

## Exam Questions SOA-C02

AWS Certified SysOps Administrator - Associate (SOA-C02)

<https://www.2passeasy.com/dumps/SOA-C02/>





### NEW QUESTION 1

- (Exam Topic 1)

An organization with a large IT department has decided to migrate to AWS. With different job functions in the IT department, it is not desirable to give all users access to all AWS resources. Currently, the organization handles access via LDAP group membership. What is the BEST method to allow access using current LDAP credentials?

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

**Answer:** D

### NEW QUESTION 2

- (Exam Topic 1)

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

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

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

**Answer:** A

### NEW QUESTION 3

- (Exam Topic 1)

A SysOps administrator receives an alert from Amazon GuardDuty about suspicious network activity on an Amazon EC2 instance. The GuardDuty finding lists a new external IP address as a traffic destination. The SysOps administrator does not recognize the external IP address. The SysOps administrator must block traffic to the external IP address that GuardDuty identified.

Which solution will meet this requirement?

- A. Create a new security group to block traffic to the external IP address.
- B. Assign the new security group to the EC2 instance.
- C. Use VPC flow logs with Amazon Athena to block traffic to the external IP address.
- D. Create a network ACL.
- E. Add an outbound deny rule for traffic to the external IP address.
- F. Create a new security group to block traffic to the external IP address.
- G. Assign the new security group to the entire VPC.

**Answer:** C

#### Explanation:

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

### NEW QUESTION 4

- (Exam Topic 1)

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

- A. Add an internet gateway to the VPC. In the route table for the private subnets, add a route to the internet gateway.
- B. Add a NAT gateway to a private subnet.
- C. In the route table for the private subnets, add a route to the NAT gateway.
- D. Add a NAT gateway to a public subnet. In the route table for the private subnets, add a route to the NAT gateway.
- E. Add two internet gateways to the VPC.
- F. In the route table for the private subnets and public subnets, add a route to each internet gateway.

**Answer:** C

### NEW QUESTION 5

- (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 6

- (Exam Topic 1)

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

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

**Answer:** BE

#### Explanation:

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

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

Reference:

[1] [https://docs.aws.amazon.com/organizations/latest/userguide/orgs\\_manage\\_accounts\\_access.html#orgs\\_ma](https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_access.html#orgs_ma)

#### NEW QUESTION 7

- (Exam Topic 1)

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

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

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

**Answer:** D

#### NEW QUESTION 8

- (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 9

- (Exam Topic 1)

A company is rolling out a new version of its website. Management wants to deploy the new website in a limited rollout to 20% of the company's customers. The company uses Amazon Route 53 for its website's DNS solution.

Which configuration will meet these requirements?

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

**Answer:** C



#### NEW QUESTION 10

- (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 10

- (Exam Topic 1)

A company has created a NAT gateway in a public subnet in a VPC. The VPC also contains a private subnet that includes Amazon EC2 instances. The EC2 instances use the NAT gateway to access the internet to download patches and updates. The company has configured a VPC flow log for the elastic network interface of the NAT gateway. The company is publishing the output to Amazon CloudWatch Logs.

A SysOps administrator must identify the top five internet destinations that the EC2 instances in the private subnet communicate with for downloads.

What should the SysOps administrator do to meet this requirement in the MOST operationally efficient way?

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

**Answer: C**

#### NEW QUESTION 15

- (Exam Topic 1)

A SysOps administrator noticed that the cache hit ratio for an Amazon CloudFront distribution is less than 10%.

Which collection of configuration changes will increase the cache hit ratio for the distribution? (Select TWO.)

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

**Answer: AE**

#### Explanation:

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

#### NEW QUESTION 16

- (Exam Topic 1)

A company wants to track its AWS costs in all member accounts that are part of an organization in AWS Organizations. Managers of the member accounts want to receive a notification when the estimated costs exceed a predetermined amount each month. The managers are unable to configure a billing alarm. The IAM permissions for all users are correct. What could be the cause of this issue?

- A. The management/payer account does not have billing alerts turned on.
- B. The company has not configured AWS Resource Access Manager (AWS RAM) to share billing information between the member accounts and the management/payer account.
- C. Amazon GuardDuty is turned on for all the accounts.
- D. The company has not configured an AWS Config rule to monitor billing.

**Answer: B**

#### NEW QUESTION 17

- (Exam Topic 1)

A company has multiple AWS Site-to-Site VPN connections between a VPC and its branch offices. The company manages an Amazon Elasticsearch Service (Amazon ES) domain that is configured with public

access. The Amazon ES domain has an open domain access policy. A SysOps administrator needs to ensure that Amazon ES can be accessed only from the branch offices while preserving existing data.

Which solution will meet these requirements?

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

**Answer: B**



#### NEW QUESTION 19

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 24

- (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 27

- (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 31

- (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 33

- (Exam Topic 1)

A global gaming company is preparing to launch a new game on AWS. The game runs in multiple AWS Regions on a fleet of Amazon EC2 instances. The instances are in an Auto Scaling group behind an

Application Load Balancer (ALB) in each Region. The company plans to use Amazon Route 53 for DNS services. The DNS configuration must direct users to the Region that is closest to them and must provide automated failover.

Which combination of steps should a SysOps administrator take to configure Route 53 to meet these requirements? (Select TWO.)

- A. Create Amazon CloudWatch alarms that monitor the health of the ALB in each Region. Configure Route 53 DNS failover by using a health check that monitors the alarms.
- B. Create Amazon CloudWatch alarms that monitor the health of the EC2 instances in each Region. Configure Route 53 DNS failover by using a health check that monitors the alarms.
- C. Configure Route 53 DNS failover by using a health check that monitors the private address of an EC2 instance in each Region.
- D. Configure Route 53 geoproximity routing. Specify the Regions that are used for the infrastructure.
- E. Configure Route 53 simple routing. Specify the continent, country, and state or province that are used for the infrastructure.

**Answer:** A



**NEW QUESTION 34**

- (Exam Topic 1)

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

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

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

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

**Answer:** DE

**NEW QUESTION 38**

- (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 39**

- (Exam Topic 1)

A company uses AWS Organizations to manage its AWS accounts. A SysOps administrator must create a backup strategy for all Amazon EC2 instances across all the company's AWS accounts.

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

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

**Answer:** B

**NEW QUESTION 44**

- (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 tag.
- 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 46

- (Exam Topic 1)

A company has an internal web application that runs on Amazon EC2 instances behind an Application Load

Balancer. The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A SysOps administrator must make the application highly available.

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

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

**Answer:** C

#### NEW QUESTION 48

- (Exam Topic 1)

A company is running an application on premises and wants to use AWS for data backup All of the data must be available locally The backup application can write only to block-based storage that is compatible with the Portable Operating System Interface (POSIX)

Which backup solution will meet these requirements?

- A. Configure the backup software to use Amazon S3 as the target for the data backups
- B. Configure the backup software to use Amazon S3 Glacier as the target for the data backups
- C. Use AWS Storage Gateway, and configure it to use gateway-cached volumes
- D. Use AWS Storage Gateway, and configure it to use gateway-stored volumes

**Answer:** D

**Explanation:**

<https://docs.aws.amazon.com/storagegateway/latest/userguide/StorageGatewayConcepts.html>

#### NEW QUESTION 50

- (Exam Topic 1)

A gaming application is deployed on four Amazon EC2 instances in a default VPC. The SysOps administrator has noticed consistently high latency in responses as data is transferred among the four instances. There is no way for the administrator to alter the application code.

The MOST effective way to reduce latency is to relaunch the EC2 instances in:

- A. a dedicated VPC.
- B. a single subnet inside the VPC.
- C. a placement group.
- D. a single Availability Zone.

**Answer:** C

#### NEW QUESTION 53

- (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 58

- (Exam Topic 1)

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

Which solution will meet this requirement?

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

**Answer:** A

#### NEW QUESTION 61

- (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 64

- (Exam Topic 1)

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

Where can the administrator find this information?

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

**Answer:** D

#### Explanation:

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

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

#### NEW QUESTION 69

- (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 74

- (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 76

- (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 78

- (Exam Topic 1)

A software company runs a workload on Amazon EC2 instances behind an Application Load Balancer (ALB) A SysOps administrator needs to define a custom



health check for the EC2 instances. What is the MOST operationally efficient solution?

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

**Answer:** B

#### NEW QUESTION 81

- (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 84

- (Exam Topic 1)

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

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

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

**Answer:** D

#### Explanation:

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

#### NEW QUESTION 85

- (Exam Topic 1)

A company's reporting job that used to run in 15 minutes is now taking an hour to run. An application generates the reports. The application runs on Amazon EC2 instances and extracts data from an Amazon RDS for MySQL database.

A SysOps administrator checks the Amazon CloudWatch dashboard for the RDS instance and notices that the Read IOPS metrics are high, even when the reports are not running. The SysOps administrator needs to improve the performance and the availability of the RDS instance.

Which solution will meet these requirements?

- A. Configure an Amazon ElastiCache cluster in front of the RDS instance.
- B. Update the reporting job to query the ElastiCache cluster.
- C. Deploy an RDS read replica.
- D. Update the reporting job to query the reader endpoint.
- E. Create an Amazon CloudFront distribution.
- F. Set the RDS instance as the origin.
- G. Update the reporting job to query the CloudFront distribution.
- H. Increase the size of the RDS instance.

**Answer:** B

#### Explanation:

Using an RDS read replica will improve the performance and availability of the RDS instance by offloading read queries to the replica. This will also ensure that the reporting job completes in a timely manner and does not affect the performance of other queries that might be running on the RDS instance. Additionally, updating the reporting job to query the reader endpoint will ensure that all read queries are directed to the read replica.

Reference: [1] [https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER\\_ReadRepl.html](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ReadRepl.html)

#### NEW QUESTION 90

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer:** C

#### Explanation:

"The limit for a backtrack window is 72 hours.....Backtracking is only available for DB clusters that were created with the Backtrack feature enabled.....Backtracking



"rewinds" the DB cluster to the time you specify. Backtracking is not a replacement for backing up your DB cluster so that you can restore it to a point in time....You can backtrack a DB cluster quickly. Restoring a DB cluster to a point in time launches a new DB cluster and restores it from backup data or a DB cluster snapshot, which can take hours."

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

#### NEW QUESTION 92

- (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 96

- (Exam Topic 1)

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

What change should be made to alleviate the performance problem?

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

**Answer:** B

#### NEW QUESTION 100

- (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 105

- (Exam Topic 1)

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

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

**Answer:** CE

#### Explanation:

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/default-bucket-encryption.html>

You can set the default encryption behavior on an Amazon S3 bucket so that all objects are encrypted when they are stored in the bucket. The objects are encrypted using server-side encryption with either Amazon S3-managed keys (SSE-S3) or AWS Key Management Service (AWS KMS) customer master keys (CMKs).

<https://aws.amazon.com/blogs/security/how-to-prevent-uploads-of-unencrypted-objects-to-amazon-s3/> How to Prevent Uploads of Unencrypted Objects to Amazon S3#

By using an S3 bucket policy, you can enforce the encryption requirement when users upload objects, instead of assigning a restrictive IAM policy to all users.

#### NEW QUESTION 107

- (Exam Topic 1)

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

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



Which action will resolve this issue?

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

**Answer:** C

#### NEW QUESTION 112

- (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 activit
- 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#AddingStopActi>

#### NEW QUESTION 117

- (Exam Topic 1)

A company runs several workloads on AWS. The company identifies five AWS Trusted Advisor service quota metrics to monitor in a specific AWS Region. The company wants to receive email notification each time resource usage exceeds 60% of one of the service quotas.

Which solution will meet these requirements?

- A. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metri
- B. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.
- C. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metri
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification each time that usage exceeds 60% of one of the service quotas.
- E. Use the AWS Service Health Dashboard to monitor each Trusted Advisor service quota metric.Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification each time that usage exceeds 60% of one of the service quotas.
- F. Use the AWS Service Health Dashboard to monitor each Trusted Advisor service quota metric.Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.

**Answer:** A

#### Explanation:

CloudWatch alarms allow you to monitor AWS resources, and you can configure an SNS topic to send an email notification each time one of the alarms is triggered. This will ensure that the company receives email notifications each time one of the service quotas is exceeded, allowing the company to take action as needed.

#### NEW QUESTION 121

- (Exam Topic 1)

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

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

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

**Answer:** B

#### NEW QUESTION 122

- (Exam Topic 1)

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

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

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

**Answer:** D

#### Explanation:

"You can add tags to resources when you create the resource. You can use the resource's service console or API to add, change, or remove those tags one



resource at a time. To add tags to—or edit or delete tags

of—multiple resources at once, use Tag Editor. With Tag Editor, you search for the resources that you want to tag, and then manage tags for the resources in your search results." <https://docs.aws.amazon.com/ARG/latest/userguide/tag-editor.html>

#### NEW QUESTION 124

- (Exam Topic 1)

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

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

**Answer:** D

#### Explanation:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html> "When you enable log file integrity validation, CloudTrail creates a hash for every log file that it delivers.

Every hour, CloudTrail also creates and delivers a file that references the log files for the last hour and contains a hash of each. This file is called a digest file. Validated log files are invaluable in security and forensic investigations"

#### NEW QUESTION 129

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 134

- (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 139

- (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 141

- (Exam Topic 1)

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

- A. Create an IAM policy in each developer account that has read-only access related to VPC resources. Assign the policy to an IAM user.



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

**Answer:** D

#### NEW QUESTION 145

- (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 147

- (Exam Topic 1)

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

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

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

**Answer:** A

#### Explanation:

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

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

#### NEW QUESTION 152

- (Exam Topic 1)

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

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

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

Which solution will meet these requirements?

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 153

- (Exam Topic 1)

A company is migrating its production file server to AWS. All data that is stored on the file server must remain accessible if an Availability Zone becomes unavailable or when system maintenance is performed. Users must be able to interact with the file server through the SMB protocol. Users also must have the ability to manage file permissions by using Windows ACLs.

Which solution will meet these requirements?

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



F. Configure Microsoft Distributed File System Replication (DFSR).

**Answer:** B

**Explanation:**

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

#### NEW QUESTION 156

- (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 161

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 166

- (Exam Topic 1)

An application runs on multiple Amazon EC2 instances in an Auto Scaling group. The Auto Scaling group is

configured to use the latest version of a launch template. A SysOps administrator must devise a solution that centrally manages the application logs and retains the logs for no more than 90 days.

Which solution will meet these requirements?

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

**Answer:** C

#### NEW QUESTION 169

- (Exam Topic 1)

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

How should the administrator implement this process?

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

**Answer:** B

#### NEW QUESTION 170

- (Exam Topic 1)

A company hosts a database on an Amazon RDS Multi-AZ DB instance. The database is not encrypted. The company's new security policy requires all AWS



resources to be encrypted at rest and in transit.

What should a SysOps administrator do to encrypt the database?

- A. Configure encryption on the existing DB instance.
- B. Take a snapshot of the DB instance.
- C. Encrypt the snapshot.
- D. Restore the snapshot to the same DB instance.
- E. Encrypt the standby replica in a secondary Availability Zone.
- F. Promote the standby replica to the primary DB instance.
- G. Take a snapshot of the DB instance.
- H. Copy and encrypt the snapshot.
- I. Create a new DB instance by restoring the encrypted copy.

**Answer: B**

#### NEW QUESTION 175

- (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 177

- (Exam Topic 1)

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

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

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

**Answer: D**

#### Explanation:

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

#### NEW QUESTION 180

- (Exam Topic 1)

A company runs its Infrastructure on Amazon EC2 Instances that run in an Auto Scaling group. Recently, the company promoted faulty code to the entire EC2 fleet. This faulty code caused the Auto Scaling group to scale the instances before any of the application logs could be retrieved.

What should a SysOps administrator do to retain the application logs after instances are terminated?

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

**Answer: B**

#### NEW QUESTION 181

- (Exam Topic 1)

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



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

**Answer:** B

#### NEW QUESTION 182

- (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 183

- (Exam Topic 1)

A company's backend infrastructure contains an Amazon EC2 instance in a private subnet. The private subnet has a route to the internet through a NAT gateway in a public subnet. The instance must allow connectivity to a secure web server on the internet to retrieve data at regular intervals. The client software times out with an error message that indicates that the client software could not establish the TCP connection. What should a SysOps administrator do to resolve this error?

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

**Answer:** D

#### NEW QUESTION 187

- (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 192

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 195

- (Exam Topic 1)

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



change that exposes the application externally must be restricted automatically.  
Which solution meets these requirements in the MOST operationally efficient manner?

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

**NEW QUESTION 198**

- (Exam Topic 1)

A SysOps Administrator runs a web application that is using a microservices approach whereby different responsibilities of the application have been divided in a separate microservice running on a different Amazon EC2 instance. The administrator has been tasked with reconfiguring the infrastructure to support this approach.

How can the administrator accomplish this with the LEAST administrative overhead?

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

**Answer: C**

**Explanation:**

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

**NEW QUESTION 200**

- (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 201**

- (Exam Topic 1)

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



#### Public Subnet (10.0.1.0/24) Route Table

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	IGW

#### Private Subnet (10.0.2.0/24) Route Table

Destination	Target
10.0.0.0/16	local

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

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

**Answer: B**

#### NEW QUESTION 202

- (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 204

- (Exam Topic 1)

A SysOps administrator is helping a development team deploy an application to AWS. The AWS CloudFormation template includes an Amazon Linux EC2 Instance, an Amazon Aurora DB cluster, and a hard-coded database password that must be rotated every 90 days. What is the MOST secure way to manage the database password?

- A. Use the AWS SecretsManager Secret resource with the GenerateSecretString property to automatically generate a password. Use the AWS SecretsManager RotationSchedule resource to define a rotation schedule for the password. Configure the application to retrieve the secret from AWS Secrets Manager to access the database.
- B. Use the AWS SecretsManager Secret resource with the SecretString property. Accept a password as a CloudFormation parameter. Use the AllowedPattern property of the CloudFormation parameter to require a minimum length, uppercase and lowercase letters, and special characters. Configure the application to retrieve the secret from AWS Secrets Manager to access the database.
- C. Use the AWS SSM Parameter resource. Accept input as a CloudFormation parameter to store the parameter as a secure string. Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database.
- D. Use the AWS SSM Parameter resource. Accept input as a CloudFormation parameter to store the parameter as a string. Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database.

**Answer: A**

#### NEW QUESTION 208

- (Exam Topic 1)

A company is undergoing an external audit of its systems, which run wholly on AWS. A SysOps administrator must supply documentation of Payment Card Industry Data Security Standard (PCI DSS) compliance for the infrastructure managed by AWS. Which set of actions should the SysOps administrator take to meet this requirement?

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

**Answer: A**

#### NEW QUESTION 211

- (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 214

- (Exam Topic 1)

A company is using Amazon CloudFront to serve static content for its web application to its users. The CloudFront distribution uses an existing on-premises website as a custom origin.

The company requires the use of TLS between CloudFront and the origin server. This configuration has worked as expected for several months. However, users are now experiencing HTTP 502 (Bad Gateway) errors when they view webpages that include content from the CloudFront distribution.

What should a SysOps administrator do to resolve this problem?

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

**Answer:** A

#### Explanation:

HTTP 502 errors from CloudFront can occur because of the following reasons:

There's an SSL negotiation failure because the origin is using SSL/TLS protocols and ciphers that aren't supported by CloudFront.

There's an SSL negotiation failure because the SSL certificate on the origin is expired or invalid, or because the certificate chain is invalid.

There's a host header mismatch in the SSL negotiation between your CloudFront distribution and the custom origin.

The custom origin isn't responding on the ports specified in the origin settings of the CloudFront distribution. The custom origin is ending the connection to CloudFront too quickly.

<https://aws.amazon.com/premiumsupport/knowledge-center/resolve-cloudfront-connection-error/>

#### NEW QUESTION 218

- (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 221

- (Exam Topic 1)

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

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

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

**Answer:** D

#### NEW QUESTION 224

- (Exam Topic 1)

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

Which solution will meet these requirements?

- A. Enable S3 server access logging for audit log
- B. Set up an Amazon Simple Notification Service (Amazon SNS) notification for the S3 bucke
- C. Select DeleteObject for the event type for the alert system.
- D. Enable S3 server access logging for audit log
- E. Launch an Amazon EC2 instance for the alert system. Run a cron job on the EC2 instance to download the access logs each day and to scan for a DeleteObject event.
- F. Use Amazon CloudWatch Logs for audit log



- G. Use Amazon CloudWatch alarms with an Amazon Simple Notification Service (Amazon SNS) notification for the alert system.
- H. Use Amazon CloudWatch Logs for audit log
- I. Launch an Amazon EC2 instance for The alert system.Run a cron job on the EC2 Instance each day to compare the list of the items with the list from the previous da
- J. Configure the cron job to send a notification if an item is missing.

**Answer:** A

**Explanation:**

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

**NEW QUESTION 226**

- (Exam Topic 1)

A global company handles a large amount of personally identifiable information (PII) through an internal web portal. The company's application runs in a corporate data center that is connected to AWS through an AWS Direct Connect connection. The application stores the PII in Amazon S3. According to a compliance requirement, traffic from the web portal to Amazon S3 must not travel across the internet. What should a SysOps administrator do to meet the compliance requirement?

- A. Provision an interface VPC endpoint for Amazon S3. Modify the application to use the interface endpoint.
- B. Configure AWS Network Firewall to redirect traffic to the internal S3 address.
- C. Modify the application to use the S3 path-style endpoint.
- D. Set up a range of VPC network ACLs to redirect traffic to the Internal S3 address.

**Answer:** B

**NEW QUESTION 228**

- (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 1AM 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 232**

- (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 235**

- (Exam Topic 1)

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

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

**Answer:** D



#### NEW QUESTION 238

- (Exam Topic 1)

A company runs its entire suite of applications on Amazon EC2 instances. The company plans to move the applications to containers and AWS Fargate. Within 6 months, the company plans to retire its EC2 instances and use only Fargate. The company has been able to estimate its future Fargate costs.

A SysOps administrator needs to choose a purchasing option to help the company minimize costs. The SysOps administrator must maximize any discounts that are available and must ensure that there are no unused reservations.

Which purchasing option will meet these requirements?

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

**Answer:** C

#### NEW QUESTION 241

- (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 243

- (Exam Topic 1)

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

What is a possible reason for this issue?

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

**Answer:** D

#### NEW QUESTION 245

- (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
- B. Configure CloudFront to use the Amazon OpenSearch Service (Amazon Elasticsearch Service) domain as a log destination.
- C. 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.
- D. 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.
- E. Create an Amazon S3 bucket that is configured with no default encryption
- F. Enable encryption in the CloudFront distribution, and use the S3 bucket as a log destination.

**Answer:** C

#### NEW QUESTION 247

- (Exam Topic 1)

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

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

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

**Answer:** D



#### NEW QUESTION 252

- (Exam Topic 1)

A company is running a website on Amazon EC2 instances that are in an Auto Scaling group. When the website traffic increases, additional instances take several minutes to become available because of a long-running user data script that installs software. A SysOps administrator must decrease the time that is required (or new instances to become available). Which action should the SysOps administrator take to meet this requirement?

- A. Reduce the scaling thresholds so that instances are added before traffic increases.
- B. Purchase Reserved Instances to cover 100% of the maximum capacity of the Auto Scaling group.
- C. Update the Auto Scaling group to launch instances that have a storage optimized instance type.
- D. Use EC2 Image Builder to prepare an Amazon Machine Image (AMI) that has pre-installed software.

**Answer: D**

#### Explanation:

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

#### NEW QUESTION 256

- (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 258

- (Exam Topic 1)

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

What should the SysOps administrator do to meet this requirement?

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

**Answer: A**

#### NEW QUESTION 259

- (Exam Topic 1)

A company needs to create a daily Amazon Machine Image (AMI) of an existing Amazon Linux EC2 instance that hosts the operating system, application, and database on multiple attached Amazon Elastic Block Store (Amazon EBS) volumes. File system integrity must be maintained. Which solution will meet these requirements?

- A. Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the no-reboot parameter enabled.
- B. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- C. Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the reboot parameter enabled.
- D. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- E. Use AWS Backup to create a backup plan with a backup rule that runs daily.
- F. Assign the resource ID of the EC2 instance with the no-reboot parameter enabled.
- G. Use AWS Backup to create a backup plan with a backup rule that runs daily.
- H. Assign the resource ID of the EC2 instance with the reboot parameter enabled.



**Answer:** B

**Explanation:**

[https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating\\_EBSbacked\\_WinAMI.html](https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating_EBSbacked_WinAMI.html) "NoReboot By default, Amazon EC2 attempts to shut down and reboot the instance before creating the image.

If the No Reboot option is set, Amazon EC2 doesn't shut down the instance before creating the image. When this option is used, file system integrity on the created image can't be guaranteed." Besides, we can use AWS EventBridge to invoke Lambda function

[https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API\\_CreateImage.html](https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_CreateImage.html)

**NEW QUESTION 260**

- (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 IAM credentials.
- B. Set up Amazon Inspector
- C. Scan and monitor resources for unauthorized logins.
- D. Set up AWS Config
- 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 262**

- (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 265**

- (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 267**

- (Exam Topic 1)

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

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

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

**Answer:** BD

**NEW QUESTION 268**

- (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 271

- (Exam Topic 1)

A company uses an Amazon Simple Queue Service (Amazon SQS) standard queue with its application. The application sends messages to the queue with unique message bodies. The company decides to switch to an SQS FIFO queue.

What must the company do to migrate to an SQS FIFO queue?

- A. Create a new SQS FIFO queue. Turn on content-based deduplication on the new FIFO queue. Update the application to include a message group ID in the messages.
- B. Create a new SQS FIFO queue. Update the application to include the DelaySeconds parameter in the messages.
- C. Modify the queue type from SQS standard to SQS FIFO. Turn off content-based deduplication on the queue. Update the application to include a message group ID in the messages.
- D. Modify the queue type from SQS standard to SQS FIFO. Update the application to send messages with identical message bodies and to include the DelaySeconds parameter in the messages.

**Answer:** A

#### Explanation:

FIFO queues don't support per-message delays, only per-queue delays. If your application sets the same value of the DelaySeconds parameter on each message, you must modify your application to remove the per-message delay and set DelaySeconds on the entire queue instead.

<https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/FIFO-queues-moving.html>

#### NEW QUESTION 272

- (Exam Topic 1)

A compliance team requires all administrator passwords for Amazon RDS DB instances to be changed at least annually.

Which solution meets this requirement in the MOST operationally efficient manner?

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

**Answer:** A

#### NEW QUESTION 273

- (Exam Topic 1)

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

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

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

**Answer:** A

#### NEW QUESTION 274

- (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 --no flag.

**Answer:** C

#### NEW QUESTION 276

- (Exam Topic 1)

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

The team has an existing IAM role for authorization. A SysOps administrator must provide the team with



access to the Instances by granting IAM permissions to this Which solution will meet this requirement?

- A. Add a statement to the IAM role policy to allow the ssm:StartSession action on the instance
- B. Instruct the team to use AWS Systems Manager Session Manager to connect to the Instances by using the assumed IAM role.
- C. Associate an Elastic IP address and a security group with each instance
- D. Add the engineers' IP addresses to the security group inbound rule
- E. Add a statement to the IAM role policy to allow the ec2:AuthorizeSecurityGroupIngress action so that the team can connect to the Instances.
- F. Create a bastion host with an EC2 Instance, and associate the bastion host with the VP
- G. Add a statement to the IAM role policy to allow the ec2:CreateVpnConnection action on the bastion host
- H. Instruct the team to use the bastion host endpoint to connect to the instances.
- 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 277

- (Exam Topic 1)

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

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

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

**Answer:** D

#### NEW QUESTION 281

- (Exam Topic 1)

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

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

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

**Answer:** D

#### NEW QUESTION 282

- (Exam Topic 1)

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

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

- A. Enter the DB instance connection string into the VPC1 route table.
- B. Configure VPC peering between the two VPCs.
- C. Add the same IPv4 CIDR range for both VPCs.
- D. Connect to the DB instance by using the DB instance's public IP address.

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 286

- (Exam Topic 1)

A company wants to be alerted through email when IAM CreateUser API calls are made within its AWS account.

Which combination of actions should a SysOps administrator take to meet this requirement? (Choose two.)

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



**Answer:** AD

**Explanation:**

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

**NEW QUESTION 290**

- (Exam Topic 1)

A SysOps administrator created an AWS Cloud Formation template that provisions Amazon EC2 instances, an Elastic Load Balancer (ELB), and an Amazon RDS DB instance. During stack creation, the creation of the EC2 instances and the creation of the ELB are successful. However, the creation of the DB instance fails. What is the default behavior of CloudFormation in this scenario?

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

**Answer:** C

**NEW QUESTION 294**

- (Exam Topic 1)

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

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 297**

- (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 301**

- (Exam Topic 1)

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

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

**Answer:** A

**NEW QUESTION 304**

- (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 309

- (Exam Topic 1)

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

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

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

**Answer:** A

#### NEW QUESTION 311

- (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 312

- (Exam Topic 1)

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

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

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

**Answer:** BE

#### Explanation:

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

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

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

#### NEW QUESTION 317

- (Exam Topic 1)

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

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

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

- A. Store the database password as an environment variable for each Lambda function
- B. Create a new Lambda function that is named PasswordRotate
- C. Use Amazon EventBridge (Amazon CloudWatch Events) to schedule the PasswordRotate function every 30 days to change the database password and update the environment variable for each Lambda function.
- D. Use AWS Key Management Service (AWS KMS) to encrypt the database password and to store the encrypted password as an environment variable for each Lambda function
- E. Grant each Lambda function access to the KMS key so that the database password can be decrypted when required



- F. Create a new Lambda function that is named PasswordRotate to change the password every 30 days.
- G. Use AWS Secrets Manager to store credentials for the databases
- H. Create a Secrets Manager secret, and select the database so that Secrets Manager will use a Lambda function to update the database password automatically
- I. Specify an automatic rotation schedule of 30 days
- J. Update each Lambda function to access the database password from SecretsManager.
- K. Use AWS Systems Manager Parameter Store to create a secure string to store credentials for the databases
- L. Create a new Lambda function called PasswordRotat
- M. Use Amazon EventBridge (Amazon CloudWatch Events) to schedule the PasswordRotate function every 30 days to change the database password and to update the secret within Parameter Store
- N. Update each Lambda function to access the database password from Parameter Store.

**Answer: C**

**Explanation:**

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

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

**NEW QUESTION 320**

- (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 321**

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer: B**

**NEW QUESTION 326**

- (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 330**

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