



# **Amazon-Web-Services**

## **Exam Questions SOA-C03**

AWS Certified CloudOps Engineer - Associate

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#### NEW QUESTION 1

A company's website runs on an Amazon EC2 Linux instance. The website needs to serve PDF files from an Amazon S3 bucket. All public access to the S3 bucket is blocked at the account level. The company needs to allow website users to download the PDF files. Which solution will meet these requirements with the LEAST administrative effort?

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

**Answer: B**

#### NEW QUESTION 2

A company 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 3

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 4

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 5

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 files
- E. Serve the JavaScript files directly through the ALB.

**Answer: C**

#### NEW QUESTION 6

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 recipient
- 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 protocol
- E. Enter the architecture team's email address as the subscriber
- F. Create an Amazon EventBridge rule that reacts when EC2 instances are launched
- 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 protocol
- I. Enter the architecture team's email address as the subscriber
- J. Create an Amazon EventBridge rule that reacts when EC2 instances are launched
- K. Specify the SQS queue as the rule's target.
- L. Create an Amazon Simple Notification Service (Amazon SNS) topic
- M. Configure AWS Systems Manager to publish EC2 events to the SNS topic
- N. Create an AWS Lambda function to poll the SNS topic
- O. Configure the Lambda function to send any messages to the architecture team's email address.

**Answer: B**

#### NEW QUESTION 7

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

What is the reason for this issue?

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

**Answer: B**

#### NEW QUESTION 8

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

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

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

**Answer: A**

#### NEW QUESTION 9

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

How can this be accomplished?

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

**Answer: B**

#### NEW QUESTION 10

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 group
- B. Create a metric filter on the target CloudWatch log group
- 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 filter
- 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 errors
- I. Configure the script to push the error messages to an Amazon CloudWatch log group when the EC2 instances scale in
- 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 10

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

- A. Deploy an outbound-only internet gateway and update route tables.
- B. Create an Amazon API Gateway HTTP API as a proxy.
- C. Deploy a NAT gateway in each public subnet and update private subnet route tables.
- D. Create a VPC interface endpoint and update route tables.

Answer: C

#### NEW QUESTION 13

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 16

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 20

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 23

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 25

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

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

**Answer:** A

### NEW QUESTION 30

A medical research company uses an Amazon Bedrock powered AI assistant with agents and knowledge bases to provide physicians quick access to medical study protocols. The company needs to generate audit reports that contain user identities, usage data for Bedrock agents, access data for knowledge bases, and interaction parameters.

Which solution will meet these requirements?

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

**Answer:** A

### NEW QUESTION 31

A CloudOps engineer creates an AWS CloudFormation template to define an application stack that can be deployed in multiple AWS Regions. The CloudOps engineer also creates an Amazon CloudWatch dashboard by using the AWS Management Console. Each deployment of the application requires its own CloudWatch dashboard.

How can the CloudOps engineer automate the creation of the CloudWatch dashboard each time the application is deployed?

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

**Answer:** B

### NEW QUESTION 36

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

Which solution will meet these requirements?

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

**Answer:** A

### NEW QUESTION 40

A company runs an application that logs user data to an Amazon CloudWatch Logs log group. The company discovers that personal information the application has logged is visible in plain text in the CloudWatch logs.

The company needs a solution to redact personal information in the logs by default. Unredacted information must be available only to the company's security team.

Which solution will meet these requirements?

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

**Answer:** C

#### NEW QUESTION 44

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 46

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

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

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

**Answer: AD**

#### NEW QUESTION 51

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 54

A company has an application that collects notifications from thousands of alarm systems. Notifications include alarm notifications and information notifications. All notifications are stored in an Amazon Simple Queue Service (Amazon SQS) queue. Amazon EC2 instances in an Auto Scaling group process the messages.

A CloudOps engineer needs to prioritize alarm notifications over information notifications. Which solution will meet these requirements?

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

**Answer: D**

#### NEW QUESTION 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 61

A company has users that deploy Amazon EC2 instances with more Amazon EBS performance capacity than required. A CloudOps engineer must review all EBS volumes and create cost optimization recommendations based on IOPS and throughput.

What should the CloudOps engineer do in the MOST operationally efficient way?

- A. Review EC2 console monitoring graphs manually.

- B. Change instance types to EBS-optimized.
- C. Opt in to AWS Compute Optimizer and review EBS volume recommendations.
- D. Run fio benchmarks on each instance.

**Answer: C**

#### NEW QUESTION 63

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 68

A company runs a web application on three Amazon EC2 instances behind an Application Load Balancer (ALB). The company notices that random periods of increased traffic cause a degradation in the application's performance.

A CloudOps engineer must scale the application to meet the increased traffic. Which solution meets these requirements?

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

**Answer: C**

#### NEW QUESTION 70

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

Which solution will provide the EC2 instances in the private subnet with access to the internet?

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

**Answer: A**

#### NEW QUESTION 75

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 76

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

Which solution will meet these requirements?

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

**Answer: C**

#### NEW QUESTION 78

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 81

A company has an internal web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A CloudOps engineer must make the application highly available.

Which action should the CloudOps engineer take to meet this requirement?

- A. Increase the maximum number of instances in the Auto Scaling group to meet the capacity that is required at peak usage.
- B. Increase the minimum number of instances in the Auto Scaling group to meet the capacity that is required at peak usage.
- C. Update the Auto Scaling group to launch new instances in a second Availability Zone in the same AWS Region.
- D. Update the Auto Scaling group to launch new instances in an Availability Zone in a second AWS Region.

**Answer:** C

#### NEW QUESTION 83

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 88

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 91

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 95

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 lo
- L. Set up a subscription filter to an AWS Lambda function to analyze data transfe
- 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 96

A company deploys AWS infrastructure in a VPC that has an internet gateway. The VPC has public subnets and private subnets. An Amazon RDS for MySQL DB instance is deployed in a private subnet. An AWS Lambda function uses the same private subnet and connects to the DB instance to query data.

A developer modifies the Lambda function to require the function to publish messages to an Amazon Simple Queue Service (Amazon SQS) queue. After these changes, the Lambda function times out when it tries to publish messages to the SQS queue.

Which solutions will resolve this issue? (Select TWO.)

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

**Answer: CD**

#### NEW QUESTION 97

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

A SysOps administrator must improve the application's performance for retrieval of objects from Amazon S3.

Which solution will meet these requirements?

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

**Answer: D**

#### NEW QUESTION 100

A SysOps administrator needs to encrypt an existing Amazon Elastic File System (Amazon EFS) file system by using an existing AWS KMS customer managed key.

Which solution will meet these requirements?

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

**Answer: A**

#### NEW QUESTION 104

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 107

A company's Amazon EC2 instance with high CPU utilization is a t3.large instance running a test web app. The company determines the app would run better on a compute-optimized large instance. What should the CloudOps engineer do?

- A. Migrate the EC2 instance to a compute optimized instance by using AWS VM Import/Export.
- B. Enable hibernation on the EC2 instance.
- C. Change the instance type to a compute optimized instance.
- D. Disable hibernation on the EC2 instance.
- E. Stop the EC2 instance.
- F. Change the instance type to a compute optimized instance.
- G. Start the EC2 instance.
- H. Change the instance type to a compute optimized instance while the EC2 instance is running.

**Answer:** C

#### NEW QUESTION 109

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

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

**Answer:** CD

#### NEW QUESTION 112

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 113

A company uses an Amazon Simple Queue Service (Amazon SQS) queue and Amazon EC2 instances in an Auto Scaling group with target tracking for a web application. The company collects the ASGAverageNetworkIn metric but notices that instances do not scale fast enough during peak traffic. There are a large number of SQS messages accumulating in the queue.

A CloudOps engineer must reduce the number of SQS messages during peak periods. Which solution will meet this requirement?

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

**Answer:** B

#### NEW QUESTION 117

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 120

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 122

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 VP
- B. Add the synthetics:GetCanaryRuns permission to the VP
- 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 VP
- 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 VP
- 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 CloudWatch
- 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

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 128

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 133

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 136

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 138

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

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

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

**Answer: A**

#### NEW QUESTION 143

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 145

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 users
- B. Remove the policy after three months.
- C. Enable S3 Object Lock on a new S3 bucket in compliance mode
- D. Place all backups in the new S3 bucket with a retention period of 3 months.
- E. Enable S3 Versioning on the existing S3 bucket
- F. Configure S3 Lifecycle rules to protect the backups.
- G. Enable S3 Object Lock on a new S3 bucket in governance mode
- H. Place all backups in the new S3 bucket with a retention period of 3 months.

**Answer: B**

#### 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 148**

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

Which solution will meet this requirement?

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

**Answer:** C

**NEW QUESTION 151**

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