Amazon

Exam Questions AWS-SysOps

Amazon AWS Certified SysOps Administrator - Associate

NEW QUESTION 1
- (Exam Topic 2)
A webpage is stored in an Amazon S3 bucket behind an Application Load Balancer (ALB). Configure the SS 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 bucketjs 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 53 bucket.

A. Mastered
B. Not Mastered

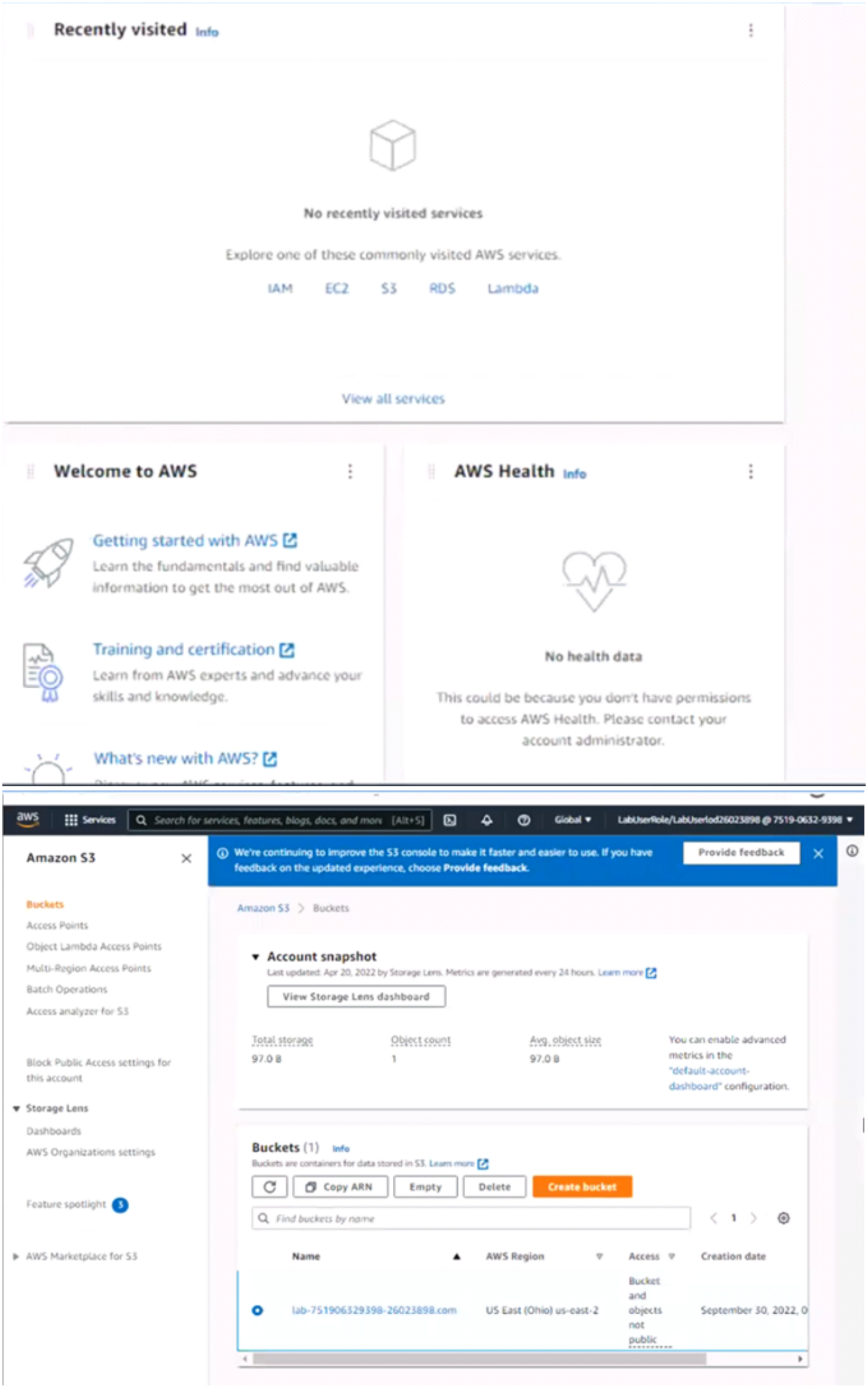
Answer: A

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/



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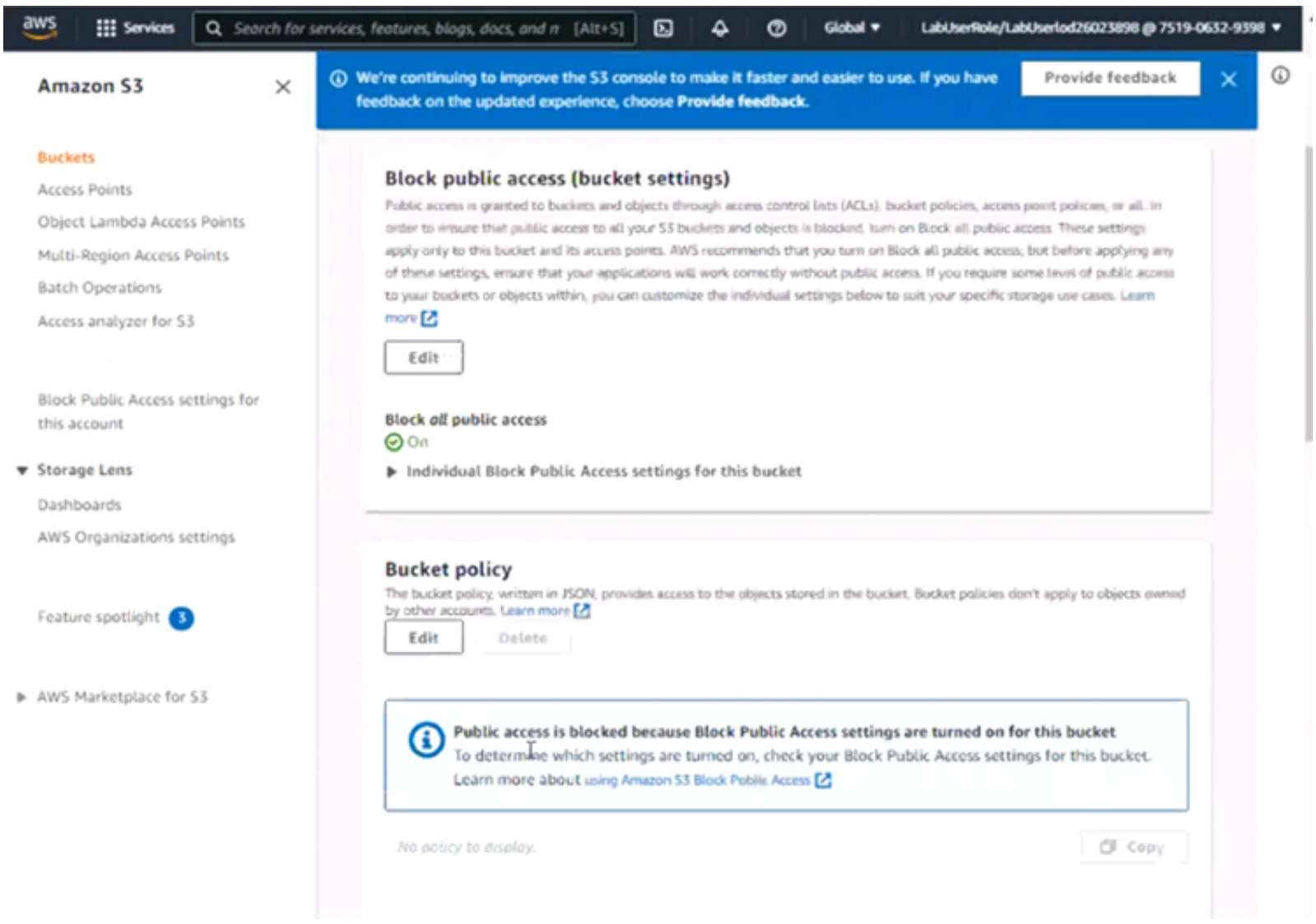

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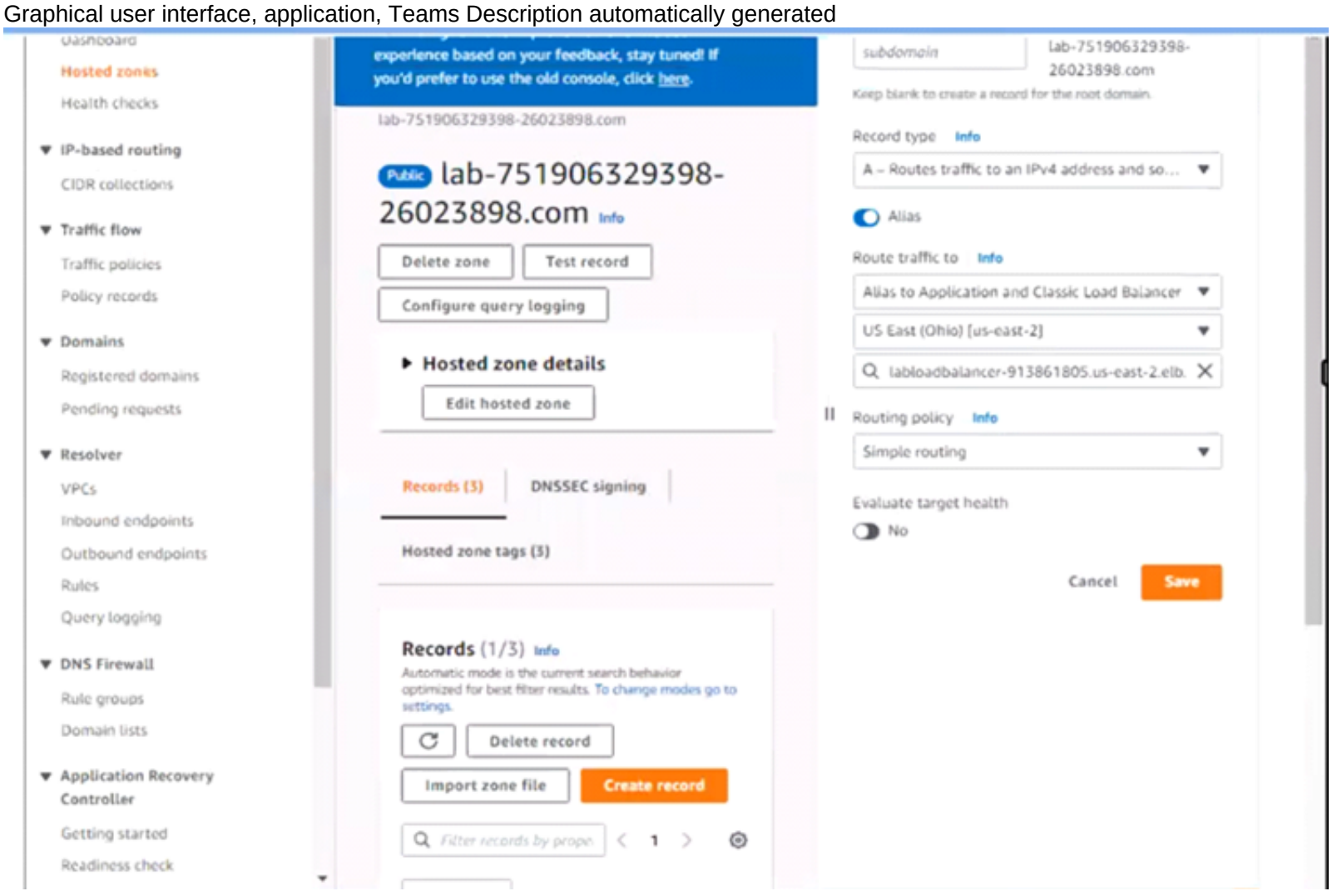

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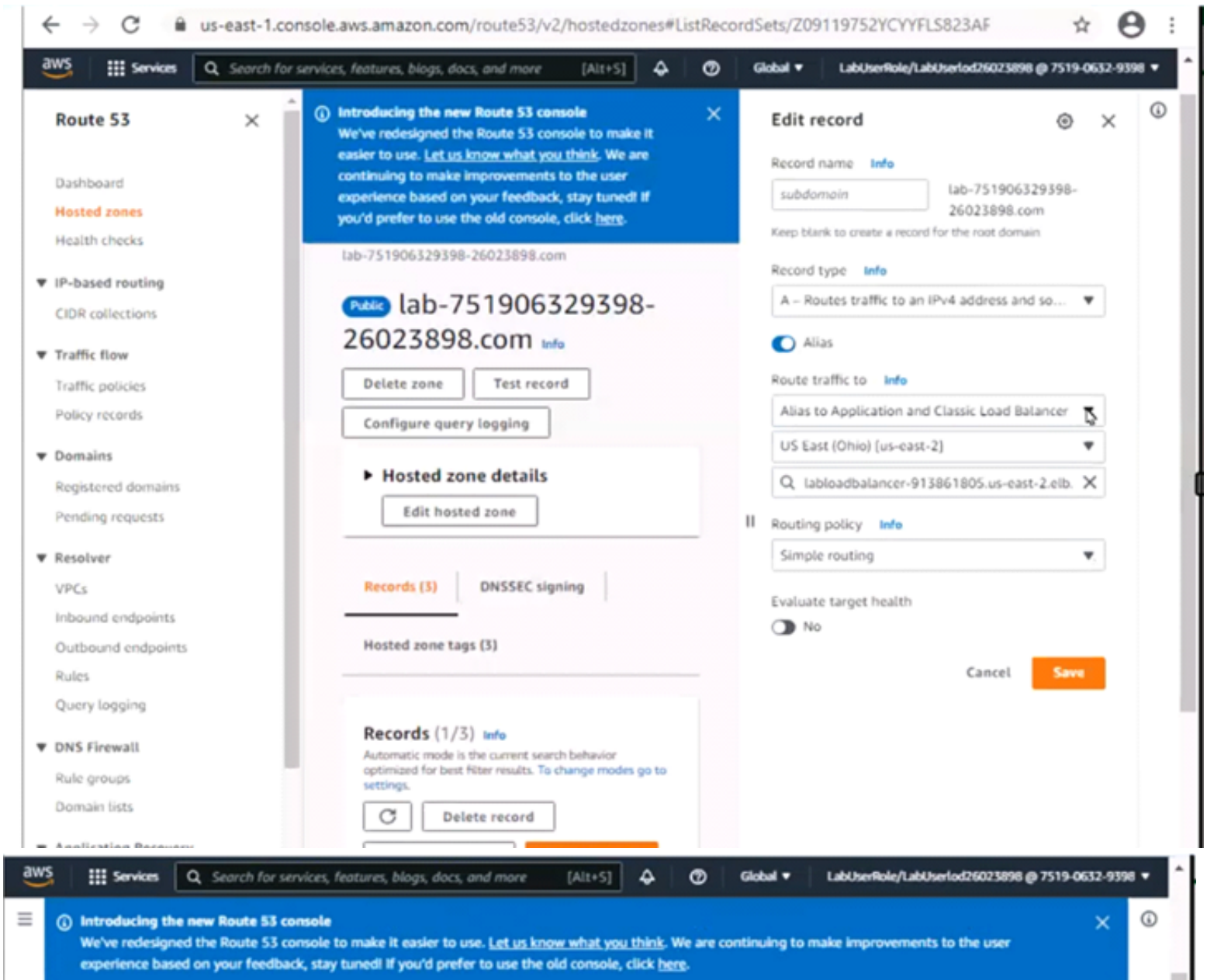

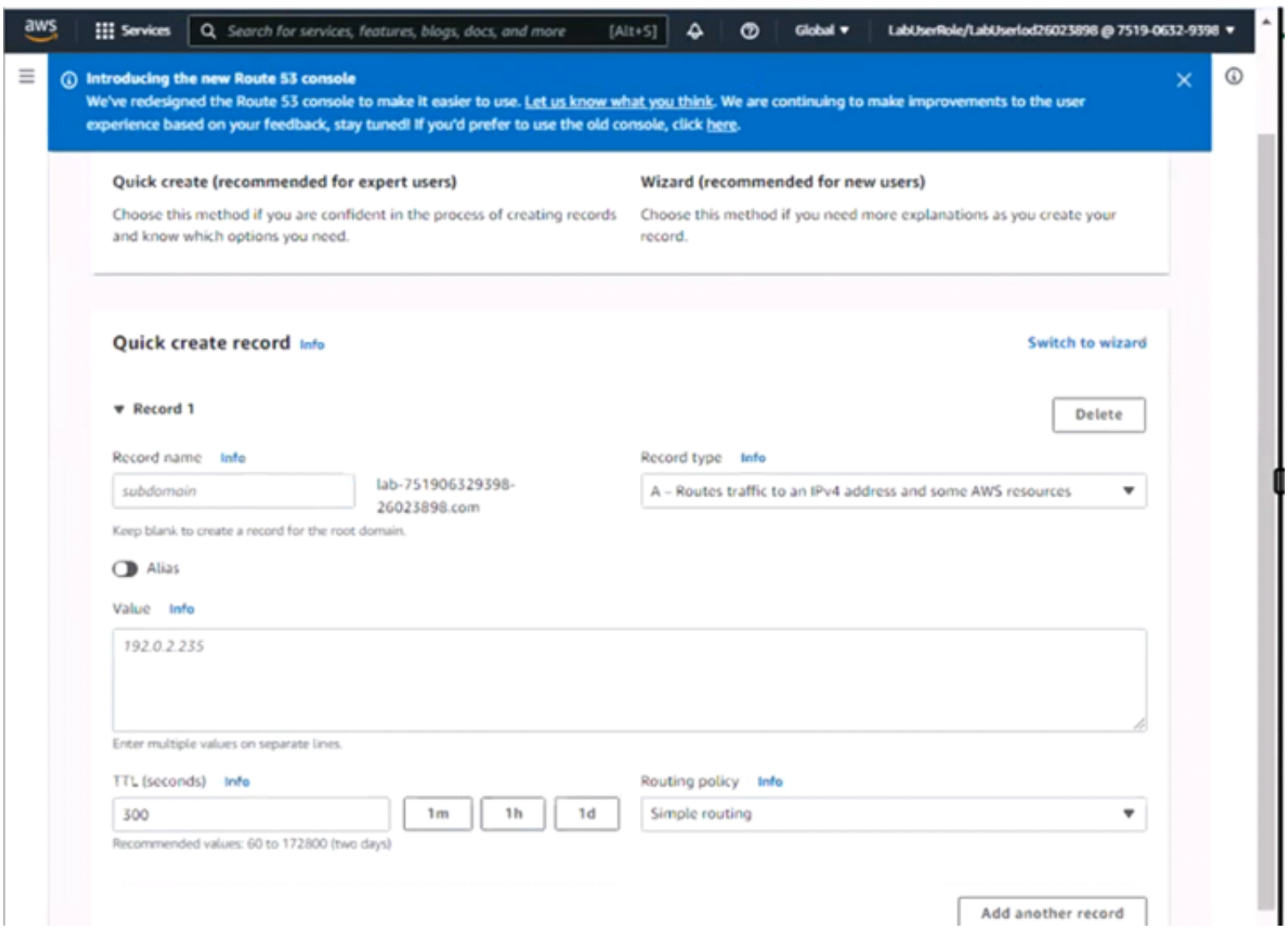

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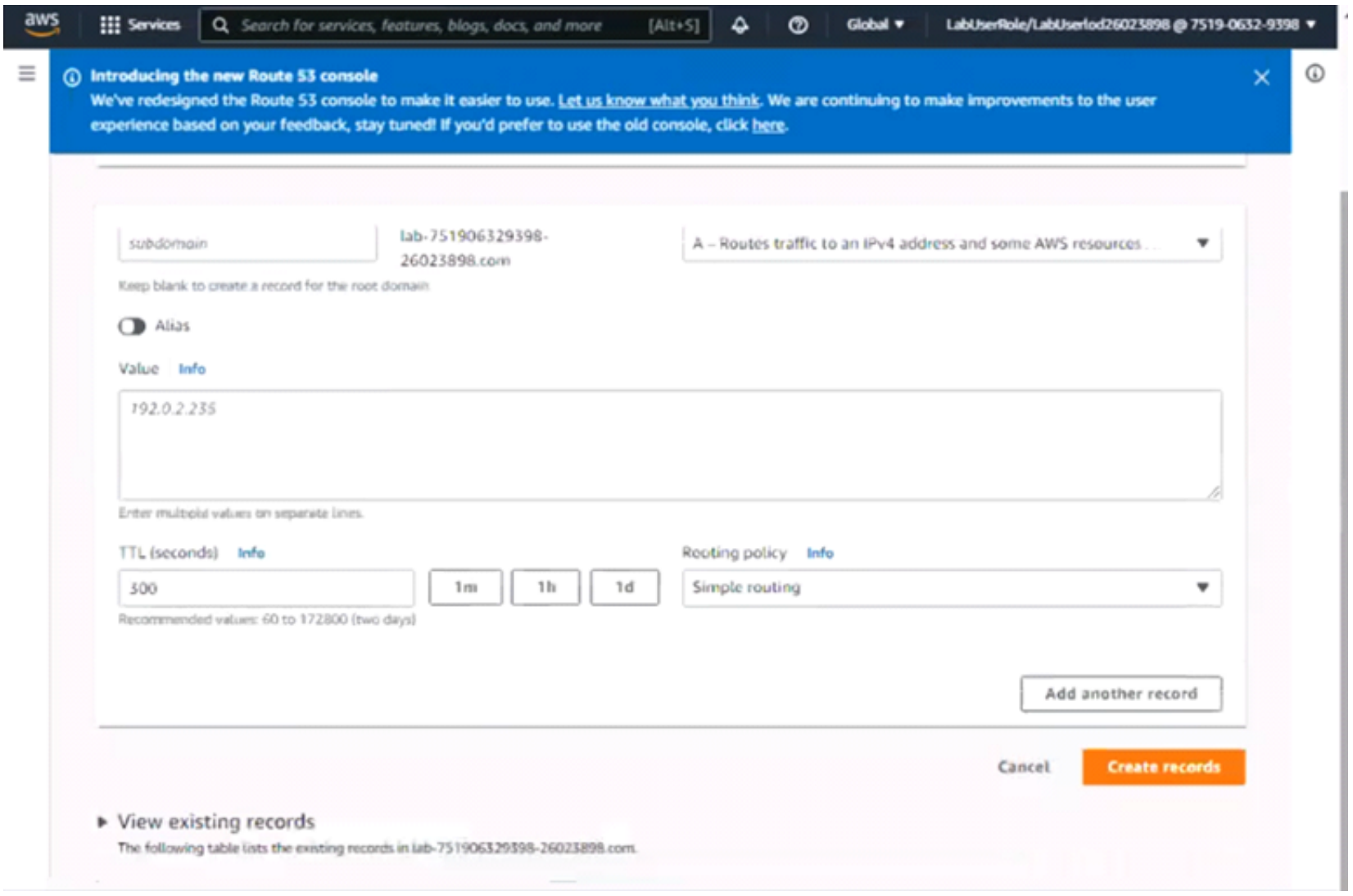

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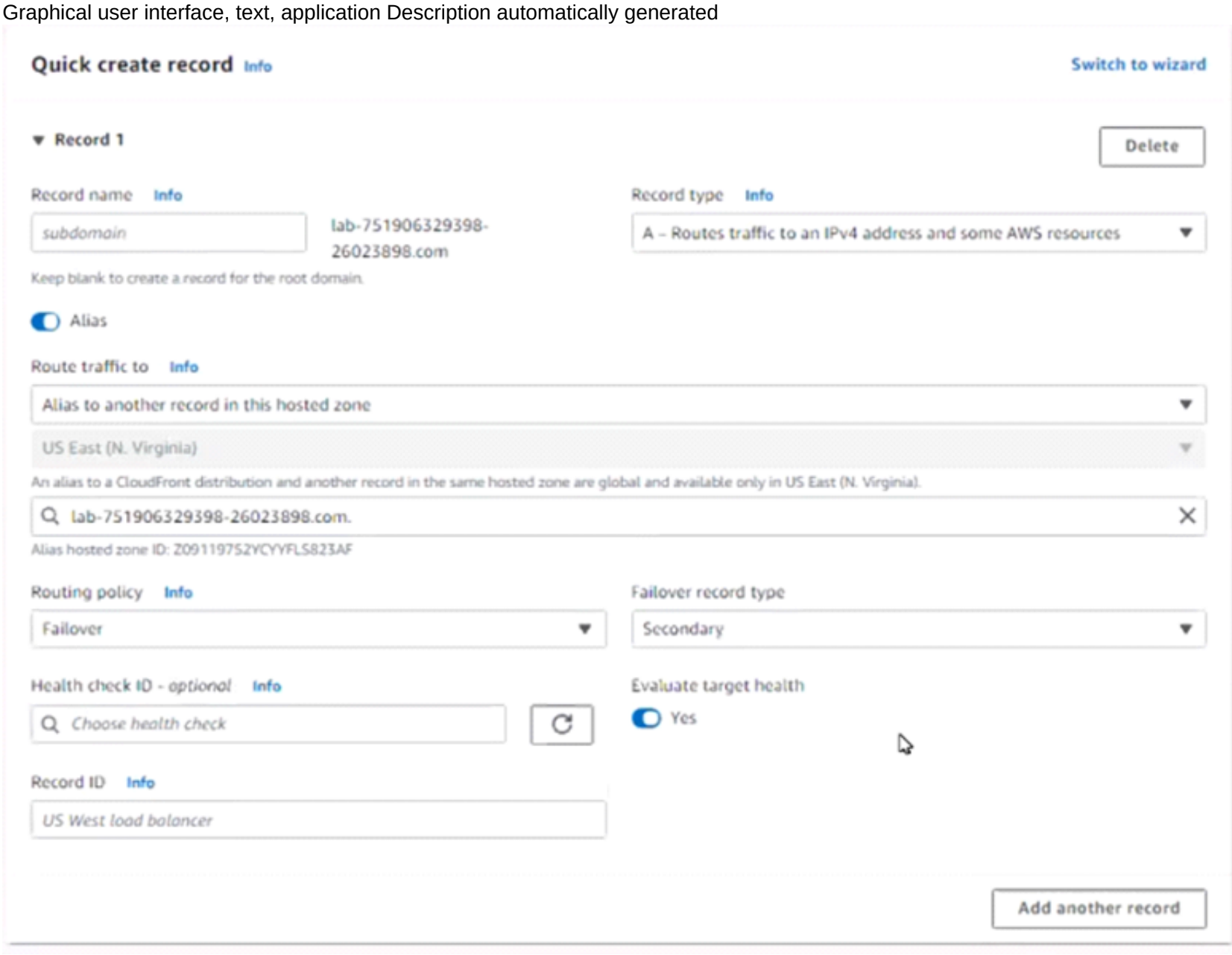

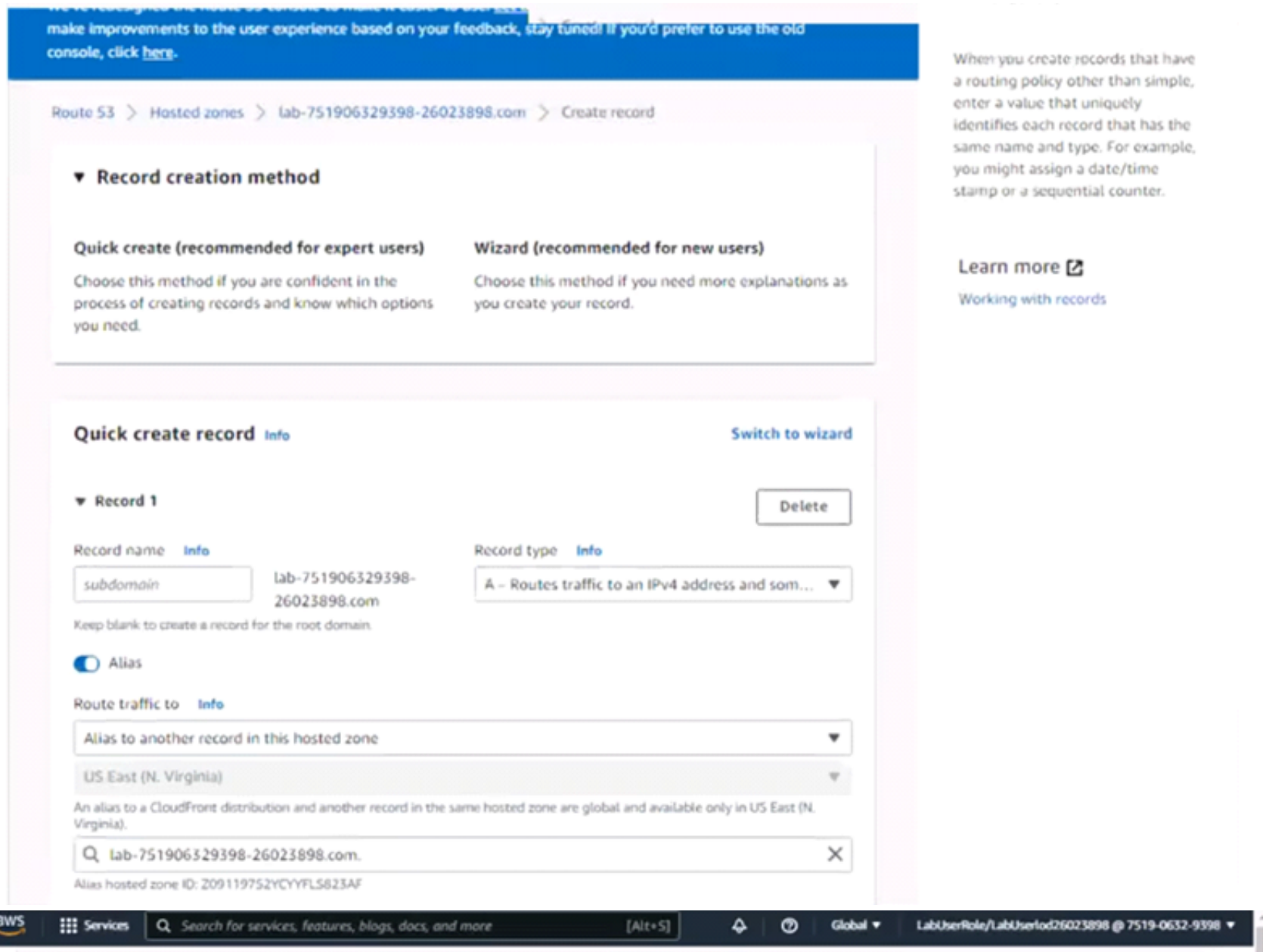

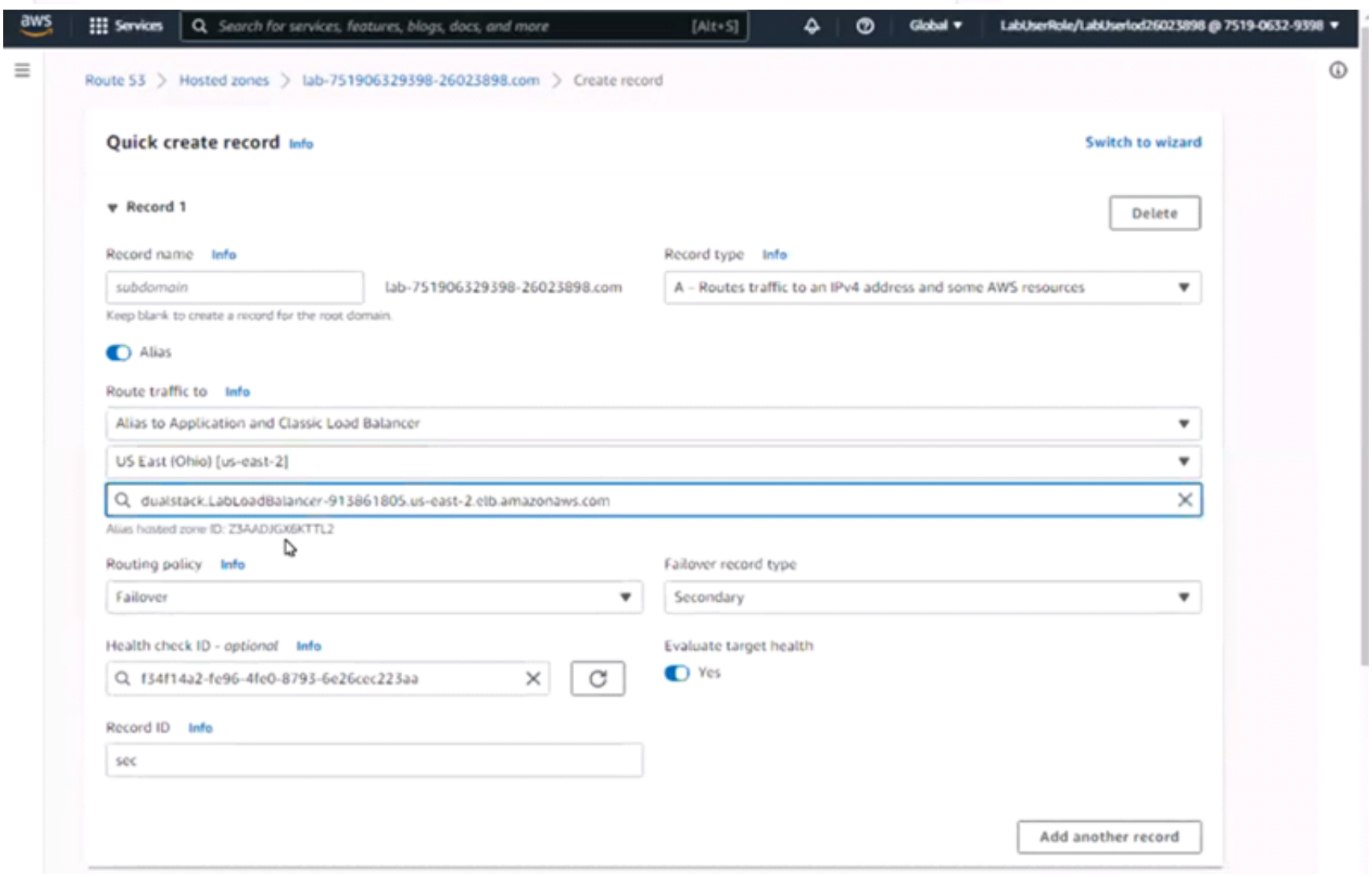

NEW QUESTION 2
- (Exam Topic 1)
A company runs workloads on 90 Amazon EC2 instances in the eu-west-1 Region in an AWS account. In 2 months, the company will migrate the workloads from eu-west-1 to the eu-west-3 Region.
The company needs to reduce the cost of the EC2 instances. The company is willing to make a 1-year commitment that will begin next week. The company must choose an EC2 Instance purchasing option that will provide discounts for the 90 EC2 Instances regardless of Region during the 1-year period. Which solution will meet these requirements?

A. Purchase EC2 Standard Reserved Instances.
B. Purchase an EC2 Instance Savings Plan.
C. Purchase EC2 Convertible Reserved Instances.
D. Purchase a Compute Savings Plan.

Answer: B

NEW QUESTION 3
- (Exam Topic 1)
A company needs to restrict access to an Amazon S3 bucket to Amazon EC2 instances in a VPC only. All traffic must be over the AWS private network.
What actions should the SysOps administrator take to meet these requirements?

A. Create a VPC endpoint for the S3 bucket, and create an IAM policy that conditionally limits all S3 actions on the bucket to the VPC endpoint as the source.
B. Create a VPC endpoint for the S3 bucket, and create an S3 bucket policy that conditionally limits all S3 actions on the bucket to the VPC endpoint as the source.
C. Create a service-linked role for Amazon EC2 that allows the EC2 instances to interact directly with Amazon S3, and attach an IAM policy to the role that allows the EC2 instances full access to the S3 bucket.
D. Create a NAT gateway in the VPC, and modify the VPC route table to route all traffic destined for Amazon S3 through the NAT gateway.

Answer: B

Explanation:
While IAM policy (letter A) also can be used, it does not enforce everyone. The only option that enforces everyone is policy configured directly in the bucket S3.

NEW QUESTION 4
- (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 tabl
B. Assign the access keys to the EC2 instance profile.
C. Create an EC2 key pair to access the DynamoDB tabl
D. Assign the key pair to the EC2 instance profile.
E. Create an IAM user to access the DynamoDB tabl
F. Assign the IAM user to the EC2 instance profile.
G. Create an IAM role to access the DynamoDB tabl
H. Assign the IAM role to the EC2 instance profile.

Answer: D

NEW QUESTION 5
- (Exam Topic 1)
A compliance learn requites all administrator passwords for Amazon RDS DB instances to be changed at least annually.
Which solution meets this requirement in the MOST operationally efficient manner?

A. Store the database credentials in AWS Secrets Manage
B. Configure automatic rotation for the secret every 365 days.
C. Store the database credentials as a parameter In the RDS parameter grou
D. Create a database trigger to rotate the password every 365 days.
E. Store the database credentials in a private Amazon S3 bucke
F. Schedule an AWS Lambda function to generate a new set of credentials every 365 days.
G. Store the database credentials in AWS Systems Manager Parameter Store as a secure string parameter.Configure automatic rotation for the parameter every 365 days.

Answer: A

NEW QUESTION 6
- (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

NEW QUESTION 7
- (Exam Topic 1)
A company's SysOps administrator must ensure that all Amazon EC2 Windows instances that are launched in an AWS account have a third-party agent installed. The third-party agent has an msi package. The company uses AWS Systems Manager for patching, and the Windows instances are tagged appropriately. The third-party agent required periodic updates as new versions are released. The SysOps administrator must deploy these updates automatically
Which combination of steps will meet these requirements with the LEAST operational effort? (Seed TWO.) Create a Systems Manager Distributor package for the third-party agent.

A. Make sure that Systems Manager Inventory Is configure
B. If Systems Manager Inventory is not configured, set up a new inventory tor instances that is based on the appropriate tag value for Windows.

C. Create a Systems Manager State Manager association to run the AWS-RunRemoteScript document.Populate the details of the third-party agent packag
D. Specify instance tags based on the appropriate tag value for Windows with a schedule of 1 day
E. Create a Systems Manager State Manager- association to run the AWS-ConfigureAWSPackage documen
F. Populate the details of the third-party agent packag
G. Specify instance tags based on the appropriate tag value for Windows with a schedule of 1 day
H. Create a Systems Manager Opsitem with the tag value for Windows Attach the Systems Manager Distributor package to the Opsite
I. Create a maintenance window that is specific to the package deployment Configure the maintenance window to cover 24 hours a day.

Answer: AD

Explanation:
https://docs.aws.amazon.com/systems-manager/latest/userguide/distributor-working-with-packages-deploy.html

NEW QUESTION 8
- (Exam Topic 1)
A SysOps administrator configuring AWS Client VPN to connect use's on a corporate network to AWS resources mat are running in a VPC According to compliance requirements, only traffic that is destined for the VPC can travel across the VPN tunnel.
How should the SysOps administrator configure Client VPN to meet these requirements?

A. Associate the Client VPN endpoint with a private subnet that has an internet route through a NAT gateway.
B. On the Client VPN endpoint, turns on the split-tunnel option.
C. On the Client VPN endpoint, specify DNS server IP addresses
D. Select a private certificate to use as the identity certificate tor the VPN client.

Answer: C

NEW QUESTION 9
- (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 GuardDuly 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 10
- (Exam Topic 1)
An errant process is known to use an entire processor and run at 100% A SysOps administrator wants to automate restarting the instance once the problem occurs for more than 2 minutes
How can this be accomplished?

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

Answer: B

NEW QUESTION 10
- (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 12
- (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 SSLTLS 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 SSLTLS 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 SSLTLS certificate to listener port 443 Create a rule to redirect requests from port 80 to port 443

Answer: B

NEW QUESTION 15
- (Exam Topic 1)
An errant process is known to use an entire processor and run at 100%. A SysOps administrator wants to automate restarting the instance once the problem occurs for more than 2 minutes.
How can this be accomplished?

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

Answer: B

NEW QUESTION 20
- (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 23
- (Exam Topic 1)
A company needs to take an inventory of applications that are running on multiple Amazon EC2 instances. The company has configured users and roles with the appropriate permissions for AWS Systems Manager. An updated version of Systems Manager Agent has been installed and is running on every instance. While configuring an inventory collection, a SysOps administrator discovers that not all the instances in a single subnet are managed by Systems Manager.
What must the SysOps administrator do to fix this issue?

A. Ensure that all the EC2 instances have the correct tags for Systems Manager access.
B. Configure AWS Identity and Access Management Access Analyzer to determine and automatically remediate the issue.
C. Ensure that all the EC2 instances have an instance profile with Systems Manager access.
D. Configure Systems Manager to use an interface VPC endpoint.

Answer: C

Explanation:
Ensuring that all the EC2 instances have an instance profile with Systems Manager access is the most effective way to fix this issue. Having an instance profile with Systems Manager access will allow the SysOps administrator to configure the inventory collection for all the instances in the subnet, regardless of whether or not they are managed by Systems Manager.

NEW QUESTION 28
- (Exam Topic 1)
A company is testing Amazon Elasticsearch Service (Amazon ES) as a solution for analyzing system logs from a fleet of Amazon EC2 instances. During the test phase, the domain operates on a single-node cluster. A SysOps administrator needs to transition the test domain into a highly available production-grade deployment.
Which Amazon ES configuration should the SysOps administrator use to meet this requirement?

A. Use a cluster of four data nodes across two AWS Region
B. Deploy four dedicated master nodes in each Region.
C. Use a cluster of six data nodes across three Availability Zone
D. Use three dedicated master nodes.
E. Use a cluster of six data nodes across three Availability Zone
F. Use six dedicated master nodes.
G. Use a cluster of eight data nodes across two Availability Zone
H. Deploy four master nodes in a failover AWS Region.

Answer: B

NEW QUESTION 33
- (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 VP
B. On the EC2 instances, deploy a custom DNS forwarder that forwards all DNS requests to the on-premises DNS serve
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 endpoin
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 networ
G. Set up a link aggregation group (LAG) that includes the two connection
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 domai
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

NEW QUESTION 35
- (Exam Topic 1)
A software development company has multiple developers who work on the same product. Each developer must have their own development environment, and these development environments must be identical. Each development environment consists of Amazon EC2 instances and an Amazon RDS DB instance. The development environments should be created only when necessary, and they must be terminated each night to minimize costs.
What is the MOST operationally efficient solution that meets these requirements?

A. Provide developers with access to the same AWS CloudFormation template so that they can provision their development environment when necessar
B. Schedule a nightly cron job on each development instance to stop all running processes to reduce CPU utilization to nearly zero.
C. Provide developers with access to the same AWS CloudFormation template so that they can provision their development environment when necessar
D. Schedule a nightly Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function to delete the AWS CloudFormation stacks.
E. Provide developers with CLI commands so that they can provision their own development environment when necessar
F. Schedule a nightly Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function to terminate all EC2 instances and the DB instance.
G. Provide developers with CLI commands so that they can provision their own development environment when necessar
H. Schedule a nightly Amazon EventBridge (Amazon CloudWatch Events) rule to cause AWS CloudFormation to delete all of the development environment resources.

Answer: B

NEW QUESTION 39
- (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. AWSConfig
D. AWS Systems Manager

Answer: C

NEW QUESTION 41
- (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 42
- (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 bucke
B. Create an Amazon CloudFront distribution in each AWS Region, and set the S3 bucket as the origi
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 bucke

E. Create an Amazon CloudFront distribution, and set the S3 bucket as the origi
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 grou
H. Create an Amazon EC2 Auto Scaling group with at least two EC2 instances in the associated target grou
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 Region
L. Create an Amazon EC2 Auto Scaling group in each Region with at least two EC2 instances in each target grou
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 45
- (Exam Topic 1)
A company has a stateful web application that is hosted on Amazon EC2 instances in an Auto Scaling group. The instances run behind an Application Load Balancer (ALB) that has a single target group. The ALB is configured as the origin in an Amazon CloudFront distribution. Users are reporting random logouts from the web application.
Which combination of actions should a SysOps administrator take to resolve this problem? (Select TWO.)

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

Answer: BE

Explanation:
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/Cookies.html
You can configure each cache behavior to do one of the following: Forward all cookies to your origin – CloudFront includes all cookies sent by the viewer when it forwards requests to the origin. https://docs.aws.amazon.com/elasticloadbalancing/latest/application/sticky-sessions.html
By default, an Application Load Balancer routes each request independently to a registered target based on the chosen load-balancing algorithm.

NEW QUESTION 48
- (Exam Topic 1)
A manufacturing company uses an Amazon RDS DB instance to store inventory of all stock items. The company maintains several AWS Lambda functions that interact with the database to add, update, and delete items. The Lambda functions use hardcoded credentials to connect to the database.
A SysOps administrator must ensure that the database credentials are never stored in plaintext and that the password is rotated every 30 days.
Which solution will meet these requirements in the MOST operationally efficient manner?

A. Store the database password as an environment variable for each Lambda functio
B. Create a new Lambda function that is named PasswordRotat
C. Use Amazon EventBridge (Amazon CloudWatch Events) to schedule the PasswordRotate function every 30 days to change the database password and update the environment variable for each Lambda function.
D. Use AWS Key Management Service (AWS KMS) to encrypt the database password and to store the encrypted password as an environment variable for each Lambda functio
E. Grant each Lambda function access to the KMS key so that the database password can be decrypted when require
F. Create a new Lambda function that is named PasswordRotate to change the password every 30 days.
G. Use AWS Secrets Manager to store credentials for the databas
H. Create a Secrets Manager secret, and select the database so that Secrets Manager will use a Lambda function to update the database password automaticall
I. Specify an automatic rotation schedule of 30 day
J. Update each Lambda function to access the database password from SecretsManager.
K. Use AWS Systems Manager Parameter Store to create a secure string to store credentials for the databas
L. Create a new Lambda function called PasswordRotat
M. Use Amazon EventBridge (Amazon CloudWatch Events) to schedule the PasswordRotate function every 30 days to change the database password and to update the secret within Parameter Stor
N. Update each Lambda function to access the database password from Parameter Store.

Answer: C

Explanation:
When you choose to enable rotation, Secrets Manager supports the following Amazon Relational Database Service (Amazon RDS) databases with AWS written and tested Lambda rotation function templates, and full configuration of the rotation process:
Amazon Aurora on Amazon RDS MySQL on Amazon RDS PostgreSQL on Amazon RDS Oracle on Amazon RDS MariaDB on Amazon RDS Microsoft SQL Server on Amazon RDS https://docs.aws.amazon.com/secretsmanager/latest/userguide/intro.html

NEW QUESTION 51
- (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 SOS) 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 55
- (Exam Topic 1)
A company wants to be alerted through email when IAM CreateUser API calls are made within its AWS account.
Which combination of actions should a SysOps administrator take to meet this requirement? (Choose two.)

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

Answer: AD

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

NEW QUESTION 56
- (Exam Topic 1)
A company runs an application on Amazon EC2 instances. The EC2 instances are in an Auto Scaling group and run behind an Application Load Balancer (ALB). The application experiences errors when total requests exceed 100 requests per second. A SysOps administrator must collect information about total requests for a 2-week period to determine when requests exceeded this threshold.
What should the SysOps administrator do to collect this data?

A. Use the ALB’s RequestCount metri
B. Configure a time range of 2 weeks and a period of 1 minute.Examine the chart to determine peak traffic times and volumes.
C. Use Amazon CloudWatch metric math to generate a sum of request counts for all the EC2 instances over a 2-week perio
D. Sort by a 1-minute interval.
E. Create Amazon CloudWatch custom metrics on the EC2 launch configuration templates to create aggregated request metrics across all the EC2 instances.
F. Create an Amazon EventBridge (Amazon CloudWatch Events) rul
G. Configure an EC2 event matching pattern that creates a metric that is based on EC2 request
H. Display the data in a graph.

Answer: A

Explanation:
Using the ALB’s RequestCount metric will allow the SysOps administrator to collect information about total requests for a 2-week period and determine when requests exceeded the threshold of 100 requests per second. Configuring a time range of 2 weeks and a period of 1 minute will ensure that the data can be accurately examined to determine peak traffic times and volumes.

NEW QUESTION 59
- (Exam Topic 1)
A company updates its security policy to clarify cloud hosting arrangements for regulated workloads. Workloads that are identified as sensitive must run on hardware that is not shared with other customers or with other AWS accounts within the company.
Which solution will ensure compliance with this policy?

A. Deploy workloads only to Dedicated Hosts.
B. Deploy workloads only to Dedicated Instances.
C. Deploy workloads only to Reserved Instances.
D. Place all instances in a dedicated placement group.

Answer: A

Explanation:
Dedicated Hosts are physical servers that are dedicated to a single customer, ensuring that the customer’s workloads are not shared with other customers or with other AWS accounts within the company. This will ensure that the company’s security policy is followed and that sensitive workloads are running on hardware that is not shared with other customers or with other AWS accounts within the company.

NEW QUESTION 62
- (Exam Topic 1)
A company plans to migrate several of its high performance computing (MPC) virtual machines (VMs) to Amazon EC2 instances on AWS. A SysOps administrator must identify a placement group for this deployment. The strategy must minimize network latency and must maximize network throughput between the HPC VMs.
Which strategy should the SysOps administrator choose to meet these requirements?

A. Deploy the instances in a cluster placement group in one Availability Zone.

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

Answer: A

NEW QUESTION 63
- (Exam Topic 1)
A company has attached the following policy to an IAM user:

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

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

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

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

Answer: C

NEW QUESTION 68
- (Exam Topic 1)
A compliance team requires all administrator passwords tor Amazon RDS DB instances to be changed at toast annually
Which solution meets this requirement in the MOST operationally efficient manned

A. Store the database credentials in AWS Secrets Manager Configure automate rotation for the secret every 365 days

B. Store the database credentials as a parameter in the RDS parameter group Create a database trigger to rotate the password every 365 days
C. Store the database credentials in a private Amazon S3 bucket Schedule an AWS Lambda function to generate a new set of credentials every 365 days
D. Store the database credentials in AWS Systems Manager Parameter Store as a secure string parameter Configure automatic rotation for the parameter every 365 days

Answer: A

NEW QUESTION 73
- (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 75
- (Exam Topic 1)
A company is planning to host its stateful web-based applications on AWS A SysOps administrator is using an Auto Scaling group of Amazon EC2 instances The web applications will run 24 hours a day 7 days a week throughout the year The company must be able to change the instance type within the same instance family later in the year based on the traffic and usage patterns
Which EC2 instance purchasing option will meet these requirements MOST cost-effectively?

A. Convertible Reserved Instances
B. On-Demand instances
C. Spot instances
D. Standard Reserved instances

Answer: A

Explanation:
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ri-convertible-exchange.html

NEW QUESTION 79
- (Exam Topic 1)
A company is running an application on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The EC2 instances are launched by an Auto Scaling group and are automatically registered in a target group. A SysOps administrator must set up a notification to alert application owners when targets fail health checks.
What should the SysOps administrator do to meet these requirements?

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

Answer: A

NEW QUESTION 84
- (Exam Topic 1)
A Sysops administrator creates an Amazon Elastic Kubernetes Service (Amazon EKS) cluster that uses AWS Fargate. The cluster is deployed successfully. The Sysops administrator needs to manage the cluster by using the kubect1 command line tool.
Which of the following must be configured on the Sysops administrator's machine so that kubect1 can communicate with the cluster API server?

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

Answer: A

Explanation:
The kubeconfig file is a configuration file used to store cluster authentication information, which is required to make requests to the Amazon EKS cluster API server. The kubeconfig file will need to be configured on the SysOps administrator's machine in order for kubectl to be able to communicate with the cluster API server.
https://aws.amazon.com/blogs/developer/running-a-kubernetes-job-in-amazon-eks-on-aws-fargate-using-aws-ste

NEW QUESTION 85
- (Exam Topic 1)
A SysOps administrator needs to track the costs of data transfer between AWS Regions. The SysOps administrator must implement a solution to send alerts to an email distribution list when transfer costs reach 75% of a specific threshold.

What should the SysOps administrator do to meet these requirements?

A. Create an AWS Cost and Usage Repor
B. Analyze the results in Amazon Athen
C. Configure an alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when costs reach 75% of the threshol
D. Subscribe the email distribution list to the topic.
E. Create an Amazon CloudWatch billing alarm to detect when costs reach 75% of the threshold.Configure the alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topi
F. Subscribe the email distribution list to the topic.
G. Use AWS Budgets to create a cost budget for data transfer cost
H. Set an alert at 75% of the budgeted amoun
I. Configure the budget to send a notification to the email distribution list when costs reach 75% of the threshold.
J. Set up a VPC flow lo
K. Set up a subscription filter to an AWS Lambda function to analyze data transfer.Configure the Lambda function to send a notification to the email distribution list when costs reach 75% of the threshold.

Answer: B

Explanation:
The reason is that it uses the Amazon CloudWatch billing alarm which is a built-in service specifically designed to monitor and alert on cost usage of your AWS account, which makes it a more suitable solution for this use case. The alarm can be configured to detect when costs reach 75% of the threshold and when it is triggered, it can publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. The email distribution list can be subscribed to the topic, so that they will receive the alerts when costs reach 75% of the threshold.
AWS Budgets allows you to track and manage your costs, but it doesn't specifically focus on data transfer costs between regions, and it might not provide as much granularity as CloudWatch Alarms.

NEW QUESTION 87
- (Exam Topic 1)
A Sysops administrator needs to configure automatic rotation for Amazon RDS database credentials. The credentials must rotate every 30 days. The solution must integrate with Amazon RDS.
Which solution will meet these requirements with the LEAST operational overhead?

A. Store the credentials in AWS Systems Manager Parameter Store as a secure strin
B. Configure automatic rotation with a rotation interval of 30 days.
C. Store the credentials in AWS Secrets Manage
D. Configure automatic rotation with a rotation interval of 30 days.
E. Store the credentials in a file in an Amazon S3 bucke
F. Deploy an AWS Lambda function to automatically rotate the credentials every 30 days.
G. Store the credentials in AWS Secrets Manage
H. Deploy an AWS Lambda function to automatically rotate the credentials every 30 days.

Answer: B

Explanation:
Storing the credentials in AWS Secrets Manager and configuring automatic rotation with a rotation interval of 30 days is the most efficient way to meet the requirements with the least operational overhead. AWS Secrets Manager automatically rotates the credentials at the specified interval, so there is no need for an additional AWS Lambda function or manual rotation. Additionally, Secrets Manager is integrated with Amazon RDS, so the credentials can be easily used with the RDS database.

NEW QUESTION 91
- (Exam Topic 1)
A SysOps administrator has Nocked 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 bucke
C. Set up Amazon Simple Notification Service (Amazon SNS) to send notifications
D. Enable S3 Event notified tons for each S3 bucke
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 Confi
G. Subscribe the AWS Config rule to an Amazon Simple Notification Service (Amazon SNS) topic.

Answer: D

NEW QUESTION 93
- (Exam Topic 1)
A SysOps administrator is trying to set up an Amazon Route 53 domain name to route traffic to a website hosted on Amazon S3. The domain name of the website is www.anycompany.com and the S3 bucket name is anycompany-static. After the record set is set up in Route 53, the domain name www.anycompany.com does not seem to work, and the static website is not displayed in the browser.
Which of the following is a cause of this?

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

Answer: D

NEW QUESTION 94
- (Exam Topic 1)
A company is tunning a website on Amazon EC2 instances thai are in an Auto Scaling group When the website traffic increases, additional instances lake several minutes to become available because ot 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 = scrits are already pre-installed, so no need to complete boot scripts in boot process. https://aws.amazon.com/image-builder/

NEW QUESTION 96
- (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 98
- (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 accoun
B. Use the organization as the source.Retrieve the compliance data from the aggregator.
C. Create an AWS Config aggregator in each accoun
D. Use an S3 bucket in an aggregator account as the destinatio
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 accoun
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 102
- (Exam Topic 1)
A company runs its entire suite of applications on Amazon EC2 instances. The company plans to move the applications to containers and AWS Fargate. Within 6 months, the company plans to retire its EC2 instances and use only Fargate. The company has been able to estimate its future Fargate costs.
A SysOps administrator needs to choose a purchasing option to help the company minimize costs. The SysOps administrator must maximize any discounts that are available and must ensure that there are no unused reservations.
Which purchasing option will meet these requirements?

A. Compute Savings Plans for 1 year with the No Upfront payment option
B. Compute Savings Plans for 1 year with the Partial Upfront payment option
C. EC2 Instance Savings Plans for 1 year with the All Upfront payment option
D. EC2 Reserved Instances for 1 year with the Partial Upfront payment option

Answer: C

NEW QUESTION 103
- (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 105
- (Exam Topic 1)
A company uses AWS Cloud Formation 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 CloudFormaiion change set.
B. Develop CloudFormation macros.
C. Develop CloudFormation nested stacks.
D. Develop CloudFormation stack sets.

Answer: C

NEW QUESTION 109
- (Exam Topic 1)
A company has a simple web application that runs on a set of Amazon EC2 instances behind an Elastic Load Balancer in the eu-west-2 Region. Amazon Route 53 holds a DNS record for the application with a simple touting policy. Users from all over the world access the application through their web browsers.
The company needs to create additional copies of the application in the us-east-1 Region and in the ap-south-1 Region. The company must direct users to the Region that provides the fastest response times when the users load the application.
What should a SysOps administrator do to meet these requirements?

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

Answer: B

NEW QUESTION 114
- (Exam Topic 1)
A company is using Amazon CloudFront to serve static content for its web application to its users. The CloudFront distribution uses an existing on-premises website as a custom origin.
The company requires the use of TLS between CloudFront and the origin server. This configuration has worked as expected for several months. However, users are now experiencing HTTP 502 (Bad Gateway) errors when they view webpages that include content from the CloudFront distribution.
What should a SysOps administrator do to resolve this problem?

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

Answer: A

Explanation:
HTTP 502 errors from CloudFront can occur because of the following reasons:
There's an SSL negotiation failure because the origin is using SSL/TLS protocols and ciphers that aren't supported by CloudFront.
There's an SSL negotiation failure because the SSL certificate on the origin is expired or invalid, or because the certificate chain is invalid.
There's a host header mismatch in the SSL negotiation between your CloudFront distribution and the custom origin.
The custom origin isn't responding on the ports specified in the origin settings of the CloudFront distribution. The custom origin is ending the connection to CloudFront too quickly.
https://aws.amazon.com/premiumsupport/knowledge-center/resolve-cloudfront-connection-error/

NEW QUESTION 115
- (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 ElPCreated 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 117
- (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 119
- (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 hou
B. Purchase a Compute Savings Plan.
C. Establish the compute expense by the hou
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 123
- (Exam Topic 1)
A SysOps Administrator runs a web application that is using a microservices approach whereby different responsibilities of the application have been divided in a separate microservice running on a different Amazon EC2 instance. The administrator has been tasked with reconfiguring the infrastructure to support this approach.
How can the administrator accomplish this with the LEAST administrative overhead?

A. Use Amazon CloudFront to log the URL and forward the request.
B. Use Amazon CloudFront to rewrite the header based on the microservice and forward the request.
C. Use an Application Load Balancer (ALB) and do path-based routing.
D. Use a Network Load Balancer (NLB) and do path-based routing.

Answer: C

Explanation:
https://aws.amazon.com/premiumsupport/knowledge-center/elb-achieve-path-based-routing-alb/

NEW QUESTION 124
- (Exam Topic 1)
A company's SysOps administrator needs to change the AWS Support plan for one of the company's AWS accounts. The account has multi-factor authentication (MFA) activated, and the MFA device is lost.
What should the SysOps administrator do to sign in?

A. Sign in as a root user by using email and phone verificatio
B. Set up a new MFA devic
C. Change the root user password.
D. Sign in as an 1AM user with administrator permission
E. Resynchronize the MFA token by using the 1AM console.
F. Sign in as an 1AM user with administrator permission
G. Reset the MFA device for the root user by adding a new device.
H. Use the forgot-password process to verify the email addres
I. Set up a new password and MFA device.

Answer: A

NEW QUESTION 129
- (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 poo
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 133
- (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 135
- (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 instanc
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 instanc
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 instanc
F. Use RDS Proxy to handle the increases in database connections.
G. Configure AWS Secrets Manager to automatically rotate the credentials for the DB instanc
H. Use RDS read replicas to handle the increases in database connections.

Answer: A

NEW QUESTION 138
- (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 140
- (Exam Topic 1)
A company is storing media content in an Amazon S3 bucket and uses Amazon CloudFront to distribute the content to its users. Due to licensing terms, the company is not authorized to distribute the content in some countries. A SysOps administrator must restrict access to certain countries.
What is the MOST operationally efficient solution that meets these requirements?

A. Configure the S3 bucket policy to deny the GetObject operation based on the S3:LocationConstraint condition.
B. Create a secondary origin access identity (OAI). Configure the S3 bucket policy to prevent access from unauthorized countries.
C. Enable the geo restriction feature in the CloudFront distribution to prevent access from unauthorized countries.
D. Update the application to generate signed CloudFront URLs only for IP addresses in authorized countries.

Answer: C

NEW QUESTION 142
- (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 tor both the domain and subdomain.
C. Create two S3 buckets named example.com and www.exdmpte.co
D. Configure the subdomain bucket to redirect requests to the domain bucket.
E. Create two S3 buckets named http//example.com and http//" exampte.co
F. Configure the wildcard (') bucket to redirect requests to the domain bucket.

Answer: C

NEW QUESTION 146
- (Exam Topic 1)
A company's public website is hosted in an Amazon S3 bucket in the us-east-1 Region behind an Amazon CloudFront distribution. The company wants to ensure that the website is protected from DDoS attacks. A SysOps administrator needs to deploy a solution that gives the company the ability to maintain control over the rate limit at which DDoS protections are applied.
Which solution will meet these requirements?

A. Deploy a global-scoped AWS WAF web ACL with an allow default actio
B. Configure an AWS WAF rate-based rule to block matching traffi
C. Associate the web ACL with the CloudFront distribution.
D. Deploy an AWS WAF web ACL with an allow default action in us-east-1. Configure an AWS WAF rate-based rule to block matching traffi
E. Associate the web ACL with the S3 bucket.
F. Deploy a global-scoped AWS WAF web ACL with a block default actio
G. Configure an AWS WAF rate-based rule to allow matching traffi
H. Associate the web ACL with the CloudFront distribution.
I. Deploy an AWS WAF web ACL with a block default action in us-east-1. Configure an AWS WAF rate-based rule to allow matching traffi
J. Associate the web ACL with the S3 bucket.

Answer: B

NEW QUESTION 150
- (Exam Topic 1)
A company has a mobile app that uses Amazon S3 to store images The images are popular for a week, and then the number of access requests decreases over time The images must be highly available and must be immediately accessible upon request A SysOps administrator must reduce S3 storage costs for the company Which solution will meet these requirements MOST cost-effectively?

A. Create an S3 Lifecycle policy to transition the images to S3 Glacier after 7 days
B. Create an S3 Lifecycle policy to transition the images to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 7 days
C. Create an S3 Lifecycle policy to transition the images to S3 Standard after 7 days
D. Create an S3 Lifecycle policy to transition the images to S3 Standard-Infrequent Access (S3 Standard-IA) after 7 days

Answer: D

NEW QUESTION 153
- (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 tiles into the destination S3 bucket m toe 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 tor He 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 154
- (Exam Topic 1)
An application runs on multiple Amazon EC2 instances in an Auto Scaling group The Auto Scaling group is configured to use the latest version of a launch template A SysOps administrator must devise a solution that centrally manages the application logs and retains the logs for no more than 90 days
Which solution will meet these requirements?

A. Launch an Amazon Machine Image (AMI) that is preconfigured with the Amazon CloudWatch Logs agent to send logs to an Amazon S3 bucket Apply a 90-day S3 Lifecycle policy on the S3 bucket to expire the application logs
B. Launch an Amazon Machine Image (AMI) that is preconfigured with the Amazon CloudWatch Logs agent to send logs to a log group Create an Amazon EventBridge (Amazon CloudWatch Events) scheduled rule to perform an instance refresh every 90 days
C. Update the launch template user data to install and configure the Amazon CloudWatch Logs agent to send logs to a log group Configure the retention period on the log group to be 90 days
D. Update the launch template user data to install and configure the Amazon CloudWatch Logs agent to send logs to a log group Set the log rotation configuration of the EC2 instances to 90 days

Answer: C

NEW QUESTION 155
- (Exam Topic 1)
A company stores critical data m 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 tor 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 160
- (Exam Topic 1)
A company is migrating its production file server to AWS. All data that is stored on the file server must remain accessible if an Availability Zone becomes unavailable or when system maintenance is performed. Users must be able to interact with the file server through the SMB protocol. Users also must have the ability to manage file permissions by using Windows ACLs.
Which solution will net these requirements?

A. Create a single AWS Storage Gateway file gateway.
B. Create an Amazon FSx for Windows File Server Multi-AZ file system.
C. Deploy two AWS Storage Gateway file gateways across two Availability Zone
D. Configure an Application Load Balancer in front of the file gateways.
E. Deploy two Amazon FSx for Windows File Server Single-AZ 2 file system
F. Configure Microsoft Distributed File System Replication (DFSR).

Answer: B

Explanation:
https://aws.amazon.com/fsx/windows/

NEW QUESTION 164
- (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 167
- (Exam Topic 1)
A company has mandated the use of multi-factor authentication (MFA) for all IAM users, and requires users to make all API calls using the CLI. However. users are not prompted to enter MFA tokens, and are able to run CLI commands without MFA. In an attempt to enforce MFA, the company attached an IAM policy to all users that denies API calls that have not been authenticated with MFA.
What additional step must be taken to ensure that API calls are authenticated using MFA?

A. Enable MFA on IAM roles, and require IAM users to use role credentials to sign API calls.
B. Ask the IAM users to log into the AWS Management Console with MFA before making API calls using the CLI.
C. Restrict the IAM users to use of the console, as MFA is not supported for CLI use.
D. Require users to use temporary credentials from the get-session token command to sign API calls.

Answer: D

NEW QUESTION 170
- (Exam Topic 1)
An ecommerce company uses an Amazon ElastiCache for Memcached cluster for in-memory caching of popular product queries on the shopping site. When viewing recent Amazon CloudWatch metrics data for the ElastiCache cluster, the SysOps administrator notices a large number of evictions.
Which of the following actions will reduce these evictions? (Choose two.)

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

Answer: AC

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

NEW QUESTION 173
- (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 IAMuse
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 rol
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 175
- (Exam Topic 1)
A company has deployed a web application in a VPC that has subnets in three Availability Zones. The company launches three Amazon EC2 instances from an EC2 Auto Scaling group behind an Application Load Balancer (ALB).
A SysOps administrator notices that two of the EC2 instances are in the same Availability Zone, rather than being distributed evenly across all three Availability Zones. There are no errors in the Auto Scaling group's activity history.
What is the MOST likely reason for the unexpected placement of EC2 instances?

A. One Availability Zone did not have sufficient capacity for the requested EC2 instance type.
B. The ALB was configured for only two Availability Zones.
C. The Auto Scaling group was configured for only two Availability Zones.
D. Amazon EC2 Auto Scaling randomly placed the instances in Availability Zones.

Answer: C

Explanation:
the autoscaling group is responsable to add the instances in the subnets

NEW QUESTION 179
- (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 182
- (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 delivere
B. Configure the Lambda function to compute an MD5 hash check on the file and store the result in an Amazon DynamoDB tabl
C. The security team can use the values that are stored in DynamoDB to verify the integrity of the delivered files.
D. Create an AWS Lambda function that is invoked each time a new file is delivered to the CloudTrail bucke
E. Configure the Lambda function to compute an MD5 hash check on the file and store the result as a tag in an Amazon S3 objec
F. The security team can use the information in the tag to verify the integrity of the delivered files.
G. Enable the CloudTrail file integrity feature on an Amazon S3 bucke
H. Create an IAM policy that grants the security team access to the file integrity logs that are stored in the S3 bucket.
I. Enable the CloudTrail file integrity feature on the trai
J. The security team can use the digest file that is created by CloudTrail to verify the integrity of the delivered files.

Answer: D

Explanation:
https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html "When you enable log file integrity validation, CloudTrail creates a hash for every log file that it delivers.
Every hour, CloudTrail also creates and delivers a file that references the log files for the last hour and contains a hash of each. This file is called a digest file.
Validated log files are invaluable in security and forensic investigations"

NEW QUESTION 187
- (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 limes the process stalls due to installation errors.
The SysOps administrator must modify the CloudFormation template so if the process stalls, the entire stack will tail and roil 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 192
- (Exam Topic 1)

A company must ensure that any objects uploaded to an S3 bucket are encrypted. Which of the following actions will meet this requirement? (Choose two.)

A. Implement AWS Shield to protect against unencrypted objects stored in S3 buckets.
B. Implement Object access control list (ACL) to deny unencrypted objects from being uploaded to the S3 bucket.
C. Implement Amazon S3 default encryption to make sure that any object being uploaded is encrypted before it is stored.
D. Implement Amazon Inspector to inspect objects uploaded to the S3 bucket to make sure that they are encrypted.
E. Implement S3 bucket policies to deny unencrypted objects from being uploaded to the buckets.

Answer: CE

Explanation:
https://docs.aws.amazon.com/AmazonS3/latest/userguide/default-bucket-encryption.html
You can set the default encryption behavior on an Amazon S3 bucket so that all objects are encrypted when they are stored in the bucket. The objects are encrypted using server-side encryption with either Amazon S3-managed keys (SSE-S3) or AWS Key Management Service (AWS KMS) customer master keys (CMKs).
https://aws.amazon.com/blogs/security/how-to-prevent-uploads-of-unencrypted-objects-to-amazon-s3/ How to Prevent Uploads of Unencrypted Objects to Amazon S3#
By using an S3 bucket policy, you can enforce the encryption requirement when users upload objects, instead of assigning a restrictive IAM policy to all users.

NEW QUESTION 197
- (Exam Topic 1)
A SysOps administrator is unable to launch Amazon EC2 instances into a VPC because there are no available private IPv4 addresses in the VPC. Which combination of actions must the SysOps administrator take to launch the instances? (Select TWO.)

A. Associate a secondary IPv4 CIDR block with the VPC
B. Associate a primary IPv6 CIDR block with the VPC
C. Create a new subnet for the VPC
D. Modify the CIDR block of the VPC
E. Modify the CIDR block of the subnet that is associated with the instances

Answer: AD

NEW QUESTION 201
- (Exam Topic 1)
A SysOps administrator is unable to authenticate an AWS CLI call to an AWS service Which of the following is the cause of this issue?

A. The IAM password is incorrect
B. The server certificate is missing
C. The SSH key pair is incorrect
D. There is no access key

Answer: C

NEW QUESTION 203
- (Exam Topic 1)
A company has an AWS Cloud Formation template that creates an Amazon S3 bucket. A user authenticates to the corporate AWS account with their Active Directory credentials and attempts to deploy the Cloud Formation template. However, the stack creation fails.
Which factors could cause this failure? (Select TWO.)

A. The user's IAM policy does not allow the cloudformation:CreateStack action.
B. The user's IAM policy does not allow the cloudformation:CreateStackSet action.
C. The user's IAM policy does not allow the s3:CreateBucket action.
D. The user's IAM policy explicitly denies the s3:ListBucket action.
E. The user's IAM policy explicitly denies the s3:PutObject action

Answer: AC

NEW QUESTION 208
- (Exam Topic 1)
A software company runs a workload on Amazon EC2 instances behind an Application Load Balancer (ALB) A SysOcs administrator needs to define a custom health check for the EC2 instances. What is the MOST operationally efficient solution?

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

Answer: B

NEW QUESTION 210
- (Exam Topic 1)
An organization created an Amazon Elastic File System (Amazon EFS) volume with a file system ID of
fs-85ba4Kc. and it is actively used by 10 Amazon EC2 hosts The organization has become concerned that the file system is not encrypted
How can this be resolved?

A. Enable encryption on each host's connection to the Amazon EFS volume Each connection must be recreated for encryption to take effect
B. Enable encryption on the existing EFS volume by using the AWS Command Line Interface
C. Enable encryption on each host's local drive Restart each host to encrypt the drive

D. Enable encryption on a newly created volume and copy all data from the original volume Reconnect each host to the new volume

Answer: D

Explanation:
https://docs.aws.amazon.com/efs/latest/ug/encryption.html
Amazon EFS supports two forms of encryption for file systems, encryption of data in transit and encryption at rest. You can enable encryption of data at rest when creating an Amazon EFS file system. You can enable encryption of data in transit when you mount the file system.

NEW QUESTION 212
- (Exam Topic 1)
While setting up an AWS managed VPN connection, a SysOps administrator creates a customer gateway resource in AWS. The customer gateway device resides in a data center with a NAT gateway in front of it.
What address should be used to create the customer gateway resource?

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

Answer: D

NEW QUESTION 216
- (Exam Topic 1)
While setting up an AWS managed VPN connection, a SysOps administrator creates a customer gateway resource in AWS The customer gateway device resides in a data center with a NAT gateway in front of it
What address should be used to create the customer gateway resource?

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

Answer: D

NEW QUESTION 217
- (Exam Topic 1)
A company is attempting to manage its costs in the AWS Cloud. A SysOps administrator needs specific company-defined tags that are assigned to resources to appear on the billing report.
What should the SysOps administrator do to meet this requirement?

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

Answer: B

Explanation:
https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/custom-tags.html "User-defined tags are tags that you define, create, and apply to resources. After you have created and applied the user-defined tags, you can activate by using the Billing and Cost Management console for cost allocation tracking. "
To meet this requirement, the SysOps administrator should activate the company-defined tags as user-defined cost allocation tags. This will ensure that the tags appear on the billing report and that the resources can be tracked with the specific tags. The other options (activating the tags as AWS generated cost allocation tags, creating a new cost category and selecting the account billing dimension, and creating a new AWS Cost and Usage Report and including the resource IDs) will not meet the requirements and are not the correct solutions for this issue.

NEW QUESTION 218
- (Exam Topic 1)
A SysOps administrator is troubleshooting connection timeouts to an Amazon EC2 instance that has a public IP address. The instance has a private IP address of 172.31.16.139. When the SysOps administrator tries to ping the instance's public IP address from the remote IP address 203.0.113.12, the response is "request timed out." The flow logs contain the following information:

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

What is one cause of the problem?

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

Answer: D

NEW QUESTION 222

- (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

NEW QUESTION 224
- (Exam Topic 1)
A company uses AWS Organizations to manage its AWS accounts. A SysOps administrator must create a backup strategy for all Amazon EC2 instances across all the company's AWS accounts.
Which solution will meet these requirements In the MOST operationally efficient way?

A. Deploy an AWS Lambda function to each account to run EC2 instance snapshots on a scheduled basis.
B. Create an AWS CloudFormation stack set in the management account to add an AutoBackup=True tag to every EC2 instance
C. Use AWS Backup In the management account to deploy policies for all accounts and resources.
D. Use a service control policy (SCP) to run EC2 instance snapshots on a scheduled basis in each account.

Answer: B

NEW QUESTION 227
- (Exam Topic 1)
A company recently its server infrastructure to Amazon EC2 instances. The company wants to use Amazon CloudWatch metrics to track instance memory utilization and available disk space.
What should a SysOps administrator do to meet these requirements?

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

Answer: C

NEW QUESTION 229
- (Exam Topic 1)
A SysOps administrator has created a VPC that contains a public subnet and a private subnet. Amazon EC2 instances that were launched in the private subnet cannot access the internet. The default network ACL is active on all subnets in the VPC, and all security groups allow all outbound traffic:
Which solution will provide the EC2 instances in the private subnet with access to the internet?

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

Answer: A

Explanation:
NAT Gateway resides in public subnet, and traffic should be routed from private subnet to NAT Gateway: https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-gateway.html

NEW QUESTION 231
- (Exam Topic 1)
A company has multiple AWS Site-to-Site VPN connections between a VPC and its branch offices. The company manages an Amazon Elasticsearch Service (Amazon ES) domain that is configured with public
access. The Amazon ES domain has an open domain access policy. A SysOps administrator needs to ensure that Amazon ES can be accessed only from the branch offices while preserving existing data.
Which solution will meet these requirements?

A. Configure an identity-based access policy on Amazon E
B. Add an allow statement to the policy that includes the Amazon Resource Name (ARN) for each branch office VPN connection.
C. Configure an IP-based domain access policy on Amazon E
D. Add an allow statement to the policy that includes the private IP CIDR blocks from each branch office network.
E. Deploy a new Amazon ES domain in private subnets in a VPC, and import a snapshot from the old domai
F. Create a security group that allows inbound traffic from the branch office CIDR blocks.
G. Reconfigure the Amazon ES domain in private subnets in a VP

H. Create a security group that allows inbound traffic from the branch office CIDR blocks.

Answer: B

NEW QUESTION 233
- (Exam Topic 1)
A SysOps administrator must create a solution that immediately notifies software developers if an AWS Lambda function experiences an error.
Which solution will meet this requirement?

A. Create an Amazon Simple Notification Service (Amazon SNS) topic with an email subscription for each develope
B. Create an Amazon CloudWatch alarm by using the Errors metric and the Lambda function name as a dimensio
C. Configure the alarm to send a notification to the SNS topic when the alarm state reaches ALARM.
D. Create an Amazon Simple Notification Service (Amazon SNS) topic with a mobile subscription for each develope
E. Create an Amazon EventBridge (Amazon CloudWatch Events) alarm by using LambdaError as the event pattern and the SNS topic name as a resourc
F. Configure the alarm to send a notification to the SNS topic when the alarm state reaches ALARM.
G. Verify each developer email address in Amazon Simple Email Service (Amazon SES). Create an Amazon CloudWatch rule by using the LambdaError metric and developer email addresses as dimension
H. Configure the rule to send an email through Amazon SES when the rule state reaches ALARM.
I. Verify each developer mobile phone in Amazon Simple Email Service {Amazon SES). Create an Amazon EventBridge (Amazon CloudWatch Events) rule by using Errors as the event pattern and the Lambda function name as a resourc
J. Configure the rule to send a push notification through Amazon SES when the rule state reaches ALARM.

Answer: A

NEW QUESTION 238
- (Exam Topic 1)
The security team is concerned because the number of AWS Identity and Access Management (IAM) policies being used in the environment is increasing. The team tasked a SysOps administrator to report on the current number of IAM policies in use and the total available IAM policies.
Which AWS service should the administrator use to check how current IAM policy usage compares to current service limits?

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

Answer: A

NEW QUESTION 241
- (Exam Topic 1)
A SysOps administrator noticed that the cache hit ratio for an Amazon CloudFront distribution is less than 10%.
Which collection of configuration changes will increase the cache hit ratio for the distribution? (Select TWO.)

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

Answer: AE

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

NEW QUESTION 243
- (Exam Topic 1)
A company needs to archive all audit logs for 10 years. The company must protect the logs from any future edits.
Which solution will meet these requirements?

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

Answer: B

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

NEW QUESTION 246
- (Exam Topic 1)
A company has created a NAT gateway in a public subnet in a VPC. The VPC also contains a private subnet that includes Amazon EC2 instances. The EC2

instances use the NAT gateway to access the internet to download patches and updates. The company has configured a VPC flow log for the elastic network interface of the NAT gateway. The company is publishing the output to Amazon CloudWatch Logs.
A SysOps administrator must identify the top five internet destinations that the EC2 instances in the private subnet communicate with for downloads.
What should the SysOps administrator do to meet this requirement in the MOST operationally efficient way?

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

Answer: C

NEW QUESTION 250
- (Exam Topic 1)
An application team uses an Amazon Aurora MySQL DB cluster with one Aurora Replica. The application team notices that the application read performance degrades when user connections exceed 200. The number of user connections is typically consistent around 180. with occasional sudden increases above 200 connections. The application team wants the application to automatically scale as user demand increases or decreases.
Which solution will meet these requirements?

A. Migrate to a new Aurora multi-master DB cluste
B. Modify the application database connection string.
C. Modify the DB cluster by changing to serverless mode whenever user connections exceed 200.
D. Create an auto scaling policy with a target metric of 195 DatabaseConnections
E. Modify the DB cluster by increasing the Aurora Replica instance size.

Answer: C

NEW QUESTION 254
- (Exam Topic 1)
A company has a policy that requires all Amazon EC2 instances to have a specific set of tags. If an EC2 instance does not have the required tags, the noncompliant instance should be terminated.
What is the MOST operationally efficient solution that meets these requirements?

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

Answer: D

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

NEW QUESTION 257
- (Exam Topic 1)
A company is rolling out a new version of its website. Management wants to deploy the new website in a limited rollout to 20% of the company's customers. The company uses Amazon Route 53 for its website's DNS solution.
Which configuration will meet these requirements?

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

Answer: C

NEW QUESTION 261
- (Exam Topic 1)
A company runs a website from Sydney, Australia. Users in the United States (US) and Europe are reporting that images and videos are taking a long time to load. However, local testing in Australia indicates no performance issues. The website has a large amount of static content in the form of images and videos that are stored m Amazon S3.
Which solution will result In the MOST Improvement In the user experience for users In the US and Europe?

A. Configure AWS PrivateLink for Amazon S3.
B. Configure S3 Transfer Acceleration.
C. Create an Amazon CloudFront distributio
D. Distribute the static content to the CloudFront edge locations

E. Create an Amazon API Gateway API in each AWS Regio
F. Cache the content locally.

Answer: D

NEW QUESTION 264
- (Exam Topic 1)
A company applies user-defined tags to resources that are associated with me company's AWS workloads Twenty days after applying the tags, the company notices that it cannot use re tags to filter views in the AWS Cost Explorer console.
What is the reason for this issue?

A. It lakes at least 30 days to be able to use tags to filter views in Cost Explorer.
B. The company has not activated the user-defined tags for cost allocation.
C. The company has not created an AWS Cost and Usage Report
D. The company has not created a usage budget in AWS Budgets

Answer: B

NEW QUESTION 267
- (Exam Topic 1)
A SysOps administrator applies the following policy to an AWS CloudFormation stack:

```
{
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "Update:*",
      "Principal": "*",
      "Resource": ["LogicalResourceId/Production*"]
    },
    {
      "Effect": "Allow",
      "Action": "Update:*",
      "Principal": "*",
      "Resource": "*"
    }
  ]
}
```

What is the result of this policy?

A. Users that assume an IAM role with a logical ID that begins with "Production" are prevented from running the update-stack command.
B. Users can update all resources in the stack except for resources that have a logical ID that begins with "Production".
C. Users can update all resources in the stack except for resources that have an attribute that begins with "Production".
D. Users in an IAM group with a logical ID that begins with "Production" are prevented from running the update-stack command.

Answer: B

NEW QUESTION 272
- (Exam Topic 1)
A company has an application that is running on Amazon EC2 instances in a VPC. The application needs access to download software updates from the internet. The VPC has public subnets and private signets. The company's security policy requires all ECS instances to be deployed in private subnets
What should a SysOps administrator do to meet those requirements?

A. Add an internet gateway to the VPC In the route table for the private subnets, odd a route to the interne; gateway.
B. Add a NAT gateway to a private subne
C. In the route table for the private subnets, add a route to the NAT gateway.
D. Add a NAT gateway to a public subnet in the route table for the private subnets, add a route to the NAT gateway.
E. Add two internet gateways to the VP
F. In The route tablet for the private subnets and public subnets, add a route to each internet gateway.

Answer: C

NEW QUESTION 277
- (Exam Topic 1)
A SysOps administrator receives an alert from Amazon GuardDuty about suspicious network activity on an Amazon EC2 instance. The GuardDuty finding lists a new external IP address as a traffic destination. The SysOps administrator does not recognize the external IP address. The SysOps administrator must block traffic to the external IP address that GuardDuty identified.
Which solution will meet this requirement?

A. Create a new security group to block traffic to the external IP addres
B. Assign the new security group to the EC2 instance.

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

Answer: C

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

NEW QUESTION 282
- (Exam Topic 1)
An organization with a large IT department has decided to migrate to AWS With different job functions in the IT department it is not desirable to give all users access to all AWS resources Currently the organization handles access via LDAP group membership
What is the BEST method to allow access using current LDAP credentials?

A. Create an AWS Directory Service Simple AD Replicate the on-premises LDAP directory to Simple AD
B. Create a Lambda function to read LDAP groups and automate the creation of IAM users
C. Use AWS CloudFormation to create IAM roles Deploy Direct Connect to allow access to the on-premises LDAP server
D. Federate the LDAP directory with IAM using SAML Create different IAM roles to correspond to different LDAP groups to limit permissions

Answer: D

NEW QUESTION 284
- (Exam Topic 1)
A SysOps administrator has used AWS Cloud Formation to deploy a sereness application into a production VPC. The application consists of an AWS Lambda function, an Amazon DynamoOB table, and an Amazon API Gateway API. The SysOps administrator must delete the AWS Cloud Formation stack without deleting the DynamoOB table.
Which action should the SysOps administrator take before deleting the AWS Cloud Formation stack?

A. Add a Retain deletion policy to the DynamoOB resource in the AWS CloudFormation stack.
B. Add a Snapshot deletion policy to the DynamoOB resource In the AWS CloudFormation stack.
C. Enable termination protection on the AWS Cloud Formation stack.
D. Update the application's IAM policy with a Deny statement for the dynamodb:DeleteTabie action.

Answer: A

NEW QUESTION 289
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