

Amazon

Exam Questions AWS-SysOps

Amazon AWS Certified SysOps Administrator - Associate



NEW QUESTION 1

- (Exam Topic 1)

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

How should a SysOps administrator meet these requirements?

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

Answer: D

Explanation:

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

<https://medium.com/awesome-cloud/aws-difference-between-application-load-balancer-and-network-load-balancer> https://aws.amazon.com/global-accelerator/faqs/?nc1=h_ls

NEW QUESTION 2

- (Exam Topic 1)

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

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

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

Answer: BC

Explanation:

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

NEW QUESTION 3

- (Exam Topic 1)

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

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

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

Answer: B

NEW QUESTION 4

- (Exam Topic 1)

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

What should the SysOps administrator do to meet these requirements?

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

Answer: D

Explanation:

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

NEW QUESTION 5

- (Exam Topic 1)

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

account is controlled by a different administrator.
Which action will the administrator of the second account be able to perform?

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

Answer: A

NEW QUESTION 6

- (Exam Topic 1)

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

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

Answer: B

Explanation:

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

NEW QUESTION 7

- (Exam Topic 1)

A company 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 8

- (Exam Topic 1)

A SysOps administrator developed a Python script that uses the AWS SDK to conduct several maintenance tasks. The script needs to run automatically every night. What is the MOST operationally efficient solution that meets this requirement?

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

Answer: A

NEW QUESTION 9

- (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 10

- (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 10

- (Exam Topic 1)

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

What should the SysOps administrator do to meet these requirements?

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

Answer: A

NEW QUESTION 15

- (Exam Topic 1)

A company has an internal web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A SysOps administrator must make the application highly available.

Which action should the SysOps administrator take to meet this requirement?

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

Answer: C

Explanation:

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

NEW QUESTION 18

- (Exam Topic 1)

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

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

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

Answer: B

Explanation:

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

NEW QUESTION 22

- (Exam Topic 1)

A company uses AWS Organizations. A SysOps administrator wants to use AWS Compute Optimizer and AWS tag policies in the management account to govern all member accounts in the billing family. The SysOps administrator navigates to the AWS Organizations console but cannot activate tag policies through the management account.

What could be the reason for this issue?

- A. All features have not been enabled in the organization.
- B. Consolidated billing has not been enabled.
- C. The member accounts do not have tags enabled for cost allocation.
- D. The member accounts have not manually enabled trusted access for Compute Optimizer.

Answer: C

NEW QUESTION 27

- (Exam Topic 1)

A company needs to take an inventory of applications that are running on multiple Amazon EC2 instances. The company has configured users and roles with the appropriate permissions for AWS Systems Manager. An updated version of Systems Manager Agent has been installed and is running on every instance. While configuring an inventory collection, a SysOps administrator discovers that not all the instances in a single subnet are managed by Systems Manager.

What must the SysOps administrator do to fix this issue?

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

Answer: C

Explanation:

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

NEW QUESTION 32

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 34

- (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 bucket
- F. Add the gateway VPC endpoint to the VPC route table.
- G. Create one interface VPC endpoint for all the S3 bucket
- H. Add the interface VPC endpoint to the VPC route table.

Answer: C

NEW QUESTION 36

- (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 EL

- 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 VPC
- 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 41

- (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 42

- (Exam Topic 1)

A software development company has multiple developers who work on the same product. Each developer must have their own development environment, and these development environments must be identical. Each development environment consists of Amazon EC2 instances and an Amazon RDS DB instance. The development environments should be created only when necessary, and they must be terminated each night to minimize costs.

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

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

Answer: B

NEW QUESTION 47

- (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 51

- (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 52

- (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 55

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 57

- (Exam Topic 1)

A company's SysOps administrator deploys a public Network Load Balancer (NLB) in front of the company's web application. The web application does not use any Elastic IP addresses. Users must access the web application by using the company's domain name. The SysOps administrator needs to configure Amazon Route 53 to route traffic to the NLB.

Which solution will meet these requirements MOST cost-effectively?

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

Answer: B

NEW QUESTION 60

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 61

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: D

NEW QUESTION 65

- (Exam Topic 1)

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

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

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

Answer: DE

Explanation:

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html

NEW QUESTION 66

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: C

NEW QUESTION 70

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 72

- (Exam Topic 1)

A team of On-call engineers frequently needs to connect to Amazon EC2 Instances in a private subnet to troubleshoot and run commands. The Instances use either the latest AWS-provided Windows Amazon Machine Images (AMIs) or Amazon Linux AMIs.

The team has an existing IAM role for authorization. A SysOps administrator must provide the team with access to the Instances by granting IAM permissions to this Which solution will meet this requirement?

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

Answer: A

NEW QUESTION 76

- (Exam Topic 1)

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

How can this requirement be met?

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

D. Use the modify-db-instance command with the --na flag.

Answer: C

NEW QUESTION 81

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 86

- (Exam Topic 1)

An environment consists of 100 Amazon EC2 Windows instances The Amazon CloudWatch agent Is deployed and running on at EC2 instances with a baseline configuration file to capture log files There is a new requirement to capture the DHCP tog tiles 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 the log files are included and add the DHCP tog 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 89

- (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 91

- (Exam Topic 1)

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

Which condition should be used with the alarm?

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

Answer: A

Explanation:

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

NEW QUESTION 92

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: C

Explanation:

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

NEW QUESTION 93

- (Exam Topic 1)

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

Which solution will meet these requirements MOST cost-effectively?

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

- D. Set up an S3 Lifecycle rule to move the data to S3 Glacier Deep Archive after 90 days.
- E. Store the data in S3 Standard for the first 90 day
- F. Set up an S3 Lifecycle rule to move the data to S3 Glacier Flexible Retrieval after 90 days.
- G. Store the data in S3 Standard for the first 90 day
- H. Set up an S3 Lifecycle rule to move the data to S3 Glacier Deep Archive after 90 days.

Answer: A

Explanation:

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

NEW QUESTION 94

- (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 97

- (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 99

- (Exam Topic 1)

A company is planning to host its stateful web-based applications on AWS A SysOps administrator is using an Auto Scaling group of Amazon EC2 instances The web applications will run 24 hours a day 7 days a week throughout the year The company must be able to change the instance type within the same instance family later in the year based on the traffic and usage patterns

Which EC2 instance purchasing option will meet these requirements MOST cost-effectively?

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

Answer: A

Explanation:

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

NEW QUESTION 102

- (Exam Topic 1)

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

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

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

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

Answer: C

NEW QUESTION 103

- (Exam Topic 1)

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

- A. Configure Amazon Cognito to detect any compromised 1AM credentials.
- B. Set up Amazon Inspector
- C. Scan and monitor resources for unauthorized logins.
- D. Set up AWS Confi
- E. Add the iam-policy-blacklisted-check managed rule to the account.
- F. Configure Amazon GuardDuty to monitor the UnauthorizedAccess:IAMUser/ConsoleLoginSuccess finding.

Answer: D

NEW QUESTION 106

- (Exam Topic 1)

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

Which next step should be taken to configure Route 53?

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

Answer: A

NEW QUESTION 108

- (Exam Topic 1)

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

What should the SysOps administrator do to meet these requirements?

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

Answer: A

NEW QUESTION 113

- (Exam Topic 1)

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

What should the SysOps administrator do to reserve this issue?

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

Answer: D

NEW QUESTION 118

- (Exam Topic 1)

A company's customers are reporting increased latency while accessing static web content from Amazon S3 A SysOps administrator observed a very high rate of read operations on a particular S3 bucket

What will minimize latency by reducing load on the S3 bucket?

- A. Migrate the S3 bucket to a region that is closer to end users' geographic locations
- B. Use cross-region replication to replicate all of the data to another region
- C. Create an Amazon CloudFront distribution with the S3 bucket as the origin.
- D. Use Amazon ElastiCache to cache data being served from Amazon S3

Answer: C

NEW QUESTION 120

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: C

NEW QUESTION 124

- (Exam Topic 1)

A SysOps administrator needs to configure automatic rotation for Amazon RDS database credentials. The credentials must rotate every 30 days. The solution must integrate with Amazon RDS.

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

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

Answer: B

Explanation:

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

NEW QUESTION 125

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 129

- (Exam Topic 1)

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

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

Answer: D

Explanation:

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

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

NEW QUESTION 132

- (Exam Topic 1)

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

Which AWS service will mitigate this issue?

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

Answer: A

NEW QUESTION 134

- (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 136

- (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 141

- (Exam Topic 1)

Application A runs on Amazon EC2 instances behind a Network Load Balancer (NLB). The EC2 instances are in an Auto Scaling group and are in the same subnet that is associated with the NLB. Other applications from an on-premises environment cannot communicate with Application A on port 8080.

To troubleshoot the issue, a SysOps administrator analyzes the flow logs. The flow logs include the following records:

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

What is the reason for the rejected traffic?

- A. The security group of the EC2 instances has no Allow rule for the traffic from the NLB.
- B. The security group of the NLB has no Allow rule for the traffic from the on-premises environment.
- C. The ACL of the on-premises environment does not allow traffic to the AWS environment.
- D. The network ACL that is associated with the subnet does not allow outbound traffic for the ephemeral port range.

Answer: A

NEW QUESTION 143

- (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 144

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 148

- (Exam Topic 1)

A company hosts its website on Amazon EC2 instances behind an Application Load Balancer. The company manages its DNS with Amazon Route 53, and wants to point its domain's zone apex to the website.

Which type of record should be used to meet these requirements?

- A. A CNAME record for the domain's zone apex
- B. An A record for the domain's zone apex
- C. An AAAA record for the domain's zone apex
- D. An alias record for the domain's zone apex

Answer: D

Explanation:

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/resource-record-sets-choosing-alias-non-alias.htm>

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-elb-load-balancer.html>

NEW QUESTION 151

- (Exam Topic 1)

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

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

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

Answer: A

NEW QUESTION 155

- (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 156

- (Exam Topic 1)

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

What is the process to rotate the key?

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

Answer: B

NEW QUESTION 157

- (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 158

- (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 161

- (Exam Topic 1)

A company is implementing a monitoring solution that is based on machine learning. The monitoring solution consumes Amazon EventBridge (Amazon CloudWatch Events) events that are generated by Amazon EC2 Auto Scaling. The monitoring solution provides detection of anomalous behavior such as unanticipated scaling events and is configured as an EventBridge (CloudWatch Events) API destination.

During initial testing, the company discovers that the monitoring solution is not receiving events. However, Amazon CloudWatch is showing that the EventBridge (CloudWatch Events) rule is being invoked. A SysOps administrator must implement a solution to retrieve client error details to help resolve this issue. Which solution will meet these requirements with the LEAST operational effort?

- A. Create an EventBridge (CloudWatch Events) archive for the event pattern to replay the event
- B. Increase the logging on the monitoring solution
- C. Use replay to invoke the monitoring solution
- D. Examine the error details.
- E. Add an Amazon Simple Queue Service (Amazon SQS) standard queue as a dead-letter queue for the target
- F. Process the messages in the dead-letter queue to retrieve error details.
- G. Create a second EventBridge (CloudWatch Events) rule for the same event pattern to target an AWS Lambda function
- H. Configure the Lambda function to invoke the monitoring solution and to record the results to Amazon CloudWatch Log
- I. Examine the errors in the logs.
- J. Configure the EventBridge (CloudWatch Events) rule to send error messages to an Amazon Simple Notification Service (Amazon SNS) topic.

Answer: A

Explanation:

"In EventBridge, you can create an archive of events so that you can easily replay them at a later time. For example, you might want to replay events to recover from errors or to validate new functionality in your application." <https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-archive.html>

NEW QUESTION 166

- (Exam Topic 1)

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

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

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

Answer: C

Explanation:

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

NEW QUESTION 167

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 169

- (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 172

- (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 compliance mode
- H. Upload all files within 24 hours.

Answer: B

NEW QUESTION 174

- (Exam Topic 1)

A SysOps administrator is designing a solution for an Amazon RDS for PostgreSQL DB instance. Database credentials must be stored and rotated monthly. The applications that connect to the DB instance send write-intensive traffic with variable client connections that sometimes increase significantly in a short period of time. Which solution should a SysOps administrator choose to meet these requirements?

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

Answer: A

NEW QUESTION 176

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 179

- (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 184

- (Exam Topic 1)

A company's SysOps administrator regularly checks the AWS Personal Health Dashboard in each of the company's accounts. The accounts are part of an organization in AWS Organizations. The company recently added 10 more accounts to the organization. The SysOps administrator must consolidate the alerts from each account's Personal Health Dashboard.

Which solution will meet this requirement with the LEAST amount of effort?

- A. Enable organizational view in AWS Health.
- B. Configure the Personal Health Dashboard in each account to forward events to a central AWS CloudTrail log.
- C. Create an AWS Lambda function to query the AWS Health API and to write all events to an Amazon DynamoDB table.
- D. Use the AWS Health API to write events to an Amazon DynamoDB table.

Answer: A

Explanation:

Enabling the organizational view in AWS Health will allow the SysOps administrator to consolidate the alerts from each account's Personal Health Dashboard. It will also provide the administrator with a single view of all the accounts in the organization, allowing them to easily monitor the health of all the accounts in the organization.

Reference:

[1] <https://aws.amazon.com/premiumsupport/knowledge-center/organizational-view-health-dashboard/>

NEW QUESTION 186

- (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 187

- (Exam Topic 1)

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

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

- A. In the account where the AMI was created, create a customer master key (CMK). Modify the key policy to provide kms:DescribeKey, kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.
- B. Modify the AMI permissions to specify the AWS account numbers that the AMI will be shared with.
- C. In the account where the AMI was created, create a customer master key (CMK). Modify the key policy to provide kms:DescribeKey, kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.
- D. Create a copy of the AMI.
- E. and specify the CMK.
- F. Modify the permissions on the copied AMI to specify the AWS account numbers that the AMI will be shared with.
- G. In the account where the AMI was created, create a customer master key (CMK). Modify the key policy to provide kms:DescribeKey, kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.
- H. Create a copy of the AMI.
- I. and specify the CMK.
- J. Modify the permissions on the copied AMI to make it public.
- K. In the account where the AMI was created, modify the key policy of the AWS managed key to provide kms:DescribeKey, kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.
- L. kms:ReEncrypt, kms:CreateGrant, and kms:Decrypt permissions to the AWS accounts that the AMI will be shared with.
- M. Modify the AMI permissions to specify the AWS account numbers that the AMI will be shared with.

Answer: B

Explanation:

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

NEW QUESTION 189

- (Exam Topic 1)

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

What should the SysOps administrator do to meet this requirement?

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

Answer: C

NEW QUESTION 190

- (Exam Topic 1)

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

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

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

Answer: D

Explanation:

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

NEW QUESTION 193

- (Exam Topic 1)

A company wants to use only IPv6 for all its Amazon EC2 instances. The EC2 instances must not be accessible from the internet, but the EC2 instances must be able to access the internet. The company creates a dual-stack VPC and IPv6-only subnets.

How should a SysOps administrator configure the VPC to meet these requirements?

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

Answer: C

NEW QUESTION 196

- (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 files, 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 197

- (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 201

- (Exam Topic 1)

A company has an application that customers use to search for records on a website. The application's data is stored in an Amazon Aurora DB cluster. The application's usage varies by season and by day of the week.

The website's popularity is increasing, and the website is experiencing slower performance because of increased load on the DB cluster during periods of peak activity. The application logs show that the performance issues occur when users are searching for information. The same search is rarely performed multiple times.

A SysOps administrator must improve the performance of the platform by using a solution that maximizes resource efficiency.

Which solution will meet these requirements?

- A. Deploy an Amazon ElastiCache for Redis cluster in front of the DB cluste
- B. Modify the application to check the cache before the application issues new queries to the databas
- C. Add the results of any queries to the cache.
- D. Deploy an Aurora Replica for the DB cluste
- E. Modify the application to use the reader endpoint for search operation
- F. Use Aurora Auto Scaling to scale the number of replicas based on loa
- G. Most Voted
- H. Use Provisioned IOPS on the storage volumes that support the DB cluster to improve performance sufficiently to support the peak load on the application.
- I. Increase the instance size in the DB cluster to a size that is sufficient to support the peak load on the applicatio
- J. Use Aurora Auto Scaling to scale the instance size based on load.

Answer: B

Explanation:

https://docs.amazonaws.cn/en_us/AmazonRDS/latest/AuroraUserGuide/aurora-replicas-adding.html

NEW QUESTION 204

- (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 207

- (Exam Topic 1)

A company has mandated the use of multi-factor authentication (MFA) for all IAM users, and requires users to make all API calls using the CLI. However, users are not prompted to enter MFA tokens, and are able to run CLI commands without MFA. In an attempt to enforce MFA, the company attached an IAM policy to all users that denies API calls that have not been authenticated with MFA.

What additional step must be taken to ensure that API calls are authenticated using MFA?

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

Answer: D

NEW QUESTION 209

- (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 212

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 217

- (Exam Topic 1)

An organization is running multiple applications for their customers. Each application is deployed by running a base AWS CloudFormation template that configures a new VPC. All applications are run in the same AWS account and AWS Region. A SysOps administrator has noticed that when trying to deploy the same AWS CloudFormation stack, it fails to deploy. What is likely to be the problem?

- A. The Amazon Machine image used is not available in that region.
- B. The AWS CloudFormation template needs to be updated to the latest version.
- C. The VPC configuration parameters have changed and must be updated in the template.
- D. The account has reached the default limit for VPCs allowed.

Answer: D

NEW QUESTION 219

- (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 222

- (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 227

- (Exam Topic 1)

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

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function when a new file is delivered.
- B. Configure the Lambda function to compute an MD5 hash check on the file and store the result in an Amazon DynamoDB table.
- C. The security team can use the values that are stored in DynamoDB to verify the integrity of the delivered files.
- D. Create an AWS Lambda function that is invoked each time a new file is delivered to the CloudTrail bucket.
- E. Configure the Lambda function to compute an MD5 hash check on the file and store the result as a tag in an Amazon S3 object.
- F. The security team can use the information in the tag to verify the integrity of the delivered files.

- G. Enable the CloudTrail file integrity feature on an Amazon S3 bucket
- H. Create an IAM policy that grants the security team access to the file integrity logs that are stored in the S3 bucket.
- I. Enable the CloudTrail file integrity feature on the trail
- J. The security team can use the digest file that is created by CloudTrail to verify the integrity of the delivered files.

Answer: D

Explanation:

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

NEW QUESTION 230

- (Exam Topic 1)

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

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

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

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

Answer: B

NEW QUESTION 232

- (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 237

- (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 242

- (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 247

- (Exam Topic 1)

A SysOps administrator is unable to authenticate an AWS CLI call to an AWS service Which of the following is the cause of this issue?

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

Answer: C

NEW QUESTION 251

- (Exam Topic 1)

A company has an AWS Cloud Formation template that creates an Amazon S3 bucket. A user authenticates to the corporate AWS account with their Active Directory credentials and attempts to deploy the Cloud Formation template. However, the stack creation fails.

Which factors could cause this failure? (Select TWO.)

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

Answer: AC

NEW QUESTION 255

- (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 258

- (Exam Topic 1)

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

What should the SysOps administrator do to meet this requirement?

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

Answer: B

Explanation:

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

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

NEW QUESTION 260

- (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 262

- (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 267

- (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 271

- (Exam Topic 1)

A company runs a web application on three Amazon EC2 instances behind an Application Load Balancer (ALB). The company notices that random periods of increased traffic cause a degradation in the application's performance. A SysOps administrator must scale the application to meet the increased traffic.

Which solution meets these requirements?

A. Create an Amazon CloudWatch alarm to monitor application latency and increase the size of each EC2 instance if the desired threshold is reached.

B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to monitor application latency and add an EC2 instance to the ALB if the desired threshold is reached.

C. Deploy the application to an Auto Scaling group of EC2 instances with a target tracking scaling policy. Attach the ALB to the Auto Scaling group.

D. Deploy the application to an Auto Scaling group of EC2 instances with a scheduled scaling policy. Attach the ALB to the Auto Scaling group.

Answer: C

Explanation:

docs.aws.amazon.com/autoscaling/ec2/userguide/as-scaling-target-tracking.html

NEW QUESTION 272

- (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 276

- (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 278

- (Exam Topic 1)

A company with multiple AWS accounts needs to obtain recommendations for AWS Lambda functions and identify optimal resource configurations for each Lambda function. How should a SysOps administrator provide these recommendations?

- A. Create an AWS Serverless Application Repository and export the Lambda function recommendations.
- B. Enable AWS Compute Optimizer and export the Lambda function recommendations
- C. Enable all features of AWS Organization and export the recommendations from AWS CloudTrailInsights.
- D. Run AWS Trusted Advisor and export the Lambda function recommendations

Answer: B

NEW QUESTION 283

- (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 285

- (Exam Topic 1)

A company uses an Amazon S3 bucket to store data files. The S3 bucket contains hundreds of objects. The company needs to replace a tag on all the objects in the S3 bucket with another tag. What is the MOST operationally efficient way to meet this requirement?

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

Answer: A

Explanation:

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

NEW QUESTION 286

- (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 290

- (Exam Topic 1)

A company wants to build a solution for its business-critical Amazon RDS for MySQL database. The database requires high availability across different geographic locations. A SysOps administrator must build a solution to handle a disaster recovery (DR) scenario with the lowest recovery time objective (RTO) and recovery point objective (RPO).

Which solution meets these requirements?

- A. Create automated snapshots of the database on a schedule
- B. Copy the snapshots to the DR Region.
- C. Create a cross-Region read replica for the database.
- D. Create a Multi-AZ read replica for the database.
- E. Schedule AWS Lambda functions to create snapshots of the source database and to copy the snapshots to a DR Region.

Answer: B

NEW QUESTION 293

- (Exam Topic 1)

A SysOps administrator has created a VPC that contains a public subnet and a private subnet. Amazon EC2 instances that were launched in the private subnet cannot access the internet. The default network ACL is active on all subnets in the VPC, and all security groups allow all outbound traffic:

Which solution will provide the EC2 instances in the private subnet with access to the internet?

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

Answer: A

Explanation:

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

NEW QUESTION 296

- (Exam Topic 1)

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

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

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

Answer: BE

Explanation:

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

NEW QUESTION 298

- (Exam Topic 1)

A company has an existing web application that runs on two Amazon EC2 instances behind an Application Load Balancer (ALB) across two Availability Zones. The application uses an Amazon RDS Multi-AZ DB Instance. Amazon Route 53 record sets route requests for dynamic content to the load balancer and requests for static content to an Amazon S3 bucket. Site visitors are reporting extremely long loading times.

Which actions should be taken to improve the performance of the website? (Select TWO)

- A. Add Amazon CloudFront caching for static content
- B. Change the load balancer listener from HTTPS to TCP
- C. Enable Amazon Route 53 latency-based routing
- D. Implement Amazon EC2 Auto Scaling for the web servers
- E. Move the static content from Amazon S3 to the web servers

Answer: AD

NEW QUESTION 303

- (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 308

- (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 310

- (Exam Topic 1)

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

What is the MOST operationally efficient solution that will improve the application's responsiveness?

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

Answer: C

NEW QUESTION 311

- (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 313

- (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 RDS 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 ACL
- 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 316

- (Exam Topic 1)

An application team uses an Amazon Aurora MySQL DB cluster with one Aurora Replica. The application team notices that the application read performance degrades when user connections exceed 200. The number of user connections is typically consistent around 180, with occasional sudden increases above 200 connections. The application team wants the application to automatically scale as user demand increases or decreases.

Which solution will meet these requirements?

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

Answer: C

NEW QUESTION 317

- (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 321

- (Exam Topic 1)

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

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

Answer: A

Explanation:

Using Amazon S3 Block Public Access

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

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

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

NEW QUESTION 323

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