



Amazon-Web-Services

Exam Questions SOA-C02

AWS Certified SysOps Administrator - Associate (SOA-C02)

NEW QUESTION 1

- (Exam Topic 1)

A SysOps administrator has used AWS Cloud Formation to deploy a sereness application into a production VPC. The application consists of an AWS Lambda function, an Amazon DynamoDB table, and an Amazon API Gateway API. The SysOps administrator must delete the AWS Cloud Formation stack without deleting the DynamoDB table.

Which action should the SysOps administrator take before deleting the AWS Cloud Formation stack?

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

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

A company has an application that is running on Amazon EC2 instances in a VPC. The application needs access to download software updates from the internet. The VPC has public subnets and private signets. The company's security policy requires all ECS instances to be deployed in private subnets

What should a SysOps administrator do to meet those requirements?

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

Answer: C

NEW QUESTION 3

- (Exam Topic 1)

A SysOps administrator needs to secure the credentials for an Amazon RDS database that is created by an AWS CloudFormation template. The solution must encrypt the credentials and must support automatic rotation.

Which solution will meet these requirements?

- A. Create an AWS::SecretsManager::Secret resource in the CloudFormation templat
- B. Reference thecredentials in the AWS::RDS::DBInstance resource by using the resolve:secretsmanager dynamic reference.
- C. Create an AWS::SecretsManager::Secret resource in the CloudFormation templat
- D. Reference the credentials in the AWS::RDS::DBInstance resource by using the resolve:ssm-secure dynamic reference.
- E. Create an AWS::SSM::Parameter resource in the CloudFormation templat
- F. Reference the credentials in the AWS::RDS::DBInstance resource by using the resolve:ssm dynamic reference.
- G. Create parameters for the database credentials in the CloudFormation templat
- H. Use the Ref intrinsic function to provide the credentials to the AWS::RDS::DBInstance resource.

Answer: A

NEW QUESTION 4

- (Exam Topic 1)

A SysOps administrator must set up notifications for whenever combined billing exceeds a certain threshold for all AWS accounts within a company. The administrator has set up AWS Organizations and enabled Consolidated Billing.

Which additional steps must the administrator perform to set up the billing alerts?

- A. In the payer account: Enable billing alerts in the Billing and Cost Management console; publish an Amazon SNS message when the billing alert triggers.
- B. In each account: Enable billing alerts in the Billing and Cost Management console; set up a billing alarm in Amazon CloudWatch; publish an SNS message when the alarm triggers.
- C. In the payer account: Enable billing alerts in the Billing and Cost Management console; set up a billing alarm in the Billing and Cost Management console to publish an SNS message when the alarm triggers.
- D. In the payer account: Enable billing alerts in the Billing and Cost Management console; set up a billing alarm in Amazon CloudWatch; publish an SNS message when the alarm triggers.

Answer: D

NEW QUESTION 5

- (Exam Topic 1)

A company website contains a web tier and a database tier on AWS. The web tier consists of Amazon EC2 instances that run in an Auto Scaling group across two Availability Zones. The database tier runs on an Amazon ROS for MySQL Multi-AZ DB instance. The database subnet network ACLs are restricted to only the web subnets that need access to the database. The web subnets use the default network ACL with the default rules.

The company's operations team has added a third subnet to the Auto Scaling group configuration. After an Auto Scaling event occurs, some users report that they intermittently receive an error message. The error message states that the server cannot connect to the database. The operations team has confirmed that the route tables are correct and that the required ports are open on all security groups.

Which combination of actions should a SysOps administrator take so that the web servers can communicate with the DB instance? (Select TWO.)

- A. On the default AC
- B. create inbound Allow rules of type TCP with the ephemeral port range and the source as the database subnets.
- C. On the default ACL, create outbound Allow rules of type MySQL/Aurora (3306). Specify the destinations as the database subnets.
- D. On the network ACLs for the database subnets, create an inbound Allow rule of type MySQL/Aurora (3306). Specify the source as the third web subnet.
- E. On the network ACLs for the database subnets, create an outbound Allow rule of type TCP with the ephemeral port range and the destination as the third web

subnet.
F. On the network ACLs for the database subnets, create an outbound Allow rule of type MySQL/Aurora (3306). Specify the destination as the third web subnet.

Answer: CD

NEW QUESTION 6

- (Exam Topic 1)

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

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

Answer: A

Explanation:

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

NEW QUESTION 7

- (Exam Topic 1)

A company stores its data in an Amazon S3 bucket. The company is required to classify the data and find any sensitive personal information in its S3 files. Which solution will meet these requirements?

- A. Create an AWS Config rule to discover sensitive personal information in the S3 files and mark them as noncompliant.
- B. Create an S3 event-driven artificial intelligence/machine learning (AI/ML) pipeline to classify sensitive personal information by using Amazon Recognition.
- C. Enable Amazon GuardDut
- D. Configure S3 protection to monitor all data inside Amazon S3.
- E. Enable Amazon Maci
- F. Create a discovery job that uses the managed data identifier.

Answer: D

Explanation:

Amazon Macie is a security service designed to help organizations find, classify, and protect sensitive data stored in Amazon S3. Amazon Macie uses machine learning to automatically discover, classify, and protect sensitive data in Amazon S3. Creating a discovery job with the managed data identifier will allow Macie to identify sensitive personal information in the S3 files and classify it accordingly. Enabling AWS Config and Amazon GuardDuty will not help with this requirement as they are not designed to automatically classify and protect data.

NEW QUESTION 8

- (Exam Topic 1)

A database is running on an Amazon RDS Multi-AZ DB instance. A recent security audit found the database to be out of compliance because it was not encrypted. Which approach will resolve the encryption requirement?

- A. Log in to the RDS console and select the encryption box to encrypt the database
- B. Create a new encrypted Amazon EBS volume and attach it to the instance
- C. Encrypt the standby replica in the secondary Availability Zone and promote it to the primary instance.
- D. Take a snapshot of the RDS instance, copy and encrypt the snapshot and then restore to the new RDS instance

Answer: D

NEW QUESTION 9

- (Exam Topic 1)

A company has two VPC networks named VPC A and VPC B. The VPC A CIDR block is 10.0.0.0/16 and the VPC B CIDR block is 172.31.0.0/16. The company wants to establish a VPC peering connection named pcx-12345 between both VPCs.

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

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

Answer: AD

Explanation:

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

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

What should a SysOps administrator do to meet these requirements?

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

Answer: C

NEW QUESTION 13

- (Exam Topic 1)

A company wants to create an automated solution for all accounts managed by AWS Organizations to detect any security groups that have 0.0.0.0/0 as the source address for inbound traffic. The company also wants to automatically remediate any noncompliant security groups by restricting access to a specific CIDR block that corresponds with the company's intranet.

- A. Create an AWS Config rule to detect noncompliant security groups.
- B. Set up automatic remediation to change the 0.0.0.0/0 source address to the approved CIDR block.
- C. Create an IAM policy to deny the creation of security groups that have 0.0.0.0/0 as the source address. Attach this IAM policy to every user in the company.
- D. Create an AWS Lambda function to inspect new and existing security groups, check for a noncompliant 0.0.0.0/0 source address, and change the source address to the approved CIDR block.
- E. Create a service control policy (SCP) for the organizational unit (OU) to deny the creation of security groups that have the 0.0.0.0/0 source address.
- F. Set up automatic remediation to change the 0.0.0.0/0 source address to the approved CIDR block.

Answer: A

NEW QUESTION 17

- (Exam Topic 1)

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

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

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

Answer: A

Explanation:

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

NEW QUESTION 19

- (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 21

- (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 company's financial department needs to view the cost details of each project in an AWS account. A SysOps administrator must perform the initial configuration that is required to view cost for each project in Cost Explorer.

Which solution will meet this requirement?

- A. Activate cost allocation tags. Add a project tag to the appropriate resources.
- B. Configure consolidated billing. Create AWS Cost and Usage Reports.
- C. Use AWS Budgets. Create AWS Budgets reports.
- D. Use cost categories to define custom groups that are based on AWS cost and usage dimensions.

Answer: A

NEW QUESTION 27

- (Exam Topic 1)

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

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

What is one cause of the problem?

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

Answer: D

NEW QUESTION 30

- (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 34

- (Exam Topic 1)

A development team recently deployed a new version of a web application to production. After the release, penetration testing revealed a cross-site scripting vulnerability that could expose user data. Which AWS service will mitigate this issue?

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

Answer: B

Explanation:

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

NEW QUESTION 37

- (Exam Topic 1)

A SysOps administrator is setting up an automated process to recover an Amazon EC2 instance in the event of an underlying hardware failure. The recovered instance must have the same private IP address and the same Elastic IP address that the original instance had. The SysOps team must receive an email notification when the recovery process is initiated.

Which solution will meet these requirements?

- A. Create an Amazon CloudWatch alarm for the EC2 instance, and specify the StatusCheckFailedInstance metric.
- B. Add an EC2 action to the alarm to recover the instance.
- C. Add an alarm notification to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
- D. Subscribe the SysOps team email address to the SNS topic.
- E. Create an Amazon CloudWatch alarm for the EC2 instance, and specify the StatusCheckFailed_System metric.
- F. Add an EC2 action to the alarm to recover the instance.
- G. Add an alarm notification to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
- H. Subscribe the SysOps team email address to the SNS topic.
- I. Create an Auto Scaling group across three different subnets in the same Availability Zone with a minimum, maximum, and desired size of 1. Configure the Auto Scaling group to use a launch template that specifies the private IP address and the Elastic IP address.
- J. Add an activity notification for the Auto Scaling group to send an email message to the SysOps team through Amazon Simple Email Service (Amazon SES).
- K. Create an Auto Scaling group across three Availability Zones with a minimum, maximum, and desired size of 1. Configure the Auto Scaling group to use a launch template that specifies the private IP address and the Elastic IP address.
- L. Add an activity notification for the Auto Scaling group to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
- M. Subscribe the SysOps team email address to the SNS topic.

Answer: B

Explanation:

You can create an Amazon CloudWatch alarm that monitors an Amazon EC2 instance and automatically recovers the instance if it becomes impaired due to an underlying hardware failure or a problem that requires AWS involvement to repair. Terminated instances cannot be recovered. A recovered instance is identical to the original instance, including the instance ID, private IP addresses, Elastic IP addresses, and all instance metadata. If the impaired instance has a public IPv4 address, the instance retains the public IPv4 address after recovery. If the impaired instance is in a placement group, the recovered instance runs in the placement group. When the StatusCheckFailed_System alarm is triggered, and the recover action is initiated, you will be notified by the Amazon SNS topic that you selected when you created the alarm and associated the recover action. <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-recover.html>

NEW QUESTION 40

- (Exam Topic 1)

A company's web application is available through an Amazon CloudFront distribution and directly through an internet-facing Application Load Balancer (ALB). A SysOps administrator must make the application accessible only through the CloudFront distribution and not directly through the ALB. The SysOps administrator must make this change without changing the application code.

Which solution will meet these requirements?

- A. Modify the ALB type to internal. Set the distribution's origin to the internal ALB domain name.
- B. Create a Lambda@Edge function. Configure the function to compare a custom header value in the request with a stored password and to forward the request to the origin in case of a match. Associate the function with the distribution.
- C. Replace the ALB with a new internal ALB. Set the distribution's origin to the internal ALB domain name. Add a custom HTTP header to the origin settings for the distribution. In the ALB listener, add a rule to forward requests that contain the matching custom header and the header's value. Add a default rule to return a fixed response code of 403.
- D. Add a custom HTTP header to the origin settings for the distribution in the ALB listener. Add a rule to forward requests that contain the matching custom header and the header's value. Add a default rule to return a fixed response code of 403.

Answer: D

Explanation:

To make the application accessible only through the CloudFront distribution and not directly through the Application Load Balancer (ALB), you can add a custom HTTP header to the origin settings for the CloudFront distribution. You can then create a rule in the ALB listener to forward requests that contain the matching custom header and its value to the origin. You can also add a default rule to the ALB listener to return a fixed response code of 403 for requests that do not contain the matching custom header. This will allow you to redirect all requests to the CloudFront distribution and block direct access to the application through the ALB. <https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/restrict-access-to-load-balancer.html>

NEW QUESTION 45

- (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 47

- (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 49

- (Exam Topic 1)

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

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

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

Answer: AB

NEW QUESTION 53

- (Exam Topic 1)

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

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

Answer: D

Explanation:

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

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

NEW QUESTION 56

- (Exam Topic 1)

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

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

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

Answer: D

Explanation:

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

NEW QUESTION 58

- (Exam Topic 1)

A company is using an Amazon Aurora MySQL DB cluster that has point-in-time recovery, backtracking, and automatic backup enabled. A SysOps administrator needs to be able to roll back the DB cluster to a specific recovery point within the previous 72 hours. Restores must be completed in the same production DB cluster.

Which solution will meet these requirements?

- A. Create an Aurora Replic
- B. Promote the replica to replace the primary DB instance.
- C. Create an AWS Lambda function to restore an automatic backup to the existing DB cluster.
- D. Use backtracking to rewind the existing DB cluster to the desired recovery point.
- E. Use point-in-time recovery to restore the existing DB cluster to the desired recovery point.

Answer: C

Explanation:

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

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

NEW QUESTION 61

- (Exam Topic 1)

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

- A. Enable instance scale-in protection.
- B. Place the instance into the Standby state.
- C. Remove the listener from the ALB.
- D. Suspend the Launch and Terminate process types.

Answer: A

NEW QUESTION 65

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 70

- (Exam Topic 1)

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

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

Answer: A

Explanation:

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

NEW QUESTION 73

- (Exam Topic 1)

A SysOps administrator is creating an Amazon EC2 Auto Scaling group in a new AWS account. After adding some instances, the SysOps administrator notices that the group has not reached the minimum number of instances. The SysOps administrator receives the following error message:

```
Launching a new EC2 instance. Status Reason: Your quota allows for 0 more running instance(s).  
You requested at least 1. Launching EC2 instance failed.
```

Which action will resolve this issue?

- A. Adjust the account spending limits for Amazon EC2 on the AWS Billing and Cost Management console.
- B. Modify the EC2 quota for that AWS Region in the EC2 Settings section of the EC2 console.
- C. Request a quota increase for the Instance type family by using Service Quotas on the AWS Management Console.
- D. Use the Rebalance action in the Auto Scaling group on the AWS Management Console.

Answer: C

NEW QUESTION 78

- (Exam Topic 1)

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

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

Answer: B

Explanation:

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

NEW QUESTION 82

- (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 84

- (Exam Topic 1)

A SysOps administrator must create a solution that automatically shuts down any Amazon EC2 instances that have less than 10% average CPU utilization for 60 minutes or more. Which solution will meet this requirement in the MOST operationally efficient manner?

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

Answer: B

Explanation:

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

NEW QUESTION 87

- (Exam Topic 1)

A company has an Amazon RDS DB instance. The company wants to implement a caching service while maintaining high availability. Which combination of actions will meet these requirements? (Choose two.)

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

Answer: CD

Explanation:

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

NEW QUESTION 90

- (Exam Topic 1)

A user working in the Amazon EC2 console increased the size of an Amazon Elastic Block Store (Amazon EBS) volume attached to an Amazon EC2 Windows instance. The change is not reflected in the file system. What should a SysOps administrator do to resolve this issue?

- A. Extend the file system with operating system-level tools to use the new storage capacity.
- B. Reattach the EBS volume to the EC2 instance.
- C. Reboot the EC2 instance that is attached to the EBS volume.
- D. Take a snapshot of the EBS volume.
- E. Replace the original volume with a volume that is created from the snapshot.

Answer: B

NEW QUESTION 94

- (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 98

- (Exam Topic 1)

A company is managing multiple AWS accounts in AWS Organizations. The company is reviewing internal security of its AWS environment. The company's security administrator has their own AWS account and wants to review the VPC configuration of developer AWS accounts.

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

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

Answer: D

NEW QUESTION 102

- (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 105

- (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 107

- (Exam Topic 1)

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

What should a SysOps administrator do to meet this requirement?

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

D. Perform an Amazon RDS query that uses the SELECT and GROUP BY keywords.

Answer: A

NEW QUESTION 108

- (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 109

- (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 111

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 115

- (Exam Topic 1)

A company plans to deploy a database on an Amazon Aurora MySQL DB cluster. The database will store data for a demonstration environment. The data must be reset on a daily basis. What is the MOST operationally efficient solution that meets these requirements?

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

Answer: D

Explanation:

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

NEW QUESTION 120

- (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 124

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 127

- (Exam Topic 1)

A company's IT department noticed an increase in the spend of their developer AWS account. There are over 50 developers using the account, and the finance team wants to determine the service costs incurred by each developer.

What should a SysOps administrator do to collect this information? (Select TWO.)

- A. Activate the createdBy tag in the account.
- B. Analyze the usage with Amazon CloudWatch dashboards.
- C. Analyze the usage with Cost Explorer.
- D. Configure AWS Trusted Advisor to track resource usage.
- E. Create a billing alarm in AWS Budgets.

Answer: AC

NEW QUESTION 129

- (Exam Topic 1)

A SysOps administrator is building a process for sharing Amazon RDS database snapshots between different accounts associated with different business units within the same company. All data must be encrypted at rest.

How should the administrator implement this process?

- A. Write a script to download the encrypted snapshot, decrypt it using the AWS KMS encryption key used to encrypt the snapshot, then create a new volume in each account.
- B. Update the key policy to grant permission to the AWS KMS encryption key used to encrypt the snapshot with all relevant accounts, then share the snapshot with those accounts.
- C. Create an Amazon EC2 instance based on the snapshot, then save the instance's Amazon EBS volume as a snapshot and share it with the other account
- D. Require each account owner to create a new volume from that snapshot and encrypt it.
- E. Create a new unencrypted RDS instance from the encrypted snapshot, connect to the instance using SSH/RDP
- F. export the database contents into a file, then share this file with the other accounts.

Answer: B

NEW QUESTION 134

- (Exam Topic 1)

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

- A. Create an S3 Lifecycle policy to transition the images to S3 Glacier after 7 days

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

Answer: D

NEW QUESTION 137

- (Exam Topic 1)

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

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

- A. Create multiple AWS Direct Connect connections between AWS and branch offices in Europe and Australia for uploads into the destination S3 bucket
- B. Create multiple AWS Site-to-Site VPN connections between AWS and branch offices in Europe and Australia for file uploads into the destination S3 bucket.
- C. Use Amazon S3 Transfer Acceleration for file uploads into the destination S3 bucket.
- D. Use AWS Global Accelerator for file uploads into the destination S3 bucket from the branch offices in Europe and Australia.
- E. Use multipart uploads for file uploads into the destination S3 bucket from the branch offices in Europe and Australia.

Answer: CE

NEW QUESTION 142

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 146

- (Exam Topic 1)

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

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

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

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

Answer: A

NEW QUESTION 148

- (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 151

- (Exam Topic 1)

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

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

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

Answer: A

Explanation:

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

NEW QUESTION 153

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 157

- (Exam Topic 1)

A company wants to archive sensitive data on Amazon S3 Glacier. The company's regulatory and compliance requirements do not allow any modifications to the data by any account.

Which solution meets these requirements?

- A. Attach a vault lock policy to an S3 Glacier vault that contains the archived data.
- B. Use the lock ID to validate the vault lock policy after 24 hours.
- C. Attach a vault lock policy to an S3 Glacier vault that contains the archived data.
- D. Use the lock ID to validate the vault lock policy within 24 hours.
- E. Configure S3 Object Lock in governance mode.
- F. Upload all files after 24 hours.
- G. Configure S3 Object Lock in governance mode.
- H. Upload all files within 24 hours.

Answer: B

NEW QUESTION 160

- (Exam Topic 1)

A SysOps administrator is reviewing AWS Trusted Advisor warnings and encounters a warning for an S3 bucket policy that has open access permissions. While discussing the issue with the bucket owner, the administrator realizes the S3 bucket is an origin for an Amazon CloudFront web distribution.

Which action should the administrator take to ensure that users access objects in Amazon S3 by using only CloudFront URLs?

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

Answer: B

Explanation:

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

NEW QUESTION 161

- (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 163

- (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 ta
- I. Tag the EC2 instances with an identify
- 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-aw>

NEW QUESTION 164

- (Exam Topic 1)

A recent audit found that most resources belonging to the development team were in violation of patch compliance standards. The resources were properly tagged. Which service should be used to quickly remediate the issue and bring the resources back into compliance?

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

Answer: D

NEW QUESTION 168

- (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 171

- (Exam Topic 1)

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

What should a SysOps administrator do to meet this requirement?

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

Answer: A

NEW QUESTION 172

- (Exam Topic 1)

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

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

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

Answer: AC

NEW QUESTION 177

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 182

- (Exam Topic 1)

A company has a stateless application that runs on four Amazon EC2 instances. The application requires four instances at all times to support all traffic. A SysOps administrator must design a highly available, fault-tolerant architecture that continually supports all traffic if one Availability Zone becomes unavailable. Which configuration meets these requirements?

- A. Deploy two Auto Scaling groups in two Availability Zones with a minimum capacity of two instances in each group.
- B. Deploy an Auto Scaling group across two Availability Zones with a minimum capacity of four instances.
- C. Deploy an Auto Scaling group across three Availability Zones with a minimum capacity of four instances.
- D. Deploy an Auto Scaling group across three Availability Zones with a minimum capacity of six instances.

Answer: C

NEW QUESTION 184

- (Exam Topic 1)

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

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

Answer: A

Explanation:

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

NEW QUESTION 187

- (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 191

- (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 193

- (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 created with the compromised access key within the suspected timeframe
- C. Search AWS CloudTrail event history for all events initiated with the compromised access key within the suspected timeframe
- D. Search VPC Flow Logs for all events initiated with the compromised access key within the suspected timeframe.

Answer: C

NEW QUESTION 197

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 201

- (Exam Topic 1)

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

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

Answer: B

Explanation:

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

NEW QUESTION 202

- (Exam Topic 1)

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

What must the SysOps administrator do to resolve this issue?

- A. Connect to each instance by using SSH. Install Systems Manager Agent on each instance. Configure Systems Manager Agent to start automatically when the instances start up.
- B. Use AWS Certificate Manager (ACM) to create a TLS certificate. Import the certificate into each instance. Configure Systems Manager Agent to use the TLS

certificate for secure communications

- C. Connect to each instance by using SSH Create an ssm-user account Add the ssm-user account to the /etc/sudoers.d directory
- D. Attach an IAM instance profile to the instances Ensure that the instance profile contains the AmazonSSMManagedInstanceCore policy

Answer: D

NEW QUESTION 205

- (Exam Topic 1)

A company has an application that runs only on Amazon EC2 Spot Instances. The instances run in an Amazon EC2 Auto Scaling group with scheduled scaling actions.

However, the capacity does not always increase at the scheduled times, and instances terminate many times a day. A Sysops administrator must ensure that the instances launch on time and have fewer interruptions.

Which action will meet these requirements?

- A. Specify the capacity-optimized allocation strategy for Spot Instance
- B. Add more instance types to the Auto Scaling group.
- C. Specify the capacity-optimized allocation strategy for Spot Instance
- D. Increase the size of the instances in the Auto Scaling group.
- E. Specify the lowest-price allocation strategy for Spot Instance
- F. Add more instance types to the Auto Scaling group.
- G. Specify the lowest-price allocation strategy for Spot Instance
- H. Increase the size of the instances in the Auto Scaling group.

Answer: A

Explanation:

Specifying the capacity-optimized allocation strategy for Spot Instances and adding more instance types to the Auto Scaling group is the best action to meet the requirements. Increasing the size of the instances in the Auto Scaling group will not necessarily help with the launch time or reduce interruptions, as the Spot Instances could still be interrupted even with larger instance sizes.

NEW QUESTION 209

- (Exam Topic 1)

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

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

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

Answer: A

Explanation:

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

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

NEW QUESTION 212

- (Exam Topic 1)

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

What should the SysOps administrator do to meet these requirements?

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

Answer: A

NEW QUESTION 217

- (Exam Topic 1)

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

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

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

Answer: D

Explanation:

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

NEW QUESTION 218

- (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 219

- (Exam Topic 1)

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

Which action should be taken to meet these requirements?

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

Answer: D

NEW QUESTION 224

- (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"
        }
      }
    }
  ],
  "Deny": {
    "Effect": "Deny",
    "NotAction": {
      "ec2:*",

```

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

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

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

Answer: C

NEW QUESTION 229

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 232

- (Exam Topic 1)

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

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

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

Answer: A

Explanation:

geolocation "Geolocation routing lets you choose the resources that serve your traffic based on the geographic location of your users, meaning the location that DNS queries originate from. For example, you might want all queries from Europe to be routed to an ELB load balancer in the Frankfurt region."

Could be confused with geoproximity - "Geoproximity routing lets Amazon Route 53 route traffic to your resources based on the geographic location of your users and your resources. You can also optionally choose to route more traffic or less to a given resource by specifying a value, known as a bias. A bias expands or shrinks the size of the geographic region from which traffic is routed to a resource" the use case is not needed as per question.

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

NEW QUESTION 236

- (Exam Topic 1)

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

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

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

Answer: B

Explanation:

When you enable log file integrity validation, CloudTrail creates a hash for every log file that it delivers. Every hour, CloudTrail also creates and delivers a file that references the log files for the last hour and contains a hash of each. This file is called a digest file. CloudTrail signs each digest file using the private key of a public and private key pair. After delivery, you can use the public key to validate the digest file. CloudTrail uses different key pairs for each AWS region
<https://docs.aws.amazon.com/awsccloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html>

NEW QUESTION 238

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 242

- (Exam Topic 1)

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

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

Answer: AD

Explanation:

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

NEW QUESTION 245

- (Exam Topic 1)

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

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

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

Answer: BE

Explanation:

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

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

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

NEW QUESTION 250

- (Exam Topic 1)

A manufacturing company uses an Amazon RDS DB instance to store inventory of all stock items. The company maintains several AWS Lambda functions that interact with the database to add, update, and delete items. The Lambda functions use hardcoded credentials to connect to the database.

A SysOps administrator must ensure that the database credentials are never stored in plaintext and that the password is rotated every 30 days.

Which solution will meet these requirements in the MOST operationally efficient manner?

- A. Store the database password as an environment variable for each Lambda function.
- B. Create a new Lambda function that is named PasswordRotator.

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

Answer: C

Explanation:

When you choose to enable rotation, Secrets Manager supports the following Amazon Relational Database Service (Amazon RDS) databases with AWS written and tested Lambda rotation function templates, and full configuration of the rotation process:

Amazon Aurora on Amazon RDS MySQL on Amazon RDS PostgreSQL on Amazon RDS Oracle on Amazon RDS MariaDB on Amazon RDS Microsoft SQL Server on Amazon RDS <https://docs.aws.amazon.com/secretsmanager/latest/userguide/intro.html>

NEW QUESTION 252

- (Exam Topic 1)

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

*** Error Establishing a Database Connection

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

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

Answer: CD

NEW QUESTION 257

- (Exam Topic 1)

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

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

What is a possible cause of these failed connections?

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

Answer: A

Explanation:

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

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

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

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

NEW QUESTION 258

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 261

- (Exam Topic 1)

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

- A. AWS CloudTrail
- B. Amazon Inspector

- C. AWSConfig
- D. AWS Systems Manager

Answer: C

NEW QUESTION 265

- (Exam Topic 1)

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

What should the SysOps administrator do to resolve this error?

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

Answer: D

NEW QUESTION 267

- (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 272

- (Exam Topic 1)

A company hosts a web portal on Amazon EC2 instances. The web portal uses an Elastic Load Balancer (ELB) and Amazon Route 53 for its public DNS service. The ELB and the EC2 instances are deployed by way of a single AWS CloudFormation stack in the us-east-1 Region. The web portal must be highly available across multiple Regions.

Which configuration will meet these requirements?

- A. Deploy a copy of the stack in the us-west-2 Region.
- B. Create a single start of authority (SOA) record in Route 53 that includes the IP address from each ELB.
- C. Configure the SOA record with health check.
- D. Use the ELB in us-east-1 as the primary record and the ELB in us-west-2 as the secondary record.
- E. Deploy a copy of the stack in the us-west-2 Region.
- F. Create an additional A record in Route 53 that includes the ELB in us-west-2 as an alias target.
- G. Configure the A records with a failover routing policy and health check.
- H. Use the ELB in us-east-1 as the primary record and the ELB in us-west-2 as the secondary record.
- I. Deploy a new group of EC2 instances in the us-west-2 Region.
- J. Associate the new EC2 instances with the existing ELB, and configure load balancer health checks on all EC2 instances.
- K. Configure the ELB to update Route 53 when EC2 instances in us-west-2 fail health checks.
- L. Deploy a new group of EC2 instances in the us-west-2 Region.
- M. Configure EC2 health checks on all EC2 instances in each Region.
- N. Configure a peering connection between the VPCs.
- O. Use the VPC in us-east-1 as the primary record and the VPC in us-west-2 as the secondary record.

Answer: B

Explanation:

When you create a hosted zone, Route 53 automatically creates a name server (NS) record and a start of authority (SOA) record for the zone.

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/migrate-dns-domain-in-use.html#migrate-dns-crea>

https://en.wikipedia.org/wiki/SOA_record

NEW QUESTION 274

- (Exam Topic 1)

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

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

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

Answer: B

Explanation:

https://docs.aws.amazon.com/zh_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html

NEW QUESTION 277

- (Exam Topic 1)

A company stores files on 50 Amazon S3 buckets in the same AWS Region. The company wants to connect to the S3 buckets securely over a private connection from its Amazon EC2 instances. The company needs a solution that produces no additional cost.

Which solution will meet these requirements?

- A. Create a gateway VPC endpoint for each S3 bucket
- B. Attach the gateway VPC endpoints to each subnet inside the VPC.
- C. Create an interface VPC endpoint for each S3 bucket
- D. Attach the interface VPC endpoints to each subnet inside the VPC.
- E. Create one gateway VPC endpoint for all the S3 buckets
- F. Add the gateway VPC endpoint to the VPC route table.
- G. Create one interface VPC endpoint for all the S3 buckets
- H. Add the interface VPC endpoint to the VPC route table.

Answer: C

NEW QUESTION 281

- (Exam Topic 1)

A company has a compliance requirement that no security groups can allow SSH ports to be open to all IP addresses. A SysOps administrator must implement a solution that will notify the company's SysOps team when a security group rule violates this requirement. The solution also must remediate the security group rule automatically.

Which solution will meet these requirements?

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function when a security group change
- B. Configure the Lambda function to evaluate the security group for compliance, remove all inbound security group rules on all ports, and notify the SysOps team if the security group is noncompliant.
- C. Create an AWS CloudTrail metric filter for security group change
- D. Create an Amazon CloudWatch alarm to notify the SysOps team through an Amazon Simple Notification Service (Amazon SNS) topic when the metric is greater than 0. Subscribe an AWS Lambda function to the SNS topic to remediate the security group rule by removing the rule.
- E. Activate the AWS Config restricted-ssh managed rule
- F. Add automatic remediation to the AWS Config rule by using the AWS Systems Manager Automation AWS DisablePublicAccessForSecurityGroup runbook
- G. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to notify the SysOps team when the rule is noncompliant.
- H. Create an AWS CloudTrail metric filter for security group change
- I. Create an Amazon CloudWatch alarm for when the metric is greater than 0. Add an AWS Systems Manager action to the CloudWatch alarm to suspend the security group by using the Systems Manager Automation AWS-DisablePublicAccessForSecurityGroup runbook when the alarm is in ALARM state
- J. Add an Amazon Simple Notification Service (Amazon SNS) topic as a second target to notify the SysOps team.

Answer: C

NEW QUESTION 286

- (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 287

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

Answer: A

NEW QUESTION 291

- (Exam Topic 1)

A SysOps administrator configuring AWS Client VPN to connect users on a corporate network to AWS resources that are running in a VPC. According to compliance requirements, only traffic that is destined for the VPC can travel across the VPN tunnel. How should the SysOps administrator configure Client VPN to meet these requirements?

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

Answer: C

NEW QUESTION 296

- (Exam Topic 1)

A company has an Auto Scaling group of Amazon EC2 instances that scale based on average CPU utilization. The Auto Scaling group events log indicates an `InsufficientInstanceCapacity` error.

Which actions should a SysOps administrator take to remediate this issue? (Select TWO.)

- A. Change the instance type that the company is using.
- B. Configure the Auto Scaling group in different Availability Zones.
- C. Configure the Auto Scaling group to use different Amazon Elastic Block Store (Amazon EBS) volume sizes.
- D. Increase the maximum size of the Auto Scaling group.
- E. Request an increase in the instance service quota.

Answer: AB

NEW QUESTION 301

- (Exam Topic 1)

A company is deploying a third-party unit testing solution that is delivered as an Amazon EC2 Amazon Machine Image (AMI). All system configuration data is stored in Amazon DynamoDB. The testing results are stored in Amazon S3.

A minimum of three EC2 instances are required to operate the product. The company's testing team wants to use an additional three EC2 instances when the Spot Instance prices are at a certain threshold. A SysOps administrator must implement a highly available solution that provides this functionality.

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

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

Answer: A

Explanation:

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

NEW QUESTION 302

- (Exam Topic 1)

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

How should a SysOps administrator meet these requirements?

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

Answer: D

Explanation:

AWS Global Accelerator and Amazon CloudFront are separate services that use the AWS global network and its edge locations around the world. CloudFront improves performance for both cacheable content (such as images and videos) and dynamic content (such as API acceleration and dynamic site delivery). Global Accelerator improves performance for a wide range of applications over TCP or UDP by proxying packets at the edge to applications running in one or more AWS Regions. Global Accelerator is a good fit for non-HTTP use cases, such as gaming (UDP), IoT (MQTT), or Voice over IP, as well as for HTTP use cases that

specifically require static IP addresses or deterministic, fast regional failover. Both services integrate with AWS Shield for DDoS protection.
<https://medium.com/awesome-cloud/aws-difference-between-application-load-balancer-and-network-load-balan> https://aws.amazon.com/global-accelerator/faqs/?nc1=h_ls

NEW QUESTION 305

- (Exam Topic 2)

You need to update an existing AWS CloudFormation stack. If needed, a copy to the CloudFormation template is available in an Amazon S3 bucket named cloudformation-bucket

- * 1. Use the us-east-2 Region for all resources.
- * 2. Unless specified below, use the default configuration settings.
- * 3. update the Amazon EC2 instance named Devinstance by making the following changes to the stack named 1700182:
 - * a) Change the EC2 instance type to us-east-t2.nano.
 - * b) Allow SSH to connect to the EC2 instance from the IP address range 192.168.100.0/30.
 - * c) Replace the instance profile IAM role with lamRoleB.
- * 4. Deploy the changes by updating the stack using the CFServiceR01e role.
- * 5. Edit the stack options to prevent accidental deletion.
- * 6. Using the output from the stack, enter the value of the ProdInstanceid in the text box below:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Here are the steps to update an existing AWS CloudFormation stack:

- > Log in to the AWS Management Console and navigate to the CloudFormation service in the us-east-2 Region.
- > Find the existing stack named 1700182 and click on it.
- > Click on the "Update" button.
- > Choose "Replace current template" and upload the updated CloudFormation template from the Amazon S3 bucket named "cloudformation-bucket"
- > In the "Parameter" section, update the EC2 instance type to us-east-t2.nano and add the IP address range 192.168.100.0/30 for SSH access.
- > Replace the instance profile IAM role with lamRoleB.
- > In the "Capabilities" section, check the checkbox for "IAM Resources"
- > Choose the role CFServiceR01e and click on "Update Stack"
- > Wait for the stack to be updated.
- > Once the update is complete, navigate to the stack and click on the "Stack options" button, and select "Prevent updates to prevent accidental deletion"
- > To get the value of the ProdInstanceid , navigate to the "Outputs" tab in the CloudFormation stack and find the key "ProdInstanceid". The value corresponding to it is the value that you need to enter in the text box below.

Note:

- > You can use AWS CloudFormation to update an existing stack.
- You can use the AWS CloudFormation service role to deploy updates.
 You can refer to the AWS CloudFormation documentation for more information on how to update and manage stacks: <https://aws.amazon.com/cloudformation/>

NEW QUESTION 308

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