



**Amazon**

## **Exam Questions AWS-Certified-Solutions-Architect-Professional**

Amazon AWS Certified Solutions Architect Professional

### NEW QUESTION 1

- (Exam Topic 2)

A company needs to optimize the cost of backups for Amazon Elastic File System (Amazon EFS). A solutions architect has already configured a backup plan in AWS Backup for the EFS backups. The backup plan contains a rule with a lifecycle configuration to transition EFS backups to cold storage after 7 days and to keep the backups for an additional 90 days.

After 1 month, the company reviews its EFS storage costs and notices an increase in the EFS backup costs. The EFS backup cold storage produces almost double the cost of the EFS warm backup storage.

What should the solutions architect do to optimize the cost?

- A. Modify the backup rule's lifecycle configuration to move the EFS backups to cold storage after 1 day. Set the backup retention period to 30 days.
- B. Modify the backup rule's lifecycle configuration to move the EFS backups to cold storage after 8 days. Set the backup retention period to 30 days.
- C. Modify the backup rule's lifecycle configuration to move the EFS backups to cold storage after 1 day. Set the backup retention period to 90 days.
- D. Modify the backup rule's lifecycle configuration to move the EFS backups to cold storage after 8 days. Set the backup retention period to 98 days.

**Answer:** A

#### Explanation:

The cost of EFS backup cold storage is \$0.01 per GB-month, whereas the cost of EFS backup warm storage is \$0.05 per GB-month<sup>1</sup>. Therefore, moving the backups to cold storage as soon as possible will reduce the storage cost. However, cold storage backups must be retained for a minimum of 90 days<sup>2</sup>, otherwise they incur a pro-rated charge equal to the storage charge for the remaining days<sup>1</sup>. Therefore, setting the backup retention period to 30 days will incur a penalty of 60 days of cold storage cost for each backup deleted. This penalty will still be lower than keeping the backups in warm storage for 7 days and then in cold storage for 83 days, which is the current configuration. Therefore, option A is the most cost-effective solution.

### NEW QUESTION 2

- (Exam Topic 2)

A company is running a two-tier web-based application in an on-premises data center. The application layer consists of a single server running a stateful application. The application connects to a PostgreSQL database running on a separate server. The application's user base is expected to grow significantly, so the company is migrating the application and database to AWS. The solution will use Amazon Aurora PostgreSQL, Amazon EC2 Auto Scaling, and Elastic Load Balancing.

Which solution will provide a consistent user experience that will allow the application and database tiers to scale?

- A. Enable Aurora Auto Scaling for Aurora Replica
- B. Use a Network Load Balancer with the least outstanding requests routing algorithm and sticky sessions enabled.
- C. Enable Aurora Auto Scaling for Aurora writer
- D. Use an Application Load Balancer with the round robin routing algorithm and sticky sessions enabled.
- E. Enable Aurora Auto Scaling for Aurora Replica
- F. Use an Application Load Balancer with the round robin routing and sticky sessions enabled.
- G. Enable Aurora Scaling for Aurora writer
- H. Use a Network Load Balancer with the least outstanding requests routing algorithm and sticky sessions enabled.

**Answer:** C

#### Explanation:

Aurora Auto Scaling enables your Aurora DB cluster to handle sudden increases in connectivity or workload. When the connectivity or workload decreases, Aurora Auto Scaling removes unnecessary Aurora Replicas so that you don't pay for unused provisioned DB instances

### NEW QUESTION 3

- (Exam Topic 2)

A company built an application based on AWS Lambda deployed in an AWS CloudFormation stack. The last production release of the web application introduced an issue that resulted in an outage lasting several minutes. A solutions architect must adjust the deployment process to support a canary release.

Which solution will meet these requirements?

- A. Create an alias for every new deployed version of the Lambda function
- B. Use the AWS CLI update-alias command with the routing-config parameter to distribute the load.
- C. Deploy the application into a new CloudFormation stack
- D. Use an Amazon Route 53 weighted routing policy to distribute the load.
- E. Create a version for every new deployed Lambda function
- F. Use the AWS CLI update-function-configuration command with the routing-config parameter to distribute the load.
- G. Configure AWS CodeDeploy and use CodeDeployDefault.OneAtATime in the Deployment configuration to distribute the load.

**Answer:** A

#### Explanation:

<https://aws.amazon.com/blogs/compute/implementing-canary-deployments-of-aws-lambda-functions-with-alias>

### NEW QUESTION 4

- (Exam Topic 2)

A company needs to optimize the cost of an AWS environment that contains multiple accounts in an organization in AWS Organizations. The company conducted cost optimization activities 3 years ago and purchased Amazon EC2 Standard Reserved Instances that recently expired.

The company needs EC2 instances for 3 more years. Additionally, the company has deployed a new serverless workload.

Which strategy will provide the company with the MOST cost savings?

- A. Purchase the same Reserved Instances for an additional 3-year term with All Upfront payment
- B. Purchase a 3-year Compute Savings Plan with All Upfront payment in the management account to cover any additional compute costs.
- C. Purchase a 1-year Compute Savings Plan with No Upfront payment in each member account
- D. Use the Savings Plans recommendations in the AWS Cost Management console to choose the Compute Savings Plan.
- E. Purchase a 3-year EC2 Instance Savings Plan with No Upfront payment in the management account to cover EC2 costs in each AWS Region
- F. Purchase a 3-year Compute Savings Plan with No Upfront payment in the management account to cover any additional compute costs.

- G. Purchase a 3-year EC2 Instance Savings Plan with All Upfront payment in each member account
- H. Use the Savings Plans recommendations in the AWS Cost Management console to choose the EC2 Instance Savings Plan.

**Answer:** A

**Explanation:**

The company should purchase the same Reserved Instances for an additional 3-year term with All Upfront payment. The company should purchase a 3-year Compute Savings Plan with All Upfront payment in the management account to cover any additional compute costs. This solution will provide the company with the most cost savings because Reserved Instances and Savings Plans are both pricing models that offer significant discounts compared to On-Demand pricing. Reserved Instances are commitments to use a specific instance type and size in a single Region for a one- or three-year term. You can choose between three payment options:

No Upfront, Partial Upfront, or All Upfront. The more you pay upfront, the greater the discount. Savings Plans are flexible pricing models that offer low prices on EC2 instances, Fargate, and Lambda usage, in exchange for a commitment to a consistent amount of usage (measured in \$/hour) for a one- or three-year term. You can choose between two types of Savings Plans: Compute Savings Plans and EC2 Instance Savings Plans. Compute Savings Plans apply to any EC2 instance regardless of Region, instance family, operating system, or tenancy, including those that are part of EMR, ECS, or EKS clusters, or launched by Fargate or Lambda. EC2 Instance Savings Plans apply to a specific instance family within a Region and provide the most savings<sup>2</sup>. By purchasing the same Reserved Instances for an additional 3-year term with All Upfront payment, the company can lock in the lowest possible price for its EC2 instances that run continuously for 3 years. By purchasing a 3-year Compute Savings Plan with All Upfront payment in the management account, the company can benefit from additional discounts on any other compute usage across its member accounts.

The other options are not correct because:

- Purchasing a 1-year Compute Savings Plan with No Upfront payment in each member account would not provide as much cost savings as purchasing a 3-year Compute Savings Plan with All Upfront payment in the management account. A 1-year term offers lower discounts than a 3-year term, and a No Upfront payment option offers lower discounts than an All Upfront payment option. Also, purchasing a Savings Plan in each member account would not allow the company to share the benefits of unused Savings Plan discounts across its organization.
- Purchasing a 3-year EC2 Instance Savings Plan with No Upfront payment in the management account to cover EC2 costs in each AWS Region would not provide as much cost savings as purchasing Reserved Instances for an additional 3-year term with All Upfront payment. An EC2 Instance Savings Plan offers lower discounts than Reserved Instances for the same instance family and Region. Also, a No Upfront payment option offers lower discounts than an All Upfront payment option.
- Purchasing a 3-year EC2 Instance Savings Plan with All Upfront payment in each member account would not provide as much flexibility or cost savings as purchasing a 3-year Compute Savings Plan with All Upfront payment in the management account. An EC2 Instance Savings Plan applies only to a specific instance family within a Region and does not cover Fargate or Lambda usage. Also, purchasing a Savings Plan in each member account would not allow the company to share the benefits of unused Savings Plan discounts across its organization.

References:

- <https://aws.amazon.com/ec2/pricing/reserved-instances/>
- <https://aws.amazon.com/savingsplans/>

**NEW QUESTION 5**

- (Exam Topic 2)

A solutions architect needs to improve an application that is hosted in the AWS Cloud. The application uses an Amazon Aurora MySQL DB instance that is experiencing overloaded connections. Most of the application's operations insert records into the database. The application currently stores credentials in a text-based configuration file.

The solutions architect needs to implement a solution so that the application can handle the current connection load. The solution must keep the credentials secure and must provide the ability to rotate the credentials automatically on a regular basis.

Which solution will meet these requirements?

- A. Deploy an Amazon RDS Proxy layer in front of the DB instance
- B. Store the connection credentials as a secret in AWS Secrets Manager.
- C. Deploy an Amazon RDS Proxy layer in front of the DB instance
- D. Store the connection credentials in AWS Systems Manager Parameter Store.
- E. Create an Aurora Replica
- F. Store the connection credentials as a secret in AWS Secrets Manager.
- G. Create an Aurora Replica
- H. Store the connection credentials in AWS Systems Manager Parameter Store.

**Answer:** A

**Explanation:**

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/rds-proxy.html>

**NEW QUESTION 6**

- (Exam Topic 2)

A company is using AWS CloudFormation to deploy its infrastructure. The company is concerned that, if a production CloudFormation stack is deleted, important data stored in Amazon RDS databases or Amazon EBS volumes might also be deleted.

How can the company prevent users from accidentally deleting data in this way?

- A. Modify the CloudFormation templates to add a DeletionPolicy attribute to RDS and EBS resources.
- B. Configure a stack policy that disallows the deletion of RDS and EBS resources.
- C. Modify IAM policies to deny deleting RDS and EBS resources that are tagged with an "awscloudformation: stack-name" tag.
- D. Use AWS Config rules to prevent deleting RDS and EBS resources.

**Answer:** A

**Explanation:**

With the DeletionPolicy attribute you can preserve or (in some cases) backup a resource when its stack is deleted. You specify a DeletionPolicy attribute for each resource that you want to control. If a resource has no DeletionPolicy attribute, AWS CloudFormation deletes the resource by default. To keep a resource when its stack is deleted, specify Retain for that resource. You can use retain for any resource. For example, you can retain a nested stack, Amazon S3 bucket, or EC2 instance so that you can continue to use or modify those resources after you delete their stacks.

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-attribute-deletionpolicy.html>

### NEW QUESTION 7

- (Exam Topic 2)

A company has an application that runs on Amazon EC2 instances in an Amazon EC2 Auto Scaling group. The company uses AWS CodePipeline to deploy the application. The instances that run in the Auto Scaling group are constantly changing because of scaling events. When the company deploys new application code versions, the company installs the AWS CodeDeploy agent on any new target EC2 instances and associates the instances with the CodeDeploy deployment group. The application is set to go live within the next 24 hours. What should a solutions architect recommend to automate the application deployment process with the LEAST amount of operational overhead?

- A. Configure Amazon EventBridge to invoke an AWS Lambda function when a new EC2 instance is launched into the Auto Scaling group
- B. Code the Lambda function to associate the EC2 instances with the CodeDeploy deployment group.
- C. Write a script to suspend Amazon EC2 Auto Scaling operations before the deployment of new code. When the deployment is complete, create a new AMI and configure the Auto Scaling group's launch template to use the new AMI for new launches
- D. Resume Amazon EC2 Auto Scaling operations.
- E. Create a new AWS CodeBuild project that creates a new AMI that contains the new code. Configure CodeBuild to update the Auto Scaling group's launch template to the new AMI
- F. Run an Amazon EC2 Auto Scaling instance refresh operation.
- G. Create a new AMI that has the CodeDeploy agent installed
- H. Configure the Auto Scaling group's launch template to use the new AMI
- I. Associate the CodeDeploy deployment group with the Auto Scaling group instead of the EC2 instances.

**Answer:** D

**Explanation:**

<https://docs.aws.amazon.com/codedeploy/latest/userguide/integrations-aws-auto-scaling.html>

### NEW QUESTION 8

- (Exam Topic 2)

A company has an application in the AWS Cloud. The application runs on a fleet of 20 Amazon EC2 instances. The EC2 instances are persistent and store data on multiple attached Amazon Elastic Block Store (Amazon EBS) volumes. The company must maintain backups in a separate AWS Region. The company must be able to recover the EC2 instances and their configuration within 1 business day, with loss of no more than 1 day's worth of data. The company has limited staff and needs a backup solution that optimizes operational efficiency and cost. The company already has created an AWS CloudFormation template that can deploy the required network configuration in a secondary Region. Which solution will meet these requirements?

- A. Create a second CloudFormation template that can recreate the EC2 instances in the secondary Region. Run daily multivolume snapshots by using AWS Systems Manager Automation runbook
- B. Copy the snapshots to the secondary Region
- C. In the event of a failure, launch the CloudFormation templates, restore the EBS volumes from snapshots, and transfer usage to the secondary Region.
- D. Use Amazon Data Lifecycle Manager (Amazon DLM) to create daily multivolume snapshots of the EBS volume
- E. In the event of a failure, launch the CloudFormation template and use Amazon DLM to restore the EBS volumes and transfer usage to the secondary Region.
- F. Use AWS Backup to create a scheduled daily backup plan for the EC2 instance
- G. Configure the backup task to copy the backups to a vault in the secondary Region
- H. In the event of a failure, launch the CloudFormation template, restore the instance volumes and configurations from the backup vault, and transfer usage to the secondary Region.
- I. Deploy EC2 instances of the same size and configuration to the secondary Region
- J. Configure AWS DataSync daily to copy data from the primary Region to the secondary Region
- K. In the event of a failure, launch the CloudFormation template and transfer usage to the secondary Region.

**Answer:** C

**Explanation:**

Using AWS Backup to create a scheduled daily backup plan for the EC2 instances will enable taking snapshots of the EC2 instances and their attached EBS volumes. Configuring the backup task to copy the backups to a vault in the secondary Region will enable maintaining backups in a separate Region. In the event of a failure, launching the CloudFormation template will enable deploying the network configuration in the secondary Region. Restoring the instance volumes and configurations from the backup vault will enable recovering the EC2 instances and their data. Transferring usage to the secondary Region will enable resuming operations.

### NEW QUESTION 9

- (Exam Topic 2)

A solutions architect needs to define a reference architecture for a solution for three-tier applications with web, application, and NoSQL data layers. The reference architecture must meet the following requirements:

- High availability within an AWS Region
- Able to fail over in 1 minute to another AWS Region for disaster recovery
- Provide the most efficient solution while minimizing the impact on the user experience. Which combination of steps will meet these requirements? (Select THREE.)

- A. Use an Amazon Route 53 weighted routing policy set to 100/0 across the two selected Regions
- B. Set Time to Live (TTL) to 1 hour.
- C. Use an Amazon Route 53 failover routing policy for failover from the primary Region to the disaster recovery Region
- D. Set Time to Live (TTL) to 30 seconds.
- E. Use a global table within Amazon DynamoDB so data can be accessed in the two selected Regions.
- F. Back up data from an Amazon DynamoDB table in the primary Region every 60 minutes and then write the data to Amazon S3. Use S3 Cross-Region replication to copy the data from the primary Region to the disaster recovery Region
- G. Have a script import the data into DynamoDB in a disaster recovery scenario.
- H. Implement a hot standby model using Auto Scaling groups for the web and application layers across multiple Availability Zones in the Region
- I. Use zonal Reserved Instances for the minimum number of servers and On-Demand Instances for any additional resources.
- J. Use Auto Scaling groups for the web and application layers across multiple Availability Zones in the Region
- K. Use Spot Instances for the required resources.

**Answer:** BCE

**Explanation:**

The requirements can be achieved by using an Amazon DynamoDB database with a global table. DynamoDB is a NoSQL database so it fits the requirements. A global table also allows both reads and writes to occur in both Regions. For the web and application tiers Auto Scaling groups should be configured. Due to the 1-minute RTO these must be configured in an active/passive state. The best pricing model to lower price but ensure resources are available when needed is to use a combination of zonal reserved instances and on-demand instances. To failover between the Regions, a Route 53 failover routing policy can be configured with a TTL configured on the record of 30 seconds. This will mean clients must resolve against Route 53 every 30 seconds to get the latest record. In a failover scenario the clients would be redirected to the secondary site if the primary site is unhealthy.

**NEW QUESTION 10**

- (Exam Topic 2)

A company is storing sensitive data in an Amazon S3 bucket. The company must log all activities for objects in the S3 bucket and must keep the logs for 5 years. The company's security team also must receive an email notification every time there is an attempt to delete data in the S3 bucket.

Which combination of steps will meet these requirements MOST cost-effectively? (Select THREE.)

- A. Configure AWS CloudTrail to log S3 data events.
- B. Configure S3 server access logging for the S3 bucket.
- C. Configure Amazon S3 to send object deletion events to Amazon Simple Email Service (Amazon SES).
- D. Configure Amazon S3 to send object deletion events to an Amazon EventBridge event bus that publishes to an Amazon Simple Notification Service (Amazon SNS) topic.
- E. Configure Amazon S3 to send the logs to Amazon Timestream with data storage tiering.
- F. Configure a new S3 bucket to store the logs with an S3 Lifecycle policy.

**Answer:** ADF

**Explanation:**

Configuring AWS CloudTrail to log S3 data events will enable logging all activities for objects in the S3 bucket<sup>1</sup>. Data events are object-level API operations such as GetObject, DeleteObject, and PutObject<sup>1</sup>. Configuring Amazon S3 to send object deletion events to an Amazon EventBridge event bus that publishes to an Amazon Simple Notification Service (Amazon SNS) topic will enable sending email notifications every time there is an attempt to delete data in the S3 bucket<sup>2</sup>. EventBridge can route events from S3 to SNS, which can send emails to subscribers<sup>2</sup>. Configuring a new S3 bucket to store the logs with an S3 Lifecycle policy will enable keeping the logs for 5 years in a cost-effective way<sup>3</sup>. A lifecycle policy can transition the logs to a cheaper storage class such as Glacier or delete them after a specified period of time<sup>3</sup>.

**NEW QUESTION 10**

- (Exam Topic 2)

A company's interactive web application uses an Amazon CloudFront distribution to serve images from an Amazon S3 bucket. Occasionally, third-party tools ingest corrupted images into the S3 bucket. This image corruption causes a poor user experience in the application later. The company has successfully implemented and tested Python logic to detect corrupt images.

A solutions architect must recommend a solution to integrate the detection logic with minimal latency between the ingestion and serving.

Which solution will meet these requirements?

- A. Use a Lambda@Edge function that is invoked by a viewer-response event.
- B. Use a Lambda@Edge function that is invoked by an origin-response event.
- C. Use an S3 event notification that invokes an AWS Lambda function.
- D. Use an S3 event notification that invokes an AWS Step Functions state machine.

**Answer:** B

**Explanation:**

This solution will allow the detection logic to be run as soon as the image is uploaded to the S3 bucket, before it is served to users via the CloudFront distribution. This way, the detection logic can quickly identify any corrupted images and prevent them from being served to users, minimizing latency between ingestion and serving.

Reference: AWS Lambda@Edge documentation:

<https://docs.aws.amazon.com/lambda/latest/dg/lambda-edge.html> You can use Lambda@Edge to run your code in response to CloudFront events, such as a viewer request, an origin request, a response, or an error.

**NEW QUESTION 11**

- (Exam Topic 2)

A company uses AWS Organizations with a single OU named Production to manage multiple accounts All accounts are members of the Production OU Administrators use deny list SCPs in the root of the organization to manage access to restricted services.

The company recently acquired a new business unit and invited the new unit's existing AWS account to the organization Once onboarded the administrators of the new business unit discovered that they are not able to update existing AWS Config rules to meet the company's policies.

Which option will allow administrators to make changes and continue to enforce the current policies without introducing additional long-term maintenance?

- A. Remove the organization's root SCPs that limit access to AWS Config Create AWS Service Catalog products for the company's standard AWS Config rules and deploy them throughout the organization, including the new account.
- B. Create a temporary OU named Onboarding for the new account Apply an SCP to the Onboarding OU to allow AWS Config actions Move the new account to the Production OU when adjustments to AWS Config are complete
- C. Convert the organization's root SCPs from deny list SCPs to allow list SCPs to allow the required services only Temporarily apply an SCP to the organization's root that allows AWS Config actions for principals only in the new account.
- D. Create a temporary OU named Onboarding for the new account Apply an SCP to the Onboarding OU to allow AWS Config action
- E. Move the organization's root SCP to the Production O
- F. Move the new account to the Production OU when adjustments to AWS Config are complete.

**Answer:** D

**Explanation:**

An SCP at a lower level can't add a permission after it is blocked by an SCP at a higher level. SCPs can only filter; they never add permissions. SO you need to create a new OU for the new account assign an SCP, and move the root SCP to Production OU. Then move the new account to production OU when AWS config is done.

### NEW QUESTION 13

- (Exam Topic 2)

A company is running an application that uses an Amazon ElastiCache for Redis cluster as a caching layer. A recent security audit revealed that the company has configured encryption at rest for ElastiCache. However, the company did not configure ElastiCache to use encryption in transit. Additionally, users can access the cache without authentication.

A solutions architect must make changes to require user authentication and to ensure that the company is using end-to-end encryption.

Which solution will meet these requirements?

- A. Create an AUTH token. Store the token in AWS System Manager Parameter Store, as an encrypted parameter. Create a new cluster with AUTH and configure encryption in transit. Update the application to retrieve the AUTH token from Parameter Store when necessary and to use the AUTH token for authentication.
- B. Create an AUTH token. Store the token in AWS Secrets Manager. Configure the existing cluster to use the AUTH token and configure encryption in transit. Update the application to retrieve the AUTH token from Secrets Manager when necessary and to use the AUTH token for authentication.
- C. Create an SSL certificate. Store the certificate in AWS Secrets Manager. Create a new cluster and configure encryption in transit. Update the application to retrieve the SSL certificate from Secrets Manager when necessary and to use the certificate for authentication.
- D. Create an SSL certificate. Store the certificate in AWS Systems Manager Parameter Store, as an encrypted advanced parameter. Update the existing cluster to configure encryption in transit. Update the application to retrieve the SSL certificate from Parameter Store when necessary and to use the certificate for authentication.

**Answer: B**

#### Explanation:

Creating an AUTH token and storing it in AWS Secrets Manager and configuring the existing cluster to use the AUTH token and configure encryption in transit, and updating the application to retrieve the AUTH token from Secrets Manager when necessary and to use the AUTH token for authentication, would meet the requirements for user authentication and end-to-end encryption.

AWS Secrets Manager is a service that enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. Secrets Manager also enables you to encrypt the data and ensure that only authorized users and applications can access it.

By configuring the existing cluster to use the AUTH token and encryption in transit, all data will be encrypted as it is sent over the network, providing additional security for the data stored in ElastiCache.

Additionally, by updating the application to retrieve the AUTH token from Secrets Manager when necessary and to use the AUTH token for authentication, it ensures that only authorized users and applications can access the cache.

Reference:

AWS Secrets Manager documentation: <https://aws.amazon.com/secrets-manager/> Encryption in transit for ElastiCache:

<https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/encryption.html>

Authentication and Authorization for ElastiCache: <https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/accessing-elasticache.html>

### NEW QUESTION 14

- (Exam Topic 2)

A solutions architect at a large company needs to set up network security for outbound traffic to the internet from all AWS accounts within an organization in AWS Organizations. The organization has more than 100 AWS accounts, and the accounts route to each other by using a centralized AWS Transit Gateway. Each account has both an internet gateway and a NAT gateway for outbound traffic to the internet. The company deploys resources only into a single AWS Region. The company needs the ability to add centrally managed rule-based filtering on all outbound traffic to the internet for all AWS accounts in the organization. The peak load of outbound traffic will not exceed 25 Gbps in each Availability Zone.

Which solution meets these requirements?

- A. Create a new VPC for outbound traffic to the internet.
- B. Connect the existing transit gateway to the new VPC.
- C. Configure a new NAT gateway.
- D. Create an Auto Scaling group of Amazon EC2 instances that run an open-source internet proxy for rule-based filtering across all Availability Zones in the Region.
- E. Modify all default routes to point to the proxy's Auto Scaling group.
- F. Create a new VPC for outbound traffic to the internet.
- G. Connect the existing transit gateway to the new VPC.
- H. Configure a new NAT gateway.
- I. Use an AWS Network Firewall firewall for rule-based filtering.
- J. Create Network Firewall endpoints in each Availability Zone.
- K. Modify all default routes to point to the Network Firewall endpoints.
- L. Create an AWS Network Firewall firewall for rule-based filtering in each AWS account.
- M. Modify all default routes to point to the Network Firewall firewalls in each account.
- N. In each AWS account, create an Auto Scaling group of network-optimized Amazon EC2 instances that run an open-source internet proxy for rule-based filtering.
- O. Modify all default routes to point to the proxy's Auto Scaling group.

**Answer: B**

#### Explanation:

<https://aws.amazon.com/blogs/networking-and-content-delivery/deployment-models-for-aws-network-firewall/>

### NEW QUESTION 16

- (Exam Topic 2)

A company needs to migrate its customer transactions database from on-premises to AWS. The database resides on an Oracle DB instance that runs on a Linux server. According to a new security requirement, the company must rotate the database password each year.

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

- A. Convert the database to Amazon DynamoDB by using the AWS Schema Conversion Tool (AWS SCT). Store the password in AWS Systems Manager Parameter Store.
- B. Create an Amazon CloudWatch alarm to invoke an AWS Lambda function for yearly password rotation.
- C. Migrate the database to Amazon RDS for Oracle.
- D. Store the password in AWS Secrets Manager.
- E. Turn on automatic rotation.
- F. Configure a yearly rotation schedule.
- G. Migrate the database to an Amazon EC2 instance.
- H. Use AWS Systems Manager Parameter Store to keep and rotate the connection string by using an AWS Lambda function on a yearly schedule.
- I. Migrate the database to Amazon Neptune by using the AWS Schema Conversion Tool (AWS SCT). Create an Amazon CloudWatch alarm to invoke an AWS Lambda function for yearly password rotation.

Lambda function for yearly password rotation.

**Answer: B**

**NEW QUESTION 20**

- (Exam Topic 2)

A company is implementing a serverless architecture by using AWS Lambda functions that need to access a Microsoft SQL Server DB instance on Amazon RDS. The company has separate environments for development and production, including a clone of the database system. The company's developers are allowed to access the credentials for the development database. However, the credentials for the production database must be encrypted with a key that only members of the IT security team's IAM user group can access. This key must be rotated on a regular basis. What should a solutions architect do in the production environment to meet these requirements?

- A. Store the database credentials in AWS Systems Manager Parameter Store by using a SecureString parameter that is encrypted by an AWS Key Management Service (AWS KMS) customer managed ke
- B. Attach a role to each Lambda function to provide access to the SecureString paramete
- C. Restrict access to the Securestring parameter and the customer managed key so that only the IT security team can access the parameter and the key.
- D. Encrypt the database credentials by using the AWS Key Management Service (AWS KMS) default Lambda ke
- E. Store the credentials in the environment variables of each Lambda functio
- F. Load the credentials from the environment variables in the Lambda cod
- G. Restrict access to the KMS key o that only the IT security team can access the key.
- H. Store the database credentials in the environment variables of each Lambda functio
- I. Encrypt the environment variables by using an AWS Key Management Service (AWS KMS) customer managed ke
- J. Restrict access to the customer managed key so that only the IT security team can access the key.
- K. Store the database credentials in AWS Secrets Manager as a secret that is associated with an AWS Key Management Service (AWS KMS) customermanaged ke
- L. Attach a role to each Lambda function to provide access to the secre
- M. Restrict access to the secret and the customer managed key so that only the IT security team can access the secret and the key.

**Answer: D**

**Explanation:**

Storing the database credentials in AWS Secrets Manager as a secret that is associated with an AWS Key Management Service (AWS KMS) customer managed key will enable encrypting and managing the credentials securely<sup>1</sup>. AWS Secrets Manager helps you to securely encrypt, store, and retrieve credentials for your databases and other services<sup>2</sup>. Attaching a role to each Lambda function to provide access to the secret will enable retrieving the credentials programmatically<sup>1</sup>. Restricting access to the secret and the customer managed key so that only members of the IT security team's IAM user group can access them will enable meeting the security requirements<sup>1</sup>.

**NEW QUESTION 25**

- (Exam Topic 2)

A company is updating an application that customers use to make online orders. The number of attacks on the application by bad actors has increased recently. The company will host the updated application on an Amazon Elastic Container Service (Amazon ECS) cluster. The company will use Amazon DynamoDB to store application data. A public Application Load Balancer (ALB) will provide end users with access to the application. The company must prevent prevent attacks and ensure business continuity with minimal service interruptions during an ongoing attack. Which combination of steps will meet these requirements MOST cost-effectively? (Select TWO.)

- A. Create an Amazon CloudFront distribution with the ALB as the origi
- B. Add a custom header and random value on the CloudFront domai
- C. Configure the ALB to conditionally forward traffic if the header and value match.
- D. Deploy the application in two AWS Region
- E. Configure Amazon Route 53 to route to both Regions with equal weight.
- F. Configure auto scaling for Amazon ECS task
- G. Create a DynamoDB Accelerator (DAX) cluster.
- H. Configure Amazon ElastiCache to reduce overhead on DynamoDB.
- I. Deploy an AWS WAF web ACL that includes an appropriate rule grou
- J. Associate the web ACL with the Amazon CloudFront distribution.

**Answer: AE**

**Explanation:**

The company should create an Amazon CloudFront distribution with the ALB as the origin. The company should add a custom header and random value on the CloudFront domain. The company should configure the ALB to conditionally forward traffic if the header and value match. The company should also deploy an AWS WAF web ACL that includes an appropriate rule group. The company should associate the web ACL with the Amazon CloudFront distribution. This solution will meet the requirements most cost-effectively because Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment<sup>1</sup>. By creating an Amazon CloudFront distribution with the ALB as the origin, the company can improve the performance and availability of its application by caching static content at edge locations closer to end users. By adding a custom header and random value on the CloudFront domain, the company can prevent direct access to the ALB and ensure that only requests from CloudFront are forwarded to the ECS tasks. By configuring the ALB to conditionally forward traffic if the header and value match, the company can implement origin access identity (OAI) for its ALB origin. OAI is a feature that enables you to restrict access to your content by requiring users to access your content through CloudFront URLs<sup>2</sup>. By deploying an AWS WAF web ACL that includes an appropriate rule group, the company can prevent attacks and ensure business continuity with minimal service interruptions during an ongoing attack. AWS WAF is a web application firewall that lets you monitor and control web requests that are forwarded to your web applications. You can use AWS WAF to define customizable web security rules that control which traffic can access your web applications and which traffic should be blocked<sup>3</sup>. By associating the web ACL with the Amazon CloudFront distribution, the company can apply the web security rules to all requests that are forwarded by CloudFront. The other options are not correct because:

- > Deploying the application in two AWS Regions and configuring Amazon Route 53 to route to both Regions with equal weight would not prevent attacks or ensure business continuity. Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service that routes end users to Internet applications by translating names like www.example.com into numeric IP addresses<sup>4</sup>. However, routing traffic to multiple Regions would not protect against attacks or provide failover in case of an outage. It would also increase operational complexity and costs compared to using CloudFront and AWS WAF.
- > Configuring auto scaling for Amazon ECS tasks and creating a DynamoDB Accelerator (DAX) cluster would not prevent attacks or ensure business continuity.

Auto scaling is a feature that enables you to automatically adjust your ECS tasks based on demand or a schedule. DynamoDB Accelerator (DAX) is a fully managed, highly available, in-memory cache for DynamoDB that delivers up to a 10x performance improvement. However, these features would not protect against attacks or provide failover in case of an outage. They would also increase operational complexity and costs compared to using CloudFront and AWS WAF.

➤ Configuring Amazon ElastiCache to reduce overhead on DynamoDB would not prevent attacks or ensure business continuity. Amazon ElastiCache is a fully managed in-memory data store service that makes it easy to deploy, operate, and scale popular open-source compatible in-memory data stores. However, this service would not protect against attacks or provide failover in case of an outage. It would also increase operational complexity and costs compared to using CloudFront and AWS WAF.

References:

- <https://aws.amazon.com/cloudfront/>
- <https://aws.amazon.com/waf/>
- <https://aws.amazon.com/route53/>
- <https://aws.amazon.com/dynamodb/dax/>
- <https://aws.amazon.com/elasticache/>

### NEW QUESTION 30

- (Exam Topic 2)

A company is migrating a legacy application from an on-premises data center to AWS. The application uses MongoDB as a key-value database. According to the company's technical guidelines, all Amazon EC2 instances must be hosted in a private subnet without an internet connection. In addition, all connectivity between applications and databases must be encrypted. The database must be able to scale based on demand.

Which solution will meet these requirements?

- A. Create new Amazon DocumentDB (with MongoDB compatibility) tables for the application with Provisioned IOPS volume
- B. Use the instance endpoint to connect to Amazon DocumentDB.
- C. Create new Amazon DynamoDB tables for the application with on-demand capacity
- D. Use a gateway VPC endpoint for DynamoDB to connect to the DynamoDB tables
- E. Create new Amazon DynamoDB tables for the application with on-demand capacity
- F. Use an interface VPC endpoint for DynamoDB to connect to the DynamoDB tables.
- G. Create new Amazon DocumentDB (with MongoDB compatibility) tables for the application with Provisioned IOPS volumes. Use the cluster endpoint to connect to Amazon DocumentDB

**Answer:** A

#### Explanation:

A is the correct answer because it uses Amazon DocumentDB (with MongoDB compatibility) as a key-value database that can scale based on demand and supports encryption in transit and at rest. Amazon DocumentDB is a fully managed document database service that is designed to be compatible with the MongoDB API. It is a NoSQL database that is optimized for storing, indexing, and querying JSON data. Amazon DocumentDB supports encryption in transit using TLS and encryption at rest using AWS Key Management Service (AWS KMS). Amazon DocumentDB also supports provisioned IOPS volumes that can scale up to 64 TiB of storage and 256,000 IOPS per cluster. To connect to Amazon DocumentDB, you can use the instance endpoint, which connects to a specific instance in the cluster, or the cluster endpoint, which connects to the primary instance or one of the replicas in the cluster. Using the cluster endpoint is recommended for high availability and load balancing purposes. References:

- <https://docs.aws.amazon.com/documentdb/latest/developerguide/what-is.html>
- <https://docs.aws.amazon.com/documentdb/latest/developerguide/security.encryption.html>
- <https://docs.aws.amazon.com/documentdb/latest/developerguide/limits.html>
- <https://docs.aws.amazon.com/documentdb/latest/developerguide/connecting.html>

### NEW QUESTION 32

- (Exam Topic 2)

A company manufactures smart vehicles. The company uses a custom application to collect vehicle data. The vehicles use the MQTT protocol to connect to the application.

The company processes the data in 5-minute intervals. The company then copies vehicle telematics data to on-premises storage. Custom applications analyze this data to detect anomalies.

The number of vehicles that send data grows constantly. Newer vehicles generate high volumes of data. The on-premises storage solution is not able to scale for peak traffic, which results in data loss. The company must modernize the solution and migrate the solution to AWS to resolve the scaling challenges.

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

- A. Use AWS IoT Greengrass to send the vehicle data to Amazon Managed Streaming for Apache Kafka (Amazon MSK). Create an Apache Kafka application to store the data in Amazon S3. Use a pretrained model in Amazon SageMaker to detect anomalies.
- B. Use AWS IoT Core to receive the vehicle data
- C. Configure rules to route data to an Amazon Kinesis Data Firehose delivery stream that stores the data in Amazon S3. Create an Amazon Kinesis Data Analytics application that reads from the delivery stream to detect anomalies.
- D. Use AWS IoT FleetWise to collect the vehicle data
- E. Send the data to an Amazon Kinesis data stream. Use an Amazon Kinesis Data Firehose delivery stream to store the data in Amazon S3. Use the built-in machine learning transforms in AWS Glue to detect anomalies.
- F. Use Amazon MQ for RabbitMQ to collect the vehicle data
- G. Send the data to an Amazon Kinesis Data Firehose delivery stream to store the data in Amazon S3. Use Amazon Lookout for Metrics to detect anomalies.

**Answer:** B

#### Explanation:

Using AWS IoT Core to receive the vehicle data will enable connecting the smart vehicles to the cloud using the MQTT protocol<sup>1</sup>. AWS IoT Core is a platform that enables you to connect devices to AWS Services and other devices, secure data and interactions, process and act upon device data, and enable applications to interact with devices even when they are offline<sup>2</sup>. Configuring rules to route data to an Amazon Kinesis Data Firehose delivery stream that stores the data in Amazon S3 will enable processing and storing the vehicle data in a scalable and reliable way<sup>3</sup>. Amazon Kinesis Data Firehose is a fully managed service that delivers real-time streaming data to destinations such as Amazon S3. Creating an Amazon Kinesis Data Analytics application that reads from the delivery stream to detect anomalies will enable analyzing the vehicle data using SQL queries or Apache Flink applications. Amazon Kinesis Data Analytics is a fully managed service that enables you to process and analyze streaming data using SQL or Java.

### NEW QUESTION 37

- (Exam Topic 2)

A company wants to optimize AWS data-transfer costs and compute costs across developer accounts within the company's organization in AWS Organizations. Developers can configure VPCs and launch Amazon EC2 instances in a single AWS Region. The EC2 instances retrieve approximately 1 TB of data each day from Amazon S3.

The developer activity leads to excessive monthly data-transfer charges and NAT gateway processing charges between EC2 instances and S3 buckets, along with high compute costs. The company wants to proactively enforce approved architectural patterns for any EC2 instance and VPC infrastructure that developers deploy within the AWS accounts. The company does not want this enforcement to negatively affect the speed at which the developers can perform their tasks. Which solution will meet these requirements MOST cost-effectively?

- A. Create SCPs to prevent developers from launching unapproved EC2 instance types. Provide the developers with an AWS CloudFormation template to deploy an approved VPC configuration with S3 interface endpoints. Scope the developers' IAM permissions so that the developers can launch VPC resources only with CloudFormation.
- B. Create a daily forecasted budget with AWS Budgets to monitor EC2 compute costs and S3 data-transfer costs across the developer accounts. When the forecasted cost is 75% of the actual budget cost, send an alert to the developer teams. If the actual budget cost is 100%, create a budget action to terminate the developers' EC2 instances and VPC infrastructure.
- C. Create an AWS Service Catalog portfolio that users can use to create an approved VPC configuration with S3 gateway endpoints and approved EC2 instances. Share the portfolio with the developer accounts. Configure an AWS Service Catalog launch constraint to use an approved IAM role. Scope the developers' IAM permissions to allow access only to AWS Service Catalog.
- D. Create and deploy AWS Config rules to monitor the compliance of EC2 and VPC resources in the developer AWS accounts. If developers launch unapproved EC2 instances or if developers create VPCs without S3 gateway endpoints, perform a remediation action to terminate the unapproved resources.

**Answer: C**

#### Explanation:

This solution allows developers to quickly launch resources using pre-approved configurations and instance types, while also ensuring that the resources launched comply with the company's architectural patterns. This can help reduce data transfer and compute costs associated with the resources. Using AWS Service Catalog also allows the company to control access to the approved configurations and resources through the use of IAM roles, while also allowing developers to quickly provision resources without negatively affecting their ability to perform their tasks.

Reference:

AWS Service Catalog: <https://aws.amazon.com/service-catalog/> AWS Service Catalog Constraints:

<https://docs.aws.amazon.com/servicecatalog/latest/adminguide/constraints.html>

AWS Service Catalog Launch Constraints: <https://docs.aws.amazon.com/servicecatalog/latest/adminguide/launch-constraints.html>

### NEW QUESTION 40

- (Exam Topic 2)

A company hosts a blog post application on AWS using Amazon API Gateway, Amazon DynamoDB, and AWS Lambda. The application currently does not use API keys to authorize requests. The API model is as follows: GET/posts/[postid] to get post details, GET/users[user\_id] to get user details, GET/comments/[commentid] to get comments details.

The company has noticed users are actively discussing topics in the comments section, and the company wants to increase user engagement by marking the comments appears in real time.

Which design should be used to reduce comment latency and improve user experience?

- A. Use edge-optimized API with Amazon CloudFront to cache API responses.
- B. Modify the blog application code to request GET comment[commented] every 10 seconds.
- C. Use AWS AppSync and leverage WebSockets to deliver comments.
- D. Change the concurrency limit of the Lambda functions to lower the API response time.

**Answer: C**

#### Explanation:

<https://docs.aws.amazon.com/appsync/latest/devguide/graphql-overview.html>

AWS AppSync is a fully managed GraphQL service that allows applications to securely access, manipulate, and receive data as well as real-time updates from multiple data sources<sup>1</sup>. AWS AppSync supports GraphQL subscriptions to perform real-time operations and can push data to clients that choose to listen to specific events from the backend<sup>1</sup>. AWS AppSync uses WebSockets to establish and maintain a secure connection between the clients and the API endpoint<sup>2</sup>. Therefore, using AWS AppSync and leveraging WebSockets is a suitable design to reduce comment latency and improve user experience.

### NEW QUESTION 45

- (Exam Topic 2)

A company is creating a REST API to share information with six of its partners based in the United States. The company has created an Amazon API Gateway Regional endpoint. Each of the six partners will access the API once per day to post daily sales figures.

After initial deployment, the company observes 1,000 requests per second originating from 500 different IP addresses around the world. The company believes this traffic is originating from a botnet and wants to secure its API while minimizing cost.

Which approach should the company take to secure its API?

- A. Create an Amazon CloudFront distribution with the API as the origin.
- B. Create an AWS WAF web ACL with a rule to block clients that submit more than five requests per day.
- C. Associate the web ACL with the CloudFront distribution.
- D. Configure CloudFront with an origin access identity (OAI) and associate it with the distribution.
- E. Configure API Gateway to ensure only the OAI can run the POST method.
- F. Create an Amazon CloudFront distribution with the API as the origin.
- G. Create an AWS WAF web ACL with a rule to block clients that submit more than five requests per day.
- H. Associate the web ACL with the CloudFront distribution.
- I. Add a custom header to the CloudFront distribution populated with an API key.
- J. Configure the API to require an API key on the POST method.
- K. Create an AWS WAF web ACL with a rule to allow access to the IP addresses used by the six partners. Associate the web ACL with the API.
- L. Create a resource policy with a request limit and associate it with the API.
- M. Configure the API to require an API key on the POST method.
- N. Create an AWS WAF web ACL with a rule to allow access to the IP addresses used by the six partners. Associate the web ACL with the API.
- O. Create a usage plan with a request limit and associate it with the API.
- P. Create an API key and add it to the usage plan.

**Answer:** D

**Explanation:**

"A usage plan specifies who can access one or more deployed API stages and methods—and also how much and how fast they can access them. The plan uses API keys to identify API clients and meters access to the associated API stages for each key. It also lets you configure throttling limits and quota limits that are enforced on individual client API keys."

<https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html>

A rate-based rule tracks the rate of requests for each originating IP address, and triggers the rule action on IPs with rates that go over a limit. You set the limit as the number of requests per 5-minute time span..... The following caveats apply to AWS WAF rate-based rules: The minimum rate that you can set is 100. AWS WAF checks the rate of requests every 30 seconds, and counts requests for the prior five minutes each time. Because of this, it's possible for an IP address to send requests at too high a rate for 30 seconds before AWS WAF detects and blocks it. AWS WAF can block up to 10,000 IP addresses. If more than 10,000 IP addresses send high rates of requests at the same time, AWS WAF will only block 10,000 of them. " <https://docs.aws.amazon.com/waf/latest/developerguide/waf-rule-statement-type-rate-based.html>

**NEW QUESTION 46**

- (Exam Topic 2)

A solutions architect is reviewing a company's process for taking snapshots of Amazon RDS DB instances. The company takes automatic snapshots every day and retains the snapshots for 7 days.

The solutions architect needs to recommend a solution that takes snapshots every 6 hours and retains the snapshots for 30 days. The company uses AWS Organizations to manage all of its AWS accounts. The company needs a consolidated view of the health of the RDS snapshots.

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

- A. Turn on the cross-account management feature in AWS Backu
- B. Create a backup plan that specifies the frequency and retention requirement
- C. Add a tag to the DB instance
- D. Apply the backup plan by using tag
- E. Use AWS Backup to monitor the status of the backups.
- F. Turn on the cross-account management feature in Amazon RD
- G. Create a snapshot global policy that specifies the frequency and retention requirement
- H. Use the RDS console in the management account to monitor the status of the backups.
- I. Turn on the cross-account management feature in AWS CloudFormatio
- J. From the management account, deploy a CloudFormation stack set that contains a backup plan from AWS Backup that specifies the frequency and retention requirement
- K. Create an AWS Lambda function in the management account to monitor the status of the backup
- L. Create an Amazon EventBridge rule in each account to run the Lambda function on a schedule.
- M. Configure AWS Backup in each accoun
- N. Create an Amazon Data Lifecycle Manager lifecycle policy that specifies the frequency and retention requirement
- O. Specify the DB instances as the target resourc
- P. Use the Amazon Data Lifecycle Manager console in each member account to monitor the status of the backups.

**Answer:** A

**Explanation:**

Turning on the cross-account management feature in AWS Backup will enable managing and monitoring backups across multiple AWS accounts that belong to the same organization in AWS Organizations<sup>1</sup>. Creating a backup plan that specifies the frequency and retention requirements will enable taking snapshots every 6 hours and retaining them for 30 days<sup>2</sup>. Adding a tag to the DB instances will enable applying the backup plan by using tags<sup>2</sup>. Using AWS Backup to monitor the status of the backups will enable having a consolidated view of the health of the RDS snapshots<sup>1</sup>.

**NEW QUESTION 50**

- (Exam Topic 2)

A company operates a proxy server on a fleet of Amazon EC2 instances. Partners in different countries use the proxy server to test the company's functionality. The EC2 instances are running in a VPC, and the instances have access to the internet.

The company's security policy requires that partners can access resources only from domains that the company owns.

Which solution will meet these requirements?

- A. Create an Amazon Route 53 Resolver DNS Firewall domain list that contains the allowed domains. Configure a DNS Firewall rule group with a rule that has a high numeric value that blocks all request
- B. Configure a rule that has a low numeric value that allows requests for domains in the allowed lis
- C. Associate the rule group with the VPC.
- D. Create an Amazon Route 53 Resolver DNS Firewall domain list that contains the allowed domains. Configure a Route 53 outbound endpoint
- E. Associate the outbound endpoint with the VP
- F. Associate the domain list with the outbound endpoint.
- G. Create an Amazon Route 53 traffic flow policy to match the allowed domain
- H. Configure the traffic flow policy to forward requests that match to the Route 53 Resolve
- I. Associate the traffic flow policy with the VPC.
- J. Create an Amazon Route 53 outbound endpoint
- K. Associate the outbound endpoint with the VP
- L. Configure a Route 53 traffic flow policy to forward requests for allowed domains to the outbound endpoint
- M. Associate the traffic flow policy with the VPC.

**Answer:** A

**Explanation:**

The company should create an Amazon Route 53 Resolver DNS Firewall domain list that contains the allowed domains. The company should configure a DNS Firewall rule group with a rule that has a high numeric value that blocks all requests. The company should configure a rule that has a low numeric value that allows requests for domains in the allowed list. The company should associate the rule group with the VPC. This solution will meet the requirements because Amazon Route 53 Resolver DNS Firewall is a feature that enables you to filter and regulate outbound DNS traffic for your VPC. You can create reusable collections of filtering rules in DNS Firewall rule groups and associate them with your VPCs. You can specify lists of domain names to allow or block, and you can customize the responses for the DNS queries that you block<sup>1</sup>. By creating a domain list with the allowed domains and a rule group with rules to allow or block requests based on the domain list, the company can enforce its security policy and control access to sites.

The other options are not correct because:

- Configuring a Route 53 outbound endpoint and associating it with the VPC would not help with filtering outbound DNS traffic. A Route 53 outbound endpoint is a resource that enables you to forward DNS queries from your VPC to your network over AWS Direct Connect or VPN connections<sup>2</sup>. It does not provide any filtering capabilities.
- Creating a Route 53 traffic flow policy to match the allowed domains would not help with filtering outbound DNS traffic. A Route 53 traffic flow policy is a resource that enables you to route traffic based on multiple criteria, such as endpoint health, geographic location, and latency<sup>3</sup>. It does not provide any filtering capabilities.
- Creating a Gateway Load Balancer (GWLB) would not help with filtering outbound DNS traffic. A GWLB is a service that enables you to deploy, scale, and manage third-party virtual appliances such as firewalls, intrusion detection and prevention systems, and deep packet inspection systems in the cloud<sup>4</sup>. It does not provide any filtering capabilities.

References:

- <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/resolver-dns-firewall.html>
- <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/resolver-outbound-endpoints.html>
- <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/traffic-flow.html>
- <https://docs.aws.amazon.com/elasticloadbalancing/latest/gateway/introduction.html>

## NEW QUESTION 51

- (Exam Topic 2)

A company runs an application on AWS. The company curates data from several different sources. The company uses proprietary algorithms to perform data transformations and aggregations. After the company performs ETL processes, the company stores the results in Amazon Redshift tables. The company sells this data to other companies. The company downloads the data as files from the Amazon Redshift tables and transmits the files to several data customers by using FTP. The number of data customers has grown significantly. Management of the data customers has become difficult.

The company will use AWS Data Exchange to create a data product that the company can use to share data with customers. The company wants to confirm the identities of the customers before the company shares data.

The customers also need access to the most recent data when the company publishes the data. Which solution will meet these requirements with the LEAST operational overhead?

- A. Use AWS Data Exchange for APIs to share data with customer
- B. Configure subscription verification In the AWS account of the company that produces the data, create an Amazon API Gateway Data API service integration with Amazon Redshift
- C. Require the data customers to subscribe to the data product In the AWS account of the company that produces the data, create an AWS Data Exchange datashare by connecting AWS Data Exchange to the Redshift
- D. cluster
- E. Configure subscription verification
- F. Require the data customers to subscribe to the data product.
- G. Download the data from the Amazon Redshift tables to an Amazon S3 bucket periodically
- H. Use AWS Data Exchange for S3 to share data with customers.
- I. Configure subscription verification
- J. Require the data customers to subscribe to the data product Publish the Amazon Redshift data to an Open Data on AWS Data Exchange
- K. Require the customers to subscribe to the data product in AWS Data Exchange
- L. In the AWS account of the company that produces the data, attach IAM resource-based policies to the Amazon Redshift tables to allow access only to verified AWS accounts.

**Answer: C**

### Explanation:

The company should download the data from the Amazon Redshift tables to an Amazon S3 bucket periodically and use AWS Data Exchange for S3 to share data with customers. The company should configure subscription verification and require the data customers to subscribe to the data product. This solution will meet the requirements with the least operational overhead because AWS Data Exchange for S3 is a feature that enables data subscribers to access third-party data files directly from data providers' Amazon S3 buckets. Subscribers can easily use these files for their data analysis with AWS services without needing to create or manage data copies. Data providers can easily set up AWS Data Exchange for S3 on top of their existing S3 buckets to share direct access to an entire S3 bucket or specific prefixes and S3 objects. AWS Data Exchange automatically manages subscriptions, entitlements, billing, and payment<sup>1</sup>.

The other options are not correct because:

- Using AWS Data Exchange for APIs to share data with customers would not work because AWS Data Exchange for APIs is a feature that enables data subscribers to access third-party APIs directly from data providers' AWS accounts. Subscribers can easily use these APIs for their data analysis with AWS services without needing to manage API keys or tokens. Data providers can easily set up AWS Data Exchange for APIs on top of their existing API Gateway resources to share direct access to an entire API or specific routes and stages<sup>2</sup>. However, this feature is not suitable for sharing data from Amazon Redshift tables, which are not exposed as APIs.
- Creating an Amazon API Gateway Data API service integration with Amazon Redshift would not work because the Data API is a feature that enables you to query your Amazon Redshift cluster using HTTP requests, without needing a persistent connection or a SQL client<sup>3</sup>. It is useful for building applications that interact with Amazon Redshift, but not for sharing data files with customers.
- Creating an AWS Data Exchange datashare by connecting AWS Data Exchange to the Redshift cluster would not work because AWS Data Exchange does not support datashares for Amazon Redshift clusters. A datashare is a feature that enables you to share live and secure access to your Amazon Redshift data across your accounts or with third parties without copying or moving the underlying data<sup>4</sup>. It is useful for sharing query results and views with other users, but not for sharing data files with customers.
- Publishing the Amazon Redshift data to an Open Data on AWS Data Exchange would not work because Open Data on AWS Data Exchange is a feature that enables you to find and use free and public datasets from AWS customers and partners. It is useful for accessing open and free data, but not for confirming the identities of the customers or charging them for the data.

References:

- <https://aws.amazon.com/data-exchange/why-aws-data-exchange/s3/>
- <https://aws.amazon.com/data-exchange/why-aws-data-exchange/api/>
- <https://docs.aws.amazon.com/redshift/latest/mgmt/data-api.html>
- <https://docs.aws.amazon.com/redshift/latest/dg/datashare-overview.html>
- <https://aws.amazon.com/data-exchange/open-data/>

## NEW QUESTION 56

- (Exam Topic 2)

A company is deploying a new web-based application and needs a storage solution for the Linux application servers. The company wants to create a single location for updates to application data for all instances. The active dataset will be up to 100 GB in size. A solutions architect has determined that peak operations will occur for 3 hours daily and will require a total of 225 MiBps of read throughput.

The solutions architect must design a Multi-AZ solution that makes a copy of the data available in another AWS Region for disaster recovery (DR). The DR copy has an RPO of less than 1 hour.

Which solution will meet these requirements?

- A. Deploy a new Amazon Elastic File System (Amazon EFS) Multi-AZ file system
- B. Configure the file system for 75 MiBps of provisioned throughput
- C. Implement replication to a file system in the DR Region.
- D. Deploy a new Amazon FSx for Lustre file system
- E. Configure Bursting Throughput mode for the file system
- F. Use AWS Backup to back up the file system to the DR Region.
- G. Deploy a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume with 225 MiBps of throughput
- H. Enable Multi-Attach for the EBS volume
- I. Use AWS Elastic Disaster Recovery to replicate the EBS volume to the DR Region.
- J. Deploy an Amazon FSx for OpenZFS file system in both the production Region and the DR Region. Create an AWS DataSync scheduled task to replicate the data from the production file system to the DR file system every 10 minutes.

**Answer:** A

**Explanation:**

The company should deploy a new Amazon Elastic File System (Amazon EFS) Multi-AZ file system. The company should configure the file system for 75 MiBps of provisioned throughput. The company should implement replication to a file system in the DR Region. This solution will meet the requirements because Amazon EFS is a serverless, fully elastic file storage service that lets you share file data without provisioning or managing storage capacity and performance. Amazon EFS is built to scale on demand to petabytes without disrupting applications, growing and shrinking automatically as you add and remove files<sup>1</sup>. By deploying a new Amazon EFS Multi-AZ file system, the company can create a single location for updates to application data for all instances. A Multi-AZ file system replicates data across multiple Availability Zones (AZs) within a Region, providing high availability and durability<sup>2</sup>. By configuring the file system for 75 MiBps of provisioned throughput, the company can ensure that it meets the peak operations requirement of 225 MiBps of read throughput. Provisioned throughput is a feature that enables you to specify a level of throughput that the file system can drive independent of the file system's size or burst credit balance<sup>3</sup>. By implementing replication to a file system in the DR Region, the company can make a copy of the data available in another AWS Region for disaster recovery. Replication is a feature that enables you to replicate data from one EFS file system to another EFS file system across AWS Regions. The replication process has an RPO of less than 1 hour.

The other options are not correct because:

- Deploying a new Amazon FSx for Lustre file system would not provide a single location for updates to application data for all instances. Amazon FSx for Lustre is a fully managed service that provides cost-effective, high-performance storage for compute workloads. However, it does not support concurrent write access from multiple instances. Using AWS Backup to back up the file system to the DR Region would not provide real-time replication of data. AWS Backup is a service that enables you to centralize and automate data protection across AWS services. However, it does not support continuous data replication or cross-Region disaster recovery.
- Deploying a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume with 225 MiBps of throughput would not provide a single location for updates to application data for all instances. Amazon EBS is a service that provides persistent block storage volumes for use with Amazon EC2 instances. However, it does not support concurrent access from multiple instances, unless Multi-Attach is enabled. Enabling Multi-Attach for the EBS volume would not provide Multi-AZ resilience or cross-Region replication. Multi-Attach is a feature that enables you to attach an EBS volume to multiple EC2 instances within the same Availability Zone. Using AWS Elastic Disaster Recovery to replicate the EBS volume to the DR Region would not provide real-time replication of data. AWS Elastic Disaster Recovery (AWS DRS) is a service that enables you to orchestrate and automate disaster recovery workflows across AWS Regions. However, it does not support continuous data replication or sub-hour RPOs.
- Deploying an Amazon FSx for OpenZFS file system in both the production Region and the DR Region would not be as simple or cost-effective as using Amazon EFS. Amazon FSx for OpenZFS is a fully managed service that provides high-performance storage with strong data consistency and advanced data management features for Linux workloads. However, it requires more configuration and management than Amazon EFS, which is serverless and fully elastic. Creating an AWS DataSync scheduled task to replicate the data from the production file system to the DR file system every 10 minutes would not provide real-time replication of data. AWS DataSync is a service that enables you to transfer data between on-premises storage and AWS services, or between AWS services. However, it does not support continuous data replication or sub-minute RPOs.

References:

- <https://aws.amazon.com/efs/>
- <https://docs.aws.amazon.com/efs/latest/ug/how-it-works.html#how-it-works-azs>
- <https://docs.aws.amazon.com/efs/latest/ug/performance.html#provisioned-throughput>
- <https://docs.aws.amazon.com/efs/latest/ug/replication.html>
- <https://aws.amazon.com/fsx/lustre/>
- <https://aws.amazon.com/backup/>
- <https://aws.amazon.com/ebs/>
- <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html>

**NEW QUESTION 58**

- (Exam Topic 2)

A company needs to architect a hybrid DNS solution. This solution will use an Amazon Route 53 private hosted zone for the domain cloud.example.com for the resources stored within VPCs.

The company has the following DNS resolution requirements:

- On-premises systems should be able to resolve and connect to cloud.example.com.
- All VPCs should be able to resolve cloud.example.com.

There is already an AWS Direct Connect connection between the on-premises corporate network and AWS Transit Gateway. Which architecture should the company use to meet these requirements with the HIGHEST performance?

- A. Associate the private hosted zone to all the VPC
- B. Create a Route 53 inbound resolver in the shared services VPC
- C. Attach all VPCs to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the inbound resolver.
- D. Associate the private hosted zone to all the VPC
- E. Deploy an Amazon EC2 conditional forwarder in the shared services VPC

- F. Attach all VPCs to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the conditional forwarder.
- G. Associate the private hosted zone to the shared services VPC
- H. Create a Route 53 outbound resolver in the shared services VPC
- I. Attach all VPCs to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the outbound resolver.
- J. Associate the private hosted zone to the shared services VPC
- K. Create a Route 53 inbound resolver in the shared services VPC
- L. Attach the shared services VPC to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the inbound resolver.

**Answer:** A

**Explanation:**

Amazon Route 53 Resolver is a managed DNS resolver service from Route 53 that helps to create conditional forwarding rules to redirect query traffic<sup>1</sup>. By associating the private hosted zone to all the VPCs, the solutions architect can enable DNS resolution for cloud.example.com within the VPCs. By creating a Route 53 inbound resolver in the shared services VPC, the solutions architect can enable DNS resolution for cloud.example.com from on-premises systems. By attaching all VPCs to the transit gateway, the solutions architect can enable connectivity between the VPCs and the on-premises network through AWS Direct Connect. By creating forwarding rules in the on-premises DNS server for cloud.example.com that point to the inbound resolver, the solutions architect can direct DNS queries for cloud.example.com to the Route 53 Resolver endpoint in AWS. This solution will provide the highest performance as it leverages Route 53 Resolver's optimized routing and caching capabilities.

References: 1: <https://aws.amazon.com/route53/resolver/>

**NEW QUESTION 61**

- (Exam Topic 2)

A company is migrating a document processing workload to AWS. The company has updated many applications to natively use the Amazon S3 API to store, retrieve, and modify documents that a processing server generates at a rate of approximately 5 documents every second. After the document processing is finished, customers can download the documents directly from Amazon S3.

During the migration, the company discovered that it could not immediately update the processing server that generates many documents to support the S3 API. The server runs on Linux and requires fast local access to the files that the server generates and modifies. When the server finishes processing, the files must be available to the public for download within 30 minutes.

Which solution will meet these requirements with the LEAST amount of effort?

- A. Migrate the application to an AWS Lambda function
- B. Use the AWS SDK for Java to generate, modify, and access the files that the company stores directly in Amazon S3.
- C. Set up an Amazon S3 File Gateway and configure a file share that is linked to the document store. Mount the file share on an Amazon EC2 instance by using NFS
- D. When changes occur in Amazon S3, initiate a RefreshCache API call to update the S3 File Gateway.
- E. Configure Amazon FSx for Lustre with an import and export policy
- F. Link the new file system to an S3 bucket
- G. Install the Lustre client and mount the document store to an Amazon EC2 instance by using NFS.
- H. Configure AWS DataSync to connect to an Amazon EC2 instance
- I. Configure a task to synchronize the generated files to and from Amazon S3.

**Answer:** C

**Explanation:**

Amazon FSx for Lustre is a fully managed service that provides cost-effective, high-performance, scalable storage for compute workloads. Powered by Lustre, the world's most popular high-performance file system, FSx for Lustre offers shared storage with sub-ms latencies, up to terabytes per second of throughput, and millions of IOPS. FSx for Lustre file systems can also be linked to Amazon Simple Storage Service (S3) buckets, allowing you to access and process data concurrently from both a high-performance file system and from the S3 API.

**NEW QUESTION 63**

- (Exam Topic 2)

A telecommunications company is running an application on AWS. The company has set up an AWS Direct Connect connection between the company's on-premises data center and AWS. The company deployed the application on Amazon EC2 instances in multiple Availability Zones behind an internal Application Load Balancer (ALB). The company's clients connect from the on-premises network by using HTTPS. The TLS terminates in the ALB. The company has multiple target groups and uses path-based routing to forward requests based on the URL path.

The company is planning to deploy an on-premises firewall appliance with an allow list that is based on IP address. A solutions architect must develop a solution to allow traffic flow to AWS from the on-premises network so that the clients can continue to access the application.

Which solution will meet these requirements?

- A. Configure the existing ALB to use static IP addresses
- B. Assign IP addresses in multiple Availability Zones to the ALB
- C. Add the ALB IP addresses to the firewall appliance.
- D. Create a Network Load Balancer (NLB). Associate the NLB with one static IP address in multiple Availability Zones
- E. Create an ALB-type target group for the NLB and add the existing ALB. Add the NLB IP addresses to the firewall appliance
- F. Update the clients to connect to the NLB.
- G. Create a Network Load Balancer (NLB). Associate the NLB with one static IP address in multiple Availability Zones
- H. Add the existing target groups to the NLB
- I. Update the clients to connect to the NLB
- J. Delete the ALB. Add the NLB IP addresses to the firewall appliance.
- K. Create a Gateway Load Balancer (GWLB). Assign static IP addresses to the GWLB in multiple Availability Zones
- L. Create an ALB-type target group for the GWLB and add the existing ALB
- M. Add the GWLB IP addresses to the firewall appliance
- N. Update the clients to connect to the GWLB.

**Answer:** B

**Explanation:**

The company should create a Network Load Balancer (NLB) and associate it with one static IP address in multiple Availability Zones. The company should also create an ALB-type target group for the NLB and add the existing ALB. The company should add the NLB IP addresses to the firewall appliance and update the clients to connect to the NLB. This solution will allow traffic flow to AWS from the on-premises network by using static IP addresses that can be added to the firewall appliance's allow list. The NLB will forward requests to the ALB, which will use path-based routing to forward requests to the target groups.

#### NEW QUESTION 64

- (Exam Topic 2)

A company has a website that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. The ALB is associated with an AWS WAF web ACL.

The website often encounters attacks in the application layer. The attacks produce sudden and significant increases in traffic on the application server. The access logs show that each attack originates from different IP addresses. A solutions architect needs to implement a solution to mitigate these attacks.

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

- A. Create an Amazon CloudWatch alarm that monitors server access
- B. Set a threshold based on access by IP address
- C. Configure an alarm action that adds the IP address to the web ACL's deny list.
- D. Deploy AWS Shield Advanced in addition to AWS WAF
- E. Add the ALB as a protected resource.
- F. Create an Amazon CloudWatch alarm that monitors user IP addresses
- G. Set a threshold based on access by IP address
- H. Configure the alarm to invoke an AWS Lambda function to add a deny rule in the application server's subnet route table for any IP addresses that activate the alarm.
- I. Inspect access logs to find a pattern of IP addresses that launched the attack
- J. Use an Amazon Route 53 geolocation routing policy to deny traffic from the countries that host those IP addresses.

**Answer:** C

#### Explanation:

"The AWS WAF API supports security automation such as blacklisting IP addresses that exceed request limits, which can be useful for mitigating HTTP flood attacks." >

<https://aws.amazon.com/blogs/security/how-to-protect-dynamic-web-applications-against-ddos-attacks-by-using>

#### NEW QUESTION 69

- (Exam Topic 2)

A solutions architect is designing a solution to process events. The solution must have the ability to scale in and out based on the number of events that the solution receives. If a processing error occurs, the event must move into a separate queue for review.

Which solution will meet these requirements?

- A. Send event details to an Amazon Simple Notification Service (Amazon SNS) topic
- B. Configure an AWS Lambda function as a subscriber to the SNS topic to process the event
- C. Add an on-failure destination to the function
- D. Set an Amazon Simple Queue Service (Amazon SQS) queue as the target.
- E. Publish events to an Amazon Simple Queue Service (Amazon SQS) queue
- F. Create an Amazon EC2 Auto Scaling group
- G. Configure the Auto Scaling group to scale in and out based on the ApproximateAgeOfOldestMessage metric of the queue
- H. Configure the application to write failed messages to a dead-letter queue.
- I. Write events to an Amazon DynamoDB table
- J. Configure a DynamoDB stream for the table
- K. Configure the stream to invoke an AWS Lambda function
- L. Configure the Lambda function to process the events.
- M. Publish events to an Amazon EventBridge event bus
- N. Create and run an application on an Amazon EC2 instance with an Auto Scaling group that is behind an Application Load Balancer (ALB). Set the ALB as the event bus target
- O. Configure the event bus to retry event
- P. Write messages to a dead-letter queue if the application cannot process the messages.

**Answer:** A

#### Explanation:

Amazon Simple Notification Service (Amazon SNS) is a fully managed pub/sub messaging service that enables users to send messages to multiple subscribers<sup>1</sup>. Users can send event details to an Amazon SNS topic and configure an AWS Lambda function as a subscriber to the SNS topic to process the events. Lambda is a serverless compute service that runs code in response to events and automatically manages the underlying compute resources<sup>2</sup>. Users can add an on-failure destination to the function and set an Amazon Simple Queue

Service (Amazon SQS) queue as the target. Amazon SQS is a fully managed message queuing service that enables users to decouple and scale microservices, distributed systems, and serverless applications<sup>3</sup>. This way, if a processing error occurs, the event will move into the separate queue for review.

Option B is incorrect because publishing events to an Amazon SQS queue and creating an Amazon EC2 Auto Scaling group will not have the ability to scale in and out based on the number of events that the solution receives. Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud. Auto Scaling is a feature that helps users maintain application availability and allows them to scale their EC2 capacity up or down automatically according to conditions they define. However, for this use case, using SQS and EC2 will not take advantage of the serverless capabilities of Lambda and SNS.

Option C is incorrect because writing events to an Amazon DynamoDB table and configuring a DynamoDB stream for the table will not have the ability to move events into a separate queue for review if a processing error occurs. Amazon DynamoDB is a fully managed key-value and document database that delivers single-digit millisecond performance at any scale. DynamoDB Streams is a feature that captures data modification events in DynamoDB tables. Users can configure the stream to invoke a Lambda function, but they cannot configure an on-failure destination for the function.

Option D is incorrect because publishing events to an Amazon EventBridge event bus and setting an Application Load Balancer (ALB) as the event bus target will not have the ability to move events into a separate queue for review if a processing error occurs. Amazon EventBridge is a serverless event bus service that makes it easy to connect applications with data from a variety of sources. An ALB is a load balancer that distributes incoming application traffic across multiple targets, such as EC2 instances, containers, IP addresses, Lambda functions, and virtual appliances. Users can configure EventBridge to retry events, but they cannot configure an on-failure destination for the ALB.

#### NEW QUESTION 74

- (Exam Topic 2)

A company processes environment data. The company has a set up sensors to provide a continuous stream of data from different areas in a city. The data is available in JSON format.

The company wants to use an AWS solution to send the data to a database that does not require fixed schemas for storage. The data must be sent in real time.

Which solution will meet these requirements?

- A. Use Amazon Kinesis Data Firehose to send the data to Amazon Redshift.
- B. Use Amazon Kinesis Data streams to send the data to Amazon DynamoDB.
- C. Use Amazon Managed Streaming for Apache Kafka (Amazon MSK) to send the data to Amazon Aurora.
- D. Use Amazon Kinesis Data firehose to send the data to Amazon Keyspaces (for Apache Cassandra).

**Answer: B**

**Explanation:**

Amazon Kinesis Data Streams is a service that enables real-time data ingestion and processing. Amazon DynamoDB is a NoSQL database that does not require fixed schemas for storage. By using Kinesis Data Streams and DynamoDB, the company can send the JSON data to a database that can handle schemaless data in real time. References:

- > <https://docs.aws.amazon.com/streams/latest/dev/introduction.html>
- > <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Introduction.html>

**NEW QUESTION 76**

- (Exam Topic 2)

A company's solutions architect is analyzing costs of a multi-application environment. The environment is deployed across multiple Availability Zones in a single AWS Region. After a recent acquisition, the company manages two organizations in AWS Organizations. The company has created multiple service provider applications as AWS PrivateLink-powered VPC endpoint services in one organization. The company has created multiple service consumer applications in the other organization.

Data transfer charges are much higher than the company expected, and the solutions architect needs to reduce the costs. The solutions architect must recommend guidelines for developers to follow when they deploy services. These guidelines must minimize data transfer charges for the whole environment. Which guidelines meet these requirements? (Select TWO.)

- A. Use AWS Resource Access Manager to share the subnets that host the service provider applications with other accounts in the organization.
- B. Place the service provider applications and the service consumer applications in AWS accounts in the same organization.
- C. Turn off cross-zone load balancing for the Network Load Balancer in all service provider application deployments.
- D. Ensure that service consumer compute resources use the Availability Zone-specific endpoint service by using the endpoint's local DNS name.
- E. Create a Savings Plan that provides adequate coverage for the organization's planned inter-Availability Zone data transfer usage.

**Answer: CD**

**Explanation:**

Cross-zone load balancing enables traffic to be distributed evenly across all registered instances in all enabled Availability Zones. However, this also increases data transfer charges between Availability Zones. By turning off cross-zone load balancing, the service provider applications can reduce inter-Availability Zone data transfer costs. Similarly, by using the Availability Zone-specific endpoint service, the service consumer applications can ensure that they connect to the nearest service provider application in the same Availability Zone, avoiding cross-Availability Zone data transfer charges. References:

- > <https://docs.aws.amazon.com/vpc/latest/userguide/vpce-interface.html#vpce-interface-dns>

**NEW QUESTION 80**

- (Exam Topic 1)

A company has deployed an application on AWS Elastic Beanstalk. The application uses Amazon Aurora for the database layer. An Amazon CloudFront distribution serves web requests and includes the Elastic Beanstalk domain name as the origin server. The distribution is configured with an alternate domain name that visitors use when they access the application.

Each week, the company takes the application out of service for routine maintenance. During the time that the application is unavailable, the company wants visitors to receive an informational message instead of a CloudFront error message.

A solutions architect creates an Amazon S3 bucket as the first step in the process.

Which combination of steps should the solutions architect take next to meet the requirements? (Choose three.)

- A. Upload static informational content to the S3 bucket.
- B. Create a new CloudFront distributio
- C. Set the S3 bucket as the origin.
- D. Set the S3 bucket as a second origin in the original CloudFront distributio
- E. Configure the distribution and the S3 bucket to use an origin access identity (OAI).
- F. During the weekly maintenance, edit the default cache behavior to use the S3 origi
- G. Revert the change when the maintenance is complete.
- H. During the weekly maintenance, create a cache behavior for the S3 origin on the new distributio
- I. Set the path pattern to \ Set the precedence to 0. Delete the cache behavior when the maintenance is complete.
- J. During the weekly maintenance, configure Elastic Beanstalk to serve traffic from the S3 bucket.

**Answer: ACD**

**Explanation:**

The company wants to serve static content from an S3 bucket during the maintenance period. To do this, the following steps are required:

- > Upload static informational content to the S3 bucket. This will provide the source of the content that will be served to the visitors.
- > Set the S3 bucket as a second origin in the original CloudFront distribution. Configure the distribution and the S3 bucket to use an origin access identity (OAI). This will allow CloudFront to access the S3 bucket securely and prevent public access to the bucket.
- > During the weekly maintenance, edit the default cache behavior to use the S3 origin. Revert the change when the maintenance is complete. This will redirect all web requests to the S3 bucket instead of the Elastic Beanstalk domain name.

The other options are not correct because:

- > Creating a new CloudFront distribution is not necessary and would require changing the alternate domain name configuration.
- > Creating a cache behavior for the S3 origin on a new distribution would not work because the visitors would still access the original distribution using the alternate domain name.
- > Configuring Elastic Beanstalk to serve traffic from the S3 bucket is not possible and would not achieve the desired result.

References:

> <https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/distribution-web-values-specify>.

### NEW QUESTION 85

- (Exam Topic 1)

A solutions architect is investigating an issue in which a company cannot establish new sessions in Amazon Workspaces. An initial analysis indicates that the issue involves user profiles. The Amazon Workspaces environment is configured to use Amazon FSx for Windows File Server as the profile share storage. The FSx for Windows File Server file system is configured with 10 TB of storage.

The solutions architect discovers that the file system has reached its maximum capacity. The solutions architect must ensure that users can regain access. The solution also must prevent the problem from occurring again.

Which solution will meet these requirements?

- A. Remove old user profiles to create space
- B. Migrate the user profiles to an Amazon FSx for Lustre file system.
- C. Increase capacity by using the update-file-system command
- D. Implement an Amazon CloudWatch metric that monitors free space
- E. Use Amazon EventBridge to invoke an AWS Lambda function to increase capacity as required.
- F. Monitor the file system by using the FreeStorageCapacity metric in Amazon CloudWatch
- G. Use AWS Step Functions to increase the capacity as required.
- H. Remove old user profiles to create space
- I. Create an additional FSx for Windows File Server file system. Update the user profile redirection for 50% of the users to use the new file system.

**Answer: B**

#### Explanation:

> It can prevent the issue from happening again by monitoring the file system with the FreeStorageCapacity metric in Amazon CloudWatch and using Amazon EventBridge to invoke an AWS Lambda function to increase the capacity as required. This ensures that the file system always has enough free space to store user profiles and avoids reaching maximum capacity.

### NEW QUESTION 89

- (Exam Topic 1)

A company has an on-premises monitoring solution using a PostgreSQL database for persistence of events. The database is unable to scale due to heavy ingestion and it frequently runs out of storage.

The company wants to create a hybrid solution and has already set up a VPN connection between its network and AWS. The solution should include the following attributes:

- Managed AWS services to minimize operational complexity
- A buffer that automatically scales to match the throughput of data and requires no on-going administration.
- A visualization tool to create dashboards to observe events in near-real time.
- Support for semi-structured JSON data and dynamic schemas.

Which combination of components will enable the company to create a monitoring solution that will satisfy these requirements? (Select TWO.)

- A. Use Amazon Kinesis Data Firehose to buffer events. Create an AWS Lambda function to process and transform events.
- B. Create an Amazon Kinesis data stream to buffer events. Create an AWS Lambda function to process and transform events.
- C. Configure an Amazon Aurora PostgreSQL DB cluster to receive events. Use Amazon QuickSight to read from the database and create near-real-time visualizations and dashboards.
- D. Configure Amazon Elasticsearch Service (Amazon ES) to receive events. Use the Kibana endpoint deployed with Amazon ES to create near-real-time visualizations and dashboards.
- E. Configure an Amazon Neptune DB instance to receive events. Use Amazon QuickSight to read from the database and create near-real-time visualizations and dashboards.

**Answer: AD**

#### Explanation:

<https://aws.amazon.com/kinesis/data-firehose/faqs/>

### NEW QUESTION 92

- (Exam Topic 1)

A company is hosting an image-processing service on AWS in a VPC. The VPC extends across two Availability Zones. Each Availability Zone contains one public subnet and one private subnet.

The service runs on Amazon EC2 instances in the private subnets. An Application Load Balancer in the public subnets is in front of the service. The service needs to communicate with the internet and does so through two NAT gateways. The service uses Amazon S3 for image storage. The EC2 instances retrieve approximately 1 TB of data from an S3 bucket each day.

The company has promoted the service as highly secure. A solutions architect must reduce cloud expenditures as much as possible without compromising the service's security posture or increasing the time spent on ongoing operations.

Which solution will meet these requirements?

- A. Replace the NAT gateways with NAT instance
- B. In the VPC route table, create a route from the private subnets to the NAT instances.
- C. Move the EC2 instances to the public subnet
- D. Remove the NAT gateways.
- E. Set up an S3 gateway VPC endpoint in the VPC
- F. Attach an endpoint policy to the endpoint to allow the required actions on the S3 bucket.
- G. Attach an Amazon Elastic File System (Amazon EFS) volume to the EC2 instance
- H. Host the images on the EFS volume.

**Answer: C**

#### Explanation:

Create Amazon S3 gateway endpoint in the VPC and add a VPC endpoint policy. This VPC endpoint policy will have a statement that allows S3 access only via access points owned by the organization.

### NEW QUESTION 95

- (Exam Topic 1)

A company wants to change its internal cloud billing strategy for each of its business units. Currently, the cloud governance team shares reports for overall cloud spending with the head of each business unit. The company uses AWS Organizations to manage the separate AWS accounts for each business unit. The existing tagging standard in Organizations includes the application, environment, and owner. The cloud governance team wants a centralized solution so each business unit receives monthly reports on its cloud spending. The solution should also send notifications for any cloud spending that exceeds a set threshold. Which solution is the MOST cost-effective way to meet these requirements?

- A. Configure AWS Budgets in each account and configure budget alerts that are grouped by application, environment, and owner
- B. Add each business unit to an Amazon SNS topic for each alert
- C. Use Cost Explorer in each account to create monthly reports for each business unit.
- D. Configure AWS Budgets in the organization's master account and configure budget alerts that are grouped by application, environment, and owner
- E. Add each business unit to an Amazon SNS topic for each alert
- F. Use Cost Explorer in the organization's master account to create monthly reports for each business unit.
- G. Configure AWS Budgets in each account and configure budget alerts that are grouped by application, environment, and owner
- H. Add each business unit to an Amazon SNS topic for each alert
- I. Use the AWS Billing and Cost Management dashboard in each account to create monthly reports for each business unit.
- J. Enable AWS Cost and Usage Reports in the organization's master account and configure reports grouped by application, environment, and owner
- K. Create an AWS Lambda function that processes AWS Cost and Usage Reports, sends budget alerts, and sends monthly reports to each business unit's email list.

**Answer: B**

#### Explanation:

Configure AWS Budgets in the organization's master account and configure budget alerts that are grouped by application, environment, and owner. Add each business unit to an Amazon SNS topic for each alert. Use Cost Explorer in the organization's master account to create monthly reports for each business unit.  
<https://aws.amazon.com/about-aws/whats-new/2019/07/introducing-aws-budgets-reports/#:~:text=AWS%20Bud>

### NEW QUESTION 100

- (Exam Topic 1)

A company has migrated its forms-processing application to AWS. When users interact with the application, they upload scanned forms as files through a web application. A database stores user metadata and references to files that are stored in Amazon S3. The web application runs on Amazon EC2 instances and an Amazon RDS for PostgreSQL database.

When forms are uploaded, the application sends notifications to a team through Amazon Simple Notification Service (Amazon SNS). A team member then logs in and processes each form. The team member performs data validation on the form and extracts relevant data before entering the information into another system that uses an API.

A solutions architect needs to automate the manual processing of the forms. The solution must provide accurate form extraction, minimize time to market, and minimize long-term operational overhead.

Which solution will meet these requirements?

- A. Develop custom libraries to perform optical character recognition (OCR) on the form
- B. Deploy the libraries to an Amazon Elastic Kubernetes Service (Amazon EKS) cluster as an application tier
- C. Use this tier to process the forms when forms are uploaded
- D. Store the output in Amazon S3. Parse this output by extracting the data into an Amazon DynamoDB table
- E. Submit the data to the target system's API
- F. Host the new application tier on EC2 instances.
- G. Extend the system with an application tier that uses AWS Step Functions and AWS Lambda
- H. Configure this tier to use artificial intelligence and machine learning (AI/ML) models that are trained and hosted on an EC2 instance to perform optical character recognition (OCR) on the forms when forms are uploaded
- I. Store the output in Amazon S3. Parse this output by extracting the data that is required within the application tier
- J. Submit the data to the target system's API.
- K. Host a new application tier on EC2 instance
- L. Use this tier to call endpoints that host artificial intelligence and machine learning (AI/ML) models that are trained and hosted in Amazon SageMaker to perform optical character recognition (OCR) on the form
- M. Store the output in Amazon ElastiCache
- N. Parse this output by extracting the data that is required within the application tier
- O. Submit the data to the target system's API.
- P. Extend the system with an application tier that uses AWS Step Functions and AWS Lambda
- Q. Configure this tier to use Amazon Textract and Amazon Comprehend to perform optical character recognition (OCR) on the forms when forms are uploaded
- R. Store the output in Amazon S3. Parse this output by extracting the data that is required within the application tier
- S. Submit the data to the target system's API.

**Answer: D**

#### Explanation:

Extend the system with an application tier that uses AWS Step Functions and AWS Lambda. Configure this tier to use Amazon Textract and Amazon Comprehend to perform optical character recognition (OCR) on the forms when forms are uploaded. Store the output in Amazon S3. Parse this output by extracting the data that is required within the application tier. Submit the data to the target system's API. This solution meets the requirements of accurate form extraction, minimal time to market, and minimal long-term operational overhead. Amazon Textract and Amazon Comprehend are fully managed and serverless services that can perform OCR and extract relevant data from the forms, which eliminates the need to develop custom libraries or train and host models. Using AWS Step Functions and Lambda allows for easy automation of the process and the ability to scale as needed.

### NEW QUESTION 104

- (Exam Topic 1)

A company is running an application in the AWS Cloud. The company's security team must approve the creation of all new IAM users. When a new IAM user is created, all access for the user must be removed automatically. The security team must then receive a notification to approve the user. The company has a multi-Region AWS CloudTrail trail in the AWS account.

Which combination of steps will meet these requirements? (Select THREE.)

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule

- B. Define a pattern with the detail-type value set to AWS API Call via CloudTrail and an eventName of CreateUser.
- C. Configure CloudTrail to send a notification for the CreateUser event to an Amazon Simple Notification Service (Amazon SNS) topic.
- D. Invoke a container that runs in Amazon Elastic Container Service (Amazon ECS) with AWS Fargate technology to remove access
- E. Invoke an AWS Step Functions state machine to remove access.
- F. Use Amazon Simple Notification Service (Amazon SNS) to notify the security team.
- G. Use Amazon Pinpoint to notify the security team.

**Answer:** ADE

**Explanation:**

<https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/send-a-notification-when-an-iam-user-is-crea>

**NEW QUESTION 109**

- (Exam Topic 1)

A company has migrated an application from on premises to AWS. The application frontend is a static website that runs on two Amazon EC2 instances behind an Application Load Balancer (ALB). The application backend is a Python application that runs on three EC2 instances behind another ALB. The EC2 instances are large, general purpose On-Demand Instances that were sized to meet the on-premises specifications for peak usage of the application. The application averages hundreds of thousands of requests each month. However, the application is used mainly during lunchtime and receives minimal traffic during the rest of the day.

A solutions architect needs to optimize the infrastructure cost of the application without negatively affecting the application availability. Which combination of steps will meet these requirements? (Choose two.)

- A. Change all the EC2 instances to compute optimized instances that have the same number of cores as the existing EC2 instances.
- B. Move the application frontend to a static website that is hosted on Amazon S3.
- C. Deploy the application frontend by using AWS Elastic Beanstalk
- D. Use the same instance type for the nodes.
- E. Change all the backend EC2 instances to Spot Instances.
- F. Deploy the backend Python application to general purpose burstable EC2 instances that have the same number of cores as the existing EC2 instances.

**Answer:** BD

**Explanation:**

Moving the application frontend to a static website that is hosted on Amazon S3 will save cost as S3 is cheaper than running EC2 instances.

Using Spot instances for the backend EC2 instances will also save cost, as they are significantly cheaper than On-Demand instances. This will be suitable for the application, as it has minimal traffic during the rest of the day, and the availability of spot instances will not negatively affect the application's availability.

Reference:

Amazon S3 pricing: <https://aws.amazon.com/s3/pricing/>

Amazon EC2 Spot Instances documentation: <https://aws.amazon.com/ec2/spot/> AWS Elastic Beanstalk documentation: <https://aws.amazon.com/elasticbeanstalk/>

Amazon Elastic Compute Cloud (EC2) pricing: <https://aws.amazon.com/ec2/pricing/>

**NEW QUESTION 113**

- (Exam Topic 1)

A company is hosting a three-tier web application in an on-premises environment. Due to a recent surge in traffic that resulted in downtime and a significant financial impact, company management has ordered that the application be moved to AWS. The application is written in .NET and has a dependency on a MySQL database. A solutions architect must design a scalable and highly available solution to meet the demand of 200,000 daily users.

Which steps should the solutions architect take to design an appropriate solution?

- A. Use AWS Elastic Beanstalk to create a new application with a web server environment and an Amazon RDS MySQL Multi-AZ DB instance. The environment should launch a Network Load Balancer (NLB) in front of an Amazon EC2 Auto Scaling group in multiple Availability Zones. Use an Amazon Route 53 alias record to route traffic from the company's domain to the NLB.
- B. Use AWS CloudFormation to launch a stack containing an Application Load Balancer (ALB) in front of an Amazon EC2 Auto Scaling group spanning three Availability Zones.
- C. The stack should launch a Multi-AZ deployment of an Amazon Aurora MySQL DB cluster with a Retain deletion policy.
- D. Use an Amazon Route 53 alias record to route traffic from the company's domain to the ALB.
- E. Use AWS Elastic Beanstalk to create an automatically scaling web server environment that spans two separate Regions with an Application Load Balancer (ALB) in each Region.
- F. Create a Multi-AZ deployment of an Amazon Aurora MySQL DB cluster with a cross-Region read replica. Use Amazon Route 53 with a geoproximity routing policy to route traffic between the two Regions.
- G. Use AWS CloudFormation to launch a stack containing an Application Load Balancer (ALB) in front of an Amazon ECS cluster of Spot Instances spanning three Availability Zones. The stack should launch an Amazon RDS MySQL DB instance with a Snapshot deletion policy. Use an Amazon Route 53 alias record to route traffic from the company's domain to the ALB.

**Answer:** C

**Explanation:**

Using AWS CloudFormation to launch a stack with an Application Load Balancer (ALB) in front of an Amazon EC2 Auto Scaling group spanning three Availability Zones, a Multi-AZ deployment of an Amazon Aurora MySQL DB cluster with a Retain deletion policy, and an Amazon Route 53 alias record to route traffic from the company's domain to the ALB will ensure that

**NEW QUESTION 116**

- (Exam Topic 1)

A company wants to migrate its workloads from on premises to AWS. The workloads run on Linux and Windows. The company has a large on-premises infrastructure that consists of physical machines and VMs that host numerous applications.

The company must capture details about the system configuration, system performance, running processes and network connections of its on-premises servers. The company also must divide the on-premises applications into groups for AWS migrations. The company needs recommendations for Amazon EC2 instance types so that the company can run its workloads on AWS in the most cost-effective manner.

Which combination of steps should a solutions architect take to meet these requirements? (Select THREE.)

- A. Assess the existing applications by installing AWS Application Discovery Agent on the physical machines and VMs.
- B. Assess the existing applications by installing AWS Systems Manager Agent on the physical machines and VMs.

- C. Group servers into applications for migration by using AWS Systems Manager Application Manager.
- D. Group servers into applications for migration by using AWS Migration Hub.
- E. Generate recommended instance types and associated costs by using AWS Migration Hub.
- F. Import data about server sizes into AWS Trusted Advisor
- G. Follow the recommendations for cost optimization.

**Answer:** ADE

**Explanation:**

<https://docs.aws.amazon.com/application-discovery/latest/userguide/discovery-agent.html>  
<https://docs.aws.amazon.com/migrationhub/latest/ug/ec2-recommendations.html>

**NEW QUESTION 117**

- (Exam Topic 1)

A company has a serverless application comprised of Amazon CloudFront, Amazon API Gateway, and AWS Lambda functions. The current deployment process of the application code is to create a new version number of the Lambda function and run an AWS CLI script to update. If the new function version has errors, another CLI script reverts by deploying the previous working version of the function. The company would like to decrease the time to deploy new versions of the application logic provided by the Lambda functions, and also reduce the time to detect and revert when errors are identified. How can this be accomplished?

- A. Create and deploy nested AWS CloudFormation stacks with the parent stack consisting of the AWS CloudFront distribution and API Gateway, and the child stack containing the Lambda function
- B. For changes to Lambda, create an AWS CloudFormation change set and deploy; if errors are triggered, revert the AWS CloudFormation change set to the previous version.
- C. Use AWS SAM and built-in AWS CodeDeploy to deploy the new Lambda version, gradually shift traffic to the new version, and use pre-traffic and post-traffic test functions to verify code
- D. Rollback if Amazon CloudWatch alarms are triggered.
- E. Refactor the AWS CLI scripts into a single script that deploys the new Lambda version
- F. When deployment is completed, the script tests execution
- G. If errors are detected, revert to the previous Lambda version.
- H. Create and deploy an AWS CloudFormation stack that consists of a new API Gateway endpoint that references the new Lambda version
- I. Change the CloudFront origin to the new API Gateway endpoint, monitor errors and if detected, change the AWS CloudFront origin to the previous API Gateway endpoint.

**Answer:** B

**Explanation:**

<https://aws.amazon.com/about-aws/whats-new/2017/11/aws-lambda-supports-traffic-shifting-and-phased-deploy>

**NEW QUESTION 120**

- (Exam Topic 1)

A company has 50 AWS accounts that are members of an organization in AWS Organizations. Each account contains multiple VPCs. The company wants to use AWS Transit Gateway to establish connectivity between the VPCs in each member account. Each time a new member account is created, the company wants to automate the process of creating a new VPC and a transit gateway attachment. Which combination of steps will meet these requirements? (Select TWO)

- A. From the management account, share the transit gateway with member accounts by using AWS Resource Access Manager
- B. From the management account, share the transit gateway with member accounts by using an AWS Organizations SCP
- C. Launch an AWS CloudFormation stack set from the management account that automatically creates a new VPC and a VPC transit gateway attachment in a member account
- D. Associate the attachment with the transit gateway in the management account by using the transit gateway ID.
- E. Launch an AWS CloudFormation stack set from the management account that automatically creates a new VPC and a peering transit gateway attachment in a member account
- F. Share the attachment with the transit gateway in the management account by using a transit gateway service-linked role.
- G. From the management account, share the transit gateway with member accounts by using AWS Service Catalog

**Answer:** AC

**Explanation:**

<https://aws.amazon.com/blogs/mt/self-service-vpcs-in-aws-control-tower-using-aws-service-catalog/> <https://docs.aws.amazon.com/vpc/latest/tgw/tgw-transit-gateways.html>  
[https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-transitgatewayattachme](https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-transitgatewayattachment.html)

**NEW QUESTION 123**

- (Exam Topic 1)

A company is building a solution in the AWS Cloud. Thousands of devices will connect to the solution and send data. Each device needs to be able to send and receive data in real time over the MQTT protocol. Each device must authenticate by using a unique X.509 certificate. Which solution will meet these requirements with the LEAST operational overhead?

- A. Set up AWS IoT Core
- B. For each device, create a corresponding Amazon MQ queue and provision a certificate
- C. Connect each device to Amazon MQ.
- D. Create a Network Load Balancer (NLB) and configure it with an AWS Lambda authorizer
- E. Run an MQTT broker on Amazon EC2 instances in an Auto Scaling group
- F. Set the Auto Scaling group as the target for the NLB
- G. Connect each device to the NLB.
- H. Set up AWS IoT Core
- I. For each device, create a corresponding AWS IoT thing and provision a certificate
- J. Connect each device to AWS IoT Core.
- K. Set up an Amazon API Gateway HTTP API and a Network Load Balancer (NLB). Create integration between API Gateway and the NLB

- L. Configure a mutual TLS certificate authorizer on the HTTP AP
- M. Run an MQTT broker on an Amazon EC2 instance that the NLB target
- N. Connect each device to the NLB.

**Answer:** D

**Explanation:**

This solution requires minimal operational overhead, as it only requires setting up AWS IoT Core and creating a thing for each device. (Reference: AWS Certified Solutions Architect - Professional Official Amazon Text Book, Page 537)

AWS IoT Core is a fully managed service that enables secure, bi-directional communication between internet-connected devices and the AWS Cloud. It supports the MQTT protocol and includes built-in device authentication and access control. By using AWS IoT Core, the company can easily provision and manage the X.509 certificates for each device, and connect the devices to the service with minimal operational overhead.

**NEW QUESTION 124**

- (Exam Topic 1)

A company manages multiple AWS accounts by using AWS Organizations. Under the root OU, the company has two OUs: Research and DataOps.

Because of regulatory requirements, all resources that the company deploys in the organization must reside in the ap-northeast-1 Region. Additionally, EC2 instances that the company deploys in the DataOps OU must use a predefined list of instance types

A solutions architect must implement a solution that applies these restrictions. The solution must maximize operational efficiency and must minimize ongoing maintenance

Which combination of steps will meet these requirements? (Select TWO )

- A. Create an IAM role in one account under the DataOps OU Use the ec2 Instance Type condition key in an inline policy on the role to restrict access to specific instance types.
- B. Create an IAM user in all accounts under the root OU Use the aws RequestedRegion condition key in an inline policy on each user to restrict access to all AWS Regions except ap-northeast-1.
- C. Create an SCP Use the aws:RequestedRegion condition key to restrict access to all AWS Regions except ap-northeast-1 Apply the SCP to the root OU.
- D. Create an SCP Use the ec2:InstanceType condition key to restrict access to all AWS Regions except ap-northeast-1. Apply the SCP to the root O
- E. the DataOps O
- F. and the Research OU.
- G. Create an SCP Use the ec2:InstanceType condition key to restrict access to specific instance types Apply the SCP to the DataOps OU.

**Answer:** CE

**Explanation:**

[https://docs.aws.amazon.com/IAM/latest/UserGuide/reference\\_policies\\_examples\\_aws\\_deny-requested-region.h](https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-requested-region.h)

[https://docs.aws.amazon.com/organizations/latest/userguide/orgs\\_manage\\_policies\\_scps\\_examples\\_ec2.html](https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_examples_ec2.html)

**NEW QUESTION 126**

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