- H. In the identity account, add a trust policy to the group with sts:AssumeRole permissions.

**Answer: B**

### NEW QUESTION 36

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 38

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 43

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 45

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 50

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 AL
- B. Enable SQL injection filtering.
- C. Deploy AWS Shield Standard in front of the AL
- 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 AL
- H. Subscribe to an AWS Managed Rule for SQL injection filtering.

**Answer:** D

#### NEW QUESTION 51

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 52

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 57

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 and 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. Create a read replica in a second Availability Zone and enable Multi-AZ for the Redis replication group.
- D. Enable automatic backups and restore the backups when necessary.

**Answer:** C

#### NEW QUESTION 59

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 60

A company has a microservice that runs on a set of Amazon EC2 instances. The EC2 instances run 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 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 63

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 account
- 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 64

A company operates compute resources in a VPC and in the company's on-premises data center. The company already has an AWS Direct Connect connection between the VPC and the on-premises data center.

A CloudOps engineer needs to ensure that Amazon EC2 instances in the VPC can resolve DNS names for hosts in the on-premises data center. Which solution will meet this requirement with the LEAST amount of ongoing maintenance?

- A. Create an Amazon Route 53 private hosted zone
- B. Populate the zone with the hostnames and IP addresses of the hosts in the on-premises data center.
- C. Create an Amazon Route 53 Resolver outbound endpoint
- D. Add the IP addresses of an on-premises DNS server for the domain names that need to be forwarded.
- E. Set up a forwarding rule for reverse DNS queries in Amazon Route 53 Resolver
- F. Set the enableDnsHostnames attribute to true for the VPC.
- G. Add the hostnames and IP addresses for the on-premises hosts to the /etc/hosts file of each EC2 instance.

**Answer: B**

#### NEW QUESTION 69

To comply with regulations, a SysOps administrator needs to back up an Amazon EC2 Amazon Machine Image (AMI) to an Amazon S3 bucket. If the SysOps administrator restores the AMI from the bucket in the future, the AMI must use the same AMI image ID as the original AMI.

Which solution will meet this requirement?

- A. Create a copy of the AMI
- B. Specify the destination S3 bucket
- C. Set the launch permissions to implicit.
- D. Archive the snapshot that is associated with the AMI
- E. Specify the S3 bucket as the archive destination.
- F. Create a store image task
- G. Specify the image ID and the destination S3 bucket.
- H. Use the AWS CLI copy-image command
- I. Specify the image ID and the destination S3 bucket.

**Answer: C**

#### NEW QUESTION 73

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

Which solution will meet these requirements?

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

**Answer: A**

#### NEW QUESTION 76

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 78

A company is migrating its production file server to AWS. All data stored on the file server must remain accessible if an Availability Zone becomes unavailable or during system maintenance. Users must access the file server through the SMB protocol and manage permissions by using Windows ACLs.

Which solution will meet these requirements?

- A. Create a single AWS Storage Gateway file gateway.
- B. Create an Amazon FSx for Windows File Server Multi-AZ file system.
- C. Deploy two AWS Storage Gateway file gateways in two Availability Zones behind an Application Load Balancer.
- D. Deploy two Amazon FSx for Windows File Server Single-AZ file systems and configure DFS Replication.

**Answer: B**

#### NEW QUESTION 82

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 85

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 86

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 grou
- I. Update the existing stack in us-east-1.

**Answer: A**

#### NEW QUESTION 88

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 89

A company uses AWS CloudFormation to manage a stack of Amazon EC2 instances. A CloudOps engineer needs to keep the EC2 instances and their data even if the stack is deleted.

Which solution will meet these requirements?

- A. Set the DeletionPolicy attribute to Snapshot.
- B. Use Amazon Data Lifecycle Manager (DLM).
- C. Create an AWS Backup plan.
- D. Set the DeletionPolicy attribute to Retain.

**Answer: D**

#### NEW QUESTION 93

A company's security policy prohibits connecting to Amazon EC2 instances through SSH and RDP. Instead, staff must use AWS Systems Manager Session Manager. Users report they cannot connect to one Ubuntu instance, even though they can connect to others.

What should a CloudOps engineer do to resolve this issue?

- A. Add an inbound rule for port 22 in the security group associated with the Ubuntu instance.
- B. Assign the AmazonSSMManagedInstanceCore managed policy to the EC2 instance profile for the Ubuntu instance.
- C. Configure the SSM Agent to log in with a user name of "ubuntu".
- D. Generate a new key pair, configure Session Manager to use this new key pair, and provide the private key to the users.

**Answer: B**

#### NEW QUESTION 96

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

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

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

**Answer: A**

#### NEW QUESTION 99

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 103

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 bucket
- B. Create an S3 access point for the bucket
- 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 class
- E. Update the application to use an S3 Regional endpoint.
- F. Create a second general purpose S3 bucket in the same Region
- G. Copy the objects from the original bucket to the new bucket
- H. Use the S3 Express One Zone storage class to store the objects in the new bucket
- I. Update the application to use an S3 Regional endpoint.
- J. Create an S3 directory bucket in the same Availability Zone
- K. Import objects from the original bucket to the new bucket
- L. Use the S3 Express One Zone storage class to store the objects in the new bucket
- M. Update the application to use an S3 Zonal endpoint.

**Answer: D**

#### NEW QUESTION 107

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 role
- 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 108

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 110

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 account
- 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 account
- D. Create a Systems Manager Run Command that attaches the AmazonSSMServiceRolePolicy IAM policy to every IAM role that the EC2 instances use
- 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 role
- 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 attached
- I. Use the organization's management account to deploy the stack set to every account in the organization.

**Answer:** A

#### NEW QUESTION 113

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 function
- 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 function
- 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 function
- G. Configure the function to remove the security group rule that allows public access.

**Answer:** D

#### NEW QUESTION 115

A company uses a large number of Linux-based Amazon EC2 instances to run business operations. The company uses AWS Systems Manager to manage the EC2 instances. The company wants to ensure that the Systems Manager Agent (SSM Agent) is always up to date with the latest version.

Which solution will meet this requirement in the MOST operationally efficient way?

- A. Enable the Auto update SSM Agent setting in Systems Manager Fleet Manager.
- B. Subscribe to SSM Agent GitHub notifications and use Lambda to update agents.
- C. Enable the Auto update SSM Agent setting in Systems Manager Patch Manager.
- D. Use GitHub notifications and a Systems Manager Automation document.

**Answer:** A

#### NEW QUESTION 117

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 monitor DefenseEvasion:EC2/UnusualDoHActivity findings.

**Answer: B**

#### NEW QUESTION 119

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 123

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 127

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 128

A CloudOps engineer creates a new VPC that contains a private subnet, a security group that allows all outbound traffic, and an endpoint for Amazon EC2 Instance Connect in a private subnet. The CloudOps engineer associates the security group with EC2 Instance Connect. The CloudOps engineer launches an EC2 instance from an Amazon Linux Amazon Machine Image (AMI) in the private subnet. The CloudOps engineer launches the EC2 instance without an SSH key pair. The CloudOps engineer tries to connect to the instance by using the EC2 Instance Connect endpoint. However, the connection fails. 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: B**

#### NEW QUESTION 132

A global company runs a critical primary workload in the us-east-1 Region. The company wants to ensure business continuity with minimal downtime in case of a workload failure. The company wants to replicate the workload to a second AWS Region.

A CloudOps engineer needs a solution that achieves a recovery time objective (RTO) of less than 10 minutes and a zero recovery point objective (RPO) to meet service level agreements.

Which solution will meet these requirements?

- A. Implement a pilot light architecture that provides real-time data replication in the second Region
- B. Configure Amazon Route 53 health checks and automated DNS failover.
- C. Implement a warm standby architecture that provides regular data replication in a second Region
- D. Configure Amazon Route 53 health checks and automated DNS failover.
- E. Implement an active-active architecture that provides real-time data replication across two Region
- F. Use Amazon Route 53 health checks and a weighted routing policy.
- G. Implement a custom script to generate a regular backup of the data and store it in an S3 bucket that is in a second Region
- H. Use the backup to launch the application in the second Region in the event of a workload failure.

**Answer: C**

#### NEW QUESTION 134

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 138

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 VPC
- J. Create an interface VPC endpoint for CloudWatch Synthetics
- K. Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use both endpoints.

**Answer: D**

#### NEW QUESTION 142

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 role
- B. Attach the policy to the role.
- C. Add the users to an IAM user group
- 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 144

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 gateway
- 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 149

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 150

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 155

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 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. Assign PowerUserAccess to administrators.
- D. Create a Systems Manager endpoint in the private subne
- E. Update the security group to allow SSH traffic from the endpoint networ
- F. Assign PowerUserAccess.
- G. Create an EC2 Instance Connect endpoint in the public subne
- H. Update the security group to allow SSH traffic from the private networ
- I. Assign PowerUserAccess.
- J. Create a Systems Manager endpoint in the public subne
- K. Create an IAM role with AmazonSSMManagedInstanceCore for the EC2 instanc
- L. Assign AmazonEC2ReadOnlyAccess to administrators.

Answer: A

#### NEW QUESTION 158

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 163

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 instance
- 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 instance
- 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 instance
- K. Require all users to use AWS Systems Manager Run Command documents when they need command line access to an EC2 instance
- 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 164

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 166

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

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

**Answer: ACE**

#### NEW QUESTION 169

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 170

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 171**

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 175**

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 179**

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