

## AWS-SysOps Dumps

### Amazon AWS Certified SysOps Administrator - Associate

<https://www.certleader.com/AWS-SysOps-dumps.html>



**NEW QUESTION 1**

- (Exam Topic 2)

A webpage is stored in an Amazon S3 bucket behind an Application Load Balancer (ALB). Configure the S3 bucket to serve a static error page in the event of a failure at the primary site.

- \* 1. Use the us-east-2 Region for all resources.
- \* 2. Unless specified below, use the default configuration settings.
- \* 3. There is an existing hosted zone named lab-751906329398-26023898.com that contains an A record with a simple routing policy that routes traffic to an existing ALB.
- \* 4. Configure the existing S3 bucket named lab-751906329398-26023898.com as a static hosted website using the object named index.html as the index document
- \* 5. For the index.html object, configure the S3 ACL to allow for public read access. Ensure public access to the S3 bucket is allowed.
- \* 6. In Amazon Route 53, change the A record for domain lab-751906329398-26023898.com to a primary record for a failover routing policy. Configure the record so that it evaluates the health of the ALB to determine failover.
- \* 7. Create a new secondary failover alias record for the domain lab-751906329398-26023898.com that routes traffic to the existing S3 bucket.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Here are the steps to configure an Amazon S3 bucket to serve a static error page in the event of a failure at the primary site:

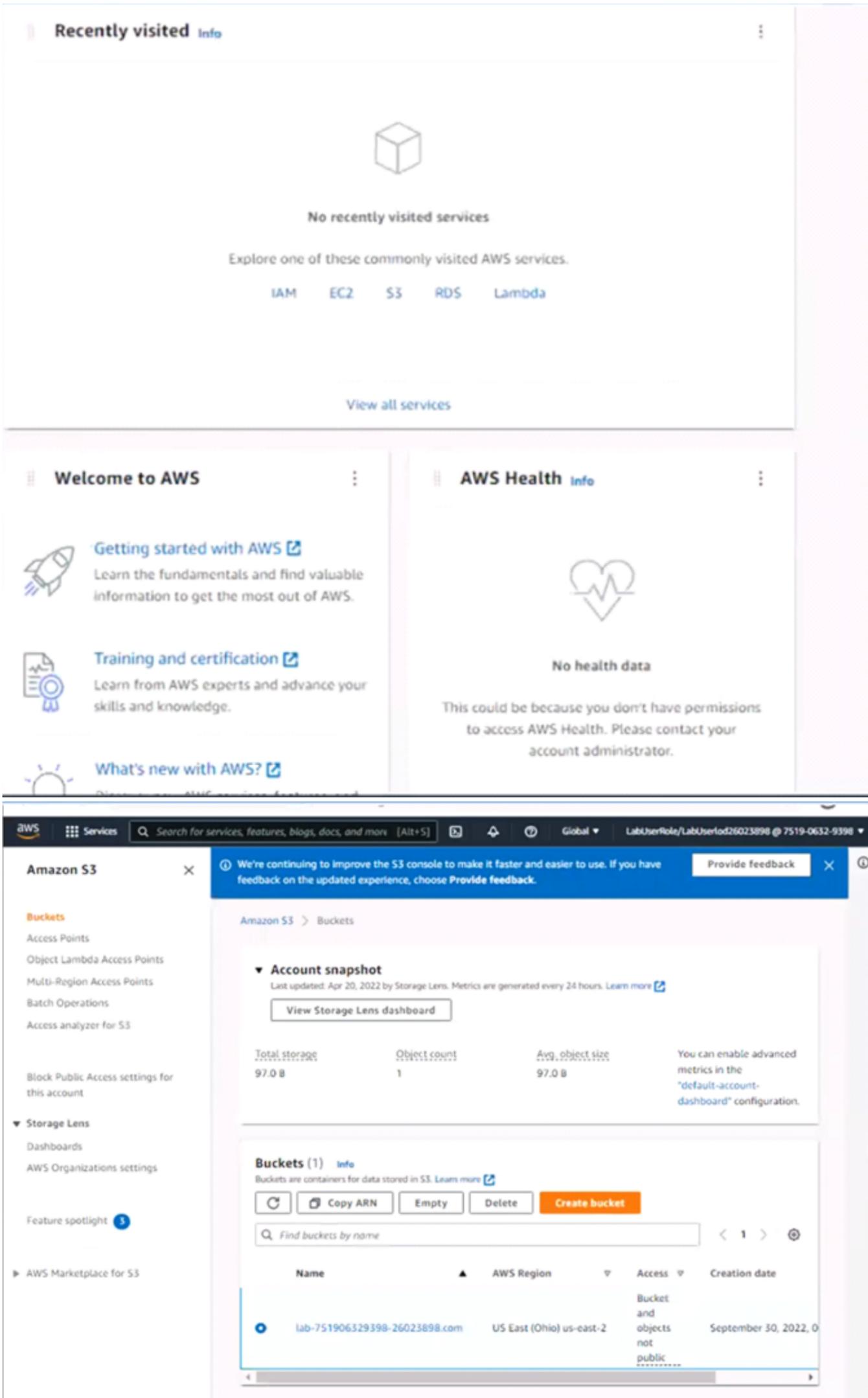
- Log in to the AWS Management Console and navigate to the S3 service in the us-east-2 Region.
- Find the existing S3 bucket named lab-751906329398-26023898.com and click on it.
- In the "Properties" tab, click on "Static website hosting" and select "Use this bucket to host a website".
- In "Index Document" field, enter the name of the object that you want to use as the index document, in this case, "index.html"
- In the "Permissions" tab, click on "Block Public Access", and make sure that "Block all public access" is turned OFF.
- Click on "Bucket Policy" and add the following policy to allow public read access:

```
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "PublicReadGetObject", "Effect": "Allow",
"Principal": "*", "Action": "s3:GetObject",
"Resource": "arn:aws:s3:::lab-751906329398-26023898.com/*"
}
]
}
```

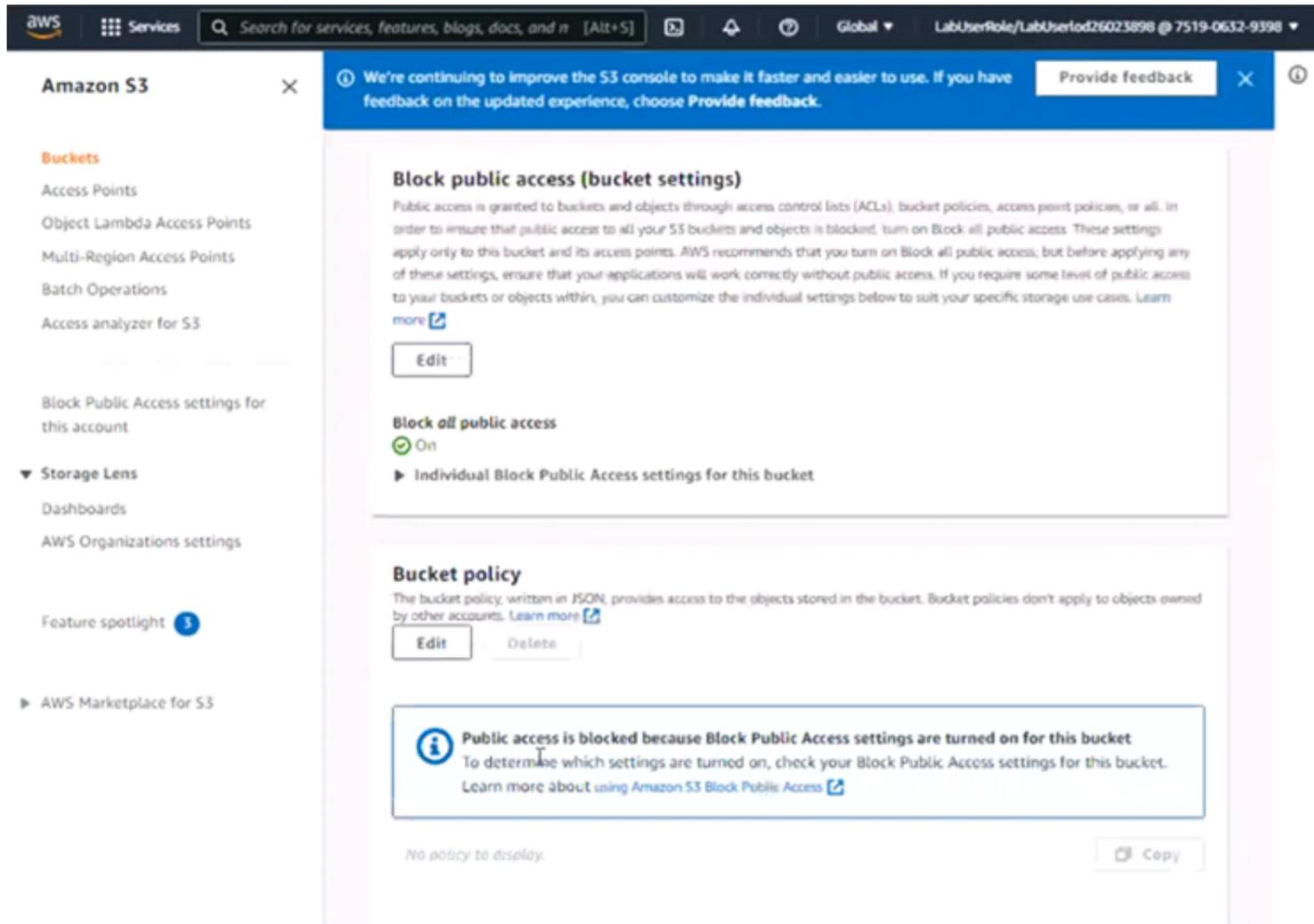
- Now navigate to the Amazon Route 53 service, and find the existing hosted zone named lab-751906329398-26023898.com.
- Click on the "A record" and update the routing policy to "Primary - Failover" and add the existing ALB as the primary record.
- Click on "Create Record" button and create a new secondary failover alias record for the domain lab-751906329398-26023898.com that routes traffic to the existing S3 bucket.
- Now, when the primary site (ALB) goes down, traffic will be automatically routed to the S3 bucket serving the static error page.

Note:

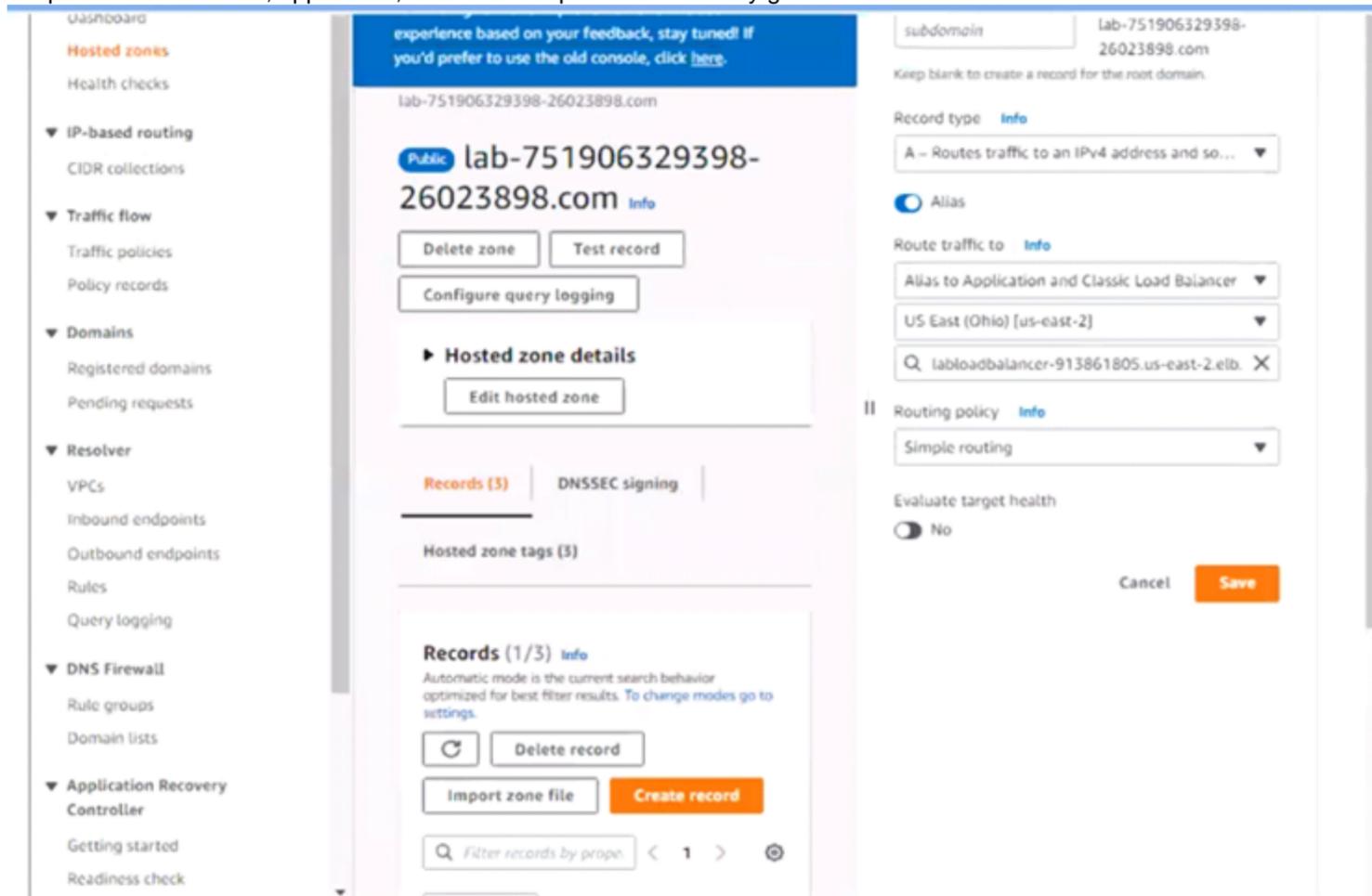
- You can use CloudWatch to monitor the health of your ALB.
- You can use Amazon S3 to host a static website.
- You can use Amazon Route 53 for routing traffic to different resources based on health checks.
- You can refer to the AWS documentation for more information on how to configure and use these services:
- <https://aws.amazon.com/s3/>
- <https://aws.amazon.com/route53/>
- <https://aws.amazon.com/cloudwatch/>



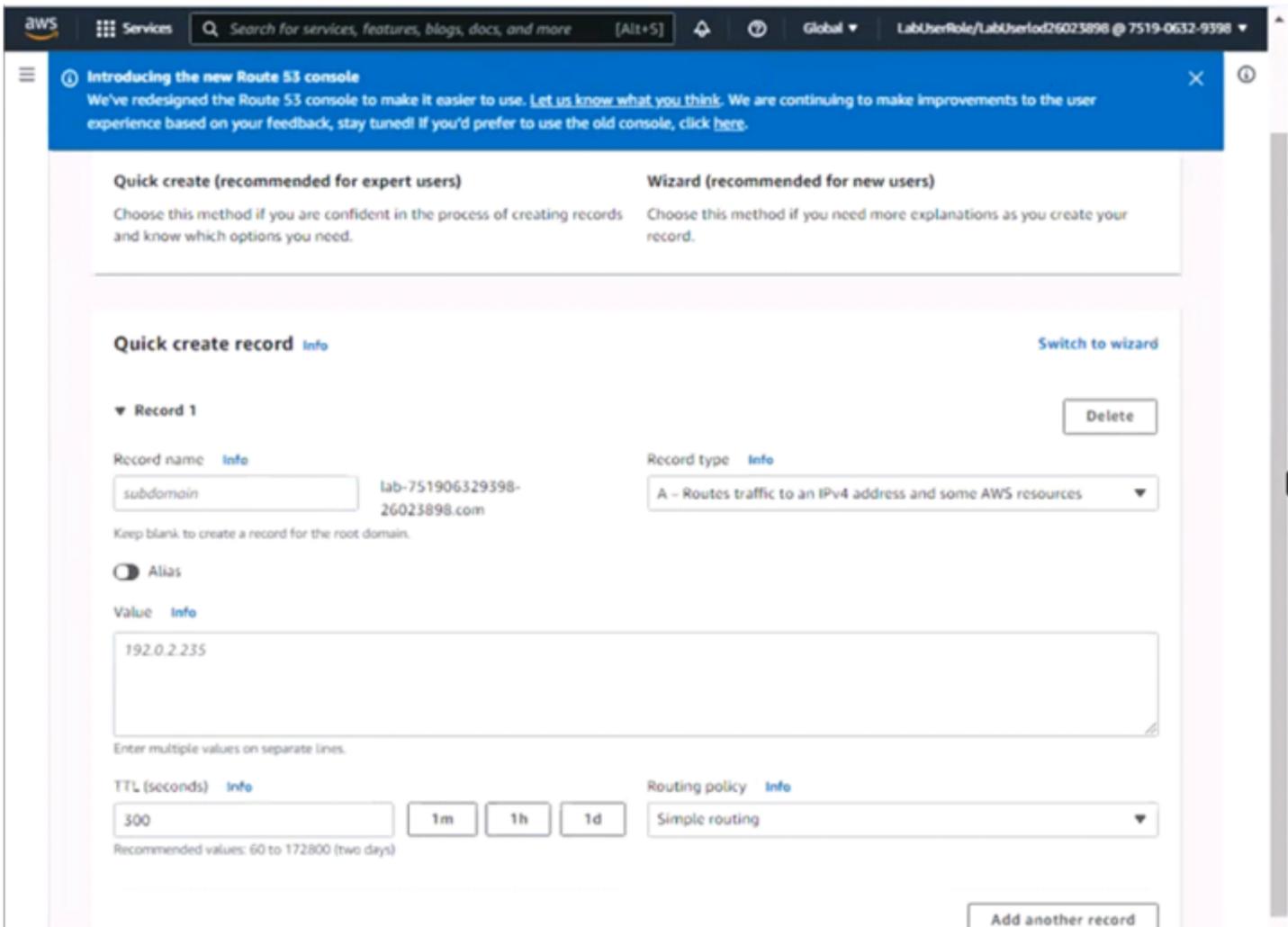
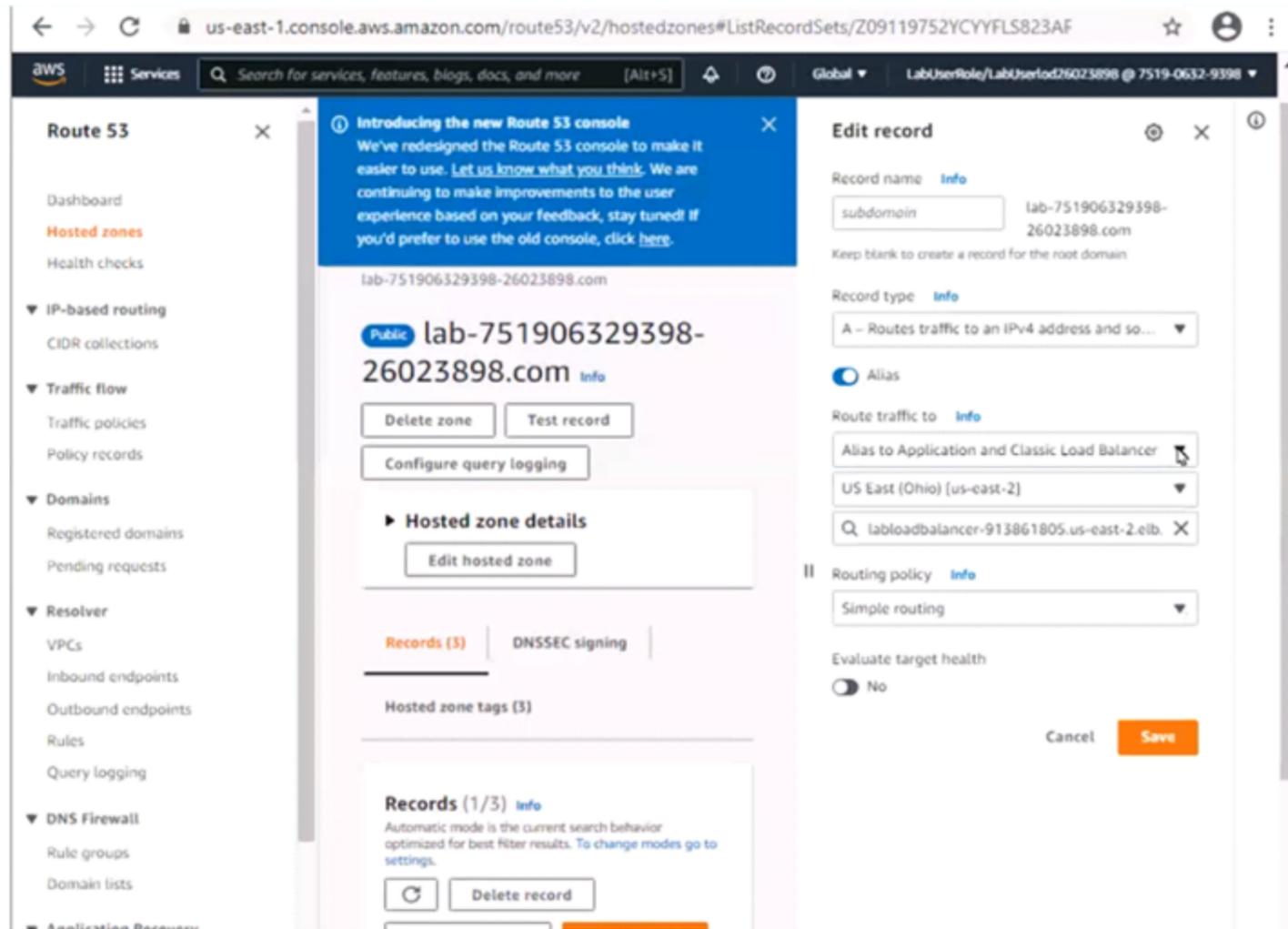
Graphical user interface, text, application Description automatically generated



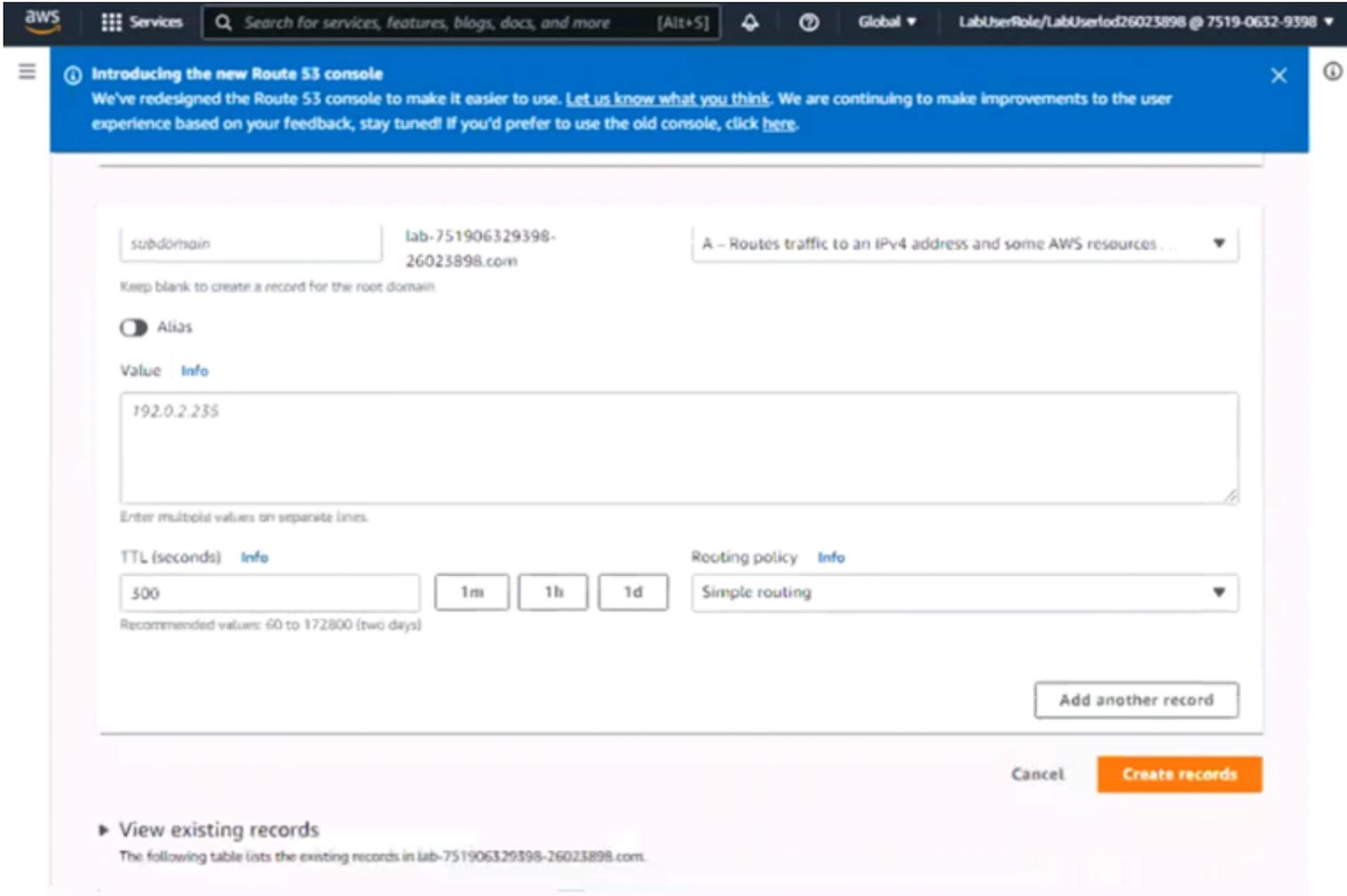
Graphical user interface, application, Teams Description automatically generated



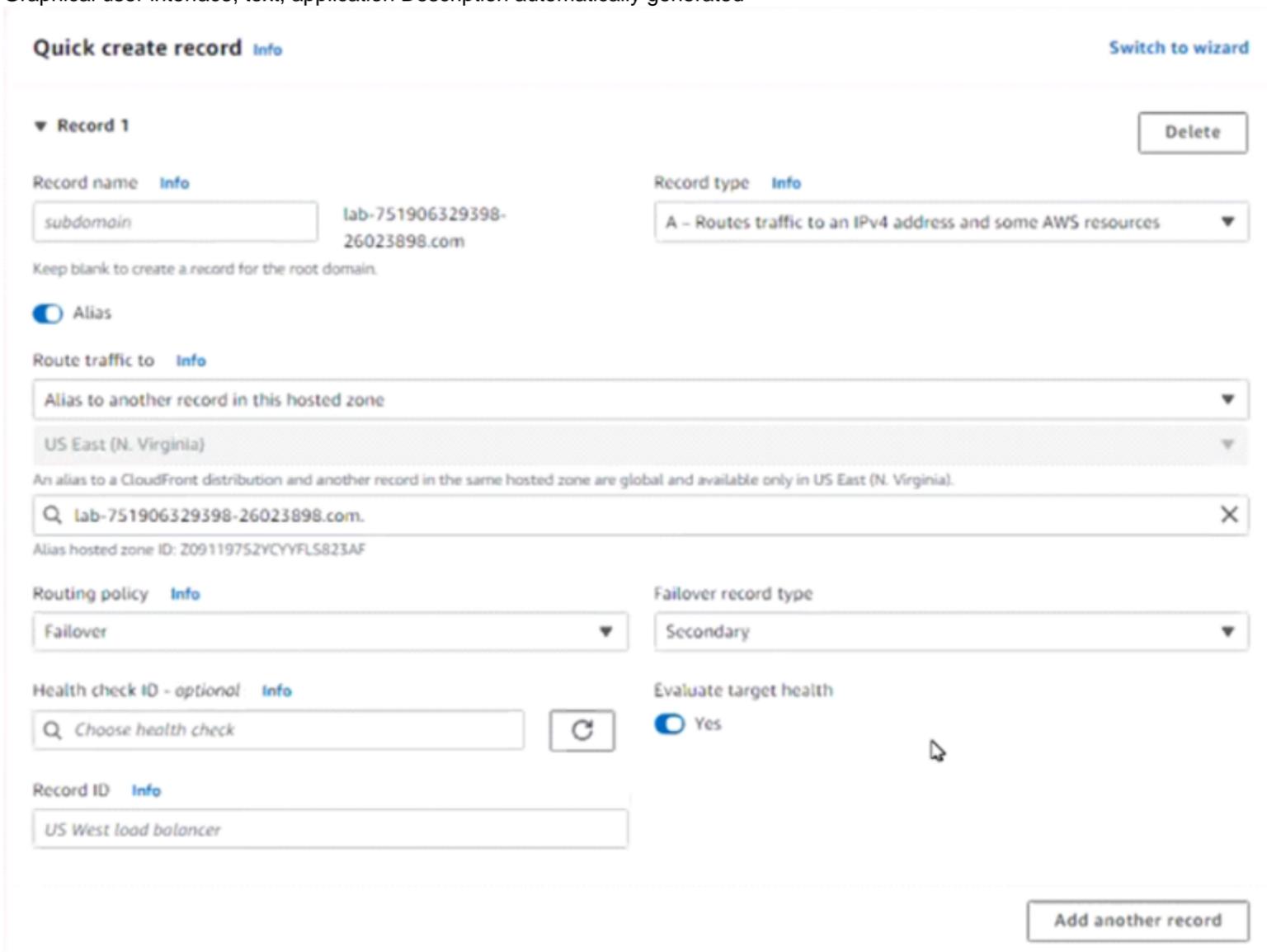
Graphical user interface, text, application Description automatically generated



Graphical user interface, text, application, email Description automatically generated



Graphical user interface, text, application Description automatically generated



The screenshot shows the AWS Route 53 console interface for creating a record. The breadcrumb navigation is 'Route 53 > Hosted zones > lab-751906329398-26023898.com > Create record'. The 'Record creation method' section offers 'Quick create (recommended for expert users)' and 'Wizard (recommended for new users)'. The 'Quick create record' wizard is active, showing 'Record 1' with a 'Delete' button. The record name is 'subdomain' and the record type is 'A - Routes traffic to an IPv4 address and some AWS resources'. The routing policy is 'Failover' and the failover record type is 'Secondary'. The health check ID is 'f34f14a2-fe96-4fe0-8793-6e26cec223aa' and the 'Evaluate target health' option is checked. The record ID is 'sec'. An 'Add another record' button is visible at the bottom right.

**NEW QUESTION 2**

- (Exam Topic 1)

A company hosts an application on an Amazon EC2 instance in a single AWS Region. The application requires support for non-HTTP TCP traffic and HTTP traffic. The company wants to deliver content with low latency by leveraging the AWS network. The company also wants to implement an Auto Scaling group with an Elastic Load Balancer.

How should a SysOps administrator meet these requirements?

- A. Create an Auto Scaling group with an Application Load Balancer (ALB). Add an Amazon CloudFront distribution with the ALB as the origin.
- B. Create an Auto Scaling group with an Application Load Balancer (ALB). Add an accelerator with AWS Global Accelerator with the ALB as an endpoint.
- C. Create an Auto Scaling group with a Network Load Balancer (NLB). Add an Amazon CloudFront distribution with the NLB as the origin.
- D. Create an Auto Scaling group with a Network Load Balancer (NLB). Add an accelerator with AWS Global Accelerator with the NLB as an endpoint.

**Answer: D**

**Explanation:**

AWS Global Accelerator and Amazon CloudFront are separate services that use the AWS global network and its edge locations around the world. CloudFront improves performance for both cacheable content (such as images and videos) and dynamic content (such as API acceleration and dynamic site delivery). Global Accelerator improves performance for a wide range of applications over TCP or UDP by proxying packets at the edge to applications running in one or more AWS Regions. Global Accelerator is a good fit for non-HTTP use cases, such as gaming (UDP), IoT (MQTT), or Voice over IP, as well as for HTTP use cases that specifically require static IP addresses or deterministic, fast regional failover. Both services integrate with AWS Shield for DDoS protection.  
<https://medium.com/awesome-cloud/aws-difference-between-application-load-balancer-and-network-load-balancer> [https://aws.amazon.com/global-accelerator/faqs/?nc1=h\\_ls](https://aws.amazon.com/global-accelerator/faqs/?nc1=h_ls)

**NEW QUESTION 3**

- (Exam Topic 1)

A SysOps administrator is using Amazon EC2 instances to host an application. The SysOps administrator needs to grant permissions for the application to access an Amazon DynamoDB table.

Which solution will meet this requirement?

- A. Create access keys to access the DynamoDB table.
- B. Assign the access keys to the EC2 instance profile.
- C. Create an EC2 key pair to access the DynamoDB table.
- D. Assign the key pair to the EC2 instance profile.
- E. Create an IAM user to access the DynamoDB table.
- F. Assign the IAM user to the EC2 instance profile.
- G. Create an IAM role to access the DynamoDB table.
- H. Assign the IAM role to the EC2 instance profile.

**Answer:** D

**NEW QUESTION 4**

- (Exam Topic 1)

An Amazon S3 Inventory report reveals that more than 1 million objects in an S3 bucket are not encrypted. These objects must be encrypted, and all future objects must be encrypted at the time they are written.

Which combination of actions should a SysOps administrator take to meet these requirements? (Select TWO)

- A. Create an AWS Config rule that runs evaluations against configuration changes to the S3 bucket. When an unencrypted object is found, run an AWS Systems Manager Automation document to encrypt the object in place.
- B. Edit the properties of the S3 bucket to enable default server-side encryption.
- C. Filter the S3 Inventory report by using S3 Select to find all objects that are not encrypted. Create an S3 Batch Operations job to copy each object in place with encryption enabled.
- D. Filter the S3 Inventory report by using S3 Select to find all objects that are not encrypted. Send each object name as a message to an Amazon Simple Queue Service (Amazon SQS) queue. Use the SQS queue to invoke an AWS Lambda function to tag each object with a key of "Encryption" and a value of "SSE-KMS".
- E. Use S3 Event Notifications to invoke an AWS Lambda function on all new object-created events for the S3 bucket. Configure the Lambda function to check whether the object is encrypted and to run an AWS Systems Manager Automation document to encrypt the object in place when an unencrypted object is found.

**Answer:** BC

**Explanation:**

<https://aws.amazon.com/blogs/storage/encrypting-objects-with-amazon-s3-batch-operations/>

**NEW QUESTION 5**

- (Exam Topic 1)

A SysOps administrator needs to give users the ability to upload objects to an Amazon S3 bucket. The SysOps administrator creates a presigned URL and provides the URL to a user, but the user cannot upload an object to the S3 bucket. The presigned URL has not expired, and no bucket policy is applied to the S3 bucket.

Which of the following could be the cause of this problem?

- A. The user has not properly configured the AWS CLI with their access key and secret access key.
- B. The SysOps administrator does not have the necessary permissions to upload the object to the S3 bucket.
- C. The SysOps administrator must apply a bucket policy to the S3 bucket to allow the user to upload the object.
- D. The object already has been uploaded through the use of the presigned URL, so the presigned URL is no longer valid.

**Answer:** B

**NEW QUESTION 6**

- (Exam Topic 1)

A SysOps administrator is deploying an application on 10 Amazon EC2 instances. The application must be highly available. The instances must be placed on distinct underlying hardware.

What should the SysOps administrator do to meet these requirements?

- A. Launch the instances into a cluster placement group in a single AWS Region.
- B. Launch the instances into a partition placement group in multiple AWS Regions.
- C. Launch the instances into a spread placement group in multiple AWS Regions.
- D. Launch the instances into a spread placement group in a single AWS Region.

**Answer:** D

**Explanation:**

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

**NEW QUESTION 7**

- (Exam Topic 1)

A company is deploying a third-party unit testing solution that is delivered as an Amazon EC2 Amazon Machine Image (AMI). All system configuration data is stored in Amazon DynamoDB. The testing results are stored in Amazon S3. A minimum of three EC2 instances are required to operate the product. The company's testing team wants to use an additional three EC2 Instances when the Spot Instance prices are at a certain threshold. A SysOps administrator must implement a highly available solution that provides this functionality. Which solution will meet these requirements with the LEAST operational overhead?

- A. Define an Amazon EC2 Auto Scaling group by using a launch configuration
- B. Use the provided AMI in the launch configuration
- C. Configure three On-Demand Instances and three Spot Instance
- D. Configure a maximum Spot Instance price in the launch configuration.
- E. Define an Amazon EC2 Auto Scaling group by using a launch template
- F. Use the provided AMI in the launch template
- G. Configure three On-Demand Instances and three Spot Instance
- H. Configure a maximum Spot Instance price in the launch template.
- I. Define two Amazon EC2 Auto Scaling groups by using launch configuration
- J. Use the provided AMI in the launch configuration
- K. Configure three On-Demand Instances for one Auto Scaling group
- L. Configure three Spot Instances for the other Auto Scaling group
- M. Configure a maximum Spot Instance price in the launch configuration for the Auto Scaling group that has Spot Instances.
- N. Define two Amazon EC2 Auto Scaling groups by using launch template
- O. Use the provided AMI in the launch template
- P. Configure three On-Demand Instances for one Auto Scaling group
- Q. Configure three Spot Instances for the other Auto Scaling group
- R. Configure a maximum Spot Instance price in the launch template for the Auto Scaling group that has Spot Instances.

**Answer:** A

**Explanation:**

- <https://docs.aws.amazon.com/autoscaling/ec2/userguide/LaunchTemplates.html>
- <https://docs.aws.amazon.com/autoscaling/ec2/userguide/LaunchConfiguration.html>

**NEW QUESTION 8**

- (Exam Topic 1)

A SysOps administrator has created an AWS Service Catalog portfolio and has shared the portfolio with a second AWS account in the company. The second account is controlled by a different administrator.

Which action will the administrator of the second account be able to perform?

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

**Answer:** A

**NEW QUESTION 9**

- (Exam Topic 1)

A company hosts a website on multiple Amazon EC2 instances that run in an Auto Scaling group. Users are reporting slow responses during peak times between 6 PM and 11 PM every weekend. A SysOps administrator must implement a solution to improve performance during these peak times.

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

- A. Create a scheduled Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function to increase the desired capacity before peak times.
- B. Configure a scheduled scaling action with a recurrence option to change the desired capacity before and after peak times.
- C. Create a target tracking scaling policy to add more instances when memory utilization is above 70%.
- D. Configure the cooldown period for the Auto Scaling group to modify desired capacity before and after peak times.

**Answer:** B

**Explanation:**

"Scheduled scaling helps you to set up your own scaling schedule according to predictable load changes. For example, let's say that every week the traffic to your web application starts to increase on Wednesday, remains high on Thursday, and starts to decrease on Friday. You can configure a schedule for Amazon EC2 Auto Scaling to increase capacity on Wednesday and decrease capacity on Friday." [https://docs.aws.amazon.com/autoscaling/ec2/userguide/schedule\\_time.html](https://docs.aws.amazon.com/autoscaling/ec2/userguide/schedule_time.html)

**NEW QUESTION 10**

- (Exam Topic 1)

A company has a memory-intensive application that runs on a fleet of Amazon EC2 instances behind an Elastic Load Balancer (ELB). The instances run in an Auto Scaling group. A SysOps administrator must ensure that the application can scale based on the number of users that connect to the application.

Which solution will meet these requirements?

- A. Create a scaling policy that will scale the application based on the ActiveConnectionCount Amazon CloudWatch metric that is generated from the ELB.
- B. Create a scaling policy that will scale the application based on the mem used Amazon CloudWatch metric that is generated from the ELB.
- C. Create a scheduled scaling policy to increase the number of EC2 instances in the Auto Scaling group to support additional connections.
- D. Create and deploy a script on the ELB to expose the number of connected users as a custom Amazon CloudWatch metric
- E. Create a scaling policy that uses the metric.

**Answer:** D

**Explanation:**

This solution will allow the application to scale based on the number of users that connect to the application. The other solutions (creating a scaling policy that uses

the ActiveConnectionCount Amazon CloudWatch metric generated from the ELB, creating a scaling policy that uses the mem used Amazon CloudWatch metric generated from the ELB, or creating a scheduled scaling policy to increase the number of EC2 instances in the Auto Scaling group to support additional connections) will not meet the requirements, as they do not allow the application to scale based on the number of users that connect to the application.

**NEW QUESTION 10**

- (Exam Topic 1)

A company needs to view a list of security groups that are open to the internet on port 3389. What should a SysOps administrator do to meet this requirement?

- A. Configure Amazon GuardDuty to scan security groups and report unrestricted access on port 3389.
- B. Configure a service control policy (SCP) to identify security groups that allow unrestricted access on port 3389
- C. Use AWS Identity and Access Management Access Analyzer to find any instances that have unrestricted access on port 3389.
- D. Use AWS Trusted Advisor to find security groups that allow unrestricted access on port 3389.

**Answer:** D

**NEW QUESTION 12**

- (Exam Topic 1)

A SysOps administrator developed a Python script that uses the AWS SDK to conduct several maintenance tasks. The script needs to run automatically every night.

What is the MOST operationally efficient solution that meets this requirement?

- A. Convert the Python script to an AWS Lambda (unctio
- B. Use an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke the function every night.
- C. Convert the Python script to an AWS Lambda functio
- D. Use AWS CloudTrail to invoke the function every night.
- E. Deploy the Python script to an Amazon EC2 Instanc
- F. Use Amazon EventBridge (Amazon CloudWatch Events) to schedule the instance to start and stop every night.
- G. Deploy the Python script to an Amazon EC2 instanc
- H. Use AWS Systems Manager to schedule the instance to start and stop every night.

**Answer:** A

**NEW QUESTION 14**

- (Exam Topic 1)

A SysOps administrator is tasked with deploying a company's infrastructure as code. The SysOps administrator want to write a single template that can be reused for multiple environments.

How should the SysOps administrator use AWS CloudFormation to create a solution?

- A. Use Amazon EC2 user data in a CloudFormation template
- B. Use nested stacks to provision resources
- C. Use parameters in a CloudFormation template
- D. Use stack policies to provision resources

**Answer:** C

**Explanation:**

Reuse templates to replicate stacks in multiple environments After you have your stacks and resources set up, you can reuse your templates to replicate your infrastructure in multiple environments. For example, you can create environments for development, testing, and production so that you can test changes before implementing them into production. To make templates reusable, use the parameters, mappings, and conditions sections so that you can customize your stacks when you create them. For example, for your development environments, you can specify a lower-cost instance type compared to your production environment, but all other configurations and settings remain the same. <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/best-practices.html#reuse>

**NEW QUESTION 19**

- (Exam Topic 1)

A company has an application that is deployed 10 two AWS Regions in an active-passive configuration. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB) in each Region. The instances are in an Amazon EC2 Auto Scaling group in each Region. The application uses an Amazon Route 53 hosted zone (or DNS. A SysOps administrator needs to configure automatic failover to the secondary Region.

What should the SysOps administrator do to meet these requirements?

- A. Configure Route 53 alias records that point to each AL
- B. Choose a failover routing polic
- C. Set Evaluate Target Health to Yes.
- D. Configure CNAME records that point to each AL
- E. Choose a failover routing polic
- F. Set Evaluate Target Health to Yes.
- G. Configure Elastic Load Balancing (ELB) health checks for the Auto Scaling grou
- H. Add a target group to the ALB in the primary Regio
- I. Include the EC2 instances in the secondary Region astargets.
- J. Configure EC2 health checks for the Auto Scaling grou
- K. Add a target group to the ALB in the primary Regio
- L. Include the EC2 instances in the secondary Region as targets.

**Answer:** A

**NEW QUESTION 21**

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer: B**

#### NEW QUESTION 24

- (Exam Topic 1)

A company has an organization in AWS Organizations. The company uses shared VPCs to provide networking resources across accounts A SysOps administrator has been able to successfully launch and manage Amazon EC2 instances in a participant account However the SysOps administrator is now receiving an InstanceLimitExceeded error when the SysOps administrator tries to launch a new EC2 instance What should the SysOps administrator do to resolve this error?

- A. Request an instance quota increase from the account that owns the VPC
- B. Launch additional EC2 instances in a different AWS Region
- C. Request an instance quota increase from the participant account
- D. Launch additional EC2 instances by using a different Amazon Machine image (AMI)

**Answer: A**

#### NEW QUESTION 28

- (Exam Topic 1)

A company has an internal web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A SysOps administrator must make the application highly available. Which action should the SysOps administrator take to meet this requirement?

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

**Answer: C**

#### Explanation:

"An Auto Scaling group can contain EC2 instances in one or more Availability Zones within the same Region. However, Auto Scaling groups cannot span multiple Regions". As stated in <https://docs.aws.amazon.com/autoscaling/ec2/userguide/auto-scaling-benefits.htm>

#### NEW QUESTION 30

- (Exam Topic 1)

A company hosts an online shopping portal in the AWS Cloud. The portal provides HTTPS security by using a TLS certificate on an Elastic Load Balancer (ELB). Recently, the portal suffered an outage because the TLS certificate expired. A SysOps administrator must create a solution to automatically renew certificates to avoid this issue in the future.

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

- A. Request a public certificate by using AWS Certificate Manager (ACM). Associate the certificate from ACM with the ELB
- B. Write a scheduled AWS Lambda function to renew the certificate every 18 months.
- C. Request a public certificate by using AWS Certificate Manager (ACM). Associate the certificate from ACM with the ELB
- D. ACM will automatically manage the renewal of the certificate.
- E. Register a certificate with a third-party certificate authority (CA). Import this certificate into AWS Certificate Manager (ACM). Associate the certificate from ACM with the ELB
- F. ACM will automatically manage the renewal of the certificate.
- G. Register a certificate with a third-party certificate authority (CA). Configure the ELB to import the certificate directly from the CA
- H. Set the certificate refresh cycle on the ELB to refresh when the certificate is within 3 months of the expiration date.

**Answer: B**

#### Explanation:

"A certificate is eligible for automatic renewal subject to the following considerations: ELIGIBLE if associated with another AWS service, such as Elastic Load Balancing or CloudFront. ELIGIBLE if exported since being issued or last renewed. ELIGIBLE if it is a private certificate issued by calling the ACM RequestCertificate API and then exported or associated with another AWS service. ELIGIBLE if it is a private certificate issued through the management console and then exported or associated with another AWS service." <https://docs.aws.amazon.com/acm/latest/userguide/managed-renewal.html>

#### NEW QUESTION 34

- (Exam Topic 1)

A SysOps administrator is notified that an Amazon EC2 instance has stopped responding The AWS Management Console indicates that the system status checks are failing What should the administrator do first to resolve this issue?

- A. Reboot the EC2 instance so it can be launched on a new host
- B. Stop and then start the EC2 instance so that it can be launched on a new host
- C. Terminate the EC2 instance and relaunch it
- D. View the AWS CloudTrail log to investigate what changed on the EC2 instance

**Answer:** B

**Explanation:**

<https://aws.amazon.com/premiumsupport/knowledge-center/ec2-windows-system-status-check-fail/>

**NEW QUESTION 39**

- (Exam Topic 1)

A company's AWS Lambda function is experiencing performance issues. The Lambda function performs many CPU-intensive operations. The Lambda function is not running fast enough and is creating bottlenecks in the system.

What should a SysOps administrator do to resolve this issue?

- A. In the CPU launch options for the Lambda function, activate hyperthreading.
- B. Turn off the AWS managed encryption.
- C. Increase the amount of memory for the Lambda function.
- D. Load the required code into a custom layer.

**Answer:** C

**Explanation:**

Increasing the amount of memory for the Lambda function will help to improve the performance of the function. This is because the Lambda function is CPU-intensive and increasing the memory will give it access to more CPU resources and help it run faster. The other options (activating hyperthreading in the CPU launch options for the Lambda function, turning off the AWS managed encryption, and loading the required code into a custom layer) will not help to improve the performance of the Lambda function and are not the correct solutions for this issue.

<https://docs.aws.amazon.com/lambda/latest/dg/configuration-function-common.html#configuration-memory-con>

**NEW QUESTION 41**

- (Exam Topic 1)

A company is managing many accounts by using a single organization in AWS Organizations. The organization has all features enabled. The company wants to turn on AWS Config in all the accounts of the organization and in all AWS Regions.

What should a SysOps administrator do to meet these requirements in the MOST operationally efficient way?

- A. Use AVVS CloudFormation StackSets to deploy stack instances that turn on AWS Config in all accounts and in all Regions.
- B. Use AWS CloudFormation StackSets to deploy stack policies that turn on AWS Config in all accounts and in all Regions.
- C. Use service control policies (SCPs) to configure AWS Config in all accounts and in all Regions.
- D. Create a script that uses the AWS CLI to turn on AWS Config in all accounts in the organization.
- E. Run the script from the organization's management account.

**Answer:** C

**NEW QUESTION 46**

- (Exam Topic 1)

A company recently migrated its application to a VPC on AWS. An AWS Site-to-Site VPN connection connects the company's on-premises network to the VPC. The application retrieves customer data from another system that resides on premises. The application uses an on-premises DNS server to resolve domain records. After the migration, the application is not able to connect to the customer data because of name resolution errors.

Which solution will give the application the ability to resolve the internal domain names?

- A. Launch EC2 instances in the VPC
- B. On the EC2 instances, deploy a custom DNS forwarder that forwards all DNS requests to the on-premises DNS server
- C. Create an Amazon Route 53 private hosted zone that uses the EC2 instances for name servers.
- D. Create an Amazon Route 53 Resolver outbound endpoint
- E. Configure the outbound endpoint to forward DNS queries against the on-premises domain to the on-premises DNS server.
- F. Set up two AWS Direct Connect connections between the AWS environment and the on-premises network
- G. Set up a link aggregation group (LAG) that includes the two connections
- H. Change the VPC resolver address to point to the on-premises DNS server.
- I. Create an Amazon Route 53 public hosted zone for the on-premises domain
- J. Configure the network ACLs to forward DNS requests against the on-premises domain to the Route 53 public hosted zone.

**Answer:** B

**Explanation:**

[https://docs.aws.amazon.com/zh\\_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html](https://docs.aws.amazon.com/zh_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html)

**NEW QUESTION 49**

- (Exam Topic 1)

A company runs an application on an Amazon EC2 instance. A SysOps administrator creates an Auto Scaling group and an Application Load Balancer (ALB) to handle an increase in demand. However, the EC2 instances are failing the health check.

What should the SysOps administrator do to troubleshoot this issue?

- A. Verify that the Auto Scaling group is configured to use all AWS Regions.
- B. Verify that the application is running on the protocol and the port that the listener is expecting.
- C. Verify the listener priority in the ALB. Change the priority if necessary.
- D. Verify the maximum number of instances in the Auto Scaling group. Change the number if necessary.

**Answer:** B

**NEW QUESTION 54**

- (Exam Topic 1)

A company is expanding its fleet of Amazon EC2 instances before an expected increase of traffic. When a SysOps administrator attempts to add more instances,

an InstanceLimitExceeded error is returned.  
What should the SysOps administrator do to resolve this error?

- A. Add an additional CIDR block to the VPC.
- B. Launch the EC2 instances in a different Availability Zone.
- C. Launch new EC2 instances in another VPC.
- D. Use Service Quotas to request an EC2 quota increase.

**Answer: D**

**NEW QUESTION 57**

- (Exam Topic 1)

A SysOps administrator is optimizing the cost of a workload. The workload is running in multiple AWS Regions and is using AWS Lambda with Amazon EC2 On-Demand Instances for the compute. The overall usage is predictable. The amount of compute that is consumed in each Region varies, depending on the users' locations.

Which approach should the SysOps administrator use to optimize this workload?

- A. Purchase Compute Savings Plans based on the usage during the past 30 days
- B. Purchase Convertible Reserved Instances by calculating the usage baseline.
- C. Purchase EC2 Instance Savings Plane based on the usage during the past 30 days
- D. Purchase Standard Reserved Instances by calculating the usage baseline.

**Answer: C**

**NEW QUESTION 62**

- (Exam Topic 1)

A company has a new requirement stating that all resources in AWS must be tagged according to a set policy. Which AWS service should be used to enforce and continually identify all resources that are not in compliance with the policy?

- A. AWS CloudTrail
- B. Amazon Inspector
- C. AWS Config
- D. AWS Systems Manager

**Answer: C**

**NEW QUESTION 67**

- (Exam Topic 1)

A company hosts a web application on an Amazon EC2 instance in a production VPC. Client connections to the application are failing. A SysOps administrator inspects the VPC flow logs and finds the following entry:

```
2 111122223333 eni-####> 192.0.2.15 203.0.113.56 40711 443 6 1 40 1418530010 1418530070 REJECT OK
```

What is a possible cause of these failed connections?

- A. A security group is denying traffic on port 443.
- B. The EC2 instance is shut down.
- C. The network ACL is blocking HTTPS traffic.
- D. The VPC has no internet gateway attached.

**Answer: A**

**Explanation:**

<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs-records-examples.html#flow-log-example-accepted>

<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs-records-examples.html#>

Accepted and rejected traffic: In this example, RDP traffic (destination port 3389, TCP protocol) to network interface eni-1235b8ca123456789 in account 123456789010 was rejected. 2 123456789010

```
eni-1235b8ca123456789 172.31.9.69 172.31.9.12 49761 3389 6 20 4249 1418530010 1418530070 REJECT OK
```

**NEW QUESTION 70**

- (Exam Topic 1)

A SysOps administrator needs to design a high-traffic static website. The website must be highly available and must provide the lowest possible latency to users across the globe.

Which solution will meet these requirements?

- A. Create an Amazon S3 bucket, and upload the website content to the S3 bucket
- B. Create an Amazon CloudFront distribution in each AWS Region, and set the S3 bucket as the origin
- C. Use Amazon Route 53 to create a DNS record that uses a geolocation routing policy to route traffic to the correct CloudFront distribution based on where the request originates.
- D. Create an Amazon S3 bucket, and upload the website content to the S3 bucket
- E. Create an Amazon CloudFront distribution, and set the S3 bucket as the origin
- F. Use Amazon Route 53 to create an alias record that points to the CloudFront distribution.
- G. Create an Application Load Balancer (ALB) and a target group
- H. Create an Amazon EC2 Auto Scaling group with at least two EC2 instances in the associated target group
- I. Store the website content on the EC2 instance
- J. Use Amazon Route 53 to create an alias record that points to the ALB.
- K. Create an Application Load Balancer (ALB) and a target group in two Regions
- L. Create an Amazon EC2 Auto Scaling group in each Region with at least two EC2 instances in each target group
- M. Store the website content on the EC2 instance
- N. Use Amazon Route 53 to create a DNS record that uses a geolocation routing policy to route traffic to the correct ALB based on where the request originates.

**Answer:** B

**NEW QUESTION 74**

- (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 helps Lambda handle huge connections to RDS MySQL.

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

**NEW QUESTION 79**

- (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 82**

- (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 85**

- (Exam Topic 1)

A SysOps administrator is deploying a test site running on Amazon EC2 instances. The application requires both incoming and outgoing connectivity to the internet.

Which combination of steps are required to provide internet connectivity to the EC2 instances? (Choose two.)

- A. Add a NAT gateway to a public subnet.
- B. Attach a private address to the elastic network interface on the EC2 instance.
- C. Attach an Elastic IP address to the internet gateway.
- D. Add an entry to the route table for the subnet that points to an internet gateway.
- E. Create an internet gateway and attach it to a VPC.

**Answer:** DE

**Explanation:**

[https://docs.aws.amazon.com/vpc/latest/userguide/VPC\\_Internet\\_Gateway.html](https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html)

**NEW QUESTION 90**

- (Exam Topic 1)

A company using AWS Organizations requires that no Amazon S3 buckets in its production accounts should ever be deleted. What is the SIMPLEST approach the SysOps administrator can take to ensure S3 buckets in those accounts can never be deleted?

- A. Set up MFA Delete on all the S3 buckets to prevent the buckets from being deleted.
- B. Use service control policies to deny the s3:DeleteBucket action on all buckets in production accounts.
- C. Create an IAM group that has an IAM policy to deny the s3:DeleteBucket action on all buckets in production accounts.
- D. Use AWS Shield to deny the s3:DeleteBucket action on the AWS account instead of all S3 buckets.

**Answer: B**

**Explanation:**

[https://docs.aws.amazon.com/organizations/latest/userguide/orgs\\_manage\\_policies\\_scps.html](https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps.html)

If you're using AWS Organizations, check the service control policies for any statements that explicitly deny Amazon S3 access. In particular, check the service control policies for statements denying the s3:PutBucketPolicy action.

<https://aws.amazon.com/tw/premiumsupport/knowledge-center/s3-access-denied-bucket-policy/>

**NEW QUESTION 95**

- (Exam Topic 1)

A SysOps administrator is using AWS Systems Manager Patch Manager to patch a fleet of Amazon EC2 instances. The SysOps administrator has configured a patch baseline and a maintenance window. The SysOps administrator also has used an instance tag to identify which instances to patch. The SysOps administrator must give Systems Manager the ability to access the EC2 instances. Which additional action must the SysOps administrator perform to meet this requirement?

- A. Add an inbound rule to the instances' security group.
- B. Attach an IAM instance profile with access to Systems Manager to the instances.
- C. Create a Systems Manager activation Then activate the fleet of instances.
- D. Manually specify the instances to patch Instead of using tag-based selection.

**Answer: A**

**NEW QUESTION 99**

- (Exam Topic 1)

A company's VPC has connectivity to an on-premises data center through an AWS Site-to-Site VPN. The company needs Amazon EC2 instances in the VPC to send DNS queries for example com to the DNS servers in the data center. Which solution will meet these requirements?

- A. Create an Amazon Route 53 Resolver inbound endpoint Create a conditional forwarding rule on the on-premises DNS servers to forward DNS requests for example.com to the inbound endpoints.
- B. Create an Amazon Route 53 Resolver inbound endpoint Create a forwarding rule on the resolver that sends all queries for example.com to the on-premises DNS server
- C. Associate this rule with the VPC.
- D. Create an Amazon Route 53 Resolver outbound endpoint Create a conditional forwarding rule on the on-premises DNS servers to forward DNS requests for example.com to the outbound endpoints
- E. Create an Amazon Route 53 Resolver outbound endpoint
- F. Create a forwarding rule on the resolver that sends all queries for exarrc4e.com to the on-premises DNS servers Associate this rule with the VPC.

**Answer: C**

**NEW QUESTION 102**

- (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. They 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 mod
- 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 performanc
- 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 105**

- (Exam Topic 1)

A SysOps administrator creates two VPCs, VPC1 and VPC2, in a company's AWS account The SysOps administrator deploys a Linux Amazon EC2 instance in VPC1 and deploys an Amazon RDS for MySQL DB instance in VPC2. The DB instance is deployed in a private subnet. An application that runs on the EC2 instance needs to connect to the database.

What should the SysOps administrator do to give the EC2 instance the ability to connect to the database?

- A. Enter the DB instance connection string into the VPC1 route table.

- B. Configure VPC peering between the two VPCs.
- C. Add the same IPv4 CIDR range for both VPCs.
- D. Connect to the DB instance by using the DB instance's public IP address.

**Answer:** B

**Explanation:**

VPC peering allows two VPCs to communicate with each other securely. By configuring VPC peering between the two VPCs, the SysOps administrator will be able to give the EC2 instance in VPC1 the ability to connect to the database in VPC2. Once the VPC peering is configured, the EC2 instance will be able to communicate with the database using the private IP address of the DB instance in the private subnet.

**NEW QUESTION 108**

- (Exam Topic 1)

A company is managing multiple AWS accounts in AWS Organizations. The company is reviewing internal security of its AWS environment. The company's security administrator has their own AWS account and wants to review the VPC configuration of developer AWS accounts. Which solution will meet these requirements in the MOST secure manner?

- A. Create an IAM policy in each developer account that has read-only access related to VPC resources. Assign the policy to an IAM user. Share the user credentials with the security administrator.
- B. Create an IAM policy in each developer account that has administrator access to all Amazon EC2 actions, including VPC actions. Assign the policy to an IAM user. Share the user credentials with the security administrator.
- C. Create an IAM policy in each developer account that has administrator access related to VPC resources. Assign the policy to a cross-account IAM role. Ask the security administrator to assume the role from their account.
- D. Create an IAM policy in each developer account that has read-only access related to VPC resources. Assign the policy to a cross-account IAM role. Ask the security administrator to assume the role from their account.

**Answer:** D

**NEW QUESTION 110**

- (Exam Topic 1)

With the threat of ransomware viruses encrypting and holding company data hostage, which action should be taken to protect an Amazon S3 bucket?

- A. Deny Pos
- B. Pu
- C. and Delete on the bucket.
- D. Enable server-side encryption on the bucket.
- E. Enable Amazon S3 versioning on the bucket.
- F. Enable snapshots on the bucket.

**Answer:** B

**NEW QUESTION 115**

- (Exam Topic 1)

A team of On-call engineers frequently needs to connect to Amazon EC2 Instances in a private subnet to troubleshoot and run commands. The Instances use either the latest AWS-provided Windows Amazon Machine Images (AMIs) or Amazon Linux AMIs. The team has an existing IAM role for authorization. A SysOps administrator must provide the team with access to the Instances by granting IAM permissions to this. Which solution will meet this requirement?

- A. Add a statement to the IAM role policy to allow the `ssm:StartSession` action on the instance.
- B. Instruct the team to use AWS Systems Manager Session Manager to connect to the Instances by using the assumed IAM role.
- C. Associate an Elastic IP address and a security group with each instance.
- D. Add the engineers' IP addresses to the security group inbound rule.
- E. Add a statement to the IAM role policy to allow the `ec2:AuthorizeSecurityGroupIngress` action so that the team can connect to the Instances.
- F. Create a bastion host with an EC2 Instance, and associate the bastion host with the VP.
- G. Add a statement to the IAM role policy to allow the `ec2:CreateVpnConnection` action on the bastion host.
- H. Instruct the team to use the bastion host endpoint to connect to the instances. D Create an internet-facing Network Load Balance
- I. Use two listener
- J. Forward port 22 to a target group of Linux instance
- K. Forward port 3389 to a target group of Windows Instance
- L. Add a statement to the IAM role policy to allow the `ec2:CreateRoute` action so that the team can connect to the Instances.

**Answer:** A

**NEW QUESTION 120**

- (Exam Topic 1)

A company monitors its account activity using AWS CloudTrail, and is concerned that some log files are being tampered with after the logs have been delivered to the account's Amazon S3 bucket.

Moving forward, how can the SysOps administrator confirm that the log files have not been modified after being delivered to the S3 bucket?

- A. Stream the CloudTrail logs to Amazon CloudWatch Logs to store logs at a secondary location.
- B. Enable log file integrity validation and use digest files to verify the hash value of the log file.
- C. Replicate the S3 log bucket across regions, and encrypt log files with S3 managed keys.
- D. Enable S3 server access logging to track requests made to the log bucket for security audits.

**Answer:** B

**Explanation:**

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. CloudTrail signs each digest file using the private key of a

public and private key pair. After delivery, you can use the public key to validate the digest file. CloudTrail uses different key pairs for each AWS region  
<https://docs.aws.amazon.com/awsccloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html>

**NEW QUESTION 125**

- (Exam Topic 1)

A SysOps administrator is required to monitor free space on Amazon EBS volumes attached to Microsoft Windows-based Amazon EC2 instances within a company's account. The administrator must be alerted to potential issues.

What should the administrator do to receive email alerts before low storage space affects EC2 instance performance?

- A. Use built-in Amazon CloudWatch metrics, and configure CloudWatch alarms and an Amazon SNS topic for email notifications
- B. Use AWS CloudTrail logs and configure the trail to send notifications to an Amazon SNS topic.
- C. Use the Amazon CloudWatch agent to send disk space metrics, then set up CloudWatch alarms using an Amazon SNS topic.
- D. Use AWS Trusted Advisor and enable email notification alerts for EC2 disk space

**Answer: C**

**NEW QUESTION 126**

- (Exam Topic 1)

An environment consists of 100 Amazon EC2 Windows instances. The Amazon CloudWatch agent is deployed and running on all EC2 instances with a baseline configuration file to capture log files. There is a new requirement to capture the DHCP log files that exist on 50 of the instances.

What is the MOST operational efficient way to meet this new requirement?

- A. Create an additional CloudWatch agent configuration file to capture the DHCP logs. Use the AWS Systems Manager Run Command to restart the CloudWatch agent on each EC2 instance with the append-config option to apply the additional configuration file.
- B. Log in to each EC2 instance with administrator rights. Create a PowerShell script to push the needed baseline log files and DHCP log files to CloudWatch.
- C. Run the CloudWatch agent configuration file wizard on each EC2 instance. Verify that the base log files are included and add the DHCP log files during the wizard creation process.
- D. Run the CloudWatch agent configuration file wizard on each EC2 instance and select the advanced detail level.
- E. This will capture the operating system log files.

**Answer: A**

**NEW QUESTION 130**

- (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 132**

- (Exam Topic 1)

A company is expanding its use of AWS services across its portfolios. The company wants to provision AWS accounts for each team to ensure a separation of business processes for security compliance and billing. Account creation and bootstrapping should be completed in a scalable and efficient way so new accounts are created with a defined baseline and governance guardrails in place. A SysOps administrator needs to design a provisioning process that saves time and resources.

Which action should be taken to meet these requirements?

- A. Automate using AWS Elastic Beanstalk to provision the AWS accounts, set up infrastructure, and integrate with AWS Organizations.
- B. Create bootstrapping scripts in AWS OpsWorks and combine them with AWS CloudFormation templates to provision accounts and infrastructure.
- C. Use AWS Config to provision accounts and deploy instances using AWS Service Catalog.
- D. Use AWS Control Tower to create a template in Account Factory and use the template to provision new accounts.

**Answer: D**

**NEW QUESTION 136**

- (Exam Topic 1)

A SysOps administrator has an AWS CloudFormation template of the company's existing infrastructure in us-west-2. The administrator attempts to use the template to launch a new stack in eu-west-1, but the stack only partially deploys, receives an error message, and then rolls back.

Why would this template fail to deploy? (Select TWO.)

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

**Answer: BD**

**NEW QUESTION 139**

- (Exam Topic 1)

An existing, deployed solution uses Amazon EC2 instances with Amazon EBS General Purpose SSD volumes, an Amazon RDS PostgreSQL database, an Amazon EFS file system, and static objects stored in an Amazon S3 bucket. The Security team now mandates that at-rest encryption be turned on immediately for all aspects of the application, without creating new resources and without any downtime.

To satisfy the requirements, which one of these services can the SysOps administrator enable at-rest encryption on?

- A. EBS General Purpose SSD volumes
- B. RDS PostgreSQL database
- C. Amazon EFS file systems
- D. S3 objects within a bucket

**Answer: D**

**Explanation:**

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/UsingEncryption.html>

**NEW QUESTION 143**

- (Exam Topic 1)

An Amazon EC2 instance needs to be reachable from the internet. The EC2 instance is in a subnet with the following route table:

Destination	Target
10.0.0.0/16	Local
172.31.0.0/16	pcx-1122334455

Which entry must a SysOps administrator add to the route table to meet this requirement?

- A. A route for 0.0.0.0/0 that points to a NAT gateway
- B. A route for 0.0.0.0/0 that points to an egress-only internet gateway
- C. A route for 0.0.0.0/0 that points to an internet gateway
- D. A route for 0.0.0.0/0 that points to an elastic network interface

**Answer: C**

**NEW QUESTION 145**

- (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 1AM credentials.
- B. Set up Amazon Inspector
- C. Scan and monitor resources for unauthorized logins.
- D. Set up AWS Confi
- 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 149**

- (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 server
- B. Associate the records with the Route 53 HTTP health check.
- C. Create an A record for each server
- 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 yes
- 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 yes
- H. Associate the records with the Route 53 TCP health check.

**Answer: A**

**NEW QUESTION 153**

- (Exam Topic 1)

A company must migrate its applications to AWS. The company is using Chef recipes for configuration management. The company wants to continue to use the existing Chef recipes after the applications are migrated to AWS.

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

- A. Use AWS CloudFormation to create an Amazon EC2 instance, install a Chef server, and add Chef recipes.
- B. Use AWS CloudFormation to create a stack and add layers for Chef recipes.
- C. Use AWS Elastic Beanstalk with the Docker platform to upload Chef recipes.
- D. Use AWS OpsWorks to create a stack and add layers with Chef recipes.

**Answer:** D

**NEW QUESTION 155**

- (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 enable
- 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 enable
- 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 dail
- 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 dail
- 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 160**

- (Exam Topic 1)

A company's SysOps administrator deploys four new Amazon EC2 instances by using the standard Amazon Linux 2 Amazon Machine Image (AMI). The company needs to be able to use AWS Systems Manager to manage the instances The SysOps administrator notices that the instances do not appear in the Systems Manager console

What must the SysOps administrator do to resolve this issue?

- A. Connect to each instance by using SSH Install Systems Manager Agent on each instance Configure Systems Manager Agent to start automatically when the instances start up
- B. Use AWS Certificate Manager (ACM) to create a TLS certificate Import the certificate into each instance Configure Systems Manager Agent to use the TLS certificate for secure communications
- C. Connect to each instance by using SSH Create an ssm-user account Add the ssm-user account to the/etc/sudoers.d directory
- D. Attach an IAM instance profile to the instances Ensure that the instance profile contains the AmazonSSMManagedInstanceCore policy

**Answer:** D

**NEW QUESTION 161**

- (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 E
- B. Add the Active Directory server's domain name to Amazon E
- C. Configure Kibana to use Amazon ES authentication.
- D. Deploy an Amazon Cognito user poo
- E. Configure Active Directory as an external identity provider for the user poo
- F. Enable Amazon Cognito authentication for Kibana on Amazon ES.
- G. Enable Active Directory user authentication in Kiban
- 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 serve
- J. Enable Active Directory user authentication in Kiban
- 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 165**

- (Exam Topic 1)

A company uses an Amazon CloudFront distribution to deliver its website Traffic togs 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 Elasttsearch 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 Elastcsearch 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 dtstnbubon and use the S3 bucket as a log

destination

**Answer: C**

**NEW QUESTION 168**

- (Exam Topic 1)

A company has an Amazon CloudFront distribution that uses an Amazon S3 bucket as its origin. During a review of the access logs, the company determines that some requests are going directly to the S3 bucket by using the website hosting endpoint. A SysOps administrator must secure the S3 bucket to allow requests only from CloudFront.

What should the SysOps administrator do to meet this requirement?

- A. Create an origin access identity (OAI) in CloudFront
- B. Associate the OAI with the distribution
- C. Remove access to and from other principals in the S3 bucket policy
- D. Update the S3 bucket policy to allow access only from the OAI.
- E. Create an origin access identity (OAI) in CloudFront
- F. Associate the OAI with the distribution
- G. Update the S3 bucket policy to allow access only from the OAI
- H. Create a new origin, and specify the S3 bucket as the new origin
- I. Update the distribution behavior to use the new origin
- J. Remove the existing origin.
- K. Create an origin access identity (OAI) in CloudFront
- L. Associate the OAI with the distribution
- M. Update the S3 bucket policy to allow access only from the OAI
- N. Disable website hosting
- O. Create a new origin, and specify the S3 bucket as the new origin
- P. Update the distribution behavior to use the new origin
- Q. Remove the existing origin.
- R. Update the S3 bucket policy to allow access only from the CloudFront distribution
- S. Remove access to and from other principals in the S3 bucket policy
- T. Disable website hosting
- . Create a new origin, and specify the S3 bucket as the new origin
- . Update the distribution behavior to use the new origin
- . Remove the existing origin.

**Answer: A**

**NEW QUESTION 170**

- (Exam Topic 1)

A SysOps administrator has blocked public access to all company Amazon S3 buckets. The SysOps administrator wants to be notified when an S3 bucket becomes publicly readable in the future.

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

- A. Create an AWS Lambda function that periodically checks the public access settings for each S3 bucket. Set up Amazon Simple Notification Service (Amazon SNS) to send notifications.
- B. Create a cron script that uses the S3 API to check the public access settings for each S3 bucket
- C. Set up Amazon Simple Notification Service (Amazon SNS) to send notifications
- D. Enable S3 Event notifications for each S3 bucket
- E. Subscribe S3 Event Notifications to an Amazon Simple Notification Service (Amazon SNS) topic.
- F. Enable the s3-bucket-public-read-prohibited managed rule in AWS Config
- G. Subscribe the AWS Config rule to an Amazon Simple Notification Service (Amazon SNS) topic.

**Answer: D**

**NEW QUESTION 174**

- (Exam Topic 1)

A SysOps administrator has launched a large general purpose Amazon EC2 instance to regularly process large data files. The instance has an attached 1 TB General Purpose SSD (gp2) Amazon Elastic Block Store (Amazon EBS) volume. The instance also is EBS-optimized. To save costs, the SysOps administrator stops the instance each evening and restarts the instance each morning.

When data processing is active, Amazon CloudWatch metrics on the instance show a consistent 3,000 VolumeReadOps. The SysOps administrator must improve the I/O performance while ensuring data integrity.

Which action will meet these requirements?

- A. Change the instance type to a large, burstable, general purpose instance.
- B. Change the instance type to an extra large general purpose instance.
- C. Increase the EBS volume to a 2 TB General Purpose SSD (gp2) volume.
- D. Move the data that resides on the EBS volume to the instance store.

**Answer: C**

**NEW QUESTION 175**

- (Exam Topic 1)

A company is running a website on Amazon EC2 instances that are in an Auto Scaling group. When the website traffic increases, additional instances take several minutes to become available because of a

long-running user data script that installs software. A SysOps administrator must decrease the time that is required (or new instances to become available). Which action should the SysOps administrator take to meet this requirement?

- A. Reduce the scaling thresholds so that instances are added before traffic increases
- B. Purchase Reserved Instances to cover 100% of the maximum capacity of the Auto Scaling group

- C. Update the Auto Scaling group to launch instances that have a storage optimized instance type
- D. Use EC2 Image Builder to prepare an Amazon Machine Image (AMI) that has pre-installed software

**Answer:** D

**Explanation:**

automated way to update your image. Have a pipeline to update your image. When you boot from your AMI updates = scripts are already pre-installed, so no need to complete boot scripts in boot process. <https://aws.amazon.com/image-builder/>

**NEW QUESTION 176**

- (Exam Topic 1)

An application accesses data through a file system interface. The application runs on Amazon EC2 instances in multiple Availability Zones, all of which must share the same data. While the amount of data is currently small, the company anticipates that it will grow to tens of terabytes over the lifetime of the application. What is the MOST scalable storage solution to fulfill this requirement?

- A. Connect a large Amazon EBS volume to multiple instances and schedule snapshots.
- B. Deploy Amazon EFS in the VPC and create mount targets in multiple subnets.
- C. Launch an EC2 instance and share data using SMB/CIFS or NFS.
- D. Deploy an AWS Storage Gateway cached volume on Amazon EC2.

**Answer:** B

**NEW QUESTION 180**

- (Exam Topic 1)

A company recently purchased Savings Plans. The company wants to receive email notification when the company's utilization drops below 90% for a given day. Which solution will meet this requirement?

- A. Create an Amazon CloudWatch alarm to monitor the Savings Plan check in AWS Trusted Advisor. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification when the utilization drops below 90% for a given day.
- B. Create an Amazon CloudWatch alarm to monitor the SavingsPlansUtilization metric under the AWS/SavingsPlans namespace in CloudWatc
- C. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification when the utilization drops below 90% for a given day.
- D. Create a Savings Plans alert to monitor the daily utilization of the Savings Plan
- E. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification when the utilization drops below 90% for a given day.
- F. Use AWS Budgets to create a Savings Plans budget to track the daily utilization of the Savings Plans. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification when the utilization drops below 90% for a given day.

**Answer:** D

**Explanation:**

AWS Budgets can be used to create a Savings Plans budget and track the daily utilization of the company's Savings Plans. By creating a budget, it will trigger an action when the utilization drops below 90%, which in this case will be to send an email notification via an Amazon SNS topic. This will ensure that the company is notified when their Savings Plans utilization drops below 90%, allowing them to take action if necessary.

Reference: [1] <https://docs.aws.amazon.com/savingsplans/latest/userguide/sp-usingBudgets.html>

**NEW QUESTION 182**

- (Exam Topic 1)

A large company is using AWS Organizations to manage hundreds of AWS accounts across multiple AWS Regions. The company has turned on AWS Config throughout the organization.

The company requires all Amazon S3 buckets to block public read access. A SysOps administrator must generate a monthly report that shows all the S3 buckets and whether they comply with this requirement.

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

- A. Create an AWS Config aggregator in an aggregator account
- B. Use the organization as the source. Retrieve the compliance data from the aggregator.
- C. Create an AWS Config aggregator in each account
- D. Use an S3 bucket in an aggregator account as the destination
- E. Retrieve the compliance data from the S3 bucket
- F. Edit the AWS Config policy in AWS Organization
- G. Use the organization's management account to turn on the s3-bucket-public-read-prohibited rule for the entire organization.
- H. Use the AWS Config compliance report from the organization's management account
- I. Filter the results by resource, and select Amazon S3.
- J. Use the AWS Config API to apply the s3-bucket-public-read-prohibited rule in all accounts for all available Regions.

**Answer:** CD

**NEW QUESTION 187**

- (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 191**

- (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 192**

- (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 197**

- (Exam Topic 1)

A company is storing backups in an Amazon S3 bucket. The backups must not be deleted for at least 3 months after the backups are created.

What should a SysOps administrator do to meet this requirement?

- A. Configure an IAM policy that denies the s3:DeleteObject action for all user
- B. Three months after an object is written, remove the policy.
- C. Enable S3 Object Lock on a new S3 bucket in compliance mod
- D. Place all backups in the new S3 bucket with a retention period of 3 months.
- E. Enable S3 Versioning on the existing S3 bucke
- F. Configure S3 Lifecycle rules to protect the backups.
- G. Enable S3 Object Lock on a new S3 bucket in governance mod
- H. Place all backups in the new S3 bucket with a retention period of 3 months.

**Answer:** D

**Explanation:**

To meet the requirements of the workload, a SysOps administrator should enable S3 Object Lock on a new S3 bucket in governance mode and place all backups in the new S3 bucket with a retention period of 3 months.

This will ensure that the backups are not deleted for at least 3 months after they are created. The other solutions (configuring an IAM policy that denies the s3:DeleteObject action for all users, enabling S3 Object Lock on a new S3 bucket in compliance mode, or enabling S3 Versioning on the existing S3 bucket and configuring S3 Lifecycle rules to protect the backups) will not meet the requirements, as they do not provide a way to ensure that the backups are not deleted for at least 3 months after they are created.

**NEW QUESTION 198**

- (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 202**

- (Exam Topic 1)

A company stores sensitive data in an Amazon S3 bucket. The company must log all access attempts to the S3 bucket. The company's risk team must receive immediate notification about any delete events.

Which solution will meet these requirements?

- A. Enable S3 server access logging for audit log

- B. Set up an Amazon Simple Notification Service (Amazon SNS) notification for the S3 bucket.
- C. Select DeleteObject for the event type for the alert system.
- D. Enable S3 server access logging for audit log
- E. Launch an Amazon EC2 instance for the alert system. Run a cron job on the EC2 instance to download the access logs each day and to scan for a DeleteObject event.
- F. Use Amazon CloudWatch Logs for audit log
- G. Use Amazon CloudWatch alarms with an Amazon Simple Notification Service (Amazon SNS) notification for the alert system.
- H. Use Amazon CloudWatch Logs for audit log
- I. Launch an Amazon EC2 instance for The alert system. Run a cron job on the EC2 Instance each day to compare the list of the items with the list from the previous day
- J. Configure the cron job to send a notification if an item is missing.

**Answer:** A

**Explanation:**

To meet the requirements of logging all access attempts to the S3 bucket and receiving immediate notification about any delete events, the company can enable S3 server access logging and set up an Amazon Simple Notification Service (Amazon SNS) notification for the S3 bucket. The S3 server access logs will record all access attempts to the bucket, including delete events, and the SNS notification can be configured to send an alert when a DeleteObject event occurs.

**NEW QUESTION 204**

- (Exam Topic 1)

A company uses AWS CloudFormation templates to deploy cloud infrastructure. An analysis of all the company's templates shows that the company has declared the same components in multiple templates. A SysOps administrator needs to create dedicated templates that have their own parameters and conditions for these common components.

Which solution will meet this requirement?

- A. Develop a CloudFormation change set.
- B. Develop CloudFormation macros.
- C. Develop CloudFormation nested stacks.
- D. Develop CloudFormation stack sets.

**Answer:** C

**NEW QUESTION 209**

- (Exam Topic 1)

A company has a web application with a database tier that consists of an Amazon EC2 instance that runs MySQL. A SysOps administrator needs to minimize potential data loss and the time that is required to recover in the event of a database failure.

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

- A. Create an Amazon CloudWatch alarm for the StatusCheckFailed\_System metric to invoke an AWS Lambda function that stops and starts the EC2 instance.
- B. Create an Amazon RDS for MySQL Multi-AZ DB instance
- C. Use a MySQL native backup that is stored in Amazon S3 to restore the data to the new database
- D. Update the connection string in the web application.
- E. Create an Amazon RDS for MySQL Single-AZ DB instance with a read replica
- F. Use a MySQL native backup that is stored in Amazon S3 to restore the data to the new database
- G. Update the connection string in the web application.
- H. Use Amazon Data Lifecycle Manager (Amazon DLM) to take a snapshot of the Amazon Elastic Block Store (Amazon EBS) volume every hour
- I. In the event of an EC2 instance failure, restore the EBS volume from a snapshot.

**Answer:** D

**NEW QUESTION 212**

- (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 213**

- (Exam Topic 1)

A company is undergoing an external audit of its systems, which run wholly on AWS. A SysOps administrator must supply documentation of Payment Card Industry Data Security Standard (PCI DSS) compliance for the infrastructure managed by AWS.

Which set of actions should the SysOps administrator take to meet this requirement?

- A. Download the applicable reports from the AWS Artifact portal and supply these to the auditors.
- B. Download complete copies of the AWS CloudTrail log files and supply these to the auditors.
- C. Download complete copies of the AWS CloudWatch logs and supply these to the auditors.
- D. Provide the auditors with administrative access to the production AWS account so that the auditors can determine compliance.

**Answer:** A

**NEW QUESTION 217**

- (Exam Topic 1)

A SysOps administrator is investigating why a user has been unable to use RDP to connect over the internet from their home computer to a bastion server running on an Amazon EC2 Windows instance.

Which of the following are possible causes of this issue? (Choose two.)

- A. A network ACL associated with the bastion's subnet is blocking the network traffic.
- B. The instance does not have a private IP address.
- C. The route table associated with the bastion's subnet does not have a route to the internet gateway.
- D. The security group for the instance does not have an inbound rule on port 22.
- E. The security group for the instance does not have an outbound rule on port 3389.

**Answer: AC**

#### NEW QUESTION 221

- (Exam Topic 1)

A company is using an AWS KMS customer master key (CMK) with imported key material. The company references the CMK by its alias in the Java application to encrypt data. The CMK must be rotated every 6 months.

What is the process to rotate the key?

- A. Enable automatic key rotation for the CMK and specify a period of 6 months.
- B. Create a new CMK with new imported material, and update the key alias to point to the new CMK.
- C. Delete the current key material, and import new material into the existing CMK.
- D. Import a copy of the existing key material into a new CMK as a backup, and set the rotation schedule for 6 months.

**Answer: B**

#### NEW QUESTION 224

- (Exam Topic 1)

A large multinational company has a core application that runs 24 hours a day, 7 days a week on Amazon EC2 and AWS Lambda. The company uses a combination of operating systems across different AWS Regions. The company wants to achieve cost savings and wants to use a pricing model that provides the most flexibility.

What should the company do to MAXIMIZE cost savings while meeting these requirements?

- A. Establish the compute expense by the hour.
- B. Purchase a Compute Savings Plan.
- C. Establish the compute expense by the month.
- D. Purchase an EC2 Instance Savings Plan.
- E. Purchase a Reserved Instance for the instance types, operating systems, Region, and tenancy.
- F. Use EC2 Spot Instances to match the instances that run in each Region.

**Answer: D**

#### NEW QUESTION 227

- (Exam Topic 1)

A company has a critical serverless application that uses multiple AWS Lambda functions. Each Lambda function generates 1 GB of log data daily in its own Amazon CloudWatch Logs log group. The company's security team asks for a count of application errors, grouped by type, across all of the log groups.

What should a SysOps administrator do to meet this requirement?

- A. Perform a CloudWatch Logs Insights query that uses the stats command and count function.
- B. Perform a CloudWatch Logs search that uses the groupby keyword and count function.
- C. Perform an Amazon Athena query that uses the SELECT and GROUP BY keywords.
- D. Perform an Amazon RDS query that uses the SELECT and GROUP BY keywords.

**Answer: A**

#### NEW QUESTION 228

- (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 230

- (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 231

- (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 232

- (Exam Topic 1)

A company's backend infrastructure contains an Amazon EC2 instance in a private subnet. The private subnet has a route to the internet through a NAT gateway in a public subnet. The instance must allow connectivity to a secure web server on the internet to retrieve data at regular intervals.

The client software times out with an error message that indicates that the client software could not establish the TCP connection.

What should a SysOps administrator do to resolve this error?

- A. Add an inbound rule to the security group for the EC2 instance with the following parameters: Type - HTTP, Source - 0.0.0.0/0.
- B. Add an inbound rule to the security group for the EC2 instance with the following parameters: Type - HTTPS, Source - 0.0.0.0/0.
- C. Add an outbound rule to the security group for the EC2 instance with the following parameters: Type - HTTP, Destination - 0.0.0.0/0.
- D. Add an outbound rule to the security group for the EC2 instance with the following parameters: Type - HTTP
- E. Destination - 0.0.0.0/0.

**Answer: D**

#### NEW QUESTION 237

- (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 242

- (Exam Topic 1)

A SysOps administrator is creating two AWS CloudFormation templates. The first template will create a VPC with associated resources, such as subnets, route tables, and an internet gateway. The second template will deploy application resources within the VPC that was created by the first template. The second template should refer to the resources created by the first template.

How can this be accomplished with the LEAST amount of administrative effort?

- A. Add an export field to the outputs of the first template and import the values in the second template.
- B. Create a custom resource that queries the stack created by the first template and retrieves the required values.
- C. Create a mapping in the first template that is referenced by the second template.
- D. Input the names of resources in the first template and refer to those names in the second template as a parameter.

**Answer: A**

#### Explanation:

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/using-cfn-stack-exports.html>

**NEW QUESTION 247**

- (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 249**

- (Exam Topic 1)

A company plans to launch a static website on its domain example.com and subdomain www.example.com using Amazon S3. How should the SysOps administrator meet this requirement?

- A. Create one S3 bucket named example.com for both the domain and subdomain.
- B. Create one S3 bucket with a wildcard named \*.example.com for both the domain and subdomain.
- C. Create two S3 buckets named example.com and www.example.com.
- D. Configure the subdomain bucket to redirect requests to the domain bucket.
- E. Create two S3 buckets named http://example.com and http://www.example.com.
- F. Configure the wildcard (\*) bucket to redirect requests to the domain bucket.

**Answer: C**

**NEW QUESTION 252**

- (Exam Topic 1)

A company runs its infrastructure on Amazon EC2 instances that run in an Auto Scaling group. Recently, the company promoted faulty code to the entire EC2 fleet. This faulty code caused the Auto Scaling group to scale the instances before any of the application logs could be retrieved. What should a SysOps administrator do to retain the application logs after instances are terminated?

- A. Configure an Auto Scaling lifecycle hook to create a snapshot of the ephemeral storage upon termination of the instances.
- B. Create a new Amazon Machine Image (AMI) that has the Amazon CloudWatch agent installed and configured to send logs to Amazon CloudWatch Log.
- C. Update the launch template to use the new AMI.
- D. Create a new Amazon Machine Image (AMI) that has a custom script configured to send logs to AWS CloudTrail.
- E. Update the launch template to use the new AMI.
- F. Install the Amazon CloudWatch agent on the Amazon Machine Image (AMI) that is defined in the launch template.
- G. Configure the CloudWatch agent to back up the logs to ephemeral storage.

**Answer: B**

**NEW QUESTION 255**

- (Exam Topic 1)

A company is trying to connect two applications. One application runs in an on-premises data center that has a hostname of host1.onprem.private. The other application runs on an Amazon EC2 instance that has a hostname of host1.awscloud.private. An AWS Site-to-Site VPN connection is in place between the on-premises network and AWS.

The application that runs in the data center tries to connect to the application that runs on the EC2 instance, but DNS resolution fails. A SysOps administrator must implement DNS resolution between on-premises and AWS resources.

Which solution allows the on-premises application to resolve the EC2 instance hostname?

- A. Set up an Amazon Route 53 inbound resolver endpoint with a forwarding rule for the onprem.private hosted zone.
- B. Associate the resolver with the VPC of the EC2 instance.
- C. Configure the on-premises DNS resolver to forward onprem.private DNS queries to the inbound resolver endpoint.
- D. Set up an Amazon Route 53 inbound resolver endpoint.
- E. Associate the resolver with the VPC of the EC2 instance.
- F. Configure the on-premises DNS resolver to forward awscloud.private DNS queries to the inbound resolver endpoint.
- G. Set up an Amazon Route 53 outbound resolver endpoint with a forwarding rule for the onprem.private hosted zone.
- H. Associate the resolver with the AWS Region of the EC2 instance.
- I. Configure the on-premises DNS resolver to forward onprem.private DNS queries to the outbound resolver endpoint.
- J. Set up an Amazon Route 53 outbound resolver endpoint.
- K. Associate the resolver with the AWS Region of the EC2 instance.
- L. Configure the on-premises DNS resolver to forward awscloud.private DNS queries to the outbound resolver endpoint.

**Answer: C**

**NEW QUESTION 260**

- (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 264

- (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 file 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 268

- (Exam Topic 1)

A company stores critical data in Amazon S3 buckets. A SysOps administrator must build a solution to record all S3 API activity. Which action will meet this requirement?

- A. Configure S3 bucket metrics to record object access logs
- B. Create an AWS CloudTrail trail to log data events for all S3 objects
- C. Enable S3 server access logging for each S3 bucket
- D. Use AWS IAM Access Analyzer for Amazon S3 to store object access logs.

**Answer: B**

#### NEW QUESTION 273

- (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 275

- (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 279

- (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 populated
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basis
- 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 cluster
- E. Specify a target backtrack window of 48 hours

- F. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basis
- 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 basis
- I. Configure the function to restore the snapshot from Amazon S3.
- J. Set the DB cluster backup retention period to 2 days
- K. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basis
- 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 281**

- (Exam Topic 1)

A company wants to use only IPv6 for all its Amazon EC2 instances. The EC2 instances must not be accessible from the internet, but the EC2 instances must be able to access the internet. The company creates a dual-stack VPC and IPv6-only subnets. How should a SysOps administrator configure the VPC to meet these requirements?

- A. Create and attach a NAT gateway
- B. Create a custom route table that includes an entry to point all IPv6 traffic to the NAT gateway
- C. Attach the custom route table to the IPv6-only subnets.
- D. Create and attach an internet gateway
- E. Create a custom route table that includes an entry to point all IPv6 traffic to the internet gateway
- F. Attach the custom route table to the IPv6-only subnets.
- G. Create and attach an egress-only internet gateway
- H. Create a custom route table that includes an entry to point all IPv6 traffic to the egress-only internet gateway
- I. Attach the custom route table to the IPv6-only subnets.
- J. Create and attach an internet gateway and a NAT gateway
- K. Create a custom route table that includes an entry to point all IPv6 traffic to the internet gateway and all IPv4 traffic to the NAT gateway
- L. Attach the custom route table to the IPv6-only subnets.

**Answer: C**

**NEW QUESTION 283**

- (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 meet these requirements?

- A. Create a single AWS Storage Gateway file gateway.
- B. Create an Amazon FSx for Windows File Server Multi-AZ file system.
- C. Deploy two AWS Storage Gateway file gateways across two Availability Zones
- D. Configure an Application Load Balancer in front of the file gateways.
- E. Deploy two Amazon FSx for Windows File Server Single-AZ file systems
- F. Configure Microsoft Distributed File System Replication (DFSR).

**Answer: B**

**Explanation:**

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

**NEW QUESTION 287**

- (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**

**NEW QUESTION 288**

- (Exam Topic 1)

A company is running a flash sale on its website. The website is hosted on burstable performance Amazon EC2 instances in an Auto Scaling group. The Auto Scaling group is configured to launch instances when the CPU utilization is above 70%. A couple of hours into the sale, users report slow load times and error messages for refused connections. A SysOps administrator reviews Amazon CloudWatch metrics and notices that the CPU utilization is at 20% across the entire fleet of instances. The SysOps administrator must restore the website's functionality without making changes to the network infrastructure. Which solution will meet these requirements?

- A. Activate unlimited mode for the instances in the Auto Scaling group.
- B. Implement an Amazon CloudFront distribution to offload the traffic from the Auto Scaling group.
- C. Move the website to a different AWS Region that is closer to the users.
- D. Reduce the desired size of the Auto Scaling group to artificially increase CPU average utilization.

**Answer:** B

**Explanation:**

Implement an Amazon CloudFront distribution to offload the traffic from the Auto Scaling group does not breach the requirement of no changes in the network infrastructure. Reason is that cloudfront is a distribution that allows you to distribute content using a worldwide network of edge locations that provide low latency and high data transfer speeds. It plug in to existing setup, not changes to it.

**NEW QUESTION 292**

- (Exam Topic 1)

A company is managing multiple AWS accounts in AWS Organizations. The company is reviewing internal security of its AWS environment. The company's security administrator has their own AWS account and wants to review the VPC configuration of developer AWS accounts. Which solution will meet these requirements in the MOST secure manner?

- A. Create an IAM policy in each developer account that has read-only access related to VPC resources Assign the policy to an IAM use
- B. Share the user credentials with the security administrator.
- C. Create an IAM policy in each developer account that has administrator access to all Amazon EC2 actions, including VPC action
- D. Assign the policy to an IAM use
- E. Share the user credentials with the security administrator.
- F. Create an IAM policy in each developer account that has administrator access related to VPC resources. Assign the policy to a cross-account IAM role
- G. Ask the security administrator to assume the role from their account.
- H. Create an IAM policy in each developer account that has read-only access related to VPC resources Assign the policy to a cross-account IAM role Ask the security administrator to assume the role from their account.

**Answer:** D

**NEW QUESTION 296**

- (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 CloudTrail
- 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 CloudTrail
- 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 297**

- (Exam Topic 1)

A company hosts several write-intensive applications. These applications use a MySQL database that runs on a single Amazon EC2 instance. The company asks a SysOps administrator to implement a highly available database solution that is ideal for multi-tenant workloads. Which solution should the SysOps administrator implement to meet these requirements?

- A. Create a second EC2 instance for MySQL
- B. Configure the second instance to be a read replica.
- C. Migrate the database to an Amazon Aurora DB cluster
- D. Add an Aurora Replica.
- E. Migrate the database to an Amazon Aurora multi-master DB cluster.
- F. Migrate the database to an Amazon RDS for MySQL DB instance.

**Answer:** C

**NEW QUESTION 301**

- (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 306**

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

**Answer: B**

**NEW QUESTION 308**

- (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 311**

- (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 table.
- 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 bucket.
- 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 object.
- 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 bucket.
- 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 trail.
- 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 316**

- (Exam Topic 1)

A company recently acquired another corporation and all of that corporation's AWS accounts. A financial analyst needs the cost data from these accounts. A SysOps administrator uses Cost Explorer to generate cost and usage reports. The SysOps administrator notices that "No Tagkey" represents 20% of the monthly cost.

What should the SysOps administrator do to tag the "No Tagkey" resources?

- A. Add the accounts to AWS Organization
- B. Use a service control policy (SCP) to tag all the untagged resources.
- C. Use an AWS Config rule to find the untagged resource
- D. Set the remediation action to terminate the resources.
- E. Use Cost Explorer to find and tag all the untagged resources.
- F. Use Tag Editor to find and tag all the untagged resources.

**Answer: D**

**Explanation:**

"You can add tags to resources when you create the resource. You can use the resource's service console or API to add, change, or remove those tags one resource at a time. To add tags to—or edit or delete tags of—multiple resources at once, use Tag Editor. With Tag Editor, you search for the resources that you want to tag, and then manage tags for the resources in your search results." <https://docs.aws.amazon.com/ARG/latest/userguide/tag-editor.html>

**NEW QUESTION 318**

- (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 322

- (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 metric.
- B. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.
- C. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric.
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification 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 327

- (Exam Topic 1)

A company has multiple Amazon EC2 instances that run a resource-intensive application in a development environment. A SysOps administrator is implementing a solution to stop these EC2 instances when they are not in use.

Which solution will meet this requirement?

- A. Assess AWS CloudTrail logs to verify that there is no EC2 API activity.
- B. Invoke an AWS Lambda function to stop the EC2 instances.
- C. Create an Amazon CloudWatch alarm to stop the EC2 instances when the average CPU utilization is lower than 5% for a 30-minute period.
- D. Create an Amazon CloudWatch metric to stop the EC2 instances when the VolumeReadBytes metric is lower than 500 for a 30-minute period.
- E. Use AWS Config to invoke an AWS Lambda function to stop the EC2 instances based on resource configuration changes.

**Answer: B**

#### Explanation:

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

#### NEW QUESTION 332

- (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: A**

#### Explanation:

<https://aws.amazon.com/blogs/security/control-access-to-aws-resources-by-using-the-aws-organization-of-iam-p>

#### NEW QUESTION 336

- (Exam Topic 1)

A SysOps administrator is testing an application that is hosted on five Amazon EC2 instances. The instances run in an Auto Scaling group behind an Application Load Balancer (ALB). High CPU utilization during load testing is causing the Auto Scaling group to scale out. The SysOps administrator must troubleshoot to find the root cause of the high CPU utilization before the Auto Scaling group scales out.

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

- A. Enable instance scale-in protection.
- B. Place the instance into the Standby state.
- C. Remove the listener from the ALB

D. Suspend the Launch and Terminate process types.

**Answer:** A

**NEW QUESTION 337**

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