

Amazon-Web-Services

Exam Questions SOA-C02

AWS Certified SysOps Administrator - Associate (SOA-C02)



NEW QUESTION 1

- (Exam Topic 1)

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

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

Answer: A

Explanation:

Using Amazon S3 Block Public Access

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

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

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

NEW QUESTION 2

- (Exam Topic 1)

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

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

Answer: BE

Explanation:

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

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

Reference:

[1] https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_access.html#orgs_ma

NEW QUESTION 3

- (Exam Topic 1)

A company applies user-defined tags to resources that are associated with the company's AWS workloads. Twenty days after applying the tags, the company notices that it cannot use the tags to filter views in the AWS Cost Explorer console.

What is the reason for this issue?

- A. It takes 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 4

- (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 5

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 6

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: D

Explanation:

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

NEW QUESTION 7

- (Exam Topic 1)

A company needs to archive all audit logs for 10 years. The company must protect the logs from any future edits.

Which solution will meet these requirements?

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

Answer: B

Explanation:

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

NEW QUESTION 8

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 9

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 10

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 10

- (Exam Topic 1)

A SysOps administrator needs to create alerts that are based on the read and write metrics of Amazon Elastic Block Store (Amazon EBS) volumes that are attached to an Amazon EC2 instance. The SysOps administrator creates and enables Amazon CloudWatch alarms for the DiskReadBytes metric and the DiskWriteBytes metric.

A custom monitoring tool that is installed on the EC2 instance with the same alarm configuration indicates that the volume metrics have exceeded the threshold. However, the CloudWatch alarms were not in ALARM state.

Which action will ensure that the CloudWatch alarms function correctly?

- A. Install and configure the CloudWatch agent on the EC2 instance to capture the desired metrics.
- B. Install and configure AWS Systems Manager Agent on the EC2 instance to capture the desired metrics.
- C. Reconfigure the CloudWatch alarms to use the VolumeReadBytes metric and the VolumeWriteBytes metric for the EBS volumes.
- D. Reconfigure the CloudWatch alarms to use the VolumeReadBytes metric and the VolumeWriteBytes metric for the EC2 instance.

Answer: A

NEW QUESTION 15

- (Exam Topic 1)

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

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

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

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

Answer: DE

NEW QUESTION 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

NEW QUESTION 22

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: A

Explanation:

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

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

NEW QUESTION 25

- (Exam Topic 1)

A SysOps administrator wants to upload a file that is 1 TB in size from on-premises to an Amazon S3 bucket using multipart uploads. What should the SysOps administrator do to meet this requirement?

- A. Upload the file using the S3 console.
- B. Use the s3api copy-object command.
- C. Use the s3api put-object command.
- D. Use the s3 cp command.

Answer: D

Explanation:

It's a best practice to use aws s3 commands (such as aws s3 cp) for multipart uploads and downloads, because these aws s3 commands automatically perform

multipart uploading and downloading based on the file size. By comparison, aws s3api commands, such as aws s3api create-multipart-upload, should be used only when aws s3 commands don't support a specific upload need, such as when the multipart upload involves multiple servers, a multipart upload is manually stopped and resumed later, or when the aws s3 command doesn't support a required request parameter.
<https://aws.amazon.com/premiumsupport/knowledge-center/s3-multipart-upload-cli/>

NEW QUESTION 26

- (Exam Topic 1)

A SysOps administrator notices a scale-up event for an Amazon EC2 Auto Scaling group Amazon CloudWatch shows a spike in the RequestCount metric for the associated Application Load Balancer The administrator would like to know the IP addresses for the source of the requests Where can the administrator find this information?

- A. Auto Scaling logs
- B. AWS CloudTrail logs
- C. EC2 instance logs
- D. Elastic Load Balancer access logs

Answer: D

Explanation:

Elastic Load Balancing provides access logs that capture detailed information about requests sent to your load balancer. Each log contains information such as the time the request was received, the client's IP address, latencies, request paths, and server responses. You can use these access logs to analyze traffic patterns and troubleshoot issues.

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

NEW QUESTION 27

- (Exam Topic 1)

A SysOps administrator created an Amazon VPC with an IPv6 CIDR block, which requires access to the internet. However, access from the internet towards the VPC is prohibited. After adding and configuring the required components to the VPC. the administrator is unable to connect to any of the domains that reside on the internet.

What additional route destination rule should the administrator add to the route tables?

- A. Route `::/0` traffic to a NAT gateway
- B. Route `::/0` traffic to an internet gateway
- C. Route `0.0.0.0/0` traffic to an egress-only internet gateway
- D. Route `::/0` traffic to an egress-only internet gateway

Answer: D

Explanation:

<https://docs.aws.amazon.com/vpc/latest/userguide/egress-only-internet-gateway.html>

NEW QUESTION 28

- (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 32

- (Exam Topic 1)

A company uses AWS CloudFormation to deploy its application infrastructure Recently, a user accidentally changed a property of a database in a CloudFormation template and performed a stack update that caused an interruption to the application A SysOps administrator must determine how to modify the deployment process to allow the DevOps team to continue to deploy the infrastructure, but prevent against accidental modifications to specific resources.

Which solution will meet these requirements?

- A. Set up an AWS Config rule to alert based on changes to any CloudFormation stack An AWS Lambda function can then describe the stack to determine if any protected resources were modified and cancel the operation
- B. Set up an Amazon CloudWatch Events event with a rule to trigger based on any CloudFormation API call An AWS Lambda function can then describe the stack to determine if any protected resources were modified and cancel the operation
- C. Launch the CloudFormation templates using a stack policy with an explicit allow for all resources and an explicit deny of the protected resources with an action of Update
- D. Attach an IAM policy to the DevOps team role that prevents a CloudFormation stack from updating, with a condition based on the specific Amazon Resource Names (ARNs) of the protected resources

Answer: B

NEW QUESTION 37

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 39

- (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 40

- (Exam Topic 1)

A company has a stateless application that is hosted on a fleet of 10 Amazon EC2 On-Demand Instances in an Auto Scaling group. A minimum of 6 instances are needed to meet service requirements.

Which action will maintain uptime for the application MOST cost-effectively?

- A. Use a Spot Fleet with an On-Demand capacity of 6 instances.
- B. Update the Auto Scaling group with a minimum of 6 On-Demand Instances and a maximum of 10 On-Demand Instances.
- C. Update the Auto Scaling group with a minimum of 1 On-Demand Instance and a maximum of 6 On-Demand Instances.
- D. Use a Spot Fleet with a target capacity of 6 instances.

Answer: A

NEW QUESTION 42

- (Exam Topic 1)

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

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

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

Answer: B

NEW QUESTION 46

- (Exam Topic 1)

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

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

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

Answer: D

Explanation:

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

NEW QUESTION 50

- (Exam Topic 1)

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

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

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

E. Use AWS CloudFormation StackSets with AWS Organizations to deploy and manage IAM roles for the AWS accounts.

Answer: D

NEW QUESTION 51

- (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 responsible to add the instances in the subnets

NEW QUESTION 53

- (Exam Topic 1)

A SysOps administrator is responsible for a large fleet of Amazon EC2 instances and must know whether any instances will be affected by upcoming hardware maintenance. Which option would provide this information with the LEAST administrative overhead?

- A. Deploy a third-party monitoring solution to provide real-time EC2 instance monitoring
- B. List any instances with failed system status checks using the AWS Management Console
- C. Monitor AWS CloudTrail for StopInstances API calls
- D. Review the AWS Personal Health Dashboard

Answer: D

Explanation:

<https://docs.aws.amazon.com/health/latest/ug/cloudwatch-events-health.html>

NEW QUESTION 58

- (Exam Topic 1)

A SysOps administrator has created an Amazon EC2 instance using an AWS CloudFormation template in the us-east-1 Region. The administrator finds that this template has failed to create an EC2 instance in the us-west-2 Region. What is one cause for this failure?

- A. Resource tags defined in the CloudFormation template are specific to the us-east-1 Region.
- B. The Amazon Machine Image (AMI) ID referenced in the CloudFormation template could not be found in the us-west-2 Region.
- C. The cfn-init script did not run during resource provisioning in the us-west-2 Region.
- D. The IAM user was not created in the specified Region.

Answer: B

Explanation:

One possible cause for the failure of the CloudFormation template to create an EC2 instance in the us-west-2 Region is that the Amazon Machine Image (AMI) ID referenced in the template could not be found in the us-west-2 Region. This could be due to the fact that the AMI is not available in that region, or the credentials used to access the AMI were not configured properly. The other options (resource tags defined in the CloudFormation template are specific to the us-east-1 Region, the cfn-init script did not run during resource provisioning in the us-west-2 Region, and the IAM user was not created in the specified Region) are not valid causes for this failure.

NEW QUESTION 60

- (Exam Topic 1)

A company manages an application that uses Amazon ElastiCache for Redis with two extra-large nodes spread across two different Availability Zones. The company's IT team discovers that the ElastiCache for Redis cluster has 75% freeable memory. The application must maintain high availability.

What is the MOST cost-effective way to resize the cluster?

- A. Decrease the number of nodes in the ElastiCache for Redis cluster from 2 to 1.
- B. Deploy a new ElastiCache for Redis cluster that uses large node type
- C. Migrate the data from the original cluster to the new cluster
- D. After the process is complete, shut down the original cluster.
- E. Deploy a new ElastiCache for Redis cluster that uses large node type
- F. Take a backup from the original cluster, and restore the backup in the new cluster
- G. After the process is complete, shut down the original cluster.
- H. Perform an online resizing for the ElastiCache for Redis cluster
- I. Change the node types from extra-large nodes to large nodes.

Answer: D

Explanation:

<https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/scaling-redis-cluster-mode-enabled.html> As demand on your clusters changes, you might decide to improve performance or reduce costs by changing the number of shards in your Redis (cluster mode enabled) cluster. We recommend using online horizontal scaling to do so, because it allows your cluster to continue serving requests during the scaling process.

<https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/redis-cluster-vertical-scaling-scaling-down.html>

NEW QUESTION 64

- (Exam Topic 1)

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

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

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

Answer: A

Explanation:

This is the most operationally efficient solution that meets the requirements, as it will allow the company to monitor the number of times that the web server returns an HTTP 404 response in real-time. The other solutions (creating a CloudWatch Logs subscription filter, an AWS Lambda function, or a script) will require additional steps and resources to monitor the number of times that the web server returns an HTTP 404 response.

A metric filter allows you to search for specific terms, phrases, or values in your log events, and then to create a metric based on the number of occurrences of those search terms. This allows you to create a CloudWatch Metric that can be used to create alarms and dashboards, which can be used to monitor the number of HTTP 404 responses returned by the web server.

NEW QUESTION 66

- (Exam Topic 1)

A company is running a flash sale on its website. The website is hosted on burstable performance Amazon EC2 instances in an Auto Scaling group. The Auto Scaling group is configured to launch instances when the CPU utilization is above 70%.

A couple of hours into the sale, users report slow load times and error messages for refused connections. A SysOps administrator reviews Amazon CloudWatch metrics and notices that the CPU utilization is at 20% across the entire fleet of instances.

The SysOps administrator must restore the website's functionality without making changes to the network infrastructure.

Which solution will meet these requirements?

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

Answer: B

Explanation:

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

NEW QUESTION 68

- (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 72

- (Exam Topic 1)

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

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

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

- K. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basis
- L. Configure the function to restore the DB cluster to a point in time and then delete the previous DB cluster.

Answer: D

Explanation:

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

NEW QUESTION 77

- (Exam Topic 1)

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

What should the SysOps administrator do to meet this requirement?

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

Answer: C

NEW QUESTION 81

- (Exam Topic 1)

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

Layer 7 status codes from the web application.

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

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

Answer: CD

Explanation:

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

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

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

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

NEW QUESTION 82

- (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 85

- (Exam Topic 1)

A SysOps administrator must configure a resilient tier of Amazon EC2 instances for a high performance computing (HPC) application. The HPC application requires minimum latency between nodes.

Which actions should the SysOps administrator take to meet these requirements? (Select TWO.)

- A. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the file system to the EC2 instances by using user data.
- B. Create a Multi-AZ Network Load Balancer in front of the EC2 instances.
- C. Place the EC2 instances in an Auto Scaling group within a single subnet.
- D. Launch the EC2 instances into a cluster placement group.
- E. Launch the EC2 instances into a partition placement group.

Answer: AD

NEW QUESTION 88

- (Exam Topic 1)

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

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

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

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

Answer: A

NEW QUESTION 90

- (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 action
- B. Configure an AWS WAF rate-based rule to block matching traffic
- 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 traffic
- E. Associate the web ACL with the S3 bucket.
- F. Deploy a global-scoped AWS WAF web ACL with a block default action
- G. Configure an AWS WAF rate-based rule to allow matching traffic
- 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 traffic
- J. Associate the web ACL with the S3 bucket.

Answer: B

NEW QUESTION 92

- (Exam Topic 1)

A company uses Amazon Route 53 to manage the public DNS records for the domain example.com. The company deploys an Amazon CloudFront distribution to deliver static assets for a new corporate website. The company wants to create a subdomain that is named "static" and must route traffic for the subdomain to the CloudFront distribution.

How should a SysOps administrator create a new record for the subdomain in Route 53?

- A. Create a CNAME record
- B. Enter static.cloudfront.net as the record name
- C. Enter the CloudFront distribution's public IP address as the value.
- D. Create a CNAME record
- E. Enter static.example.com as the record name
- F. Enter the CloudFront distribution's private IP address as the value.
- G. Create an A record
- H. Enter static.cloudfront.net as the record name
- I. Enter the CloudFront distribution's ID as an alias target.
- J. Create an A record
- K. Enter static.example.com as the record name
- L. Enter the CloudFront distribution's domain name as an alias target.

Answer: D

Explanation:

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-cloudfront-distribution.html>

NEW QUESTION 94

- (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 98

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 100

- (Exam Topic 1)

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

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

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

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

Answer: C

NEW QUESTION 103

- (Exam Topic 1)

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

What should the SysOps administrator do to meet these requirements?

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

Answer: A

NEW QUESTION 106

- (Exam Topic 1)

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

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

- A. Create an AWS Lambda function that updates security groups that are associated with the elastic network interface to remove inbound rules with noncorporate CIDR range.
- B. Turn on VPC Flow Logs, and send the logs to Amazon CloudWatch Log.
- C. Create an Amazon CloudWatch alarm that matches traffic from noncorporate CIDR ranges, and publish a message to an Amazon Simple Notification Service (Amazon SNS) topic with the Lambda function as a target.
- D. Create a scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that targets an AWS Systems Manager Automation document to check for public IP addresses on the EC2 instance.
- E. If public IP addresses are found on the EC2 instances, initiate another Systems Manager Automation document to terminate the instances.
- F. Configure AWS Config and a custom rule to monitor whether a security group allows inbound requests from noncorporate CIDR range.
- G. Create an AWS Systems Manager Automation document to remove any noncorporate CIDR ranges from the application security groups.
- H. Configure AWS Config and the managed rule for monitoring public IP associations with the EC2 instances by tag.
- I. Tag the EC2 instances with an identifier.
- J. Create an AWS Systems Manager Automation document to remove the public IP association from the EC2 instances.

Answer: C

Explanation:

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

NEW QUESTION 111

- (Exam Topic 1)

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

Public Subnet (10.0.1.0/24) Route Table

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	IGW

Private Subnet (10.0.2.0/24) Route Table

Destination	Target
10.0.0.0/16	local

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

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

Answer: B

NEW QUESTION 113

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 115

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 117

- (Exam Topic 1)

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

How should the SysOps administrator implement this solution?

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

Answer: D

NEW QUESTION 122

- (Exam Topic 1)

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

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

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

Answer: A

NEW QUESTION 126

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 128

- (Exam Topic 1)

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

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

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

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

Answer: CD

NEW QUESTION 133

- (Exam Topic 1)

A web application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an Auto Scaling group across multiple Availability Zones. A SysOps administrator notices that some of these EC2 instances show up as healthy in the Auto Scaling group but show up as unhealthy in the ALB target group.

What is a possible reason for this issue?

- A. Security groups are not allowing traffic between the ALB and the failing EC2 instances
- B. The Auto Scaling group health check is configured for EC2 status checks
- C. The EC2 instances are failing to launch and failing EC2 status checks.
- D. The target group health check is configured with an incorrect port or path

Answer: D

NEW QUESTION 138

- (Exam Topic 1)

A SysOps administrator must manage the security of an AWS account. Recently an IAM user's access key was mistakenly uploaded to a public code repository. The SysOps administrator must identify anything that was changed by using this access key.

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

Answer: C

NEW QUESTION 139

- (Exam Topic 1)

A new website will run on Amazon EC2 instances behind an Application Load Balancer. Amazon Route 53 will be used to manage DNS records.

What type of record should be set in Route 53 to point the website's apex domain name (for example, company.com) to the Application Load Balancer?

- A. CNAME

- B. SOA
- C. TXT
- D. ALIAS

Answer: D

NEW QUESTION 143

- (Exam Topic 1)

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

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

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

Answer: A

NEW QUESTION 146

- (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 bucket.
- C. Set up Amazon Simple Notification Service (Amazon SNS) to send notifications.
- D. Enable S3 Event notifications for each S3 bucket.
- E. Subscribe S3 Event Notifications to an Amazon Simple Notification Service (Amazon SNS) topic.
- F. Enable the s3-bucket-public-read-prohibited managed rule in AWS Config.
- G. Subscribe the AWS Config rule to an Amazon Simple Notification Service (Amazon SNS) topic.

Answer: D

NEW QUESTION 148

- (Exam Topic 1)

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

What should the SysOps administrator do to meet these requirements?

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

Answer: B

Explanation:

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

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

NEW QUESTION 150

- (Exam Topic 1)

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

What should the SysOps administrator do to resolve this issue?

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

Answer: D

NEW QUESTION 155

- (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 159

- (Exam Topic 1)

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

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

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

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

Answer: C

NEW QUESTION 160

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 161

- (Exam Topic 1)

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

Which solution will meet these requirements MOST cost-effectively?

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

Answer: A

Explanation:

Glacier Deep Archive retrieval time more than 5 hours (it's 12 hours), so B&D out. S3 Standard IA is cheaper than S3 Standard.

<https://aws.amazon.com/tw/s3/pricing/>

NEW QUESTION 162

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

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

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

Answer: C

NEW QUESTION 167

- (Exam Topic 1)

A company plans to migrate several of its high performance computing (HPC) 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 Availability Zones

Answer: A

NEW QUESTION 170

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 171

- (Exam Topic 1)

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

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

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

Answer: B

Explanation:

When you enable log file integrity validation, CloudTrail creates a hash for every log file that it delivers. Every hour, CloudTrail also creates and delivers a file that references the log files for the last hour and contains a hash of each. This file is called a digest file. CloudTrail signs each digest file using the private key of a public and private key pair. After delivery, you can use the public key to validate the digest file. CloudTrail uses different key pairs for each AWS region

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html>

NEW QUESTION 176

- (Exam Topic 1)

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

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

- A. Create a script that runs against the S3 bucket and outputs the status of each object.
- B. Create an S3 Inventory configuration on the S3 bucket. Induce the appropriate status fields.
- C. Provide the security team with an IAM user that has read access to the S3 bucket.
- D. Use the AWS CLI to output a list of all objects in the S3 bucket.

Answer: D

NEW QUESTION 181

- (Exam Topic 1)

A SysOps administrator created an AWS CloudFormation template that provisions Amazon EC2 instances, an Elastic Load Balancer (ELB), and an Amazon RDS DB instance. During stack creation, the creation of the EC2 instances and the creation of the ELB are successful. However, the creation of the DB instance fails.

What is the default behavior of CloudFormation in this scenario?

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

Answer: C

NEW QUESTION 186

- (Exam Topic 1)

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

What should the SysOps administrator do to remediate the consistently high PercentIOLimit metric?

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

Answer: A

Explanation:

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

NEW QUESTION 187

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 189

- (Exam Topic 1)

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

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

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

Answer: A

NEW QUESTION 194

- (Exam Topic 1)

An AWS Lambda function is intermittently failing several times a day A SysOps administrator must find out how often this error has occurred in the last 7 days Which action will meet this requirement in the MOST operationally efficient manner?

- A. Use Amazon Athena to query the Amazon CloudWatch logs that are associated with the Lambda function
- B. Use Amazon Athena to query the AWS CloudTrail logs that are associated with the Lambda function
- C. Use Amazon CloudWatch Logs Insights to query the associated Lambda function logs
- D. Use Amazon Elasticsearch Service (Amazon ES) to stream the Amazon CloudWatch logs for the Lambda function

Answer: C

NEW QUESTION 198

- (Exam Topic 1)

An Amazon EC2 instance is running an application that uses Amazon Simple Queue Service (Amazon SQS) queues A SysOps administrator must ensure that the application can read, write, and delete messages from the SQS queues

Which solution will meet these requirements in the MOST secure manner?

- A. Create an IAM user with an IAM policy that allows the sqs SendMessage permission, the sqs ReceiveMessage permission, and the sqs DeleteMessage permission to the appropriate queues Embed the IAM user's credentials in the application's configuration
- B. Create an IAM user with an IAM policy that allows the sqs SendMessage permission, the sqs ReceiveMessage permission, and the sqs DeleteMessage permission to the appropriate queues Export the IAM user's access key and secret access key as environment variables on the EC2 instance
- C. Create and associate an IAM role that allows EC2 instances to call AWS services Attach an IAM policy to the role that allows sqs." permissions to the appropriate queues
- D. Create and associate an IAM role that allows EC2 instances to call AWS services Attach an IAM policy to the role that allows the sqs SendMessage permission, the sqs ReceiveMessage permission, and the sqs DeleteMessage permission to the appropriate queues

Answer: D

NEW QUESTION 202

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: B

NEW QUESTION 206

- (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 necessary
- 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 necessary
- 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 necessary
- 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 necessary
- 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 211

- (Exam Topic 1)

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

What should the SysOps administrator do to troubleshoot this issue?

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

Answer: B

NEW QUESTION 215

- (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 216

- (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
- B. Enable an action to restart the instance.
- C. Create a CloudWatch alarm for the EC2 instance with detailed monitoring
- 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 220

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

redirect requests from port 80 to port 443

D. Create a Network Load Balancer that has two TCP listeners on port 80 and port 443 Attach an SSLTLS certificate to listener port 443 Create a rule to redirect requests from port 80 to port 443

Answer: B

NEW QUESTION 222

- (Exam Topic 1)

A company migrated an I/O intensive application to an Amazon EC2 general purpose instance. The EC2 instance has a single General Purpose SSD Amazon Elastic Block Store (Amazon EBS) volume attached.

Application users report that certain actions that require intensive reading and writing to the disk are taking much longer than normal or are failing completely. After reviewing the performance metrics of the EBS volume, a SysOps administrator notices that the VolumeQueueLength metric is consistently high during the same times in which the users are reporting issues. The SysOps administrator needs to resolve this problem to restore full performance to the application.

Which action will meet these requirements?

- A. Modify the instance type to be storage optimized.
- B. Modify the volume properties by deselecting Auto-Enable Volume 10.
- C. Modify the volume properties to increase the IOPS.
- D. Modify the instance to enable enhanced networking.

Answer: C

NEW QUESTION 226

- (Exam Topic 1)

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

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

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

Answer: A

NEW QUESTION 230

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: D

Explanation:

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

NEW QUESTION 235

- (Exam Topic 1)

A SysOps administrator creates an AWS CloudFormation template to define an application stack that can be deployed in multiple AWS Regions.

The SysOps administrator also creates an Amazon CloudWatch dashboard by using the AWS Management Console. Each deployment of the application requires its own CloudWatch dashboard.

How can the SysOps administrator automate the creation of the CloudWatch dashboard each time the application is deployed?

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

Answer: B

Explanation:

You can only use the Intrinsic Ref function to reference a resource that is being created at the same time as the current CloudFormation template. The question states that the CloudWatch dashboard was previously created using the AWS Management Console, so there is no ID to reference the existing CloudWatch dashboard in the CloudFormation template. You would need to export the existing CloudWatch dashboard as JSON, then use the DashboardBody property in the CloudFormation template to replicate it upon each deployment
(<https://docs.aws.amazon.com/AmazonCloudWatch/latest/APIReference/CloudWatch-Dashboard-Body-Structu>)

NEW QUESTION 236

- (Exam Topic 1)

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

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

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

Answer: A

NEW QUESTION 238

- (Exam Topic 1)

A compliance learn requires 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 241

- (Exam Topic 1)

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

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

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

Answer: B

NEW QUESTION 245

- (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 250

- (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 251

- (Exam Topic 2)

If your AWS Management Console browser does not show that you are logged in to an AWS account, close the browser and relaunch the console by using the AWS Management Console shortcut from the VM desktop.

If the copy-paste functionality is not working in your environment, refer to the instructions file on the VM desktop and use Ctrl+C, Ctrl+V or Command-C , Command-V.

Configure Amazon EventBridge to meet the following requirements.

- * 1. use the us-east-2 Region for all resources,
- * 2. Unless specified below, use the default configuration settings.
- * 3. Use your own resource naming unless a resource name is specified below.
- * 4. Ensure all Amazon EC2 events in the default event bus are replayable for the past 90 days.
- * 5. Create a rule named RunFunction to send the exact message every 15 minutes to an existing AWS Lambda function named LogEventFunction.
- * 6. Create a rule named SpotWarning to send a notification to a new standard Amazon SNS topic named TopicEvents whenever an Amazon EC2 Spot Instance is interrupted. Do NOT create any topic subscriptions. The notification must match the following structure:

Input path:

```
{"instance": "$.detail.instance-id"}
```

Input Path:

```
{"instance": "$.detail.instance-id"}
```

Input template:

"The EC2 Spot Instance <instance> has been on account.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Here are the steps to configure Amazon EventBridge to meet the above requirements:

- Log in to the AWS Management Console by using the AWS Management Console shortcut from the VM desktop. Make sure that you are logged in to the desired AWS account.
- Go to the EventBridge service in the us-east-2 Region.
- In the EventBridge service, navigate to the "Event buses" page.
- Click on the "Create event bus" button.
- Give a name to your event bus, and select "default" as the event source type.
- Navigate to "Rules" page and create a new rule named "RunFunction"
- In the "Event pattern" section, select "Schedule" as the event source and set the schedule to run every 15 minutes.
- In the "Actions" section, select "Send to Lambda" and choose the existing AWS Lambda function named "LogEventFunction"
- Create another rule named "SpotWarning"
- In the "Event pattern" section, select "EC2" as the event source, and filter the events on "EC2 Spot Instance interruption"
- In the "Actions" section, select "Send to SNS topic" and create a new standard Amazon SNS topic named "TopicEvents"
- In the "Input Transformer" section, set the Input Path to {"instance": "\$.detail.instance-id"} and Input template to "The EC2 Spot Instance <instance> has been interrupted on account.
- Now all Amazon EC2 events in the default event bus will be replayable for past 90 days. Note:
- You can use the AWS Management Console, AWS CLI, or SDKs to create and manage EventBridge resources.
- You can use CloudTrail event history to replay events from the past 90 days.
- You can refer to the AWS EventBridge documentation for more information on how to configure and use the service: <https://aws.amazon.com/eventbridge/>

NEW QUESTION 255

- (Exam Topic 2)

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

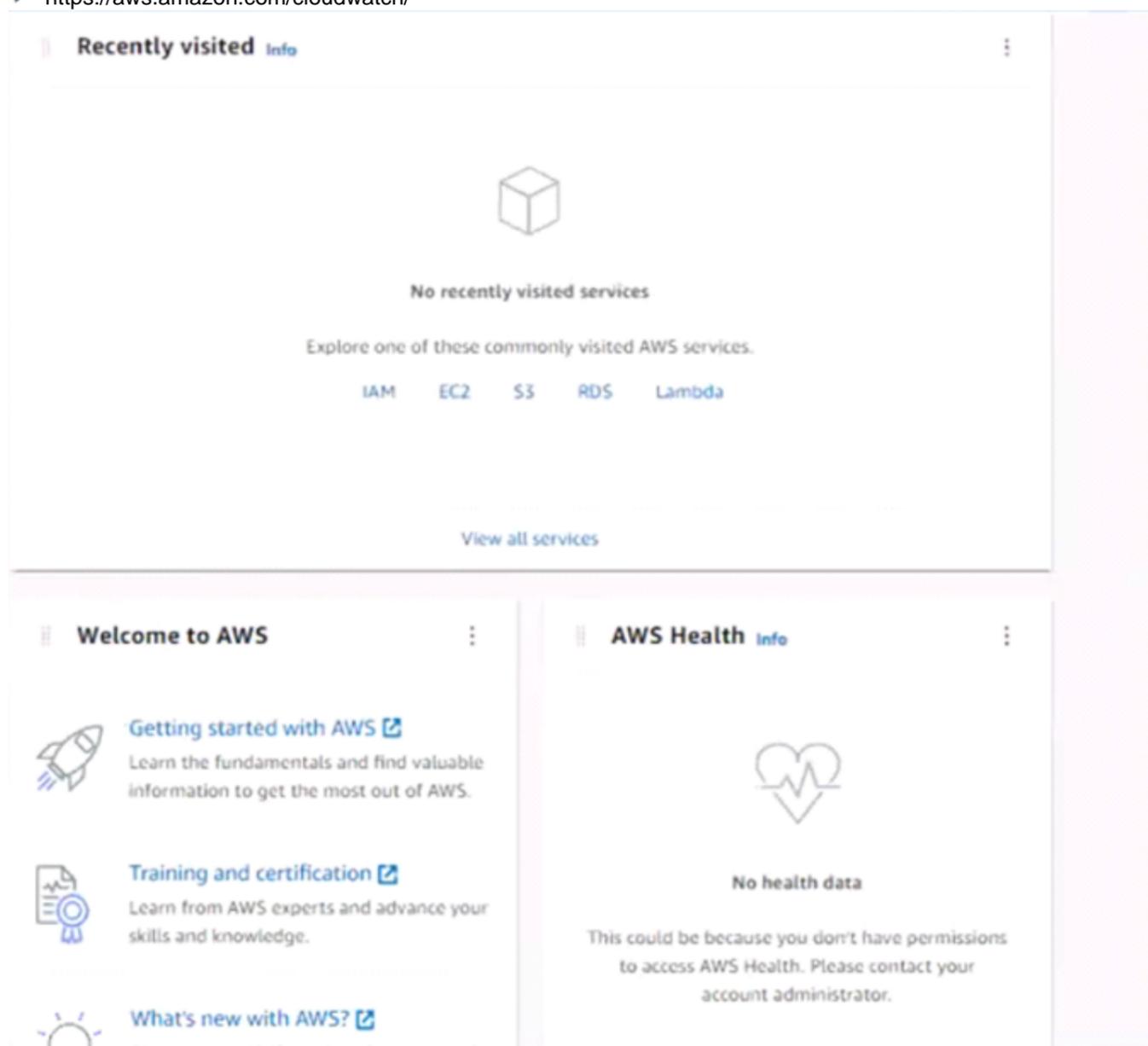
- Log in to the AWS Management Console and navigate to the S3 service in the us-east-2 Region.
- Find the existing S3 bucket named lab-751906329398-26023898.com and click on it.
- In the "Properties" tab, click on "Static website hosting" and select "Use this bucket to host a website".
- In "Index Document"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

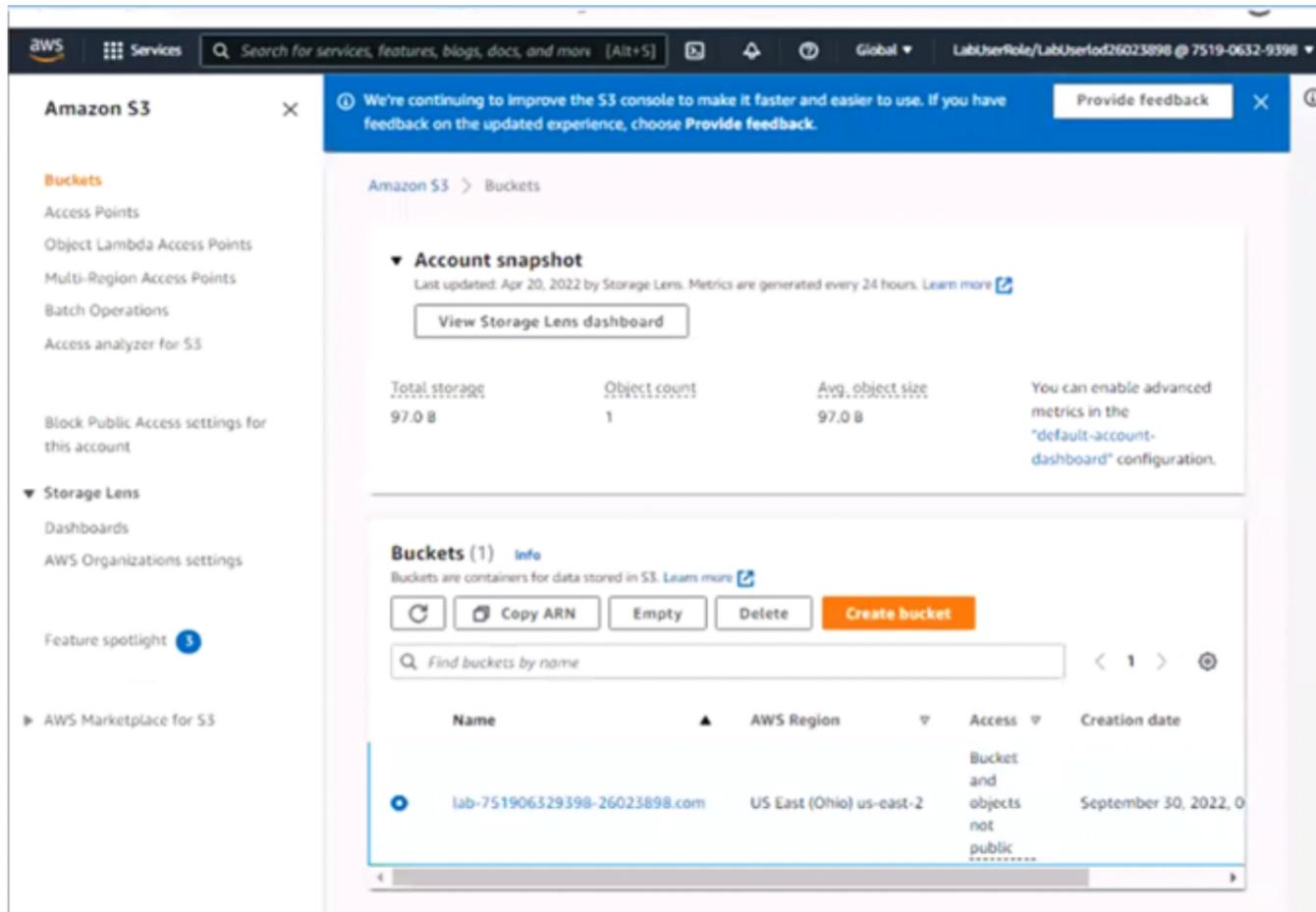
```
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "PublicReadGetObject", "Effect": "Allow",
"Principal": "*", "Action": "s3:GetObject",
"Resource": "arn:aws:s3:::lab-751906329398-26023898.com/*"
}
]
}
```

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

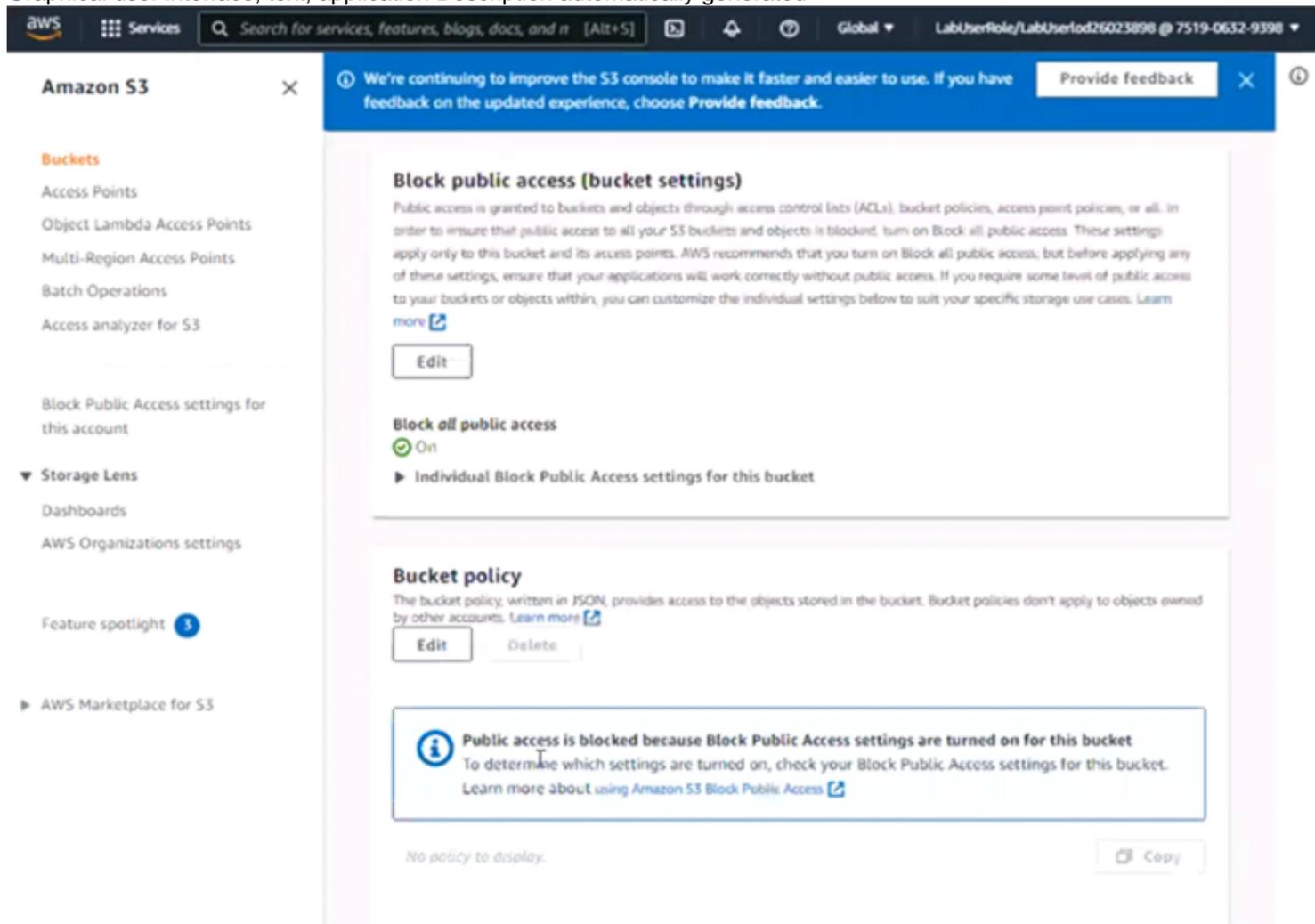
Note:

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

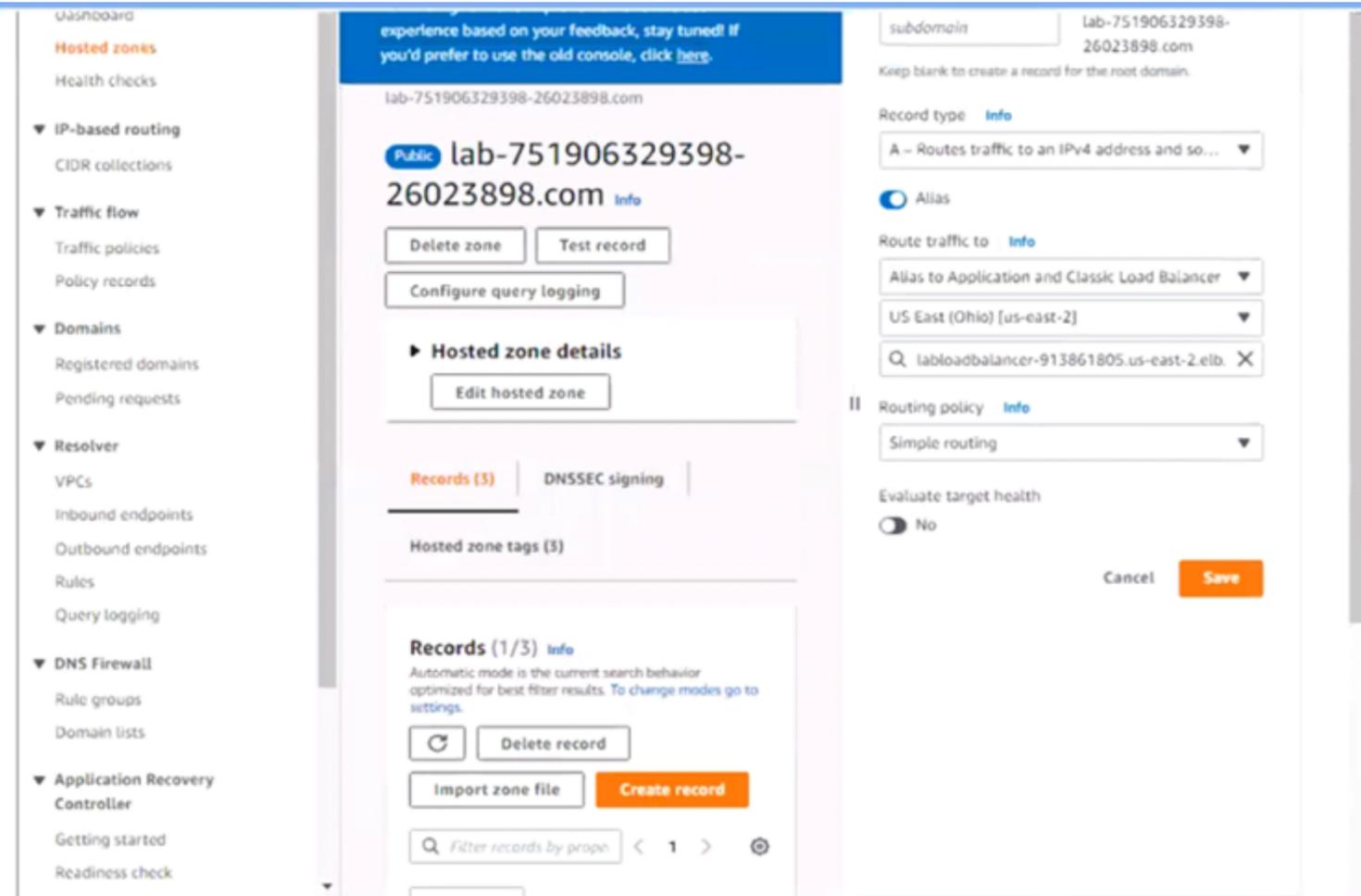




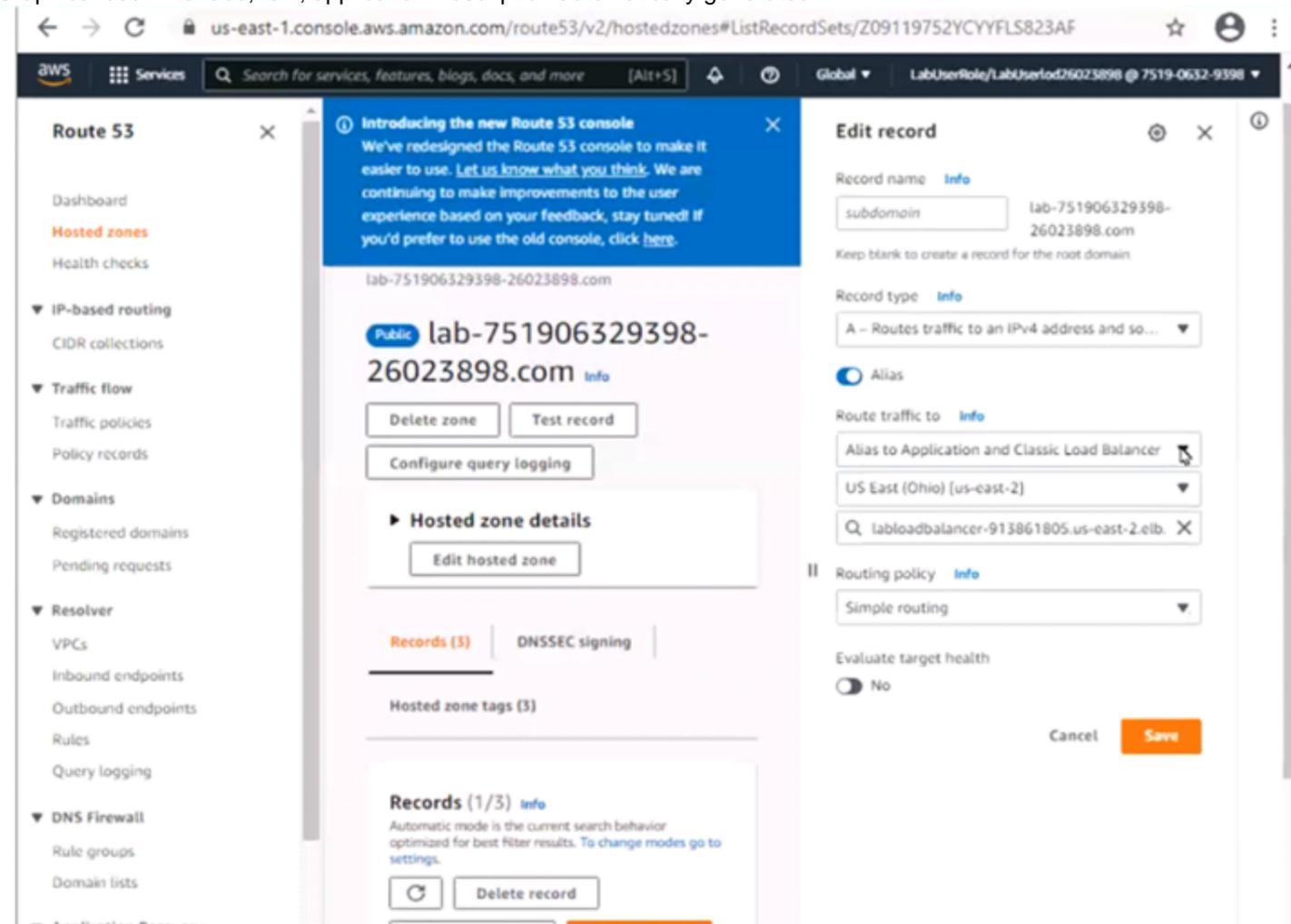
Graphical user interface, text, application Description automatically generated

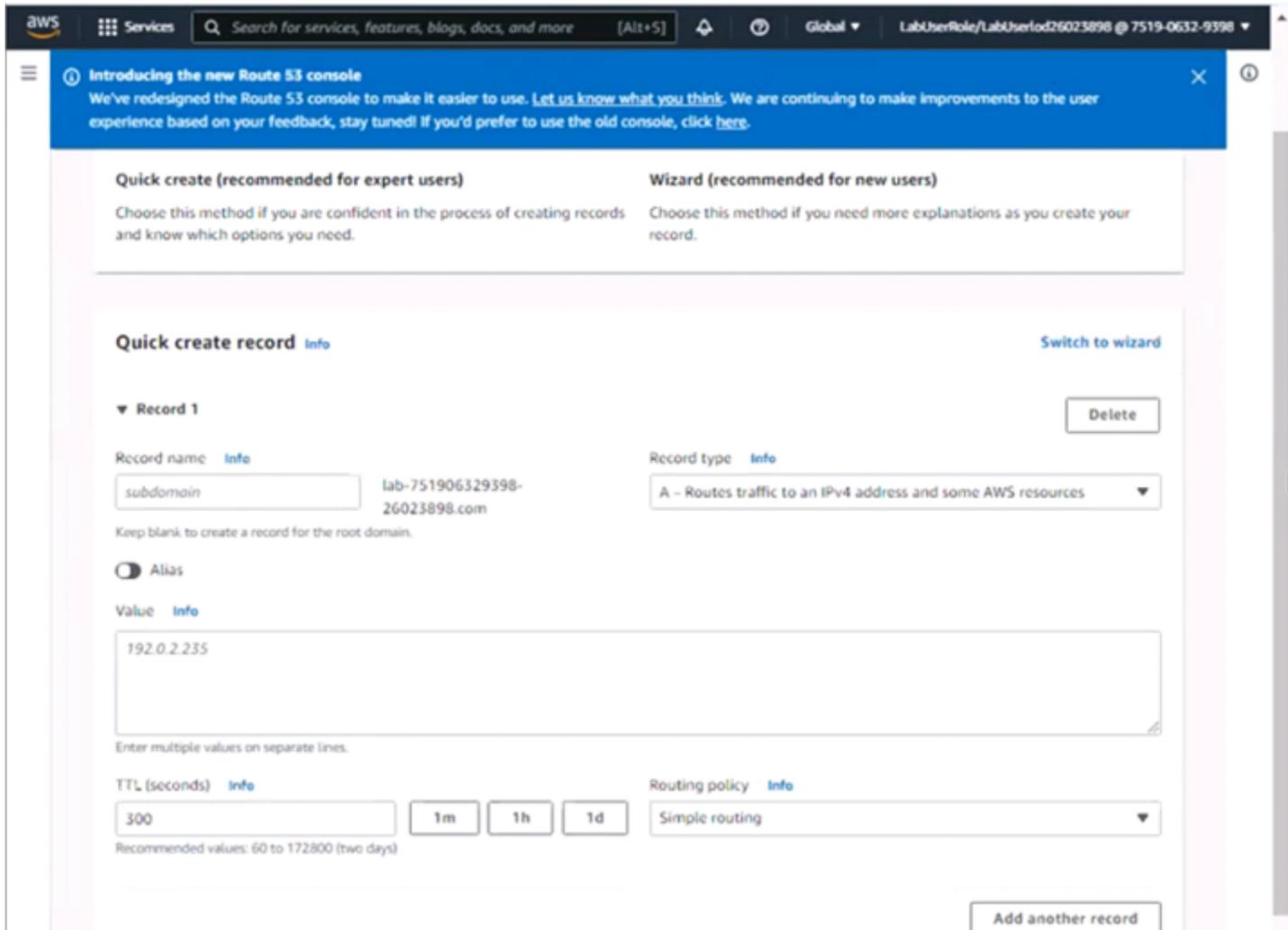


Graphical user interface, application, Teams Description automatically generated

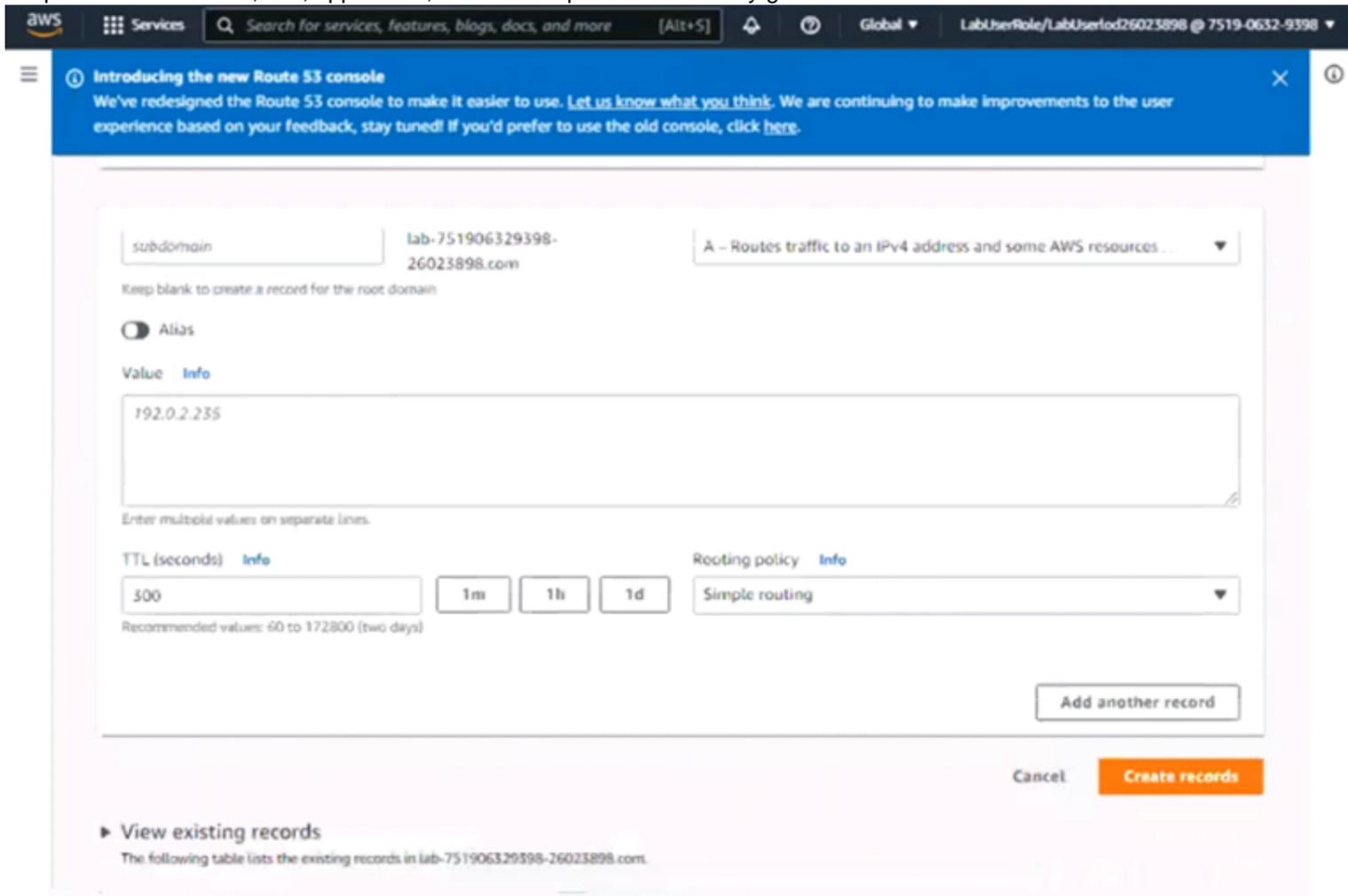


Graphical user interface, text, application Description automatically generated





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Quick create record [Info](#) [Switch to wizard](#)

▼ Record 1 [Delete](#)

Record name [Info](#) lab-751906329398-26023898.com Record type [Info](#)

Keep blank to create a record for the root domain.

Alias

Route traffic to [Info](#)

An alias to a CloudFront distribution and another record in the same hosted zone are global and available only in US East (N. Virginia).

Alias hosted zone ID: Z09119752YCYFLS823AF

Routing policy [Info](#) Failover record type

Health check ID - optional [Info](#) Evaluate target health Yes

Record ID [Info](#)

[Add another record](#)

We've redesigned the Hosted Zones console to help you make improvements to the user experience based on your feedback, stay tuned! If you'd prefer to use the old console, click [here](#).

Route 53 > Hosted zones > lab-751906329398-26023898.com > Create record

▼ Record creation method

<p>Quick create (recommended for expert users)</p> <p>Choose this method if you are confident in the process of creating records and know which options you need.</p>	<p>Wizard (recommended for new users)</p> <p>Choose this method if you need more explanations as you create your record.</p>
--	---

When you create records that have a routing policy other than simple, enter a value that uniquely identifies each record that has the same name and type. For example, you might assign a date/time stamp or a sequential counter.

[Learn more](#)

[Working with records](#)

Quick create record [Info](#) [Switch to wizard](#)

▼ Record 1 [Delete](#)

Record name [Info](#) lab-751906329398-26023898.com Record type [Info](#)

Keep blank to create a record for the root domain.

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Route 53 > Hosted zones > lab-751906329398-26023898.com > Create record

Quick create record [Info](#) [Switch to wizard](#)

▼ Record 1 [Delete](#)

Record name [Info](#) lab-751906329398-26023898.com Record type [Info](#)

Keep blank to create a record for the root domain.

Alias

Route traffic to [Info](#)

Alias hosted zone ID: Z3AADJG6K9KTL2

Routing policy [Info](#) Failover record type

Health check ID - optional [Info](#) Evaluate target health Yes

Record ID [Info](#)

[Add another record](#)

NEW QUESTION 257

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