

## Exam Questions SOA-C02

AWS Certified SysOps Administrator - Associate (SOA-C02)

<https://www.2passeasy.com/dumps/SOA-C02/>



### NEW QUESTION 1

- (Exam Topic 1)

A SysOps administrator receives an alert from Amazon GuardDuty about suspicious network activity on an Amazon EC2 instance. The GuardDuty finding lists a new external IP address as a traffic destination. The SysOps administrator does not recognize the external IP address. The SysOps administrator must block traffic to the external IP address that GuardDuty identified.

Which solution will meet this requirement?

- A. Create a new security group to block traffic to the external IP address
- B. Assign the new security group to the EC2 instance.
- C. Use VPC flow logs with Amazon Athena to block traffic to the external IP address.
- D. Create a network ACL
- E. Add an outbound deny rule for traffic to the external IP address.
- F. Create a new security group to block traffic to the external IP address
- G. Assign the new security group to the entire VPC.

**Answer:** C

#### Explanation:

<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html>

### NEW QUESTION 2

- (Exam Topic 1)

A company updates its security policy to prohibit the public exposure of any data in Amazon S3 buckets in the company's account. What should a SysOps administrator do to meet this requirement?

- A. Turn on S3 Block Public Access from the account level.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to enforce that all S3 objects are private.
- C. Use Amazon Inspector to search for S3 buckets and to automatically reset S3 ACLs if any public S3 buckets are found.
- D. Use S3 Object Lambda to examine S3 ACLs and to change any public S3 ACLs to private.

**Answer:** A

#### Explanation:

Using Amazon S3 Block Public Access

as a centralized way to limit public access. Block Public Access

settings override bucket policies and object permissions. Be sure to enable Block Public Access for all accounts and buckets that you don't want publicly accessible.

<https://aws.amazon.com/premiumsupport/knowledge-center/secure-s3-resources/#:~:text=Using%20Amazon%2>

### NEW QUESTION 3

- (Exam Topic 1)

A company creates a new member account by using AWS Organizations. A SysOps administrator needs to add AWS Business Support to the new account. Which combination of steps must the SysOps administrator take to meet this requirement? (Select TWO.)

- A. Sign in to the new account by using 1AM credential
- B. Change the support plan.
- C. Sign in to the new account by using root user credential
- D. Change the support plan.
- E. Use the AWS Support API to change the support plan.
- F. Reset the password of the account root user.
- G. Create an IAM user that has administrator privileges in the new account.

**Answer:** BE

#### Explanation:

The best combination of steps to meet this requirement is to sign in to the new account by using root user credentials and change the support plan, and to create an IAM user that has administrator privileges in the new account.

Signing in to the new account by using root user credentials will allow the SysOps administrator to access the account and change the support plan to AWS Business Support. Additionally, creating an IAM user that has administrator privileges in the new account will ensure that the SysOps administrator has the necessary access to manage the account and make changes to the support plan if necessary.

Reference:

[1] [https://docs.aws.amazon.com/organizations/latest/userguide/orgs\\_manage\\_accounts\\_access.html#orgs\\_ma](https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_access.html#orgs_ma)

### NEW QUESTION 4

- (Exam Topic 1)

A company runs a website from Sydney, Australia. Users in the United States (US) and Europe are reporting that images and videos are taking a long time to load. However, local testing in Australia indicates no performance issues. The website has a large amount of static content in the form of images and videos that are stored in Amazon S3.

Which solution will result in the MOST improvement in the user experience for users in the US and Europe?

- A. Configure AWS PrivateLink for Amazon S3.
- B. Configure S3 Transfer Acceleration.
- C. Create an Amazon CloudFront distribution
- D. Distribute the static content to the CloudFront edge locations
- E. Create an Amazon API Gateway API in each AWS Region
- F. Cache the content locally.

**Answer:** D

### NEW QUESTION 5

- (Exam Topic 1)

A SysOps administrator is provisioning an Amazon Elastic File System (Amazon EFS) file system to provide shared storage across multiple Amazon EC2 instances. The instances all exist in the same VPC across multiple Availability Zones. There are two instances in each Availability Zone. The SysOps administrator must make the file system accessible to each instance with the lowest possible latency.

Which solution will meet these requirements?

- A. Create a mount target for the EFS file system in the VPC
- B. Use the mount target to mount the file system on each of the instances
- C. Create a mount target for the EFS file system in one Availability Zone of the VPC
- D. Use the mount target to mount the file system on the instances in that Availability Zone
- E. Share the directory with the other instances.
- F. Create a mount target for each instance
- G. Use each mount target to mount the EFS file system on each respective instance.
- H. Create a mount target in each Availability Zone of the VPC. Use the mount target to mount the EFS file system on the instances in the respective Availability Zone.

**Answer:** D

#### Explanation:

A mount target provides an IP address for an NFSv4 endpoint at which you can mount an Amazon EFS file system. You mount your file system using its Domain Name Service (DNS) name, which resolves to the IP address of the EFS mount target in the same Availability Zone as your EC2 instance. You can create one mount target in each Availability Zone in an AWS Region. If there are multiple subnets in an Availability Zone in your VPC, you create a mount target in one of the subnets. Then all EC2 instances in that Availability Zone share that mount target. <https://docs.aws.amazon.com/efs/latest/ug/how-it-works.html>

### NEW QUESTION 6

- (Exam Topic 1)

A company is rolling out a new version of its website. Management wants to deploy the new website in a limited rollout to 20% of the company's customers. The company uses Amazon Route 53 for its website's DNS solution.

Which configuration will meet these requirements?

- A. Create a failover routing policy
- B. Within the policy, configure 80% of the website traffic to be sent to the original resource
- C. Configure the remaining 20% of traffic as the failover record that points to the new resource.
- D. Create a multivalue answer routing policy
- E. Within the policy, create 4 records with the name and IP address of the original resource
- F. Configure 1 record with the name and IP address of the new resource.
- G. Create a latency-based routing policy
- H. Within the policy, configure a record pointing to the original resource with a weight of 80. Configure a record pointing to the new resource with a weight of 20.
- I. Create a weighted routing policy
- J. Within the policy, configure a weight of 80 for the record pointing to the original resource
- K. Configure a weight of 20 for the record pointing to the new resource.

**Answer:** C

### NEW QUESTION 7

- (Exam Topic 1)

A company has a policy that requires all Amazon EC2 instances to have a specific set of tags. If an EC2 instance does not have the required tags, the noncompliant instance should be terminated.

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

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to send all EC2 instance state changes to an AWS Lambda function to determine if each instance is compliant
- B. Terminate any noncompliant instances.
- C. Create an IAM policy that enforces all EC2 instance tag requirements
- D. If the required tags are not in place for an instance, the policy will terminate noncompliant instances.
- E. Create an AWS Lambda function to determine if each EC2 instance is compliant and terminate an instance if it is noncompliant
- F. Schedule the Lambda function to invoke every 5 minutes.
- G. Create an AWS Config rule to check if the required tags are present
- H. If an EC2 instance is noncompliant, invoke an AWS Systems Manager Automation document to terminate the instance.

**Answer:** D

#### Explanation:

<https://docs.aws.amazon.com/systems-manager/latest/userguide/systems-manager-automation.html>

### NEW QUESTION 8

- (Exam Topic 1)

A company has created a NAT gateway in a public subnet in a VPC. The VPC also contains a private subnet that includes Amazon EC2 instances. The EC2 instances use the NAT gateway to access the internet to download patches and updates. The company has configured a VPC flow log for the elastic network interface of the NAT gateway. The company is publishing the output to Amazon CloudWatch Logs.

A SysOps administrator must identify the top five internet destinations that the EC2 instances in the private subnet communicate with for downloads.

What should the SysOps administrator do to meet this requirement in the MOST operationally efficient way?

- A. Use AWS CloudTrail Insights events to identify the top five internet destinations.
- B. Use Amazon CloudFront standard logs (access logs) to identify the top five internet destinations.
- C. Use CloudWatch Logs Insights to identify the top five internet destinations.
- D. Change the flow log to publish logs to Amazon S3. Use Amazon Athena to query the log files in Amazon S3.

**Answer:** C

#### NEW QUESTION 9

- (Exam Topic 1)

A company needs to archive all audit logs for 10 years. The company must protect the logs from any future edits. Which solution will meet these requirements?

- A. Store the data in an Amazon Elastic Block Store (Amazon EBS) volume
- B. Configure AWS Key Management Service (AWS KMS) encryption.
- C. Store the data in an Amazon S3 Glacier vault
- D. Configure a vault lock policy for write-once, read-many (WORM) access.
- E. Store the data in Amazon S3 Standard-Infrequent Access (S3 Standard-IA). Configure server-side encryption.
- F. Store the data in Amazon S3 Standard-Infrequent Access (S3 Standard-IA). Configure multi-factor authentication (MFA).

**Answer:** B

#### Explanation:

To meet the requirements of the workload, a company should store the data in an Amazon S3 Glacier vault and configure a vault lock policy for write-once, read-many (WORM) access. This will ensure that the data is stored securely and cannot be edited in the future. The other solutions (storing the data in an Amazon Elastic Block Store (Amazon EBS) volume and configuring AWS Key Management Service (AWS KMS) encryption, storing the data in Amazon S3 Standard-Infrequent Access (S3 Standard-IA) and configuring server-side encryption, or storing the data in Amazon S3 Standard-Infrequent Access (S3 Standard-IA) and configuring multi-factor authentication (MFA)) will not meet the requirements, as they do not provide a way to protect the audit logs from future edits.  
[https://docs.aws.amazon.com/zh\\_tw/AmazonS3/latest/userguide/object-lock.html](https://docs.aws.amazon.com/zh_tw/AmazonS3/latest/userguide/object-lock.html)

#### NEW QUESTION 10

- (Exam Topic 1)

A SysOps administrator noticed that the cache hit ratio for an Amazon CloudFront distribution is less than 10%. Which collection of configuration changes will increase the cache hit ratio for the distribution? (Select TWO.)

- A. Ensure that only required cookies, query strings, and headers are forwarded in the Cache Behavior Settings.
- B. Change the Viewer Protocol Policy to use HTTPS only.
- C. Configure the distribution to use presigned cookies and URLs to restrict access to the distribution.
- D. Enable automatic compression of objects in the Cache Behavior Settings.
- E. Increase the CloudFront time to live (TTL) settings in the Cache Behavior Settings.

**Answer:** AE

#### Explanation:

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cache-hit-ratio.html#cache-hit-ratio-ht>

#### NEW QUESTION 10

- (Exam Topic 1)

The security team is concerned because the number of AWS Identity and Access Management (IAM) policies being used in the environment is increasing. The team tasked a SysOps administrator to report on the current number of IAM policies in use and the total available IAM policies. Which AWS service should the administrator use to check how current IAM policy usage compares to current service limits?

- A. AWS Trusted Advisor
- B. Amazon Inspector
- C. AWS Config
- D. AWS Organizations

**Answer:** A

#### NEW QUESTION 14

- (Exam Topic 1)

A company is running a website on Amazon EC2 instances behind an Application Load Balancer (ALB). The company configured an Amazon CloudFront distribution and set the ALB as the origin. The company created an Amazon Route 53 CNAME record to send all traffic through the CloudFront distribution. As an unintended side effect, mobile users are now being served the desktop version of the website. Which action should a SysOps administrator take to resolve this issue?

- A. Configure the CloudFront distribution behavior to forward the User-Agent header.
- B. Configure the CloudFront distribution origin setting
- C. Add a User-Agent header to the list of origin custom headers.
- D. Enable IPv6 on the AL
- E. Update the CloudFront distribution origin settings to use the dualstack endpoint.
- F. Enable IPv6 on the CloudFront distributio
- G. Update the Route 53 record to use the dualstack endpoint.

**Answer:** A

#### Explanation:

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/header-caching.html#header-caching->

#### NEW QUESTION 18

- (Exam Topic 1)

A company wants to track its AWS costs in all member accounts that are part of an organization in AWS Organizations. Managers of the member accounts want to receive a notification when the estimated costs exceed a predetermined amount each month. The managers are unable to configure a billing alarm. The IAM permissions for all users are correct. What could be the cause of this issue?

- A. The management/payer account does not have billing alerts turned on.
- B. The company has not configured AWS Resource Access Manager (AWS RAM) to share billing information between the member accounts and the management/payer account.
- C. Amazon GuardDuty is turned on for all the accounts.
- D. The company has not configured an AWS Config rule to monitor billing.

**Answer: B**

#### NEW QUESTION 21

- (Exam Topic 1)

A company is partnering with an external vendor to provide data processing services. For this integration, the vendor must host the company's data in an Amazon S3 bucket in the vendor's AWS account. The vendor is allowing the company to provide an AWS Key Management Service (AWS KMS) key to encrypt the company's data. The vendor has provided an IAM role Amazon Resource Name (ARN) to the company for this integration. What should a SysOps administrator do to configure this integration?

- A. Create a new KMS ke
- B. Add the vendor's IAM role ARN to the KMS key polic
- C. Provide the new KMS key ARN to the vendor.
- D. Create a new KMS ke
- E. Create a new IAM use
- F. Add the vendor's IAM role ARN to an inline policy that is attached to the IAM use
- G. Provide the new IAM user ARN to the vendor.
- H. Configure encryption using the KMS managed S3 ke
- I. Add the vendor's IAM role ARN to the KMS managed S3 key polic
- J. Provide the KMS managed S3 key ARN to the vendor.
- K. Configure encryption using the KMS managed S3 ke
- L. Create an S3 bucke
- M. Add the vendor's IAM role ARN to the S3 bucket polic
- N. Provide the S3 bucket ARN to the vendor.

**Answer: C**

#### NEW QUESTION 23

- (Exam Topic 1)

A company has deployed AWS Security Hub and AWS Config in a newly implemented organization in AWS Organizations. A SysOps administrator must implement a solution to restrict all member accounts in the organization from deploying Amazon EC2 resources in the ap-southeast-2 Region. The solution must be implemented from a single point and must govern an current and future accounts. The use of root credentials also must be restricted in member accounts. Which AWS feature should the SysOps administrator use to meet these requirements?

- A. AWS Config aggregator
- B. IAM user permissions boundaries
- C. AWS Organizations service control policies (SCPs)
- D. AWS Security Hub conformance packs

**Answer: C**

#### NEW QUESTION 28

- (Exam Topic 1)

A SysOps administrator recently configured Amazon S3 Cross-Region Replication on an S3 bucket Which of the following does this feature replicate to the destination S3 bucket by default?

- A. Objects in the source S3 bucket for which the bucket owner does not have permissions
- B. Objects that are stored in S3 Glacier
- C. Objects that existed before replication was configured
- D. Object metadata

**Answer: B**

#### NEW QUESTION 33

- (Exam Topic 1)

A company runs a stateless application that is hosted on an Amazon EC2 instance. Users are reporting performance issues. A SysOps administrator reviews the Amazon CloudWatch metrics for the application and notices that the instance's CPU utilization frequently reaches 90% during business hours. What is the MOST operationally efficient solution that will improve the application's responsiveness?

- A. Configure CloudWatch logging on the EC2 instanc
- B. Configure a CloudWatch alarm for CPU utilization to alert the SysOps administrator when CPU utilization goes above 90%.
- C. Configure an AWS Client VPN connection to allow the application users to connect directly to the EC2 instance private IP address to reduce latency.
- D. Create an Auto Scaling group, and assign it to an Application Load Balance
- E. Configure a target tracking scaling policy that is based on the average CPU utilization of the Auto Scaling group.
- F. Create a CloudWatch alarm that activates when the EC2 instance's CPU utilization goes above 80%.Configure the alarm to invoke an AWS Lambda function that vertically scales the instance.

**Answer: C**

#### NEW QUESTION 37

- (Exam Topic 1)

A company has two VPC networks named VPC A and VPC B. The VPC A CIDR block is 10.0.0.0/16 and the VPC B CIDR block is 172.31.0.0/16. The company wants to establish a VPC peering connection named

pcx-12345 between both VPCs.

Which rules should appear in the route table of VPC A after configuration? (Select TWO.)

- A. Destination: 10.0.0.0/16, Target: Local
- B. Destination: 172.31.0.0/16, Target: Local
- C. Destination: 10.0.0.0/16, Target: pcx-12345
- D. Destination: 172.31.0.0/16, Target: pcx-12345
- E. Destination: 10.0.0.0/16. Target: 172.31.0.0/16

**Answer:** AD

**Explanation:**

<https://docs.aws.amazon.com/vpc/latest/peering/vpc-peering-routing.html>

#### NEW QUESTION 38

- (Exam Topic 1)

A SysOps administrator is reviewing AWS Trusted Advisor recommendations. The SysOps administrator notices that all the application servers for a finance application are listed in the Low Utilization Amazon EC2 Instances check. The application runs on three instances across three Availability Zones. The SysOps administrator must reduce the cost of running the application without affecting the application's availability or design.

Which solution will meet these requirements?

- A. Reduce the number of application servers.
- B. Apply rightsizing recommendations from AWS Cost Explorer to reduce the instance size.
- C. Provision an Application Load Balancer in front of the instances.
- D. Scale up the instance size of the application servers.

**Answer:** C

#### NEW QUESTION 42

- (Exam Topic 1)

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

**Answer:** A

#### NEW QUESTION 47

- (Exam Topic 1)

A SysOps administrator wants to manage a web server application with AWS Elastic Beanstalk. The Elastic Beanstalk service must maintain full capacity for new deployments at all times.

Which deployment policies satisfy this requirement? (Select TWO.)

- A. All at once
- B. Immutable
- C. Rebuild
- D. Rolling
- E. Rolling with additional batch

**Answer:** BE

**Explanation:**

<https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/using-features.rolling-version-deploy.html>

#### NEW QUESTION 50

- (Exam Topic 1)

A SysOps administrator must create an IAM policy for a developer who needs access to specific AWS services. Based on the requirements, the SysOps administrator creates the following policy:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "storagegateway:Describe*",
        "elasticloadbalancing:*",
        "lambda:*",
        "sqs:List*"
      ],
      "Effect": "Allow",
      "Resource": "*"
    }
  ]
}
```

Which actions does this policy allow? (Select TWO.)

- A. Create an AWS Storage Gateway.
- B. Create an IAM role for an AWS Lambda function.
- C. Delete an Amazon Simple Queue Service (Amazon SQS) queue.
- D. Describe AWS load balancers.
- E. Invoke an AWS Lambda function.

**Answer:** DE

#### NEW QUESTION 51

- (Exam Topic 1)

A company recently its server infrastructure to Amazon EC2 instances. The company wants to use Amazon CloudWatch metrics to track instance memory utilization and available disk space.

What should a SysOps administrator do to meet these requirements?

- A. Configure CloudWatch from the AWS Management Console for all the instances that require monitoring by CloudWatch.
- B. AWS automatically installs and configures the agents for the specified instances.
- C. Install and configure the CloudWatch agent on all the instances.
- D. Attach an IAM role to allow the instances to write logs to CloudWatch.
- E. Install and configure the CloudWatch agent on all the instances.
- F. Attach an IAM user to allow the instances to write logs to CloudWatch.
- G. Install and configure the CloudWatch agent on all the instances.
- H. Attach the necessary security groups to allow the instances to write logs to CloudWatch.

**Answer:** C

#### NEW QUESTION 55

- (Exam Topic 1)

A company uses an Amazon S3 bucket to store data files. The S3 bucket contains hundreds of objects. The company needs to replace a tag on all the objects in the S3 bucket with another tag.

What is the MOST operationally efficient way to meet this requirement?

- A. Use S3 Batch Operation.
- B. Specify the operation to replace all object tags.
- C. Use the AWS CLI to get the tags for each object.
- D. Save the tags in a list.
- E. Use S3 Batch Operations. Specify the operation to delete all object tags.
- F. Use the AWS CLI and the list to retag the objects.
- G. Use the AWS CLI to get the tags for each object.
- H. Save the tags in a list.
- I. Use the AWS CLI and the list to remove the object tags.
- J. Use the AWS CLI and the list to retag the objects.
- K. Use the AWS CLI to copy the objects to another S3 bucket.
- L. Add the new tag to the copied objects. Delete the original objects.

**Answer:** A

#### Explanation:

Ref. <https://aws.amazon.com/es/blogs/storage/adding-and-removing-object-tags-with-s3-batch-operations/>

#### NEW QUESTION 58

- (Exam Topic 1)

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 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

**Explanation:**

<https://docs.aws.amazon.com/storagegateway/latest/userguide/StorageGatewayConcepts.html>

#### NEW QUESTION 63

- (Exam Topic 1)

A company uses AWS Organizations to manage multiple AWS accounts with consolidated billing enabled. Organization member account owners want the benefits of Reserved Instances (RIs) but do not want to share RIs with other accounts.

Which solution will meet these requirements?

- A. Purchase RIs in individual member account
- B. Disable RI discount sharing in the management account.
- C. Purchase RIs in individual member account
- D. Disable RI discount sharing in the member accounts.
- E. Purchase RIs in the management account
- F. Disable RI discount sharing in the management account.
- G. Purchase RIs in the management account
- H. Disable RI discount sharing in the member accounts.

**Answer:** A

**Explanation:**

<https://aws.amazon.com/premiumsupport/knowledge-center/ec2-ri-consolidated-billing/>

RI discounts apply to accounts in an organization's consolidated billing family depending upon whether RI sharing is turned on or off for the accounts. By default, RI sharing for all accounts in an organization is turned on. The management account of an organization can change this setting by turning off RI sharing for an account. The capacity reservation for an RI applies only to the account the RI was purchased on, no matter whether RI sharing is turned on or off.

#### NEW QUESTION 65

- (Exam Topic 1)

A gaming application is deployed on four Amazon EC2 instances in a default VPC. The SysOps administrator has noticed consistently high latency in responses as data is transferred among the four instances. There is no way for the administrator to alter the application code.

The MOST effective way to reduce latency is to relaunch the EC2 instances in:

- A. a dedicated VPC.
- B. a single subnet inside the VPC.
- C. a placement group.
- D. a single Availability Zone.

**Answer:** C

#### NEW QUESTION 66

- (Exam Topic 1)

A company is hosting applications on Amazon EC2 instances. The company is hosting a database on an Amazon RDS for PostgreSQL DB instance. The company requires all connections to the DB instance to be encrypted.

What should a SysOps administrator do to meet this requirement?

- A. Allow SSL connections to the database by using an inbound security group rule.
- B. Encrypt the database by using an AWS Key Management Service (AWS KMS) encryption key.
- C. Enforce SSL connections to the database by using a custom parameter group.
- D. Patch the database with SSL/TLS by using a custom PostgreSQL extension.

**Answer:** C

**Explanation:**

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/PostgreSQL.Concepts.General.SSL.htm> Amazon RDS supports SSL/TLS encryption for connections to the database, and this can be enabled by creating a custom parameter group and setting the `rds.force_ssl` parameter to 1. This will ensure that all connections to the database are encrypted, protecting the data and maintaining compliance with the company's requirements.

#### NEW QUESTION 70

- (Exam Topic 1)

A SysOps administrator is troubleshooting connection timeouts to an Amazon EC2 instance that has a public IP address. The instance has a private IP address of 172.31.16.139. When the SysOps administrator tries to ping the instance's public IP address from the remote IP address 203.0.113.12, the response is "request timed out." The flow logs contain the following information:

```
2 123456789010 eni-1235b8ca123456789 203.0.113.12 172.31.16.139 0 0 1 4 336 1432917027 1432917142 ACCEPT OK
2 123456789010 eni-1235b8ca123456789 172.31.16.139 203.0.113.12 0 0 1 4 336 1432917094 1432917142 REJECT OK
```

What is one cause of the problem?

- A. Inbound security group deny rule
- B. Outbound security group deny rule
- C. Network ACL inbound rules
- D. Network ACL outbound rules

**Answer:** D

#### NEW QUESTION 71

- (Exam Topic 1)

A development team recently deployed a new version of a web application to production. After the release, penetration testing revealed a cross-site scripting vulnerability that could expose user data.

Which AWS service will mitigate this issue?

- A. AWS Shield Standard
- B. AWS WAF
- C. Elastic Load Balancing
- D. Amazon Cognito

**Answer:** B

#### Explanation:

<https://www.imperva.com/learn/application-security/cross-site-scripting-xss-attacks/>

#### NEW QUESTION 72

- (Exam Topic 1)

A company is attempting to manage its costs in the AWS Cloud. A SysOps administrator needs specific company-defined tags that are assigned to resources to appear on the billing report.

What should the SysOps administrator do to meet this requirement?

- A. Activate the tags as AWS generated cost allocation tags.
- B. Activate the tags as user-defined cost allocation tags.
- C. Create a new cost category.
- D. Select the account billing dimension.
- E. Create a new AWS Cost and Usage Report.
- F. Include the resource IDs.

**Answer:** B

#### Explanation:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/custom-tags.html> "User-defined tags are tags that you define, create, and apply to resources. After you have created and applied the user-defined tags, you can activate by using the Billing and Cost Management console for cost allocation tracking."

To meet this requirement, the SysOps administrator should activate the company-defined tags as user-defined cost allocation tags. This will ensure that the tags appear on the billing report and that the resources can be tracked with the specific tags. The other options (activating the tags as AWS generated cost allocation tags, creating a new cost category and selecting the account billing dimension, and creating a new AWS Cost and Usage Report and including the resource IDs) will not meet the requirements and are not the correct solutions for this issue.

#### NEW QUESTION 77

- (Exam Topic 1)

While setting up an AWS managed VPN connection, a SysOps administrator creates a customer gateway resource in AWS. The customer gateway device resides in a data center with a NAT gateway in front of it.

What address should be used to create the customer gateway resource?

- A. The private IP address of the customer gateway device
- B. The MAC address of the NAT device in front of the customer gateway device
- C. The public IP address of the customer gateway device
- D. The public IP address of the NAT device in front of the customer gateway device

**Answer:** D

#### NEW QUESTION 81

- (Exam Topic 1)

While setting up an AWS managed VPN connection, a SysOps administrator creates a customer gateway resource in AWS. The customer gateway device resides in a data center with a NAT gateway in front of it.

What address should be used to create the customer gateway resource?

- A. The private IP address of the customer gateway device
- B. The MAC address of the NAT device in front of the customer gateway device
- C. The public IP address of the customer gateway device
- D. The public IP address of the NAT device in front of the customer gateway device

**Answer:** D

#### NEW QUESTION 84

- (Exam Topic 1)

A company uses an AWS CloudFormation template to provision an Amazon EC2 instance and an Amazon RDS DB instance. A SysOps administrator must update the template to ensure that the DB instance is created before the EC2 instance is launched.

What should the SysOps administrator do to meet this requirement?

- A. Add a wait condition to the template. Update the EC2 instance user data script to send a signal after the EC2 instance is started.
- B. Add the DependsOn attribute to the EC2 instance resource, and provide the logical name of the RDS resource.
- C. Change the order of the resources in the template so that the RDS resource is listed before the EC2 instance resource.
- D. Create multiple templates. Use AWS CloudFormation StackSets to wait for one stack to complete before the second stack is created.

**Answer:** B

**Explanation:**

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-attribute-dependson.html> Syntax The DependsOn attribute can take a single string or list of strings. "DependsOn" : [ String, ... ]

Example The following template contains an AWS::EC2::Instance resource with a DependsOn attribute that specifies myDB, an AWS::RDS::DBInstance. When CloudFormation creates this stack, it first creates myDB, then creates Ec2Instance.

**NEW QUESTION 88**

- (Exam Topic 1)

A SysOps administrator is tasked with analyzing database performance. The database runs on a single Amazon RDS D6 instance. The SysOps administrator finds that, during times of peak traffic, resources on the database are over utilized due to the amount of read traffic.

Which actions should the SysOps administrator take to improve RDS performance? (Select TWO.)

- A. Add a read replica.
- B. Modify the application to use Amazon ElastiCache for Memcached.
- C. Migrate the database from RDS to Amazon DynamoDB.
- D. Migrate the database to Amazon EC2 with enhanced networking enabled
- E. Upgrade the database to a Multi-AZ deployment.

**Answer:** AB

**NEW QUESTION 89**

- (Exam Topic 1)

A SysOps administrator launches an Amazon EC2 Linux instance in a public subnet. When the instance is running, the SysOps administrator obtains the public IP address and attempts to remotely connect to the instance multiple times. However, the SysOps administrator always receives a timeout error.

Which action will allow the SysOps administrator to remotely connect to the instance?

- A. Add a route table entry in the public subnet for the SysOps administrator's IP address.
- B. Add an outbound network ACL rule to allow TCP port 22 for the SysOps administrator's IP address.
- C. Modify the instance security group to allow inbound SSH traffic from the SysOps administrator's IP address.
- D. Modify the instance security group to allow outbound SSH traffic to the SysOps administrator's IP address.

**Answer:** C

**NEW QUESTION 94**

- (Exam Topic 1)

An organization created an Amazon Elastic File System (Amazon EFS) volume with a file system ID of fs-85ba4Kc. and it is actively used by 10 Amazon EC2 hosts. The organization has become concerned that the file system is not encrypted. How can this be resolved?

- A. Enable encryption on each host's connection to the Amazon EFS volume. Each connection must be recreated for encryption to take effect.
- B. Enable encryption on the existing EFS volume by using the AWS Command Line Interface.
- C. Enable encryption on each host's local drive. Restart each host to encrypt the drive.
- D. Enable encryption on a newly created volume and copy all data from the original volume. Reconnect each host to the new volume.

**Answer:** D

**Explanation:**

<https://docs.aws.amazon.com/efs/latest/ug/encryption.html>

Amazon EFS supports two forms of encryption for file systems, encryption of data in transit and encryption at rest. You can enable encryption of data at rest when creating an Amazon EFS file system. You can enable encryption of data in transit when you mount the file system.

**NEW QUESTION 96**

- (Exam Topic 1)

A software company runs a workload on Amazon EC2 instances behind an Application Load Balancer (ALB). A SysOps administrator needs to define a custom health check for the EC2 instances. What is the MOST operationally efficient solution?

- A. Set up each EC2 Instance so that it writes its healthy/unhealthy status into a shared Amazon S3 bucket for the ALB to read.
- B. Configure the health check on the ALB and ensure that the HealthCheckPath setting is correct.
- C. Set up Amazon ElastiCache to track the EC2 instances as they scale in and out.
- D. Configure an Amazon API Gateway health check to ensure custom checks on all of the EC2 instances.

**Answer:** B

**NEW QUESTION 98**

- (Exam Topic 1)

A SysOps administrator has successfully deployed a VPC with an AWS CloudFormation template. The SysOps administrator wants to deploy the same template across multiple accounts that are managed through AWS Organizations.

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

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

**Answer:** D

**Explanation:**

AWS CloudFormation StackSets extends the capability of stacks by enabling you to create, update, or delete stacks across multiple accounts and AWS Regions

#### NEW QUESTION 101

- (Exam Topic 1)

A company is using an Amazon Aurora MySQL DB cluster that has point-in-time recovery, backtracking, and automatic backup enabled. A SysOps administrator 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**

#### Explanation:

"The limit for a backtrack window is 72 hours.....Backtracking is only available for DB clusters that were created with the Backtrack feature enabled....Backtracking "rewinds" the DB cluster to the time you specify. Backtracking is not a replacement for backing up your DB cluster so that you can restore it to a point in time....You can backtrack a DB cluster quickly. Restoring a DB cluster to a point in time launches a new DB cluster and restores it from backup data or a DB cluster snapshot, which can take hours."

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Managing.Backtrack.html>

#### NEW QUESTION 103

- (Exam Topic 1)

A SysOps administrator is responsible for a legacy. CPU-heavy application The application can only be scaled vertically Currently, the application is deployed on a single t2 large Amazon EC2 instance The system is showing 90% CPU usage and significant performance latency after a few minutes

What change should be made to alleviate the performance problem?

- A. Change the Amazon EBS volume to Provisioned IOPs
- B. Upgrade to a compute-optimized instance
- C. Add additional 12 large instances to the application
- D. Purchase Reserved Instances

**Answer: B**

#### NEW QUESTION 107

- (Exam Topic 1)

A company creates custom AMI images by launching new Amazon EC2 instances from an AWS CloudFormation template it installs and configure necessary software through AWS OpsWorks and takes images of each EC2 instance. The process of installing and configuring software can take between 2 to 3 hours but at times the process stalls due to installation errors.

The SysOps administrator must modify the CloudFormation template so if the process stalls, the entire stack will fail and roll back.

Based on these requirements what should be added to the template?

- A. Conditions with a timeout set to 4 hours.
- B. CreationPolicy with timeout set to 4 hours.
- C. DependsOn a timeout set to 4 hours.
- D. Metadata with a timeout set to 4 hours

**Answer: B**

#### NEW QUESTION 108

- (Exam Topic 1)

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 notification 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 metri
- 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 each time that usage exceeds 60% of one of the service quotas.
- E. Use the AWS Service Health Dashboard to monitor each Trusted Advisor service quota metric.Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification each time that usage exceeds 60% of one of the service quotas.
- F. Use the AWS Service Health Dashboard to monitor each Trusted Advisor service quota metric.Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.

**Answer: A**

#### Explanation:

CloudWatch alarms allow you to monitor AWS resources, and you can configure an SNS topic to send an email notification each time one of the alarms is triggered. This will ensure that the company receives email notifications each time one of the service quotas is exceeded, allowing the company to take action as needed.

#### NEW QUESTION 113

- (Exam Topic 1)

A SysOps administrator receives notification that an application that is running on Amazon EC2 instances has failed to authenticate to an Amazon RDS database To troubleshoot, the SysOps administrator needs to investigate AWS Secrets Manager password rotation

Which Amazon CloudWatch log will provide insight into the password rotation?

- A. AWS CloudTrail logs
- B. EC2 instance application logs
- C. AWS Lambda function logs
- D. RDS database logs

**Answer:** B

#### NEW QUESTION 114

- (Exam Topic 1)

A SysOps administrator must create a solution that automatically shuts down any Amazon EC2 instances that have less than 10% average CPU utilization for 60 minutes or more.

Which solution will meet this requirement In the MOST operationally efficient manner?

- A. Implement a cron job on each EC2 instance to run once every 60 minutes and calculate the current CPU utilization
- B. Initiate an instance shutdown If CPU utilization is less than 10%.
- C. Implement an Amazon CloudWatch alarm for each EC2 instance to monitor average CPU utilization.Set the period at 1 hour, and set the threshold at 10%. Configure an EC2 action on the alarm to stop the instance.
- D. Install the unified Amazon CloudWatch agent on each EC2 instance, and enable the Basic level predefined metric se
- E. Log CPU utilization every 60 minutes, and initiate an instance shutdown if CPU utilization is less than 10%.
- F. Use AWS Systems Manager Run Command to get CPU utilization from each EC2 instance every 60 minute
- G. Initiate an instance shutdown if CPU utilization is less than 10%.

**Answer:** B

#### Explanation:

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/UsingAlarmActions.html>

#### NEW QUESTION 118

- (Exam Topic 1)

A company has an Amazon RDS DB instance. The company wants to implement a caching service while maintaining high availability.

Which combination of actions will meet these requirements? (Choose two.)

- A. Add Auto Discovery to the data store.
- B. Create an Amazon ElastiCache for Memcached data store.
- C. Create an Amazon ElastiCache for Redis data store.
- D. Enable Multi-AZ for the data store.
- E. Enable Multi-threading for the data store.

**Answer:** CD

#### Explanation:

<https://aws.amazon.com/elasticache/memcached/> <https://aws.amazon.com/elasticache/redis/>

#### NEW QUESTION 119

- (Exam Topic 1)

A company asks a SysOps administrator to ensure that AWS CloudTrail files are not tampered with after they are created. Currently, the company uses AWS Identity and Access Management (IAM) to restrict access to specific trails. The company's security team needs the ability to trace the integrity of each file.

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

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function when a new file is delivered
- B. Configure the Lambda function to compute an MD5 hash check on the file and store the result in an Amazon DynamoDB tabl
- C. The security team can use the values that are stored in DynamoDB to verify the integrity of the delivered files.
- D. Create an AWS Lambda function that is invoked each time a new file is delivered to the CloudTrail bucke
- E. Configure the Lambda function to compute an MD5 hash check on the file and store the result as a tag in an Amazon S3 objec
- F. The security team can use the information in the tag to verify the integrity of the delivered files.
- G. Enable the CloudTrail file integrity feature on an Amazon S3 bucke
- H. Create an IAM policy that grants the security team access to the file integrity logs that are stored in the S3 bucket.
- I. Enable the CloudTrail file integrity feature on the trai
- J. The security team can use the digest file that is created by CloudTrail to verify the integrity of the delivered files.

**Answer:** D

#### Explanation:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html> "When you enable log file integrity validation, CloudTrail creates a hash for every log file that it delivers.

Every hour, CloudTrail also creates and delivers a file that references the log files for the last hour and contains a hash of each. This file is called a digest file.

Validated log files are invaluable in security and forensic investigations"

#### NEW QUESTION 121

- (Exam Topic 1)

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 SysOps administrator do to resolve this issue?

- A. Extend the file system with operating system-level tools to use the new storage capacity.
- B. Reattach the EBS volume to the EC2 instance.
- C. Reboot the EC2 instance that is attached to the EBS volume.

- D. Take a snapshot of the EBS volum
- E. Replace the original volume with a volume that is created from the snapshot.

**Answer:** B

#### NEW QUESTION 126

- (Exam Topic 1)

A company is using Amazon Elastic File System (Amazon EFS) to share a file system among several Amazon EC2 instances. As usage increases, users report that file retrieval from the EFS file system is slower than normal.

Which action should a SysOps administrator take to improve the performance of the file system?

- A. Configure the file system for Provisioned Throughput.
- B. Enable encryption in transit on the file system.
- C. Identify any unused files in the file system, and remove the unused files.
- D. Resize the Amazon Elastic Block Store (Amazon EBS) volume of each of the EC2 instances.

**Answer:** A

#### NEW QUESTION 130

- (Exam Topic 1)

A company uses AWS Organizations to manage multiple AWS accounts. The company's SysOps team has been using a manual process to create and manage 1AM roles. The team requires an automated solution to create and manage the necessary 1AM roles for multiple AWS accounts.

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

- A. Create AWS CloudFormation template
- B. Reuse the templates to create the necessary 1AM roles in each of the AWS accounts.
- C. Use AWS Directory Service with AWS Organizations to automatically associate the necessary 1AM roles with Microsoft Active Directory users.
- D. Use AWS Resource Access Manager with AWS Organizations to deploy and manage shared resources across the AWS accounts.
- E. Use AWS CloudFormation StackSets with AWS Organizations to deploy and manage 1AM roles for the AWS accounts.

**Answer:** D

#### NEW QUESTION 134

- (Exam Topic 1)

A company's application currently uses an IAM role that allows all access to all AWS services. A SysOps administrator must ensure that the company's IAM policies allow only the permissions that the application requires.

How can the SysOps administrator create a policy to meet this requirement?

- A. Turn on AWS CloudTrai
- B. Generate a policy by using AWS Security Hub.
- C. Turn on Amazon EventBridge (Amazon CloudWatch Events). Generate a policy by using AWS Identity and Access Management Access Analyzer.
- D. Use the AWS CLI to run the get-generated-policy command in AWS Identity and Access Management Access Analyzer.
- E. Turn on AWS CloudTrai
- F. Generate a policy by using AWS Identity and Access Management Access Analyzer.

**Answer:** D

#### Explanation:

Generate a policy by using AWS Identity and Access Management Access Analyzer. AWS CloudTrail is a service that records all API calls made on your account. You can use this data to generate a policy with AWS Identity and Access Management Access Analyzer that only allows the permissions that the application requires. This will ensure that the application only has the necessary permissions and will protect the company from any unauthorized access.

<https://docs.aws.amazon.com/IAM/latest/UserGuide/what-is-access-analyzer.html#what-is-access-analyzer-poli>

#### NEW QUESTION 139

- (Exam Topic 1)

An ecommerce company uses an Amazon ElastiCache for Memcached cluster for in-memory caching of popular product queries on the shopping site. When viewing recent Amazon CloudWatch metrics data for the ElastiCache cluster, the SysOps administrator notices a large number of evictions.

Which of the following actions will reduce these evictions? (Choose two.)

- A. Add an additional node to the ElastiCache cluster.
- B. Increase the ElastiCache time to live (TTL).
- C. Increase the individual node size inside the ElastiCache cluster.
- D. Put an Elastic Load Balancer in front of the ElastiCache cluster.
- E. Use Amazon Simple Queue Service (Amazon SQS) to decouple the ElastiCache cluster.

**Answer:** AC

#### Explanation:

<https://d1.awsstatic.com/training-and-certification/docs-sysops-associate/AWS-Certified-SysOps-Administrator>

#### NEW QUESTION 141

- (Exam Topic 1)

A company is migrating its production file server to AWS. All data that is stored on the file server must remain accessible if an Availability Zone becomes unavailable or when system maintenance is performed. Users must be able to interact with the file server through the SMB protocol. Users also must have the ability to manage file permissions by using Windows ACLs.

Which solution will net 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 across two Availability Zone
- D. Configure an Application Load Balancer in front of the file gateways.
- E. Deploy two Amazon FSx for Windows File Server Single-AZ 2 file system
- F. Configure Microsoft Distributed File System Replication (DFSR).

**Answer:** B

**Explanation:**

<https://aws.amazon.com/fsx/windows/>

#### NEW QUESTION 144

- (Exam Topic 1)

A company uploaded its website files to an Amazon S3 bucket that has S3 Versioning enabled. The company uses an Amazon CloudFront distribution with the S3 bucket as the origin. The company recently modified the tiles, but the object names remained the same. Users report that old content is still appearing on the website.

How should a SysOps administrator remediate this issue?

- A. Create a CloudFront invalidation, and add the path of the updated files.
- B. Create a CloudFront signed URL to update each object immediately.
- C. Configure an S3 origin access identity (OAI) to display only the updated files to users.
- D. Disable S3 Versioning on the S3 bucket so that the updated files can replace the old files.

**Answer:** A

#### NEW QUESTION 147

- (Exam Topic 1)

A company plans to deploy a database on an Amazon Aurora MySQL DB cluster. The database will store data for a demonstration environment. The data must be reset on a daily basis.

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

- A. Create a manual snapshot of the DB cluster after the data has been populate
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basi
- C. Configure the function to restore the snapshot and then delete the previous DB cluster.
- D. Enable the Backtrack feature during the creation of the DB cluste
- E. Specify a target backtrack window of 48 hour
- F. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basi
- G. Configure the function to perform a backtrack operation.
- H. Export a manual snapshot of the DB cluster to an Amazon S3 bucket after the data has been populated.Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basi
- I. Configure the function to restore the snapshot from Amazon S3.
- J. Set the DB cluster backup retention period to 2 day
- K. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basi
- L. Configure the function to restore the DB cluster to a point in time and then delete the previous DB cluster.

**Answer:** D

**Explanation:**

Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basis. Configure the function to restore the DB cluster to a point in time and then delete the previous DB cluster. This is the most operationally efficient solution that meets the requirements, as it will allow the company to reset the database on a daily basis without having to manually take and restore snapshots. The other solutions (creating a manual snapshot of the DB cluster, enabling the Backtrack feature, or exporting a manual snapshot of the DB cluster to Amazon S3) will require additional steps and resources to reset the database on a daily basis.

#### NEW QUESTION 152

- (Exam Topic 1)

A company is using an Amazon DynamoDB table for data. A SysOps administrator must configure replication of the table to another AWS Region for disaster recovery.

What should the SysOps administrator do to meet this requirement?

- A. Enable DynamoDB Accelerator (DAX).
- B. Enable DynamoDB Streams, and add a global secondary index (GSI).
- C. Enable DynamoDB Streams, and-add a global table Region.
- D. Enable point-in-time recovery.

**Answer:** C

#### NEW QUESTION 155

- (Exam Topic 1)

A SysOps administrator is maintaining a web application using an Amazon CloudFront web distribution, an Application Load Balancer (ALB), Amazon RDS, and Amazon EC2 in a VPC. All services have logging enabled. The administrator needs to investigate HTTP Layer 7 status codes from the web application.

Which log sources contain the status codes? (Choose two.)

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

**Answer:** CD

**Explanation:**

"C" because Elastic Load Balancing provides access logs that capture detailed information about requests sent to your load balancer

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-access-logs.html>

"D" because "you can configure CloudFront to create log files that contain detailed information about every user request that CloudFront receives"

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/AccessLogs.html>

**NEW QUESTION 159**

- (Exam Topic 1)

An application runs on multiple Amazon EC2 instances in an Auto Scaling group. The Auto Scaling group is

configured to use the latest version of a launch template. A SysOps administrator must devise a solution that centrally manages the application logs and retains the logs for no more than 90 days.

Which solution will meet these requirements?

A. Launch an Amazon Machine Image (AMI) that is preconfigured with the Amazon CloudWatch Logs agent to send logs to an Amazon S3 bucket. Apply a 90-day S3 Lifecycle policy on the S3 bucket to expire the application logs.

B. Launch an Amazon Machine Image (AMI) that is preconfigured with the Amazon CloudWatch Logs agent to send logs to a log group. Create an Amazon EventBridge (Amazon CloudWatch Events) scheduled rule to perform an instance refresh every 90 days.

C. Update the launch template user data to install and configure the Amazon CloudWatch Logs agent to send logs to a log group. Configure the retention period on the log group to be 90 days.

D. Update the launch template user data to install and configure the Amazon CloudWatch Logs agent to send logs to a log group. Set the log rotation configuration of the EC2 instances to 90 days.

**Answer:** C

**NEW QUESTION 162**

- (Exam Topic 1)

A company has launched a social media website that gives users the ability to upload images directly to a centralized Amazon S3 bucket. The website is popular in areas that are geographically distant from the AWS Region where the S3 bucket is located. Users are reporting that uploads are slow. A SysOps administrator must improve the upload speed.

What should the SysOps administrator do to meet these requirements?

A. Create S3 access points in Regions that are closer to the users.

B. Create an accelerator in AWS Global Accelerator for the S3 bucket.

C. Enable S3 Transfer Acceleration on the S3 bucket.

D. Enable cross-origin resource sharing (CORS) on the S3 bucket.

**Answer:** C

**Explanation:**

You might want to use Transfer Acceleration on a bucket for various reasons: ->Your customers upload to a centralized bucket from all over the world. ->You transfer gigabytes to terabytes of data on a regular basis across continents. ->You can't use all of your available bandwidth over the internet when uploading to Amazon S3." <https://docs.aws.amazon.com/AmazonS3/latest/userguide/transfer-acceleration.html>

**NEW QUESTION 163**

- (Exam Topic 1)

A company uses Amazon S3 to aggregate raw video footage from various media teams across the US. The company recently expanded into new geographies in Europe and Australia. The technical teams located in Europe and Australia reported delays when uploading large video files into the destination S3 bucket in the United States.

What are the MOST cost-effective ways to increase upload speeds into the S3 bucket? (Select TWO.)

A. Create multiple AWS Direct Connect connections between AWS and branch offices in Europe and Australia for uploads into the destination S3 bucket.

B. Create multiple AWS Site-to-Site VPN connections between AWS and branch offices in Europe and Australia for file uploads into the destination S3 bucket.

C. Use Amazon S3 Transfer Acceleration for file uploads into the destination S3 bucket.

D. Use AWS Global Accelerator for file uploads into the destination S3 bucket from the branch offices in Europe and Australia.

E. Use multipart uploads for file uploads into the destination S3 bucket from the branch offices in Europe and Australia.

**Answer:** CE

**NEW QUESTION 165**

- (Exam Topic 1)

A company's SysOps administrator has created an Amazon EC2 instance with custom software that will be used as a template for all new EC2 instances across multiple AWS accounts. The Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the EC2 instance are encrypted with AWS managed keys. The SysOps administrator creates an Amazon Machine Image (AMI) of the custom EC2 instance and plans to share the AMI with the company's other AWS accounts. The company requires that all AMIs are encrypted with AWS Key Management Service (AWS KMS) keys and that only authorized AWS accounts can access the shared AMIs.

Which solution will securely share the AMI with the other AWS accounts?

A. In the account where the AMI was created, create a customer master key (CMK). Modify the key policy to provide kms:DescribeKey, kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.

B. Modify the AMI permissions to specify the AWS account numbers that the AMI will be shared with.

C. In the account where the AMI was created, create a customer master key (CMK). Modify the key policy to provide kms:DescribeKey, kms:ReEncrypt\*, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.

D. Create a copy of the AMI.

E. and specify the CMK.

F. Modify the permissions on the copied AMI to specify the AWS account numbers that the AMI will be shared with.

G. In the account where the AMI was created, create a customer master key (CMK). Modify the key policy to provide kms:DescribeKey, kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.

- H. Create a copy of the AMI
- I. and specify the CM
- J. Modify the permissions on the copied AMI to make it public.
- K. In the account where the AMI was created, modify the key policy of the AWS managed key to provide kms:DescribeKey
- L. kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with
- M. Modify the AMI permissions to specify the AWS account numbers that the AMI will be shared with.

**Answer:** B

**Explanation:**

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/sharingamis-explicit.html>

**NEW QUESTION 169**

- (Exam Topic 1)

A SysOps administrator needs to configure a solution that will deliver digital content to a set of authorized users through Amazon CloudFront. Unauthorized users must be restricted from access. Which solution will meet these requirements?

- A. Store the digital content in an Amazon S3 bucket that does not have public access blocked
- B. Use signed URLs to access the S3 bucket through CloudFront.
- C. Store the digital content in an Amazon S3 bucket that has public access blocked
- D. Use an origin access identity (OAI) to deliver the content through CloudFront
- E. Restrict S3 bucket access with signed URLs in CloudFront.
- F. Store the digital content in an Amazon S3 bucket that has public access blocked
- G. Use an origin access identity (OAI) to deliver the content through CloudFront
- H. Enable field-level encryption.
- I. Store the digital content in an Amazon S3 bucket that does not have public access blocked
- J. Use signed cookies for restricted delivery of the content through CloudFront.

**Answer:** B

**NEW QUESTION 171**

- (Exam Topic 1)

A company has a public website that recently experienced problems. Some links led to missing webpages, and other links rendered incorrect webpages. The application infrastructure was running properly, and all the provisioned resources were healthy. Application logs and dashboards did not show any errors, and no monitoring alarms were raised. Systems administrators were not aware of any problems until end users reported the issues.

The company needs to proactively monitor the website for such issues in the future and must implement a solution as soon as possible.

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

- A. Rewrite the application to surface a custom error to the application log when issues occur. Automatically parse logs for error
- B. Create an Amazon CloudWatch alarm to provide alerts when issues are detected.
- C. Create an AWS Lambda function to test the website
- D. Configure the Lambda function to emit an Amazon CloudWatch custom metric when errors are detected
- E. Configure a CloudWatch alarm to provide alerts when issues are detected.
- F. Create an Amazon CloudWatch Synthetic canary
- G. Use the CloudWatch Synthetic Recorder plugin to generate the script for the canary run
- H. Configure the canary in line with requirement
- I. Create an alarm to provide alerts when issues are detected.

**Answer:** A

**NEW QUESTION 176**

- (Exam Topic 1)

A SysOps administrator has enabled AWS CloudTrail in an AWS account. If CloudTrail is disabled, it must be re-enabled immediately. What should the SysOps administrator do to meet these requirements WITHOUT writing custom code?

- A. Add the AWS account to AWS Organizations. Enable CloudTrail in the management account
- B. Create an AWS Config rule that is invoked when CloudTrail configuration changes. Apply the AWS-ConfigureCloudTrailLogging automatic remediation action
- C. Create an AWS Config rule that is invoked when CloudTrail configuration changes. Configure the rule to invoke an AWS Lambda function to enable CloudTrail
- D. Create an Amazon EventBridge (Amazon CloudWatch Events) hourly rule with a schedule pattern to run an AWS Systems Manager Automation document to enable CloudTrail

**Answer:** B

**NEW QUESTION 177**

- (Exam Topic 1)

A SysOps administrator is designing a solution for an Amazon RDS for PostgreSQL DB instance. Database credentials must be stored and rotated monthly. The applications that connect to the DB instance send

write-intensive traffic with variable client connections that sometimes increase significantly in a short period of time.

Which solution should a SysOps administrator choose to meet these requirements?

- A. Configure AWS Key Management Service (AWS KMS) to automatically rotate the keys for the DB instance
- B. Use RDS Proxy to handle the increases in database connections.
- C. Configure AWS Key Management Service (AWS KMS) to automatically rotate the keys for the DB instance
- D. Use RDS read replicas to handle the increases in database connections.
- E. Configure AWS Secrets Manager to automatically rotate the credentials for the DB instance
- F. Use RDS Proxy to handle the increases in database connections.
- G. Configure AWS Secrets Manager to automatically rotate the credentials for the DB instance
- H. Use RDS read replicas to handle the increases in database connections.

**Answer:** A

#### NEW QUESTION 182

- (Exam Topic 1)

A SysOps administrator is reviewing AWS Trusted Advisor warnings and encounters a warning for an S3 bucket policy that has open access permissions. While discussing the issue with the bucket owner, the administrator realizes the S3 bucket is an origin for an Amazon CloudFront web distribution. Which action should the administrator take to ensure that users access objects in Amazon S3 by using only CloudFront URLs?

- A. Encrypt the S3 bucket content with Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3).
- B. Create an origin access identity and grant it permissions to read objects in the S3 bucket.
- C. Assign an IAM user to the CloudFront distribution and grant the user permissions in the S3 bucket policy.
- D. Assign an IAM role to the CloudFront distribution and grant the role permissions in the S3 bucket policy.

**Answer:** B

#### Explanation:

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3>

#### NEW QUESTION 184

- (Exam Topic 1)

A SysOps administrator is setting up a fleet of Amazon EC2 instances in an Auto Scaling group for an application. The fleet should have 50% CPU available at that times to accommodate bursts of traffic. The load will increase significantly between the hours of 09:00 and 17:00, 7 days a week. How should the SysOps administrator configure the scaling of the EC2 instances to meet these requirements?

- A. Create a target tracking scaling policy that runs when the CPU utilization is higher than 90%.
- B. Create a target tracking scaling policy that runs when the CPU utilization is higher than 50%. Create a scheduled scaling policy that ensures that the fleet is available at 09:00. Create a second scheduled scaling policy that scales in the fleet at 17:00.
- C. Set the Auto Scaling group to start with 2 instances by setting the desired instances, maximum instances, and minimum instances to 2. Create a scheduled scaling policy that ensures that the fleet is available at 09:00.
- D. Create a scheduled scaling policy that ensures that the fleet is available at 09:00. Create a second scheduled scaling policy that scales in the fleet at 17:00.

**Answer:** B

#### NEW QUESTION 185

- (Exam Topic 1)

A company is creating a new multi-account architecture. A SysOps administrator must implement a login solution to centrally manage user access and permissions across all AWS accounts. The solution must be integrated with AWS Organizations and must be connected to a third-party Security Assertion Markup Language (SAML) 2.0 identity provider (IdP).

What should the SysOps administrator do to meet these requirements?

- A. Configure an Amazon Cognito user pool.
- B. Integrate the user pool with the third-party IdP.
- C. Enable and configure AWS Single Sign-On with the third-party IdP.
- D. Federate the third-party IdP with AWS Identity and Access Management (IAM) for each AWS account in the organization.
- E. Integrate the third-party IdP directly with AWS Organizations.

**Answer:** A

#### NEW QUESTION 186

- (Exam Topic 1)

A company's SysOps administrator needs to change the AWS Support plan for one of the company's AWS accounts. The account has multi-factor authentication (MFA) activated, and the MFA device is lost.

What should the SysOps administrator do to sign in?

- A. Sign in as a root user by using email and phone verification.
- B. Set up a new MFA device.
- C. Change the root user password.
- D. Sign in as an IAM user with administrator permission.
- E. Resynchronize the MFA token by using the IAM console.
- F. Sign in as an IAM user with administrator permission.
- G. Reset the MFA device for the root user by adding a new device.
- H. Use the forgot-password process to verify the email address.
- I. Set up a new password and MFA device.

**Answer:** A

#### NEW QUESTION 188

- (Exam Topic 1)

A company hosts an internal application on Amazon EC2 instances. All application data and requests route through an AWS Site-to-Site VPN connection between the on-premises network and AWS. The company must monitor the application for changes that allow network access outside of the corporate network. Any change that exposes the application externally must be restricted automatically.

Which solution meets these requirements in the MOST operationally efficient manner?

- A. Create an AWS Lambda function that updates security groups that are associated with the elastic network interface to remove inbound rules with noncorporate CIDR range.
- B. Turn on VPC Flow Logs, and send the logs to Amazon CloudWatch Log.
- C. Create an Amazon CloudWatch alarm that matches traffic from noncorporate CIDR ranges, and publish a message to an Amazon Simple Notification Service (Amazon SNS) topic with the Lambda function as a target.

- D. Create a scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that targets an AWS Systems Manager Automation document to check for public IP addresses on the EC2 instance
- E. If public IP addresses are found on the EC2 instances, initiate another Systems Manager Automation document to terminate the instances.
- F. Configure AWS Config and a custom rule to monitor whether a security group allows inbound requests from noncorporate CIDR range
- G. Create an AWS Systems Manager Automation document to remove any noncorporate CIDR ranges from the application security groups.
- H. Configure AWS Config and the managed rule for monitoring public IP associations with the EC2 instances by tag
- I. Tag the EC2 instances with an identifier
- J. Create an AWS Systems Manager Automation document to remove the public IP association from the EC2 instances.

**Answer:** C

**Explanation:**

<https://aws.amazon.com/blogs/security/how-to-auto-remediate-internet-accessible-ports-with-aws-config-and-aws-ec2-instance-selector/>

**NEW QUESTION 189**

- (Exam Topic 1)

A company runs hundreds of Amazon EC2 instances in a single AWS Region. Each EC2 instance has two attached 1 GiB General Purpose SSD (gp2) Amazon Elastic Block Store (Amazon EBS) volumes. A critical workload is using all the available IOPS capacity on the EBS volumes.

According to company policy, the company cannot change instance types or EBS volume types without completing lengthy acceptance tests to validate that the company's applications will function properly. A SysOps administrator needs to increase the I/O performance of the EBS volumes as quickly as possible.

Which action should the SysOps administrator take to meet these requirements?

- A. Increase the size of the 1 GiB EBS volumes.
- B. Add two additional elastic network interfaces on each EC2 instance.
- C. Turn on Transfer Acceleration on the EBS volumes in the Region.
- D. Add all the EC2 instances to a cluster placement group.

**Answer:** A

**Explanation:**

Increasing the size of the 1 GiB EBS volumes will increase the IOPS capacity of the volumes, which will improve the I/O performance of the EBS volumes. This option does not require any changes to the instance types or EBS volume types, so it can be done quickly without the need for lengthy acceptance tests to validate that the company's applications will function properly.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/requesting-ebs-volume-modifications.html>

**NEW QUESTION 193**

- (Exam Topic 1)

A SysOps administrator is attempting to download patches from the internet into an instance in a private subnet. An internet gateway exists for the VPC, and a NAT gateway has been deployed on the public subnet; however, the instance has no internet connectivity. The resources deployed into the private subnet must be inaccessible directly from the public internet.

**Public Subnet (10.0.1.0/24) Route Table**

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	IGW

**Private Subnet (10.0.2.0/24) Route Table**

Destination	Target
10.0.0.0/16	local

What should be added to the private subnet's route table in order to address this issue, given the information provided?

- A. 0.0.0.0/0 IGW
- B. 0.0.0.0/0 NAT
- C. 10.0.1.0/24 IGW
- D. 10.0.1.0/24 NAT

**Answer:** B

**NEW QUESTION 194**

- (Exam Topic 1)

A SysOps administrator is helping a development team deploy an application to AWS. The AWS CloudFormation template includes an Amazon Linux EC2 Instance, an Amazon Aurora DB cluster, and a hard-coded database password that must be rotated every 90 days.

What is the MOST secure way to manage the database password?

- A. Use the AWS SecretsManager Secret resource with the GenerateSecretString property to automatically generate a password. Use the AWS SecretsManager RotationSchedule resource to define a rotation schedule for the password. Configure the application to retrieve the secret from AWS Secrets Manager to access the database.
- B. Use the AWS SecretsManager Secret resource with the SecretString property. Accept a password as a CloudFormation parameter. Use the AllowedPattern property of the CloudFormation parameter to require a minimum length, uppercase and lowercase letters, and special characters. Configure the application to retrieve the secret from AWS Secrets Manager to access the database.
- C. Use the AWS SSM Parameter resource. Accept input as a CloudFormation parameter to store the parameter as a secure string. Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database.
- D. Use the AWS SSM Parameter resource. Accept input as a CloudFormation parameter to store the parameter as a string. Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database.

**Answer:** A

#### NEW QUESTION 198

- (Exam Topic 1)

A SysOps administrator needs to automate the invocation of an AWS Lambda function. The Lambda function must run at the end of each day to generate a report on data that is stored in an Amazon S3 bucket.

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

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that has an event pattern for Amazon S3 and the Lambda function as a target.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that has a schedule and the Lambda function as a target.
- C. Create an S3 event notification to invoke the Lambda function whenever objects change in the S3 bucket.
- D. Deploy an Amazon EC2 instance with a cron job to invoke the Lambda function.

**Answer: C**

#### NEW QUESTION 202

- (Exam Topic 1)

A SysOps administrator noticed that a large number of Elastic IP addresses are being created on the company's AWS account, but they are not being associated with Amazon EC2 instances, and are incurring Elastic IP address charges in the monthly bill.

How can the administrator identify who is creating the Elastic IP addresses?

- A. Attach a cost-allocation tag to each requested Elastic IP address with the IAM user name of the developer who creates it.
- B. Query AWS CloudTrail logs by using Amazon Athena to search for Elastic IP address events.
- C. Create a CloudWatch alarm on the EIPCreated metric and send an Amazon SNS notification when the alarm triggers.
- D. Use Amazon Inspector to get a report of all Elastic IP addresses created in the last 30 days.

**Answer: B**

#### NEW QUESTION 204

- (Exam Topic 1)

A company is using Amazon Elastic Container Service (Amazon ECS) to run a containerized application on Amazon EC2 instances. A SysOps administrator needs to monitor only traffic flows between the ECS tasks.

Which combination of steps should the SysOps administrator take to meet this requirement? (Select TWO.)

- A. Configure Amazon CloudWatch Logs on the elastic network interface of each task.
- B. Configure VPC Flow Logs on the elastic network interface of each task.
- C. Specify the awsvpc network mode in the task definition.
- D. Specify the bridge network mode in the task definition.
- E. Specify the host network mode in the task definition.

**Answer: AE**

#### NEW QUESTION 208

- (Exam Topic 1)

A company is using Amazon CloudFront to serve static content for its web application to its users. The CloudFront distribution uses an existing on-premises website as a custom origin.

The company requires the use of TLS between CloudFront and the origin server. This configuration has worked as expected for several months. However, users are now experiencing HTTP 502 (Bad Gateway) errors when they view webpages that include content from the CloudFront distribution.

What should a SysOps administrator do to resolve this problem?

- A. Examine the expiration date on the certificate on the origin site
- B. Validate that the certificate has not expired
- C. Replace the certificate if necessary.
- D. Examine the hostname on the certificate on the origin site
- E. Validate that the hostname matches one of the hostnames on the CloudFront distribution
- F. Replace the certificate if necessary.
- G. Examine the firewall rules that are associated with the origin server
- H. Validate that port 443 is open for inbound traffic from the internet
- I. Create an inbound rule if necessary.
- J. Examine the network ACL rules that are associated with the CloudFront distribution
- K. Validate that port 443 is open for outbound traffic to the origin server
- L. Create an outbound rule if necessary.

**Answer: A**

#### Explanation:

HTTP 502 errors from CloudFront can occur because of the following reasons:

There's an SSL negotiation failure because the origin is using SSL/TLS protocols and ciphers that aren't supported by CloudFront.

There's an SSL negotiation failure because the SSL certificate on the origin is expired or invalid, or because the certificate chain is invalid.

There's a host header mismatch in the SSL negotiation between your CloudFront distribution and the custom origin.

The custom origin isn't responding on the ports specified in the origin settings of the CloudFront distribution. The custom origin is ending the connection to CloudFront too quickly.

<https://aws.amazon.com/premiumsupport/knowledge-center/resolve-cloudfront-connection-error/>

#### NEW QUESTION 210

- (Exam Topic 1)

A large company is using AWS Organizations to manage its multi-account AWS environment. According to company policy, all users should have read-level access to a particular Amazon S3 bucket in a central account. The S3 bucket data should not be available outside the organization. A SysOps administrator must set up the permissions and add a bucket policy to the S3 bucket.

Which parameters should be specified to accomplish this in the MOST efficient manner?

- A. Specify '\*' as the principal and PrincipalOrgId as a condition.
- B. Specify all account numbers as the principal.
- C. Specify PrincipalOrgId as the principal.
- D. Specify the organization's management account as the principal.

**Answer:** C

#### NEW QUESTION 212

- (Exam Topic 1)

A company has a simple web application that runs on a set of Amazon EC2 instances behind an Elastic Load Balancer in the eu-west-2 Region. Amazon Route 53 holds a DNS record for the application with a simple routing policy. Users from all over the world access the application through their web browsers. The company needs to create additional copies of the application in the us-east-1 Region and in the ap-south-1 Region. The company must direct users to the Region that provides the fastest response times when the users load the application. What should a SysOps administrator do to meet these requirements?

- A. In each new Region, create a new Elastic Load Balancer and a new set of EC2 Instances to run a copy of the applicatio
- B. Transition to a geolocation routing policy.
- C. In each new Region, create a copy of the application on new EC2 instance
- D. Add these new EC2 instances to the Elastic Load Balancer in eu-west-2. Transition to a latency routing policy.
- E. In each new Region, create a copy of the application on new EC2 instance
- F. Add these new EC2 instances to the Elastic Load Balancer in eu-west-2. Transition to a multivalue routing policy.
- G. In each new Region, create a new Elastic Load Balancer and a new set of EC2 instances to run a copy of the applicatio
- H. Transition to a latency routing policy.

**Answer:** B

#### NEW QUESTION 213

- (Exam Topic 1)

A company requires that all IAM user accounts that have not been used for 90 days or more must have their access keys and passwords immediately disabled. A SysOps administrator must automate the process of disabling unused keys using the MOST operationally efficient method. How should the SysOps administrator implement this solution?

- A. Create an AWS Step Functions workflow to identify IAM users that have not been active for 90 days. Run an AWS Lambda function when a scheduled Amazon EventBridge (Amazon CloudWatch Events) rule is invoked to automatically remove the AWS access keys and passwords for these IAM users.
- B. Configure an AWS Config rule to identify IAM users that have not been active for 90 days. Set up an automatic weekly batch process on an Amazon EC2 instance to disable the AWS access keys and passwords for these IAM users.
- C. Develop and run a Python script on an Amazon EC2 instance to programmatically identify IAM users that have not been active for 90 days. Automatically delete these IAM users.
- D. Set up an AWS Config managed rule to identify IAM users that have not been active for 90 days. Set up an AWS Systems Manager automation runbook to disable the AWS access keys for these IAM users.

**Answer:** D

#### NEW QUESTION 217

- (Exam Topic 1)

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 SysOps administrator analyzes the flow logs. The flow logs include the following records:

```
2 123456789010 eni-1235b8ca123456789 192.168.0.13 172.31.16.139 59003 8080 1 4 336 1432917027 1432917142 ACCEPT OK
2 123456789010 eni-1235b8ca123456789 172.31.16.139 192.168.0.13 8080 59003 1 4 336 1432917094 1432917142 REJECT OK
```

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:** A

#### NEW QUESTION 221

- (Exam Topic 1)

A company is releasing a new static website hosted on Amazon S3. The static website hosting feature was enabled on the bucket and content was uploaded; however, upon navigating to the site, the following error message is received:

403 Forbidden - Access Denied

What change should be made to fix this error?

- A. Add a bucket policy that grants everyone read access to the bucket.
- B. Add a bucket policy that grants everyone read access to the bucket objects.
- C. Remove the default bucket policy that denies read access to the bucket.
- D. Configure cross-origin resource sharing (CORS) on the bucket.

**Answer:** B

#### NEW QUESTION 223

- (Exam Topic 1)

A SysOps administrator has enabled AWS CloudTrail in an AWS account. If CloudTrail is disabled, it must be re-enabled immediately. What should the SysOps

administrator do to meet these requirements WITHOUT writing custom code?

- A. Add the AWS account to AWS Organization
- B. Enable CloudTrail in the management account.
- C. Create an AWS Config rule that is invoked when CloudTrail configuration change
- D. Apply the AWS-ConfigureCloudTrailLogging automatic remediation action.
- E. Create an AWS Config rule that is invoked when CloudTrail configuration change
- F. Configure the rule to invoke an AWS Lambda function to enable CloudTrail.
- G. Create an Amazon EventBridge (Amazon CloudWatch Events) hourly rule with a schedule pattern to run an AWS Systems Manager Automation document to enable CloudTrail.

**Answer: D**

#### NEW QUESTION 224

- (Exam Topic 1)

A development team recently deployed a new version of a web application to production. After the release, penetration testing revealed a cross-site scripting vulnerability that could expose user data.

Which AWS service will mitigate this issue?

- A. AWS Shield Standard
- B. AWS WAF
- C. Elastic Load Balancing
- D. Amazon Cognito

**Answer: A**

#### NEW QUESTION 227

- (Exam Topic 1)

A SysOps administrator trust manage the security of An AWS account Recently an IAM users access key was mistakenly uploaded to a public code repository. The SysOps administrator must identity anything that was changed by using this access key.

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to send all IAM events lo an AWS Lambda function for analysis
- B. Query Amazon EC2 togs by using Amazon CloudWatch Logs Insights for all events Heated with the compromised access key within the suspected timeframe
- C. Search AWS CloudTrail event history tor all events initiated with the compromised access key within the suspected timeframe
- D. Search VPC Flow Logs foe all events initiated with the compromised access key within the suspected Timeframe.

**Answer: C**

#### NEW QUESTION 231

- (Exam Topic 1)

A SysOps administrator is configuring an application on Amazon EC2 instances for a company Teams in other countries will use the application over the internet. The company requires the application endpoint to have a static pubic IP address.

How should the SysOps administrator deploy the application to meet this requirement?

- A. Behind an Amazon API Gateway API
- B. Behind an Application Load Balancer
- C. Behind an internet-facing Network Load Balancer
- D. In an Amazon CloudFront distribution

**Answer: C**

#### NEW QUESTION 234

- (Exam Topic 1)

A SysOps administrator is trying to set up an Amazon Route 53 domain name to route traffic to a website hosted on Amazon S3. The domain name of the website is www.anycompany.com and the S3 bucket name is anycompany-static. After the record set is set up in Route 53, the domain name www.anycompany.com does not seem to work, and the static website is not displayed in the browser.

Which of the following is a cause of this?

- A. The S3 bucket must be configured with Amazon CloudFront first.
- B. The Route 53 record set must have an IAM role that allows access to the S3 bucket.
- C. The Route 53 record set must be in the same region as the S3 bucket.
- D. The S3 bucket name must match the record set name in Route 53.

**Answer: D**

#### NEW QUESTION 237

- (Exam Topic 1)

A company is using Amazon Elastic File System (Amazon EFS) to share a file system among several Amazon EC2 instances. As usage increases, users report that file retrieval from the EFS file system is slower than normal.

Which action should a SysOps administrator take to improve the performance of the file system?

- A. Configure the file system for Provisioned Throughput.
- B. Enable encryption in transit on the file system.
- C. Identify any unused files in the file system, and remove the unused files.
- D. Resize the Amazon Elastic Block Store (Amazon EBS) volume of each of the EC2 instances.

**Answer: A**

#### NEW QUESTION 241

- (Exam Topic 1)

A SysOps administrator needs to track the costs of data transfer between AWS Regions. The SysOps administrator must implement a solution to send alerts to an email distribution list when transfer costs reach 75% of a specific threshold.

What should the SysOps administrator 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. Configure the alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic
- F. Subscribe the email distribution list to the topic.
- G. Use AWS Budgets to create a cost budget for data transfer cost
- H. Set an alert at 75% of the budgeted amount
- I. Configure the budget to send a notification to the email distribution list when costs reach 75% of the threshold.
- J. Set up a VPC flow log
- K. Set up a subscription filter to an AWS Lambda function to analyze data transfer. Configure the Lambda function to send a notification to the email distribution list when costs reach 75% of the threshold.

**Answer: B**

#### Explanation:

The reason is that it uses the Amazon CloudWatch billing alarm which is a built-in service specifically designed to monitor and alert on cost usage of your AWS account, which makes it a more suitable solution for this use case. The alarm can be configured to detect when costs reach 75% of the threshold and when it is triggered, it can publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. The email distribution list can be subscribed to the topic, so that they will receive the alerts when costs reach 75% of the threshold.

AWS Budgets allows you to track and manage your costs, but it doesn't specifically focus on data transfer costs between regions, and it might not provide as much granularity as CloudWatch Alarms.

#### NEW QUESTION 245

- (Exam Topic 1)

A company uses an Amazon CloudFront distribution to deliver its website. Traffic logs for the website must be centrally stored and all data must be encrypted at rest.

Which solution will meet these requirements?

- A. Create an Amazon OpenSearch Service (Amazon Elasticsearch Service) domain with internet access and server-side encryption that uses the default AWS managed key. Configure CloudFront to use the Amazon OpenSearch Service (Amazon Elasticsearch Service) domain as a log destination.
- B. Create an Amazon OpenSearch Service (Amazon Elasticsearch Service) domain with VPC access and server-side encryption that uses AES-256. Configure CloudFront to use the Amazon OpenSearch Service (Amazon Elasticsearch Service) domain as a log destination.
- C. Create an Amazon S3 bucket that is configured with default server-side encryption that uses AES-256. Configure CloudFront to use the S3 bucket as a log destination.
- D. Create an Amazon S3 bucket that is configured with no default encryption. Enable encryption in the CloudFront distribution and use the S3 bucket as a log destination.

**Answer: C**

#### NEW QUESTION 250

- (Exam Topic 1)

A company uses Amazon Elasticsearch Service (Amazon ES) to analyze sales and customer usage data. Members of the company's geographically dispersed sales team are traveling. They need to log in to Kibana by using their existing corporate credentials that are stored in Active Directory. The company has deployed Active Directory Federation Services (AD FS) to enable authentication to cloud services. Which solution will meet these requirements?

- A. Configure Active Directory as an authentication provider in Amazon ES
- B. Add the Active Directory server's domain name to Amazon ES
- C. Configure Kibana to use Amazon ES authentication.
- D. Deploy an Amazon Cognito user pool
- E. Configure Active Directory as an external identity provider for the user pool
- F. Enable Amazon Cognito authentication for Kibana on Amazon ES.
- G. Enable Active Directory user authentication in Kibana
- H. Create an IP-based custom domain access policy in Amazon ES that includes the Active Directory server's IP address.
- I. Establish a trust relationship with Kibana on the Active Directory server
- J. Enable Active Directory user authentication in Kibana
- K. Add the Active Directory server's IP address to Kibana.

**Answer: B**

#### Explanation:

<https://aws.amazon.com/blogs/security/how-to-enable-secure-access-to-kibana-using-aws-single-sign-on/> <https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html>

#### NEW QUESTION 252

- (Exam Topic 1)

A company is expanding globally and needs to back up data on Amazon Elastic Block Store (Amazon EBS) volumes to a different AWS Region. Most of the EBS volumes that store the data are encrypted, but some of the EBS volumes are unencrypted. The company needs the backup data from all the EBS volumes to be encrypted.

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

- A. Configure a lifecycle policy in Amazon Data Lifecycle Manager (Amazon DLM) to create the EBS volume snapshots with cross-Region backups enabled
- B. Encrypt the snapshot copies by using AWS Key Management Service (AWS KMS).

- C. Create a point-in-time snapshot of the EBS volume
- D. When the snapshot status is COMPLETED, copy the snapshots to another Region and set the Encrypted parameter to False.
- E. Create a point-in-time snapshot of the EBS volume
- F. Copy the snapshots to an Amazon S3 bucket that uses server-side encryption
- G. Turn on S3 Cross-Region Replication on the S3 bucket.
- H. Schedule an AWS Lambda function with the Python runtime
- I. Configure the Lambda function to create the EBS volume snapshots, encrypt the unencrypted snapshots, and copy the snapshots to another Region.

**Answer:** A

**Explanation:**

Encrypt the snapshot copies by using AWS Key Management Service (AWS KMS). This solution will allow the company to automatically create encrypted snapshots of the EBS volumes and copy them to different AWS Regions with minimal effort.

**NEW QUESTION 253**

- (Exam Topic 1)

A SysOps administrator must ensure that a company's Amazon EC2 instances auto scale as expected. The SysOps administrator configures an Amazon EC2 Auto Scaling Lifecycle hook to send an event to Amazon EventBridge (Amazon CloudWatch Events), which then invokes an AWS Lambda function to configure the EC2 instances. When the configuration is complete, the Lambda function calls the complete Lifecycle-action event to put the EC2 instances into service. In testing, the SysOps administrator discovers that the Lambda function is not invoked when the EC2 instances auto scale. What should the SysOps administrator do to resolve this issue?

- A. Add a permission to the Lambda function so that it can be invoked by the EventBridge (CloudWatch Events) rule.
- B. Change the lifecycle hook action to CONTINUE if the lifecycle hook experiences a failure or timeout.
- C. Configure a retry policy in the EventBridge (CloudWatch Events) rule to retry the Lambda function invocation upon failure.
- D. Update the Lambda function execution role so that it has permission to call the complete lifecycle-action event

**Answer:** D

**NEW QUESTION 255**

- (Exam Topic 1)

A company needs to create a daily Amazon Machine Image (AMI) of an existing Amazon Linux EC2 instance that hosts the operating system, application, and database on multiple attached Amazon Elastic Block Store (Amazon EBS) volumes. File system integrity must be maintained. Which solution will meet these requirements?

- A. Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the no-reboot parameter enabled.
- B. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- C. Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the reboot parameter enabled.
- D. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- E. Use AWS Backup to create a backup plan with a backup rule that runs daily.
- F. Assign the resource ID of the EC2 instance with the no-reboot parameter enabled.
- G. Use AWS Backup to create a backup plan with a backup rule that runs daily.
- H. Assign the resource ID of the EC2 instance with the reboot parameter enabled.

**Answer:** B

**Explanation:**

[https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating\\_EBSbacked\\_WinAMI.html](https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating_EBSbacked_WinAMI.html) "NoReboot By default, Amazon EC2 attempts to shut down and reboot the instance before creating the image.

If the No Reboot option is set, Amazon EC2 doesn't shut down the instance before creating the image. When this option is used, file system integrity on the created image can't be guaranteed." Besides, we can use AWS EventBridge to invoke Lambda function

[https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API\\_CreateImage.html](https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_CreateImage.html)

**NEW QUESTION 259**

- (Exam Topic 1)

A SysOps administrator creates an Amazon Elastic Kubernetes Service (Amazon EKS) cluster that uses AWS Fargate. The cluster is deployed successfully. The SysOps administrator needs to manage the cluster by using the kubectl command line tool.

Which of the following must be configured on the SysOps administrator's machine so that kubectl can communicate with the cluster API server?

- A. The kubeconfig file
- B. The kube-proxy Amazon EKS add-on
- C. The Fargate profile
- D. The eks-connector.yaml file

**Answer:** A

**Explanation:**

The kubeconfig file is a configuration file used to store cluster authentication information, which is required to make requests to the Amazon EKS cluster API server. The kubeconfig file will need to be configured on the SysOps administrator's machine in order for kubectl to be able to communicate with the cluster API server.

<https://aws.amazon.com/blogs/developer/running-a-kubernetes-job-in-amazon-eks-on-aws-fargate-using-aws-sts/>

**NEW QUESTION 263**

- (Exam Topic 1)

A company is running an application on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The EC2 instances are launched by an Auto Scaling group and are automatically registered in a target group. A SysOps administrator must set up a notification to alert application owners when targets fail health checks.

What should the SysOps administrator do to meet these requirements?

- A. Create an Amazon CloudWatch alarm on the UnHealthyHostCount metri
- B. Configure an action to send an Amazon Simple Notification Service (Amazon SNS) notification when the metric is greater than 0.
- C. Configure an Amazon EC2 Auto Scaling custom lifecycle action to send an Amazon Simple Notification Service (Amazon SNS) notification when an instance is in the Pending:Wait state.
- D. Update the Auto Scaling grou
- E. Configure an activity notification to send an Amazon Simple Notification Service (Amazon SNS) notification for the Unhealthy event type.
- F. Update the ALB health check to send an Amazon Simple Notification Service (Amazon SNS) notification when an instance is unhealthy.

**Answer:** A

#### NEW QUESTION 268

- (Exam Topic 1)

A SysOps administrator is evaluating Amazon Route 53 DNS options to address concerns about high availability for an on-premises website. The website consists of two servers: a primary active server and a secondary passive server. Route 53 should route traffic to the primary server if the associated health check returns 2xx or 3xx HTTP codes. All other traffic should be directed to the secondary passive server. The failover record type, set ID, and routing policy have been set appropriately for both primary and secondary servers. Which next step should be taken to configure Route 53?

- A. Create an A record for each serve
- B. Associate the records with the Route 53 HTTP health check.
- C. Create an A record for each serve
- D. Associate the records with the Route 53 TCP health check.
- E. Create an alias record for each server with evaluate target health set to ye
- F. Associate the records with the Route 53 HTTP health check.
- G. Create an alias record for each server with evaluate target health set to ye
- H. Associate the records with the Route 53 TCP health check.

**Answer:** A

#### NEW QUESTION 273

- (Exam Topic 1)

A company needs to automatically monitor an AWS account for potential unauthorized AWS Management Console logins from multiple geographic locations. Which solution will meet this requirement?

- A. Configure Amazon Cognito to detect any compromised IAM credentials.
- B. Set up Amazon Inspector
- C. Scan and monitor resources for unauthorized logins.
- D. Set up AWS Config
- E. Add the iam-policy-blacklisted-check managed rule to the account.
- F. Configure Amazon GuardDuty to monitor the UnauthorizedAccess:IAMUser/ConsoleLoginSuccess finding.

**Answer:** D

#### NEW QUESTION 275

- (Exam Topic 1)

A company needs to ensure strict adherence to a budget for 25 applications deployed on AWS. Separate teams are responsible for storage, compute, and database costs. A SysOps administrator must implement an automated solution to alert each team when their projected spend will exceed a quarterly amount that has been set by the finance department. The solution cannot add additional compute, storage, or database costs.

- A. Configure AWS Cost and Usage Reports to send a daily report to an Amazon S3 bucket
- B. Create an AWS Lambda function that will evaluate spend by service and notify each team by using Amazon Simple Notification Service (Amazon SNS) notification
- C. Invoke the Lambda function when a report is placed in the S3 bucket
- D. Configure AWS Cost and Usage Reports to send a daily report to an Amazon S3 bucket
- E. Create a rule in Amazon EventBridge (Amazon CloudWatch Events) to evaluate the spend by service and notify each team by using Amazon Simple Queue Service (Amazon SQS) when the cost threshold is exceeded.
- F. Use AWS Budgets to create one cost budget and select each of the services in use. Specify the budget amount defined by the finance department along with the forecasted cost threshold. Enter the appropriate email recipients for the budget.
- G. Use AWS Budgets to create a cost budget for each team, filtering by the services they own
- H. Specify the budget amount defined by the finance department along with a forecasted cost threshold. Enter the appropriate email recipients for each budget.

**Answer:** D

#### NEW QUESTION 277

- (Exam Topic 1)

A company wants to collect data from an application to use for analytics. For the first 90 days, the data will be infrequently accessed but must remain highly available. During this time, the company's analytics team requires access to the data in milliseconds. However, after 90 days, the company must retain the data for the long term at a lower cost. The retrieval time after 90 days must be less than 5 hours. Which solution will meet these requirements MOST cost-effectively?

- A. Store the data in S3 Standard-Infrequent Access (S3 Standard-IA) for the first 90 days
- B. Set up an S3 Lifecycle rule to move the data to S3 Glacier Flexible Retrieval after 90 days.
- C. Store the data in S3 One Zone-Infrequent Access (S3 One Zone-IA) for the first 90 days
- D. Set up an S3 Lifecycle rule to move the data to S3 Glacier Deep Archive after 90 days.
- E. Store the data in S3 Standard for the first 90 days
- F. Set up an S3 Lifecycle rule to move the data to S3 Glacier Flexible Retrieval after 90 days.
- G. Store the data in S3 Standard for the first 90 days
- H. Set up an S3 Lifecycle rule to move the data to S3 Glacier Deep Archive after 90 days.

**Answer:** A

**Explanation:**

Glacier Deep Archive retrieval time more than 5 hours (it's 12 hours), so B&D out. S3 Standard IA is cheaper than S3 Standard.  
<https://aws.amazon.com/tw/s3/pricing/>

**NEW QUESTION 281**

- (Exam Topic 1)

A data storage company provides a service that gives users the ability to upload and download files as needed. The files are stored in Amazon S3 Standard and must be immediately retrievable for 1 year. Users access files frequently during the first 30 days after the files are stored. Users rarely access files after 30 days. The company's SysOps administrator must use S3 Lifecycle policies to implement a solution that maintains object availability and minimizes cost. Which solution will meet these requirements?

- A. Move objects to S3 Glacier after 30 days.
- B. Move objects to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.
- C. Move objects to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.
- D. Move objects to S3 Standard-Infrequent Access (S3 Standard-IA) immediately.

**Answer:** C

**Explanation:**

<https://aws.amazon.com/s3/storage-classes/>

**NEW QUESTION 284**

- (Exam Topic 1)

A SysOps Administrator is managing a web application that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an EC2 Auto Scaling group. The administrator wants to set an alarm for when all target instances associated with the ALB are unhealthy. Which condition should be used with the alarm?

- A. AWS/ApplicationELB HealthyHostCount <= 0
- B. AWS/ApplicationELB UnhealthyHostCount >= 1
- C. AWS/EC2 StatusCheckFailed <= 0
- D. AWS/EC2 StatusCheckFailed >= 1

**Answer:** A

**Explanation:**

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-cloudwatch-metrics.html>

**NEW QUESTION 287**

- (Exam Topic 1)

A company has attached the following policy to an IAM user:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "rds:Describe*",
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": "ec2:*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    },
    {
      "Effect": "Deny",
      "NotAction": [
        "ec2:*",
```

```
{
  "Effect": "Allow",
  "Action": "ec2:*",
  "Resource": "*",
  "Condition": {
    "StringEquals": {
      "ec2:Region": "us-east-1"
    }
  }
},
{
  "Effect": "Deny",
  "NotAction": [
    "ec2:*",
    "s3:GetObject"
  ],
  "Resource": "*"
}
```

Which of the following actions are allowed for the IAM user?

- A. Amazon RDS DescribeDBInstances action in the us-east-1 Region
- B. Amazon S3 Putobject operation in a bucket named testbucket
- C. Amazon EC2 Describe Instances action in the us-east-1 Region
- D. Amazon EC2 AttachNetworkinterface action in the eu-west-1 Region

**Answer: C**

#### NEW QUESTION 288

- (Exam Topic 1)

A company hosts its website in the us-east-1 Region. The company is preparing to deploy its website into the eu-central-1 Region. Website visitors who are located in Europe should access the website that is hosted in eu-central-1. All other visitors access the website that is hosted in us-east-1. The company uses Amazon Route 53 to manage the website's DNS records.

Which routing policy should a SysOps administrator apply to the Route 53 record set to meet these requirements?

- A. Geolocation routing policy
- B. Geoproximity routing policy
- C. Latency routing policy
- D. Multivalue answer routing policy

**Answer: A**

#### Explanation:

geolocation "Geolocation routing lets you choose the resources that serve your traffic based on the geographic location of your users, meaning the location that DNS queries originate from. For example, you might want all queries from Europe to be routed to an ELB load balancer in the Frankfurt region." Could be confused with geoproximity - "Geoproximity routing lets Amazon Route 53 route traffic to your resources based on the geographic location of your users and your resources. You can also optionally choose to route more traffic or less to a given resource by specifying a value, known as a bias. A bias expands or shrinks the size of the geographic region from which traffic is routed to a resource" the use case is not needed as per question.  
<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html>

#### NEW QUESTION 291

- (Exam Topic 1)

A recent organizational audit uncovered an existing Amazon RDS database that is not currently configured for high availability. Given the critical nature of this database, it must be configured for high availability as soon as possible. How can this requirement be met?

- A. Switch to an active/passive database pair using the create-db-instance-read-replica with the --availability-zone flag.
- B. Specify high availability when creating a new RDS instance, and live-migrate the data.
- C. Modify the RDS instance using the console to include the Multi-AZ option.
- D. Use the modify-db-instance command with the --na flag.

**Answer: C**

#### NEW QUESTION 292

- (Exam Topic 1)

A company maintains a large set of sensitive data in an Amazon S3 bucket. The company's security team asks a SysOps administrator to help verify that all current objects in the S3 bucket are encrypted.

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

- A. Create a script that runs against the S3 bucket and outputs the status of each object.
- B. Create an S3 Inventory configuration on the S3 bucket. Include the appropriate status fields.

- C. Provide the security team with an IAM user that has read access to the S3 bucket.
- D. Use the AWS CLI to output a list of all objects in the S3 bucket.

**Answer:** D

#### NEW QUESTION 296

- (Exam Topic 1)

A company wants to be alerted through email when IAM CreateUser API calls are made within its AWS account. Which combination of actions should a SysOps administrator take to meet this requirement? (Choose two.)

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule with AWS CloudTrail as the event source and IAM CreateUser as the specific API call for the event pattern.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule with Amazon CloudSearch as the event source and IAM CreateUser as the specific API call for the event pattern.
- C. Create an Amazon EventBridge (Amazon CloudWatch Events) rule with AWS IAM Access Analyzer as the event source and IAM CreateUser as the specific API call for the event pattern.
- D. Use an Amazon Simple Notification Service (Amazon SNS) topic as an event target with an email subscription.
- E. Use an Amazon Simple Email Service (Amazon SES) notification as an event target with an email subscription.

**Answer:** AD

#### Explanation:

<https://aws.amazon.com/blogs/security/how-to-receive-alerts-when-your-iam-configuration-changes/>

#### NEW QUESTION 297

- (Exam Topic 1)

A SysOps administrator created an AWS Cloud Formation template that provisions Amazon EC2 instances, an Elastic Load Balancer (ELB), and an Amazon RDS DB instance. During stack creation, the creation of the EC2 instances and the creation of the ELB are successful. However, the creation of the DB instance fails. What is the default behavior of CloudFormation in this scenario?

- A. CloudFormation will roll back the stack and delete the stack.
- B. CloudFormation will roll back the stack but will not delete the stack.
- C. CloudFormation will prompt the user to roll back the stack or continue.
- D. CloudFormation will successfully complete the stack but will report a failed status for the DB instance.

**Answer:** C

#### NEW QUESTION 301

- (Exam Topic 1)

A company uses an Amazon Elastic File System (Amazon EFS) file system to share files across many Linux Amazon EC2 instances. A SysOps administrator notices that the file system's PercentIOLimit metric is consistently at 100% for 15 minutes or longer. The SysOps administrator also notices that the application that reads and writes to that file system is performing poorly. The application requires high throughput and IOPS while accessing the file system. What should the SysOps administrator do to remediate the consistently high PercentIOLimit metric?

- A. Create a new EFS file system that uses Max I/O performance mode
- B. Use AWS DataSync to migrate data to the new EFS file system.
- C. Create an EFS lifecycle policy to transition future files to the Infrequent Access (IA) storage class to improve performance
- D. Use AWS DataSync to migrate existing data to IA storage.
- E. Modify the existing EFS file system and activate Max I/O performance mode.
- F. Modify the existing EFS file system and activate Provisioned Throughput mode.

**Answer:** A

#### Explanation:

To support a wide variety of cloud storage workloads, Amazon EFS offers two performance modes, General Purpose mode and Max I/O mode. You choose a file system's performance mode when you create it, and it cannot be changed. If the PercentIOLimit percentage returned was at or near 100 percent for a significant amount of time during the test, your application should use the Max I/O performance mode. <https://docs.aws.amazon.com/efs/latest/ug/performance.html>

#### NEW QUESTION 306

- (Exam Topic 1)

A SysOps administrator is responsible for a company's security groups. The company wants to maintain a documented trail of any changes that are made to the security groups. The SysOps administrator must receive notification whenever the security groups change. Which solution will meet these requirements?

- A. Set up Amazon Detective to record security group change
- B. Specify an Amazon CloudWatch Logs log group to store configuration history log
- C. Create an Amazon Simple Queue Service (Amazon SQS) queue for notifications about configuration change
- D. Subscribe the SysOps administrator's email address to the SQS queue.
- E. Set up AWS Systems Manager Change Manager to record security group change
- F. Specify an Amazon CloudWatch Logs log group to store configuration history log
- G. Create an Amazon Simple Notification Service (Amazon SNS) topic for notifications about configuration change
- H. Subscribe the SysOps administrator's email address to the SNS topic.
- I. Set up AWS Config to record security group change
- J. Specify an Amazon S3 bucket as the location for configuration snapshots and history file
- K. Create an Amazon Simple Notification Service (Amazon SNS) topic for notifications about configuration change
- L. Subscribe the SysOps administrator's email address to the SNS topic.
- M. Set up Amazon Detective to record security group change
- N. Specify an Amazon S3 bucket as the location for configuration snapshots and history file
- O. Create an Amazon Simple Notification Service (Amazon SNS) topic for notifications about configuration change

P. Subscribe the SysOps administrator's email address to the SNS topic.

**Answer:** D

#### NEW QUESTION 309

- (Exam Topic 1)

A SysOps administrator is reviewing VPC Flow Logs to troubleshoot connectivity issues in a VPC. While reviewing the logs the SysOps administrator notices that rejected traffic is not listed.

What should the SysOps administrator do to ensure that all traffic is logged?

- A. Create a new flow log that has a filter setting to capture all traffic
- B. Create a new flow log set the log record format to a custom format Select the proper fields to include in the log
- C. Edit the existing flow log Change the filter setting to capture all traffic
- D. Edit the existing flow log
- E. Set the log record format to a custom format Select the proper fields to include in the log

**Answer:** A

#### NEW QUESTION 314

- (Exam Topic 1)

An AWS Lambda function is intermittently failing several times a day A SysOps administrator must find out how often this error has 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 Elasticsearch Service (Amazon ES) to stream the Amazon CloudWatch logs for the Lambda function

**Answer:** C

#### NEW QUESTION 318

- (Exam Topic 1)

A company is running a serverless application on AWS Lambda The application stores data in an Amazon RDS for MySQL DB instance Usage has steadily increased and recently there have been numerous "too many connections" errors when the Lambda function attempts to connect to the database The company already has configured the database to use the maximum max\_connections value that is possible What should a SysOps administrator do to resolve these errors'?

- A. Create a read replica of the database Use Amazon Route 53 to create a weighted DNS record that contains both databases
- B. Use Amazon RDS Proxy to create a proxy Update the connection string in the Lambda function
- C. Increase the value in the max\_connect\_errors parameter in the parameter group that the database uses
- D. Update the Lambda function's reserved concurrency to a higher value

**Answer:** B

#### Explanation:

<https://aws.amazon.com/blogs/compute/using-amazon-rds-proxy-with-aws-lambda/>

RDS Proxy acts as an intermediary between your application and an RDS database. RDS Proxy establishes and manages the necessary connection pools to your database so that your application creates fewer database connections. Your Lambda functions interact with RDS Proxy instead of your database instance. It handles the connection pooling necessary for scaling many simultaneous connections created by concurrent Lambda functions. This allows your Lambda applications to reuse existing connections, rather than creating new connections for every function invocation.

Check "Database proxy for Amazon RDS" section in the link to see how RDS proxy help Lambda handle huge connections to RDS MySQL

<https://aws.amazon.com/blogs/compute/using-amazon-rds-proxy-with-aws-lambda/>

#### NEW QUESTION 323

- (Exam Topic 1)

A company has a stateful web application that is hosted on Amazon EC2 instances in an Auto Scaling group. The instances run behind an Application Load Balancer (ALB) that has a single target group. The ALB is configured as the origin in an Amazon CloudFront distribution. Users are reporting random logouts from the web application.

Which combination of actions should a SysOps administrator take to resolve this problem? (Select TWO.)

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

**Answer:** BE

#### Explanation:

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/Cookies.html>

You can configure each cache behavior to do one of the following: Forward all cookies to your origin – CloudFront includes all cookies sent by the viewer when it forwards requests to the origin. <https://docs.aws.amazon.com/elasticloadbalancing/latest/application/sticky-sessions.html>

By default, an Application Load Balancer routes each request independently to a registered target based on the chosen load-balancing algorithm.

#### NEW QUESTION 326

- (Exam Topic 1)

A company's SysOps administrator deploys a public Network Load Balancer (NLB) in front of the company's web application. The web application does not use any Elastic IP addresses. Users must access the web application by using the company's domain name. The SysOps administrator needs to configure Amazon

Route 53 to route traffic to the NLB.

Which solution will meet these requirements MOST cost-effectively?

- A. Create a Route 53 AAAA record for the NLB.
- B. Create a Route 53 alias record for the NLB.
- C. Create a Route 53 CAA record for the NLB.
- D. Create a Route 53 CNAME record for the NLB.

**Answer:** B

#### NEW QUESTION 330

- (Exam Topic 1)

A company has an initiative to reduce costs associated with Amazon EC2 and AWS Lambda. Which action should a SysOps administrator take to meet these requirements?

- A. Analyze the AWS Cost and Usage Report by using Amazon Athena to identify cost savings.
- B. Create an AWS Budgets alert to alarm when account spend reaches 80% of the budget.
- C. Purchase Reserved Instances through the Amazon EC2 console.
- D. Use AWS Compute Optimizer and take action on the provided recommendations.

**Answer:** D

#### NEW QUESTION 334

- (Exam Topic 1)

A new application runs on Amazon EC2 instances and accesses data in an Amazon RDS database instance. When fully deployed in production, the application fails. The database can be queried from a console on a bastion host. When looking at the web server logs, the following error is repeated multiple times:

\*\*\* Error Establishing a Database Connection

Which of the following may be causes of the connectivity problems? (Select TWO.)

- A. The security group for the database does not have the appropriate egress rule from the database to the web server.
- B. The certificate used by the web server is not trusted by the RDS instance.
- C. The security group for the database does not have the appropriate ingress rule from the web server to the database.
- D. The port used by the application developer does not match the port specified in the RDS configuration.
- E. The database is still being created and is not available for connectivity.

**Answer:** CD

#### NEW QUESTION 339

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