

# Amazon

## Exam Questions AWS-SysOps

Amazon AWS Certified SysOps Administrator - Associate



### NEW QUESTION 1

- (Exam Topic 2)

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

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

Configure Amazon EventBridge to meet the following requirements.

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

Input path:

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

Input Path:

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

Input template:

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

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

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

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

### NEW QUESTION 2

- (Exam Topic 1)

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

How should a SysOps administrator meet these requirements?

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

**Answer: D**

#### Explanation:

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

<https://medium.com/awesome-cloud/aws-difference-between-application-load-balancer-and-network-load-balancer> [https://aws.amazon.com/global-accelerator/faqs/?nc1=h\\_ls](https://aws.amazon.com/global-accelerator/faqs/?nc1=h_ls)

### NEW QUESTION 3

- (Exam Topic 1)

A company runs workloads on 90 Amazon EC2 instances in the eu-west-1 Region in an AWS account. In 2 months, the company will migrate the workloads from eu-west-1 to the eu-west-3 Region.

The company needs to reduce the cost of the EC2 instances. The company is willing to make a 1-year commitment that will begin next week. The company must choose an EC2 Instance purchasing option that will provide discounts for the 90 EC2 Instances regardless of Region during the 1-year period. Which solution will meet these requirements?

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

**Answer: B**

### NEW QUESTION 4

- (Exam Topic 1)

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

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

**Answer: B**

#### Explanation:

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

### NEW QUESTION 5

- (Exam Topic 1)

A compliance learn requires all administrator passwords for Amazon RDS DB instances to be changed at least annually. Which solution meets this requirement in the MOST operationally efficient manner?

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

**Answer: A**

### NEW QUESTION 6

- (Exam Topic 1)

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

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

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

**Answer: B**

#### Explanation:

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

### NEW QUESTION 7

- (Exam Topic 1)

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

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

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

**Answer:** AB

**NEW QUESTION 8**

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 9**

- (Exam Topic 1)

A company needs to view a list of security groups that are open to the internet on port 3389. What should a SysOps administrator do to meet this requirement?

- A. Configure Amazon GuardDuty to scan security groups and report unrestricted access on port 3389.
- B. Configure a service control policy (SCP) to identify security groups that allow unrestricted access on port 3389.
- C. Use AWS Identity and Access Management Access Analyzer to find any instances that have unrestricted access on port 3389.
- D. Use AWS Trusted Advisor to find security groups that allow unrestricted access on port 3389.

**Answer:** D

**NEW QUESTION 10**

- (Exam Topic 1)

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

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

**Answer:** A

**NEW QUESTION 10**

- (Exam Topic 1)

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

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

**Answer:** B

**NEW QUESTION 15**

- (Exam Topic 1)

A SysOps administrator is notified that an Amazon EC2 instance has stopped responding. The AWS Management Console indicates that the system status checks are failing. What should the administrator do first to resolve this issue?

- A. Reboot the EC2 instance so it can be launched on a new host.
- B. Stop and then start the EC2 instance so that it can be launched on a new host.
- C. Terminate the EC2 instance and relaunch it.
- D. View the AWS CloudTrail log to investigate what changed on the EC2 instance.

**Answer:** B

**Explanation:**

<https://aws.amazon.com/premiumsupport/knowledge-center/ec2-windows-system-status-check-fail/>

#### NEW QUESTION 20

- (Exam Topic 1)

A company is testing Amazon Elasticsearch Service (Amazon ES) as a solution for analyzing system logs from a fleet of Amazon EC2 instances. During the test phase, the domain operates on a single-node cluster. A SysOps administrator needs to transition the test domain into a highly available production-grade deployment.

Which Amazon ES configuration should the SysOps administrator use to meet this requirement?

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

**Answer:** B

#### NEW QUESTION 24

- (Exam Topic 1)

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

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

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

**Answer:** B

#### Explanation:

[https://docs.aws.amazon.com/zh\\_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html](https://docs.aws.amazon.com/zh_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html)

#### NEW QUESTION 27

- (Exam Topic 1)

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

What should the SysOps administrator do to troubleshoot this issue?

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

**Answer:** B

#### NEW QUESTION 32

- (Exam Topic 1)

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

What should the SysOps administrator do to resolve this error?

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

**Answer:** D

#### NEW QUESTION 34

- (Exam Topic 1)

A SysOps administrator is optimizing the cost of a workload. The workload is running in multiple AWS Regions and is using AWS Lambda with Amazon EC2 On-Demand Instances for the compute. The overall usage is predictable. The amount of compute that is consumed in each Region varies, depending on the users' locations.

Which approach should the SysOps administrator use to optimize this workload?

- A. Purchase Compute Savings Plans based on the usage during the past 30 days
- B. Purchase Convertible Reserved Instances by calculating the usage baseline.

- C. Purchase EC2 Instance Savings Plane based on the usage during the past 30 days
- D. Purchase Standard Reserved Instances by calculating the usage baseline.

**Answer: C**

#### NEW QUESTION 38

- (Exam Topic 1)

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

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

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

**Answer: B**

#### NEW QUESTION 43

- (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 47

- (Exam Topic 1)

A company needs to view a list of security groups that are open to the internet on port 3389. What should a SysOps administrator do to meet this requirement?

- A. Configure Amazon GuardDuty to scan security groups and report unrestricted access on port 3389.
- B. Configure a service control policy (SCP) to identify security groups that allow unrestricted access on port 3389.
- C. Use AWS Identity and Access Management Access Analyzer to find any instances that have unrestricted access on port 3389.
- D. Use AWS Trusted Advisor to find security groups that allow unrestricted access on port 3389

**Answer: D**

#### NEW QUESTION 49

- (Exam Topic 1)

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

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

**Answer: D**

#### NEW QUESTION 53

- (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 58

- (Exam Topic 1)

An Amazon EC2 instance is running an application that uses Amazon Simple Queue Service (Amazon SQS) queues. A SysOps administrator must ensure that the application can read, write, and delete messages from the SQS queues. Which solution will meet these requirements in the MOST secure manner?

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

**Answer:** D

#### NEW QUESTION 59

- (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 60

- (Exam Topic 1)

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

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

**Answer:** C

#### NEW QUESTION 62

- (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 64

- (Exam Topic 1)

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

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

**Answer: C**

#### NEW QUESTION 67

- (Exam Topic 1)

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

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

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

**Answer: B**

#### Explanation:

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

#### NEW QUESTION 69

- (Exam Topic 1)

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

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

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

**Answer: C**

#### NEW QUESTION 74

- (Exam Topic 1)

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

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

**Answer: A**

#### NEW QUESTION 79

- (Exam Topic 1)

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

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

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

**Answer: A**

#### NEW QUESTION 82

- (Exam Topic 1)

A company has attached the following policy to an IAM user:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "rds:Describe*",
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": "ec2:*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    },
    {
      "Effect": "Deny",
      "NotAction": [
        "ec2:*"
      ]
    },
    {
      "Effect": "Allow",
      "Action": "ec2:*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    },
    {
      "Effect": "Deny",
      "NotAction": [
        "ec2:*",
        "s3:GetObject"
      ],
      "Resource": "*"
    }
  ]
}
```

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

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

**Answer: C**

#### NEW QUESTION 86

- (Exam Topic 1)

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

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

**Answer: A**

#### Explanation:

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

### NEW QUESTION 90

- (Exam Topic 1)

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

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

**Answer:** D

### NEW QUESTION 93

- (Exam Topic 1)

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

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

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

**Answer:** D

#### Explanation:

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

### NEW QUESTION 96

- (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 98

- (Exam Topic 1)

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

Which next step should be taken to configure Route 53?

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

**Answer:** A

### NEW QUESTION 101

- (Exam Topic 1)

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

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

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

**Answer:** A

**Explanation:**

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

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

**NEW QUESTION 105**

- (Exam Topic 1)

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

What should the SysOps administrator do to resolve this issue?

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

**Answer:** D

**NEW QUESTION 106**

- (Exam Topic 1)

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

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

Which action will meet these requirements?

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 111**

- (Exam Topic 1)

A company has a high-performance Windows workload. The workload requires a storage volume that provides consistent performance of 10,000 KDPS. The company does not want to pay for additional unneeded capacity to achieve this performance.

Which solution will meet these requirements with the LEAST cost?

- A. Use a Provisioned IOPS SSD (io1) Amazon Elastic Block Store (Amazon EBS) volume that is configured with 10,000 provisioned IOPS
- B. Use a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume that is configured with 10,000 provisioned IOPS.
- C. Use an Amazon Elastic File System (Amazon EFS) file system with Max I/O mode.
- D. Use an Amazon FSx for Windows File Server file system that is configured with 10,000 IOPS

**Answer:** A

**NEW QUESTION 112**

- (Exam Topic 1)

A company is expanding globally and needs to back up data on Amazon Elastic Block Store (Amazon EBS) volumes to a different AWS Region. Most of the EBS volumes that store the data are encrypted, but some of the EBS volumes are unencrypted. The company needs the backup data from all the EBS volumes to be encrypted.

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

- A. Configure a lifecycle policy in Amazon Data Lifecycle Manager (Amazon DLM) to create the EBS volume snapshots with cross-Region backups enabled
- B. Encrypt the snapshot copies by using AWS Key Management Service (AWS KMS).
- C. Create a point-in-time snapshot of the EBS volume
- D. When the snapshot status is COMPLETED, copy the snapshots to another Region and set the Encrypted parameter to False.
- E. Create a point-in-time snapshot of the EBS volume
- F. Copy the snapshots to an Amazon S3 bucket that uses server-side encryption
- G. Turn on S3 Cross-Region Replication on the S3 bucket.

- H. Schedule an AWS Lambda function with the Python runtime
- I. Configure the Lambda function to create the EBS volume snapshots, encrypt the unencrypted snapshots, and copy the snapshots to another Region.

**Answer:** A

**Explanation:**

Encrypt the snapshot copies by using AWS Key Management Service (AWS KMS). This solution will allow the company to automatically create encrypted snapshots of the EBS volumes and copy them to different AWS Regions with minimal effort.

**NEW QUESTION 113**

- (Exam Topic 1)

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

What must the SysOps administrator do to resolve this issue?

- A. Connect to each instance by using SSH. Install Systems Manager Agent on each instance. Configure Systems Manager Agent to start automatically when the instances start up.
- B. Use AWS Certificate Manager (ACM) to create a TLS certificate. Import the certificate into each instance. Configure Systems Manager Agent to use the TLS certificate for secure communications.
- C. Connect to each instance by using SSH. Create an ssm-user account. Add the ssm-user account to the /etc/sudoers.d directory.
- D. Attach an IAM instance profile to the instances. Ensure that the instance profile contains the AmazonSSMManagedInstanceCore policy.

**Answer:** D

**NEW QUESTION 118**

- (Exam Topic 1)

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

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

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

**Answer:** C

**NEW QUESTION 120**

- (Exam Topic 1)

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

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

**Answer:** B

**Explanation:**

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

**NEW QUESTION 123**

- (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 127

- (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 130

- (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 changes
- D. Apply the AWS-ConfigureCloudTrailLogging automatic remediation action.
- E. Create an AWS Config rule that is invoked when CloudTrail configuration changes
- 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 133

- (Exam Topic 1)

A company is releasing a new static website hosted on Amazon S3. The static website hosting feature was enabled on the bucket and content was uploaded; however, upon navigating to the site, the following error message is received:  
403 Forbidden - Access Denied  
What change should be made to fix this error?

- A. Add a bucket policy that grants everyone read access to the bucket.
- B. Add a bucket policy that grants everyone read access to the bucket objects.
- C. Remove the default bucket policy that denies read access to the bucket.
- D. Configure cross-origin resource sharing (CORS) on the bucket.

**Answer: B**

#### NEW QUESTION 136

- (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 138

- (Exam Topic 1)

A SysOps administrator noticed that a large number of Elastic IP addresses are being created on the company's AWS account, but they are not being associated with Amazon EC2 instances, and are incurring Elastic IP address charges in the monthly bill. How can the administrator identify who is creating the Elastic IP addresses?

- A. Attach a cost-allocation tag to each requested Elastic IP address with the IAM user name of the developer who creates it.
- B. Query AWS CloudTrail logs by using Amazon Athena to search for Elastic IP address events.
- C. Create a CloudWatch alarm on the EIPCreated metric and send an Amazon SNS notification when the alarm triggers.
- D. Use Amazon Inspector to get a report of all Elastic IP addresses created in the last 30 days.

**Answer: B**

**NEW QUESTION 142**

- (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 144**

- (Exam Topic 1)

A company is using Amazon Elastic Container Service (Amazon ECS) to run a containerized application on Amazon EC2 instances. A SysOps administrator needs to monitor only traffic flows between the ECS tasks.

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

- A. Configure Amazon CloudWatch Logs on the elastic network interface of each task.
- B. Configure VPC Flow Logs on the elastic network interface of each task.
- C. Specify the awsvpc network mode in the task definition.
- D. Specify the bridge network mode in the task definition.
- E. Specify the host network mode in the task definition.

**Answer: AE**

**NEW QUESTION 149**

- (Exam Topic 1)

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

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

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

**Answer: D**

**NEW QUESTION 150**

- (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 152

- (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 156

- (Exam Topic 1)

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

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

**Answer:** A

### NEW QUESTION 160

- (Exam Topic 1)

A SysOps administrator is reviewing AWS Trusted Advisor warnings and encounters a warning for an S3 bucket policy that has open access permissions. While discussing the issue with the bucket owner, the administrator realizes the S3 bucket is an origin for an Amazon CloudFront web distribution. Which action should the administrator take to ensure that users access objects in Amazon S3 by using only CloudFront URLs?

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

**Answer:** B

#### Explanation:

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

### NEW QUESTION 162

- (Exam Topic 1)

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

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

**Answer:** B

### NEW QUESTION 167

- (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 168

- (Exam Topic 1)

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

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

**Answer: C**

#### NEW QUESTION 173

- (Exam Topic 1)

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

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

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

**Answer: A**

#### Explanation:

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

Reference:

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

#### NEW QUESTION 177

- (Exam Topic 1)

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

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

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

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

**Answer: C**

#### NEW QUESTION 178

- (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 179

- (Exam Topic 1)

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

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

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

**Answer:** CE

#### NEW QUESTION 183

- (Exam Topic 1)

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

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

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 185

- (Exam Topic 1)

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

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

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

**Answer:** AC

#### NEW QUESTION 187

- (Exam Topic 1)

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

What should the SysOps administrator do to meet this requirement?

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

**Answer:** C

#### NEW QUESTION 188

- (Exam Topic 1)

A SysOps administrator is maintaining a web application using an Amazon CloudFront web distribution, an Application Load Balancer (ALB), Amazon RDS, and Amazon EC2 in a VPC. All services have logging enabled. The administrator needs to investigate HTTP Layer 7 status codes from the web application.

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

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

**Answer:** CD

#### Explanation:

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

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

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

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

#### NEW QUESTION 192

- (Exam Topic 1)

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

How should a SysOps administrator remediate this issue?

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

**Answer:** A

#### NEW QUESTION 194

- (Exam Topic 1)

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

Which AWS service will mitigate this issue?

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

**Answer:** B

#### NEW QUESTION 199

- (Exam Topic 1)

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

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

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

Which solution will meet these requirements?

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 201

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer:** C

**NEW QUESTION 204**

- (Exam Topic 1)

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

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

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

**Answer:** D

**NEW QUESTION 207**

- (Exam Topic 1)

An ecommerce company uses an Amazon ElastiCache for Memcached cluster for in-memory caching of popular product queries on the shopping site. When viewing recent Amazon CloudWatch metrics data for the ElastiCache cluster, the SysOps administrator notices a large number of evictions.

Which of the following actions will reduce these evictions? (Choose two.)

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

**Answer:** AC

**Explanation:**

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

**NEW QUESTION 212**

- (Exam Topic 1)

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

Which solution should the SysOps administrator implement to meet these requirements?

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

**Answer:** C

**NEW QUESTION 216**

- (Exam Topic 1)

A company has deployed a web application in a VPC that has subnets in three Availability Zones. The company launches three Amazon EC2 instances from an EC2 Auto Scaling group behind an Application Load Balancer (ALB).

A SysOps administrator notices that two of the EC2 instances are in the same Availability Zone, rather than being distributed evenly across all three Availability Zones. There are no errors in the Auto Scaling group's activity history.

What is the MOST likely reason for the unexpected placement of EC2 instances?

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

**Answer:** C

**Explanation:**

the autoscaling group is responsible to add the instances in the subnets

**NEW QUESTION 217**

- (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 221

- (Exam Topic 1)

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

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

**Answer:** CD

#### Explanation:

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

#### NEW QUESTION 222

- (Exam Topic 1)

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

Which solution will meet this requirement?

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 227

- (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 232

- (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 234

- (Exam Topic 1)

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

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

**Answer:** AD

#### NEW QUESTION 237

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer: C**

**Explanation:**

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

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

**NEW QUESTION 239**

- (Exam Topic 1)

A SysOps administrator has successfully deployed a VPC with an AWS Cloud Formation template The SysOps administrator wants to deploy me 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 OrganizationAccountAcccssKolc IAM role from the management accoun
- 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 fc 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 244**

- (Exam Topic 1)

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

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

**Answer: B**

**NEW QUESTION 245**

- (Exam Topic 1)

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

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

**Answer: D**

**Explanation:**

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

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

**NEW QUESTION 249**

- (Exam Topic 1)

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

Which solution will meet these requirements?

- A. Set up an AWS Config rule to alert based on changes to any CloudFormation stack An AWS Lambda function can then describe the stack to determine if any protected resources were modified and cancel the operation
- B. Set up an Amazon CloudWatch Events event with a rule to trigger based on any CloudFormation API call An AWS Lambda function can then describe the stack to determine if any protected resources were modified and cancel the operation

- C. Launch the CloudFormation templates using a stack policy with an explicit allow for all resources and an explicit deny of the protected resources with an action of Update
- D. Attach an IAM policy to the DevOps team role that prevents a CloudFormation stack from updating, with a condition based on the specific Amazon Resource Names (ARNs) of the protected resources

**Answer: B**

#### NEW QUESTION 252

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer: D**

#### Explanation:

To make the application accessible only through the CloudFront distribution and not directly through the Application Load Balancer (ALB), you can add a custom HTTP header to the origin settings for the CloudFront distribution. You can then create a rule in the ALB listener to forward requests that contain the matching custom header and its value to the origin. You can also add a default rule to the ALB listener to return a fixed response code of 403 for requests that do not contain the matching custom header. This will allow you to redirect all requests to the CloudFront distribution and block direct access to the application through the ALB.

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/restrict-access-to-load-balancer.html>

#### NEW QUESTION 255

- (Exam Topic 1)

A company is attempting to manage its costs in the AWS Cloud. A SysOps administrator needs specific company-defined tags that are assigned to resources to appear on the billing report.

What should the SysOps administrator do to meet this requirement?

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

**Answer: B**

#### Explanation:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/custom-tags.html> "User-defined tags are tags that you define, create, and apply to resources. After you have created and applied the user-defined tags, you can activate by using the Billing and Cost Management console for cost allocation tracking."

To meet this requirement, the SysOps administrator should activate the company-defined tags as user-defined cost allocation tags. This will ensure that the tags appear on the billing report and that the resources can be tracked with the specific tags. The other options (activating the tags as AWS generated cost allocation tags, creating a new cost category and selecting the account billing dimension, and creating a new AWS Cost and Usage Report and including the resource IDs) will not meet the requirements and are not the correct solutions for this issue.

#### NEW QUESTION 260

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer: B**

**Explanation:**

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

**NEW QUESTION 265**

- (Exam Topic 1)

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

Which AWS service will mitigate this issue?

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

**Answer: B**

**Explanation:**

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

**NEW QUESTION 268**

- (Exam Topic 1)

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

- A. Create an Amazon CloudWatch alarm to monitor application latency and increase the size of each EC2 instance if the desired threshold is reached.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to monitor application latency and add an EC2 instance to the ALB if the desired threshold is reached.
- C. Deploy the application to an Auto Scaling group of EC2 instances with a target tracking scaling policy. Attach the ALB to the Auto Scaling group.
- D. Deploy the application to an Auto Scaling group of EC2 instances with a scheduled scaling policy. Attach the ALB to the Auto Scaling group.

**Answer: C**

**Explanation:**

[docs.aws.amazon.com/autoscaling/ec2/userguide/as-scaling-target-tracking.html](https://docs.aws.amazon.com/autoscaling/ec2/userguide/as-scaling-target-tracking.html)

**NEW QUESTION 272**

- (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 276**

- (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 281**

- (Exam Topic 1)

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

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

- F. Disable RI discount sharing in the management account.
- G. Purchase RIs in the management account
- H. Disable RI discount sharing in the member accounts.

**Answer:** A

**Explanation:**

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

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

**NEW QUESTION 285**

- (Exam Topic 1)

A company 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 288**

- (Exam Topic 1)

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

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

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 293**

- (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 296**

- (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 301

- (Exam Topic 1)

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

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

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

**Answer:** BE

#### Explanation:

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

### NEW QUESTION 305

- (Exam Topic 1)

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

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

Which action will ensure that the CloudWatch alarms function correctly?

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

**Answer:** A

### NEW QUESTION 309

- (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 310

- (Exam Topic 1)

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

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

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

**Answer:** C

### NEW QUESTION 312

- (Exam Topic 1)

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

Which AWS feature should the SysOps administrator use to meet these requirements?

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

**Answer:** C

### NEW QUESTION 316

- (Exam Topic 1)

A company is partnering with an external vendor to provide data processing services. For this integration, the vendor must host the company's data in an Amazon

S3 bucket in the vendor's AWS account. The vendor is allowing the company to provide an AWS Key Management Service (AWS KMS) key to encrypt the company's data. The vendor has provided an IAM role Amazon Resource Name (ARN) to the company for this integration. What should a SysOps administrator do to configure this integration?

- A. Create a new KMS ke
- B. Add the vendor's IAM role ARN to the KMS key polic
- C. Provide the new KMS key ARN to the vendor.
- D. Create a new KMS ke
- E. Create a new IAM use
- F. Add the vendor's IAM role ARN to an inline policy that is attached to the IAM use
- G. Provide the new IAM user ARN to the vendor.
- H. Configure encryption using the KMS managed S3 ke
- I. Add the vendor's IAM role ARN to the KMS managed S3 key polic
- J. Provide the KMS managed S3 key ARN to the vendor.
- K. Configure encryption using the KMS managed S3 ke
- L. Create an S3 bucke
- M. Add the vendor's IAM role ARN to the S3 bucket polic
- N. Provide the S3 bucket ARN to the vendor.

**Answer: C**

#### NEW QUESTION 319

- (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. Add an outbound deny rule for traffic to the external IP address
- E. Create a new security group to block traffic to the external IP address. Assign the new security group to the entire VPC

**Answer: A**

#### NEW QUESTION 322

- (Exam Topic 1)

A SysOps administrator must create a solution that immediately notifies software developers if an AWS Lambda function experiences an error. Which solution will meet this requirement?

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

**Answer: A**

#### NEW QUESTION 327

- (Exam Topic 1)

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

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

**Answer: A**

#### Explanation:

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

#### NEW QUESTION 328

- (Exam Topic 1)

A company stores its data in an Amazon S3 bucket. The company is required to classify the data and find any sensitive personal information in its S3 files.

Which solution will meet these requirements?

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

**Answer: D**

**Explanation:**

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

**NEW QUESTION 333**

- (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 335**

- (Exam Topic 1)

A company needs to archive all audit logs for 10 years. The company must protect the logs from any future edits. Which solution will meet these requirements?

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

**Answer: B**

**Explanation:**

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

[https://docs.aws.amazon.com/zh\\_tw/AmazonS3/latest/userguide/object-lock.html](https://docs.aws.amazon.com/zh_tw/AmazonS3/latest/userguide/object-lock.html)

**NEW QUESTION 337**

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

**Answer: C**

**NEW QUESTION 339**

- (Exam Topic 1)

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

Which solution will meet these requirements?

- A. Create an AWS::SecretsManager::Secret resource in the CloudFormation templat
- B. Reference thecredentials in the AWS::RDS::DBInstance resource by using the resolve:secretsmanager dynamic reference.
- C. Create an AWS::SecretsManager::Secret resource in the CloudFormation templat

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

**Answer:** A

#### **NEW QUESTION 340**

- (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 344**

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