

## SOA-C03 Dumps

### 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

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

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

Which solution will meet these requirements?

- A. Configure detailed monitoring for the EC2 instance
- B. Configure the Amazon CloudWatch agent on the EC2 instance
- C. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem\_active metric.
- D. Configure detailed monitoring for the EC2 instance
- E. Use the mem\_used\_percent metric that the detailed monitoring feature provide
- F. Create an IAM role that allows the CloudWatch agent to upload dat
- G. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem\_used\_percent metric.
- H. Configure basic monitoring for the EC2 instance
- I. Configure the Amazon CloudWatch agent on the EC2 instance
- J. Create an IAM role that allows the CloudWatch agent to upload dat
- K. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem\_used\_percent metric.
- L. Configure basic monitoring for the EC2 instance
- M. Use the standard mem\_used\_percent metric for monitorin
- N. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the mem\_used\_percent metric.

**Answer: C**

#### NEW QUESTION 3

A company is running an application on premises and wants to use AWS for data backup. All of the data must be available locally. The backup application can write only to block-based storage that is compatible with the Portable Operating System Interface (POSIX).

Which backup solution will meet these requirements?

- A. Configure the backup software to use Amazon S3 as the target for the data backups.
- B. Configure the backup software to use Amazon S3 Glacier Flexible Retrieval as the target for the data backups.
- C. Use AWS Storage Gateway, and configure it to use gateway-cached volumes.
- D. Use AWS Storage Gateway, and configure it to use gateway-stored volumes.

**Answer: D**

#### NEW QUESTION 4

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

Which solution meets these requirements with the least operational overhead?

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

**Answer: D**

#### NEW QUESTION 5

A company 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 6

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 7

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 8

A CloudOps engineer is configuring an Amazon CloudFront distribution to use an SSL/TLS certificate. The CloudOps engineer must ensure automatic certificate renewal.

Which combination of steps will meet this requirement? (Select TWO.)

- A. Use a certificate issued by AWS Certificate Manager (ACM).
- B. Use a certificate issued by a third-party certificate authority (CA).
- C. Configure CloudFront to automatically renew the certificate when the certificate expires.
- D. Configure email validation for the certificate.
- E. Configure DNS validation for the certificate.

**Answer: AE**

#### NEW QUESTION 9

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

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

Which solution will meet these requirements?

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

**Answer: C**

#### NEW QUESTION 10

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

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

Which solution will meet these requirements?

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

**Answer: B**

#### NEW QUESTION 10

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 metri
- 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 metri
- F. Configure an Amazon SQS queue for email notification.
- G. Use the AWS Health Dashboard to monitor each Trusted Advisor service quota metri
- H. Configure an Amazon SNS topic for email notification.

**Answer:** A

#### NEW QUESTION 12

A company's architecture team must receive immediate email notifications whenever new Amazon EC2 instances are launched in the company's main AWS production account.

What should a CloudOps engineer do to meet this requirement?

- A. Create a user data script that sends an email message through a smart host connecto
- B. Include the architecture team's email address in the user data script as the recipien
- C. Ensure that all new EC2 instances include the user data script as part of a standardized build process.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic and a subscription that uses the email protoco
- E. Enter the architecture team's email address as the subscribe
- F. Create an Amazon EventBridge rule that reacts when EC2 instances are launche
- G. Specify the SNS topic as the rule's target.
- H. Create an Amazon Simple Queue Service (Amazon SQS) queue and a subscription that uses the email protoco
- I. Enter the architecture team's email address as the subscribe
- J. Create an Amazon EventBridge rule that reacts when EC2 instances are launche
- K. Specify the SQS queue as the rule's target.
- L. Create an Amazon Simple Notification Service (Amazon SNS) topi
- M. Configure AWS Systems Manager to publish EC2 events to the SNS topi
- N. Create an AWS Lambda function to poll the SNS topi
- O. Configure the Lambda function to send any messages to the architecture team's email address.

**Answer:** B

#### NEW QUESTION 14

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 materia
- G. Rotate the keys on a yearly basis.

**Answer:** A

#### NEW QUESTION 19

A company runs a business application on more than 300 Linux-based instances. Each instance has the AWS Systems Manager Agent (SSM Agent) installed. The company expects the number of instances to grow in the future. All business application instances have the same user-defined tag.

A CloudOps engineer wants to run a command on all the business application instances to download and install a package from a private repository. To avoid overwhelming the repository, the CloudOps engineer wants to ensure that no more than 30 downloads occur at one time.

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

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

**Answer:** C

#### NEW QUESTION 23

An application runs on Amazon EC2 instances that are in an Auto Scaling group. A CloudOps engineer needs to implement a solution that provides a central storage location for errors that the application logs to disk. The solution must also provide an alert when the application logs an error.

What should the CloudOps engineer do to meet these requirements?

- A. Deploy and configure the Amazon CloudWatch agent on the EC2 instances to log to a CloudWatch log grou
- B. Create a metric filter on the target CloudWatch log grou
- C. Create a CloudWatch alarm that publishes to an Amazon Simple Notification Service (Amazon SNS) topic that has an email subscription.
- D. Create a cron job on the EC2 instances to identify errors and push the errors to an Amazon CloudWatch metric filte
- E. Configure the filter to publish to an Amazon Simple Notification Service (Amazon SNS) topic that has an SMS subscription.
- F. Deploy an AWS Lambda function that pushes the errors directly to Amazon CloudWatch Log
- G. Configure the Lambda function to run every time the log file is updated on disk.
- H. Create an Auto Scaling lifecycle hook that invokes an EC2-based script to identify error

- I. Configure the script to push the error messages to an Amazon CloudWatch log group when the EC2 instances scale i
- J. Create a CloudWatch alarm that publishes to an Amazon Simple Notification Service (Amazon SNS) topic that has an email subscription when the number of error messages exceeds a threshold.

**Answer:** A

#### NEW QUESTION 25

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 28

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 30

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 35

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 37

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 40**

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 45**

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 50**

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 54**

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 Redisreplication group.
- D. Enable automatic backups and restore the backups when necessary.

**Answer: C**

**NEW QUESTION 58**

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 62**

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 63**

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 67

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 69

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

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

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

**Answer: A**

#### NEW QUESTION 71

A company has an on-premises DNS solution and wants to resolve DNS records in an Amazon Route 53 private hosted zone for example.com. The company has set up an AWS Direct Connect connection for network connectivity between the on-premises network and the VPC. A CloudOps engineer must ensure that an on-premises server can query records in the example.com domain.

What should the CloudOps engineer do to meet these requirements?

- A. Create a Route 53 Resolver inbound endpoint
- B. Attach a security group to the endpoint to allow inbound traffic on TCP/UDP port 53 from the on-premises DNS servers.
- C. Create a Route 53 Resolver inbound endpoint
- D. Attach a security group to the endpoint to allow outbound traffic on TCP/UDP port 53 to the on-premises DNS servers.
- E. Create a Route 53 Resolver outbound endpoint
- F. Attach a security group to the endpoint to allow inbound traffic on TCP/UDP port 53 from the on-premises DNS servers.
- G. Create a Route 53 Resolver outbound endpoint
- H. Attach a security group to the endpoint to allow outbound traffic on TCP/UDP port 53 to the on-premises DNS servers.

**Answer: A**

#### NEW QUESTION 76

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 81

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 command
- B. Update the CloudFormation template to include mappings for the copied AMIs.

- C. Create a snapshot of the running instance
- 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 82

A SysOps administrator must load test a new Amazon CloudFront distribution to assess data transfer and latency performance. Which solution will meet this requirement?

- A. Send client requests from a single geographic region
- B. Configure the load test so that each client makes an identical DNS request
- C. Focus the client requests on the IP address that the DNS returns.
- D. Send client requests from a single geographic region
- E. Configure the load test so that each client makes an independent DNS request
- F. Spread the client requests across the set of IP addresses that the DNS returns.
- G. Send client requests from multiple geographic regions
- H. Configure the load test so that each client makes an identical DNS request
- I. Focus the client requests on the IP address that the DNS returns.
- J. Send client requests from multiple geographic regions
- K. Configure the load test so that each client makes an independent DNS request
- L. Spread the client requests across the set of IP addresses that the DNS returns.

**Answer: D**

#### NEW QUESTION 84

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'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 90

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
- 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 91

A CloudOps engineer has an AWS CloudFormation template of the company's existing infrastructure in us-west-2. The CloudOps engineer attempts to use the template to launch a new stack in eu-west-1, but the stack partially deploys, receives an error message, and then rolls back. Why would this template fail to deploy? (Select TWO.)

- A. The template referenced an IAM user that is not available in eu-west-1.
- B. The template referenced an Amazon Machine Image (AMI) that is not available in eu-west-1.
- C. The template did not have the proper level of permissions to deploy the resources.
- D. The template requested services that do not exist in eu-west-1.
- E. CloudFormation templates can be used only to update existing services.

**Answer:** BD

#### NEW QUESTION 93

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 95

A company's e-commerce application is running on Amazon EC2 instances that are behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. Customers report that the website is occasionally down. When the website is down, it returns an HTTP 500 (server error) status code to customer browsers.

The Auto Scaling group's health check is configured for EC2 status checks, and the instances appear healthy.

Which solution will resolve the problem?

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

**Answer:** B

#### NEW QUESTION 96

A company hosts a static website on Amazon S3. An Amazon CloudFront distribution presents this site to global users. The company uses the Managed-CachingDisabled CloudFront cache policy. The company's developers confirm that they frequently update a file in Amazon S3 with new information.

Users report that the website presents correct information when the website first loads the file. However, the users' browsers do not retrieve the updated file after a refresh.

What should a SysOps administrator recommend to fix this issue?

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

**Answer:** A

#### NEW QUESTION 101

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 password
- B. Create an Amazon EventBridge scheduled rule to invoke the Lambda function.
- C. Create a new SecureString parameter in AWS Systems Manager Parameter Store
- D. Encrypt the parameter with an AWS Key Management Service (AWS KMS) key
- E. Configure automatic rotation.
- F. Create a new String parameter in AWS Systems Manager Parameter Store
- G. Configure automatic rotation.
- H. Create a new RDS database secret in AWS Secrets Manager
- I. Apply the secret to the RDS DB instance
- J. Configure automatic rotation.

**Answer:** D

#### NEW QUESTION 106

A company needs to upload gigabytes of files daily to Amazon S3 and requires higher throughput and faster upload speeds.

Which action should a CloudOps engineer take?

- A. Create an Amazon CloudFront distribution with the GET HTTP method allowed and the S3 bucket as an origin.
- B. Create an Amazon ElastiCache cluster and enable caching for the S3 bucket.
- C. Set up AWS Global Accelerator and configure it with the S3 bucket.
- D. Enable S3 Transfer Acceleration and use the acceleration endpoint when uploading files.

**Answer:** D

#### NEW QUESTION 111

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 instance
- B. Update the KMS key policy to allow access for the migration account root user
- C. Share the snapshot with the migration account.
- D. Create an RDS read replica in the migration account
- 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 114

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

Which action can the CloudOps engineer in the second account perform?

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

**Answer:** A

#### NEW QUESTION 117

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 119

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 Regions
- 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 123

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

**Answer: D**

#### NEW QUESTION 127

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 130

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 135

A company is using an Amazon Aurora MySQL DB cluster that has point-in-time recovery, backtracking, and automatic backup enabled. A CloudOps engineer needs 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 137

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 138

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 139

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 instance
- 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 142

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 146

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 147

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

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

**Answer: C**

**NEW QUESTION 149**

A company plans to migrate several of its high-performance computing (HPC) virtual machines to Amazon EC2. The deployment must minimize network latency and maximize network throughput between the instances.

Which placement group strategy should the CloudOps engineer choose?

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

**Answer: A**

**NEW QUESTION 150**

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