



Amazon

Exam Questions AWS-Certified-Solutions-Architect-Professional

Amazon AWS Certified Solutions Architect Professional

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NEW QUESTION 1

- (Exam Topic 1)

A company has an application that sells tickets online and experiences bursts of demand every 7 days. The application has a stateless presentation layer running on Amazon EC2, an Oracle database to store unstructured data catalog information, and a backend API layer. The front-end layer uses an Elastic Load Balancer to distribute the load across nine On-Demand Instances over three Availability Zones (AZs). The Oracle database is running on a single EC2 instance. The company is experiencing performance issues when running more than two concurrent campaigns. A solutions architect must design a solution that meets the following requirements:

- Address scalability issues.
- Increase the level of concurrency.
- Eliminate licensing costs.
- Improve reliability.

Which set of steps should the solutions architect take?

- A. Create an Auto Scaling group for the front end with a combination of On-Demand and Spot Instances to reduce cost
- B. Convert the Oracle database into a single Amazon RDS reserved DB instance.
- C. Create an Auto Scaling group for the front end with a combination of On-Demand and Spot Instances to reduce cost
- D. Create two additional copies of the database instance, then distribute the databases in separate AZs.
- E. Create an Auto Scaling group for the front end with a combination of On-Demand and Spot Instances to reduce cost
- F. Convert the tables in the Oracle database into Amazon DynamoDB tables.
- G. Convert the On-Demand Instances into Spot Instances to reduce costs for the front end
- H. Convert the tables in the Oracle database into Amazon DynamoDB tables.

Answer: C

Explanation:

Combination of On-Demand and Spot Instances + DynamoDB.

NEW QUESTION 2

- (Exam Topic 1)

A retail company is operating its ecommerce application on AWS. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The company uses an Amazon RDS DB instance as the database backend. Amazon CloudFront is configured with one origin that points to the ALB. Static content is cached. Amazon Route 53 is used to host all public zones.

After an update of the application, the ALB occasionally returns a 502 status code (Bad Gateway) error. The root cause is malformed HTTP headers that are returned to the ALB. The webpage returns successfully when a solutions architect reloads the webpage immediately after the error occurs.

While the company is working on the problem, the solutions architect needs to provide a custom error page instead of the standard ALB error page to visitors. Which combination of steps will meet this requirement with the LEAST amount of operational overhead? (Choose two.)

- A. Create an Amazon S3 bucket
- B. Configure the S3 bucket to host a static webpage
- C. Upload the custom error pages to Amazon S3.
- D. Create an Amazon CloudWatch alarm to invoke an AWS Lambda function if the ALB health check response Target.FailedHealthChecks is greater than 0. Configure the Lambda function to modify the forwarding rule at the ALB to point to a publicly accessible web server.
- E. Modify the existing Amazon Route 53 records by adding health check
- F. Configure a fallback target if the health check fail
- G. Modify DNS records to point to a publicly accessible webpage.
- H. Create an Amazon CloudWatch alarm to invoke an AWS Lambda function if the ALB health check response Elb.InternalError is greater than 0. Configure the Lambda function to modify the forwarding rule at the ALB to point to a public accessible web server.
- I. Add a custom error response by configuring a CloudFront custom error page
- J. Modify DNS records to point to a publicly accessible web page.

Answer: AE

Explanation:

"Save your custom error pages in a location that is accessible to CloudFront. We recommend that you store them in an Amazon S3 bucket, and that you don't store them in the same place as the rest of your website or application's content. If you store the custom error pages on the same origin as your website or application, and the origin starts to return 5xx errors, CloudFront can't get the custom error pages because the origin server is unavailable."

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/GeneratingCustomErrorResponses.htm>

NEW QUESTION 3

- (Exam Topic 1)

A company has a project that is launching Amazon EC2 instances that are larger than required. The project's account cannot be part of the company's organization in AWS Organizations due to policy restrictions to keep this activity outside of corporate IT. The company wants to allow only the launch of t3.small EC2 instances by developers in the project's account. These EC2 instances must be restricted to the us-east-2 Region.

What should a solutions architect do to meet these requirements?

- A. Create a new developer account
- B. Move all EC2 instances, users, and assets into us-east-2. Add the account to the company's organization in AWS Organization
- C. Enforce a tagging policy that denotes Region affinity.
- D. Create an SCP that denies the launch of all EC2 instances except I3.small EC2 instances in us-east-2. Attach the SCP to the project's account.
- E. Create and purchase a t3.small EC2 Reserved Instance for each developer in us-east-2. Assign each developer a specific EC2 instance with their name as the tag.
- F. Create an IAM policy that allows the launch of only t3.small EC2 instances in us-east-2. Attach the policy to the roles and groups that the developers use in the project's account.

Answer: D

NEW QUESTION 4

- (Exam Topic 1)

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 m 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. Connect the existing transit gateway to the new VPC. Configure a new NAT gateway. 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. Modify all default routes to point to the proxy's Auto Scaling group.
- B. Create a new VPC for outbound traffic to the internet. Connect the existing transit gateway to the new VPC. Configure a new NAT gateway. Use an AWS Network Firewall firewall for rule-based filtering. Create Network Firewall endpoints in each Availability Zone. Modify all default routes to point to the Network Firewall endpoints.
- C. Create an AWS Network Firewall firewall for rule-based filtering in each AWS account. Modify all default routes to point to the Network Firewall firewalls in each account.
- D. 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. 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/> <https://aws.amazon.com/blogs/networking-and-content-delivery/deploy-centralized-traffic-filtering-using-aws-n>

NEW QUESTION 5

- (Exam Topic 1)

A company is migrating its three-tier web application from on-premises to the AWS Cloud. The company has the following requirements for the migration process:

- Ingest machine images from the on-premises environment.
- Synchronize changes from the on-premises environment to the AWS environment until the production cutover.
- Minimize downtime when executing the production cutover.
- Migrate the virtual machines' root volumes and data volumes.

Which solution will satisfy these requirements with minimal operational overhead?

- A. Use AWS Server Migration Service (SMS) to create and launch a replication job for each tier of the application.
- B. Launch instances from the AMIs created by AWS SM.
- C. After initial testing, perform a final replication and create new instances from the updated AMIs.
- D. Create an AWS CLI VM Import/Export script to migrate each virtual machine.
- E. Schedule the script to run incrementally to maintain changes in the application.
- F. Launch instances from the AMIs created by VM Import/Export.
- G. Once testing is done, rerun the script to do a final import and launch the instances from the AMIs.
- H. Use AWS Server Migration Service (SMS) to upload the operating system volume.
- I. Use the AWS CLI import-snaps hot command for the data volume.
- J. Launch instances from the AMIs created by AWS SMS and attach the data volumes to the instances.
- K. After initial testing, perform a final replication, launch new instances from the replicated AMI.
- L. and attach the data volumes to the instances.
- M. Use AWS Application Discovery Service and AWS Migration Hub to group the virtual machines as an application.
- N. Use the AWS CLI VM Import/Export script to import the virtual machines as AMI.
- O. Schedule the script to run incrementally to maintain changes in the application.
- P. Launch instances from the AMI.
- Q. After initial testing, perform a final virtual machine import and launch new instances from the AMIs.

Answer: A

Explanation:

SMS can handle migrating the data volumes:

<https://aws.amazon.com/about-aws/whats-new/2018/09/aws-server-migration-service-adds-support-for-migrating-vm-images/>

NEW QUESTION 6

- (Exam Topic 1)

A company has many services running in its on-premises data center. The data center is connected to AWS using AWS Direct Connect (DX) and an IPsec VPN. The service data is sensitive and connectivity cannot traverse the internet. The company wants to expand into a new market segment and begin offering its services to other companies that are using AWS.

Which solution will meet these requirements?

- A. Create a VPC Endpoint Service that accepts TCP traffic, host it behind a Network Load Balancer, and make the service available over DX.
- B. Create a VPC Endpoint Service that accepts HTTP or HTTPS traffic, host it behind an Application Load Balancer, and make the service available over DX.
- C. Attach an internet gateway to the VPC.
- D. and ensure that network access control and security group rules allow the relevant inbound and outbound traffic.
- E. Attach a NAT gateway to the VPC.
- F. and ensure that network access control and security group rules allow the relevant inbound and outbound traffic.

Answer: A

NEW QUESTION 7

- (Exam Topic 1)

A company is running an application on several Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer. The load on the application varies throughout the day, and EC2 instances are scaled in and out on a regular basis. Log files from the EC2 instances are copied to a central Amazon S3 bucket every 15 minutes. The security team discovers that log files are missing from some of the terminated EC2 instances.

Which set of actions will ensure that log files are copied to the central S3 bucket from the terminated EC2 instances?

- A. Create a script to copy log files to Amazon S3, and store the script in a file on the EC2 instance
- B. Create an Auto Scaling lifecycle hook and an Amazon EventBridge (Amazon CloudWatch Events) rule to detect lifecycle events from the Auto Scaling group
- C. Invoke an AWS Lambda function on the autoscaling:EC2_INSTANCE_TERMINATING transition to send ABANDON to the Auto Scaling group to prevent termination, run the script to copy the log files, and terminate the instance using the AWS SDK.
- D. Create an AWS Systems Manager document with a script to copy log files to Amazon S3. Create an Auto Scaling lifecycle hook and an Amazon EventBridge (Amazon CloudWatch Events) rule to detect lifecycle events from the Auto Scaling group
- E. Invoke an AWS Lambda function on the autoscaling:EC2_INSTANCE_TERMINATING transition to call the AWS Systems Manager API SendCommand operation to run the document to copy the log files and send CONTINUE to the Auto Scaling group to terminate the instance.
- F. Change the log delivery rate to every 5 minute
- G. Create a script to copy log files to Amazon S3, and add the script to EC2 instance user data
- H. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to detect EC2 instance termination
- I. Invoke an AWS Lambda function from the EventBridge (CloudWatch Events) rule that uses the AWS CLI to run the user-data script to copy the log files and terminate the instance.
- J. Create an AWS Systems Manager document with a script to copy log files to Amazon S3. Create an Auto Scaling lifecycle hook that publishes a message to an Amazon Simple Notification Service (Amazon SNS) topic
- K. From the SNS notification, call the AWS Systems Manager API SendCommand operation to run the document to copy the log files and send ABANDON to the Auto Scaling group to terminate the instance.

Answer: B

Explanation:

<https://docs.aws.amazon.com/autoscaling/ec2/userguide/adding-lifecycle-hooks.html>

- Refer to Default Result section - If the instance is terminating, both abandon and continue allow the instance to terminate. However, abandon stops any remaining actions, such as other lifecycle hooks, and continue allows any other lifecycle hooks to complete.

[https://aws.amazon.com/blogs/infrastructure-and-automation/run-code-before-terminating-an-ec2-auto-scaling-i](https://aws.amazon.com/blogs/infrastructure-and-automation/run-code-before-terminating-an-ec2-auto-scaling-instance/) <https://github.com/aws-samples/aws-lambda-lifecycle-hooks-function>

<https://github.com/aws-samples/aws-lambda-lifecycle-hooks-function/blob/master/cloudformation/template.yaml>

NEW QUESTION 8

- (Exam Topic 1)

A solutions architect is evaluating the reliability of a recently migrated application running on AWS. The front end is hosted on Amazon S3 and accelerated by Amazon CloudFront. The application layer is running in a stateless Docker container on an Amazon EC2 On-Demand Instance with an Elastic IP address. The storage layer is a MongoDB database running on an EC2 Reserved Instance in the same Availability Zone as the application layer.

Which combination of steps should the solutions architect take to eliminate single points of failure with minimal application code changes? (Select TWO.)

- A. Create a REST API in Amazon API Gateway and use AWS Lambda functions as the application layer.
- B. Create an Application Load Balancer and migrate the Docker container to AWS Fargate.
- C. Migrate the storage layer to Amazon DynamoDB.
- D. Migrate the storage layer to Amazon DocumentDB (with MongoDB compatibility).
- E. Create an Application Load Balancer and move the storage layer to an EC2 Auto Scaling group.

Answer: BD

Explanation:

https://aws.amazon.com/documentdb/?nc1=h_ls

<https://aws.amazon.com/blogs/containers/using-alb-ingress-controller-with-amazon-eks-on-fargate/>

NEW QUESTION 9

- (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/>

NEW QUESTION 10

- (Exam Topic 1)

A financial services company receives a regular data feed from its credit card servicing partner. Approximately 5.1 records are sent every 15 minutes in plaintext, delivered over HTTPS directly into an Amazon S3 bucket with server-side encryption. This feed contains sensitive credit card primary account number (PAN) data. The company needs to automatically mask the PAN before sending the data to another S3 bucket for additional internal processing. The company also needs to remove and merge specific fields, and then transform the record into JSON format. Additionally, extra feeds are likely to be added in the future, so any design needs to be easily expandable.

Which solutions will meet these requirements?

- A. Trigger an AWS Lambda function on file delivery that extracts each record and writes it to an Amazon SQS queue
- B. Trigger another Lambda function when new messages arrive in the SQS queue to process the records, writing the results to a temporary location in Amazon S3.

Trigger a final Lambda function once the SQS queue is empty to transform the records into JSON format and send the results to another S3 bucket for internal processing.

- C. Trigger an AWS Lambda function on file delivery that extracts each record and writes it to an Amazon SQS queue
- D. Configure an AWS Fargate container application to automatically scale to a single instance when the SQS queue contains message
- E. Have the application process each record, and transform the record into JSON format
- F. When the queue is empty, send the results to another S3 bucket for internal processing and scale down the AWS Fargate instance.
- G. Create an AWS Glue crawler and custom classifier based on the data feed formats and build a table definition to match
- H. Trigger an AWS Lambda function on file delivery to start an AWS Glue ETL job to transform the entire record according to the processing and transformation requirement
- I. Define the output format as JSON
- J. Once complete, have the ETL job send the results to another S3 bucket for internal processing.
- K. Create an AWS Glue crawler and custom classifier based upon the data feed formats and build a table definition to match
- L. Perform an Amazon Athena query on file delivery to start an Amazon EMR ETL job to transform the entire record according to the processing and transformation requirement
- M. Define the output format as JSON
- N. Once complete, send the results to another S3 bucket for internal processing and scale down the EMR cluster.

Answer: C

Explanation:

You can use a Glue crawler to populate the AWS Glue Data Catalog with tables. The Lambda function can be triggered using S3 event notifications when object create events occur. The Lambda function will then trigger the Glue ETL job to transform the records masking the sensitive data and modifying the output format to JSON. This solution meets all requirements.

Create an AWS Glue crawler and custom classifier based on the data feed formats and build a table definition to match. Trigger an AWS Lambda function on file delivery to start an AWS Glue ETL job to transform the entire record according to the processing and transformation requirements. Define the output format as JSON.

Once complete, have the ETL job send the results to another S3 bucket for internal processing. <https://docs.aws.amazon.com/glue/latest/dg/trigger-job.html>
https://d1.awsstatic.com/Products/product-name/diagrams/product-page-diagram_Glue_Event-driven-ETL-Pipel

NEW QUESTION 10

- (Exam Topic 1)

A solutions architect is building a web application that uses an Amazon RDS for PostgreSQL DB instance. The DB instance is expected to receive many more reads than writes. The solutions architect needs to ensure that the large amount of read traffic can be accommodated and that the DB instance is highly available. Which steps should the solutions architect take to meet these requirements? (Select THREE)

- A. Create multiple read replicas and put them into an Auto Scaling group.
- B. Create multiple read replicas in different Availability Zones.
- C. Create an Amazon Route 53 hosted zone and a record set for each read replica with a TTL and a weighted routing policy.
- D. Create an Application Load Balancer (ALB) and put the read replicas behind the ALB.
- E. Configure an Amazon CloudWatch alarm to detect a failed read replica
- F. Set the alarm to directly invoke an AWS Lambda function to delete its Route 53 record set.
- G. Configure an Amazon Route 53 health check for each read replica using its endpoint

Answer: BCF

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/requests-rds-read-replicas/>

You can use Amazon Route 53 weighted record sets to distribute requests across your read replicas. Within a Route 53 hosted zone, create individual record sets for each DNS endpoint associated with your read replicas and give them the same weight. Then, direct requests to the endpoint of the record set. You can incorporate Route 53 health checks to be sure that Route 53 directs traffic away from unavailable read replicas

NEW QUESTION 15

- (Exam Topic 1)

A company is serving files to its customers through an SFTP server that is accessible over the internet. The SFTP server is running on a single Amazon EC2 instance with an Elastic IP address attached. Customers connect to the SFTP server through its Elastic IP address and use SSH (or authentication). The EC2 instance also has an attached security group that allows access from all customer IP addresses.

A solutions architect must implement a solution to improve availability, minimize the complexity of infrastructure management, and minimize the disruption to customers who access files. The solution must not change the way customers connect.

Which solution will meet these requirements?

- A. Disassociate the Elastic IP address from the EC2 instance
- B. Create an Amazon S3 bucket to be used for SFTP file hosting
- C. Create an AWS Transfer Family server. Configure the Transfer Family server with a publicly accessible endpoint. Associate the SFTP Elastic IP address with the new endpoint. Point the Transfer Family server to the S3 bucket
- D. Sync all files from the SFTP server to the S3 bucket.
- E. Disassociate the Elastic IP address from the EC2 instance
- F. Create an Amazon S3 bucket to be used for SFTP file hosting
- G. Create an AWS Transfer Family server
- H. Configure the Transfer Family server with a VPC-hosted
- I. internet-facing endpoint
- J. Associate the SFTP Elastic IP address with the new endpoint
- K. Attach the security group with customer IP addresses to the new endpoint
- L. Point the Transfer Family server to the S3 bucket. Sync all files from the SFTP server to the S3 bucket.
- M. Disassociate the Elastic IP address from the EC2 instance
- N. Create a new Amazon Elastic File System (Amazon EFS) file system to be used for SFTP file hosting
- O. Create an AWS Fargate task definition to run an SFTP server
- P. Specify the EFS file system as a mount in the task definition
- Q. Create a Fargate service by using the task definition, and place a Network Load Balancer (NLB) in front of the service. When configuring the service, attach the security group with customer IP addresses to the tasks that run the SFTP server
- R. Associate the Elastic IP address with the NLB
- S. Sync all files from the SFTP server to the S3 bucket.

- T. Disassociate the Elastic IP address from the EC2 instance
- . Create a multi-attach Amazon Elastic Block Store (Amazon EBS) volume to be used for SFTP file hosting
- . Create a Network Load Balancer (NLB) with the Elastic IP address attached
- . Create an Auto Scaling group with EC2 instances that run an SFTP server. Define in the Auto Scaling group that instances that are launched should attach the new multi-attach EBS volume. Configure the Auto Scaling group to automatically add instances behind the NLB. Configure the Auto Scaling group to use the security group that allows customer IP addresses for the EC2 instances that the Auto Scaling group launches
- . Sync all files from the SFTP server to the new multi-attach EBS volume.

Answer: B

Explanation:

<https://docs.aws.amazon.com/transfer/latest/userguide/create-server-in-vpc.html> <https://aws.amazon.com/premiumsupport/knowledge-center/aws-sftp-endpoint-type/>

NEW QUESTION 19

- (Exam Topic 1)

A company has developed an application that is running Windows Server on VMware vSphere VMs that the company hosts on-premises. The application data is stored in a proprietary format that must be read through the application. The company manually provisioned the servers and the application.

As part of its disaster recovery plan, the company wants the ability to host its application on AWS temporarily if the company's on-premises environment becomes unavailable. The company wants the application to return to on-premises hosting after a disaster recovery event is complete. The RPO is 15 minutes.

Which solution meets these requirements with the LEAST amount of operational overhead?

- A. Configure AWS DataSync
- B. Replicate the data to Amazon Elastic Block Store (Amazon EBS) volumes. When the on-premises environment is unavailable, use AWS CloudFormation templates to provision Amazon EC2 instances and attach the EBS volumes
- C. Configure CloudEndure Disaster Recovery. Replicate the data to replication Amazon EC2 instances that are attached to Amazon Elastic Block Store (Amazon EBS) volumes. When the on-premises environment is unavailable, use CloudEndure to launch EC2 instances that use the replicated volumes.
- D. Provision an AWS Storage Gateway. We gateway
- E. Recreate the data to an Amazon S3 bucket
- F. When the on-premises environment is unavailable, use AWS Backup to restore the data to Amazon Elastic Block Store (Amazon EBS) volumes and launch Amazon EC2 instances from these EBS volumes
- G. Provision an Amazon FSx for Windows File System on AWS. Replicate the data to the on-premises system. When the on-premises environment is unavailable, use AWS CloudFormation templates to provision Amazon EC2 instances and use AWS CloudFormation Init commands to mount the Amazon FSx file shares

Answer: D

NEW QUESTION 23

- (Exam Topic 1)

A company's AWS architecture currently uses access keys and secret access keys stored on each instance to access AWS services. Database credentials are hard-coded on each instance. SSH keys for command-line remote access are stored in a secured Amazon S3 bucket. The company has asked its solutions architect to improve the security posture of the architecture without adding operational complexity.

Which combination of steps should the solutions architect take to accomplish this? (Select THREE.)

- A. Use Amazon EC2 instance profiles with an IAM role.
- B. Use AWS Secrets Manager to store access keys and secret access keys.
- C. Use AWS Systems Manager Parameter Store to store database credentials.
- D. Use a secure fleet of Amazon EC2 bastion hosts (or remote access).
- E. Use AWS KMS to store database credentials.
- F. Use AWS Systems Manager Session Manager for remote access

Answer: ACF

Explanation:

<https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html>

NEW QUESTION 27

- (Exam Topic 1)

A company uses an on-premises data analytics platform. The system is highly available in a fully redundant configuration across 12 servers in the company's data center.

The system runs scheduled jobs, both hourly and daily, in addition to one-time requests from users. Scheduled jobs can take between 20 minutes and 2 hours to finish running and have tight SLAs. The scheduled jobs account for 65% of the system usage. User jobs typically finish running in less than 5 minutes and have no SLA. The user jobs account for 35% of system usage. During system failures, scheduled jobs must continue to meet SLAs. However, user jobs can be delayed.

A solutions architect needs to move the system to Amazon EC2 instances and adopt a consumption-based model to reduce costs with no long-term commitments. The solution must maintain high availability and must not affect the SLAs.

Which solution will meet these requirements MOST cost-effectively?

- A. Split the 12 instances across two Availability Zones in the chosen AWS Region
- B. Run two instances in each Availability Zone as On-Demand Instances with Capacity Reservation
- C. Run four instances in each Availability Zone as Spot Instances.
- D. Split the 12 instances across three Availability Zones in the chosen AWS Region
- E. In one of the Availability Zones, run all four instances as On-Demand Instances with Capacity Reservation
- F. Run the remaining instances as Spot Instances.
- G. Split the 12 instances across three Availability Zones in the chosen AWS Region
- H. Run two instances in each Availability Zone as On-Demand Instances with a Savings Plan
- I. Run two instances in each Availability Zone as Spot Instances.
- J. Split the 12 instances across three Availability Zones in the chosen AWS Region
- K. Run three instances in each Availability Zone as On-Demand Instances with Capacity Reservation
- L. Run one instance in each Availability Zone as a Spot Instance.

Answer: D

NEW QUESTION 30

- (Exam Topic 1)

A company that tracks medical devices in hospitals wants to migrate its existing storage solution to the AWS Cloud. The company equips all of its devices with sensors that collect location and usage information. This sensor data is sent in unpredictable patterns with large spikes. The data is stored in a MySQL database running on premises at each hospital. The company wants the cloud storage solution to scale with usage.

The company's analytics team uses the sensor data to calculate usage by device type and hospital. The team needs to keep analysis tools running locally while fetching data from the cloud. The team also needs to use existing Java application and SQL queries with as few changes as possible.

How should a solutions architect meet these requirements while ensuring the sensor data is secure?

- A. Store the data in an Amazon Aurora Serverless database
- B. Serve the data through a Network Load Balancer (NLB). Authenticate users using the NLB with credentials stored in AWS Secrets Manager.
- C. Store the data in an Amazon S3 bucket
- D. Serve the data through Amazon QuickSight using an IAM user authorized with AWS Identity and Access Management (IAM) with the S3 bucket as the data source.
- E. Store the data in an Amazon Aurora Serverless database
- F. Serve the data through the Aurora Data API using an IAM user authorized with AWS Identity and Access Management (IAM) and the AWS Secrets Manager ARN.
- G. Store the data in an Amazon S3 bucket
- H. Serve the data through Amazon Athena using AWS PrivateLink to secure the data in transit.

Answer: C

Explanation:

<https://aws.amazon.com/blogs/aws/new-data-api-for-amazon-aurora-serverless/> <https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/data-api.html>
<https://aws.amazon.com/blogs/aws/aws-privatelink-for-amazon-s3-now-available/> <https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/data-api.html#data-api.access>

The data is currently stored in a MySQL database running on-prem. Storing MySQL data in S3 doesn't sound good so B & D are out. Aurora Data API "enables the SQL HTTP endpoint, a connectionless Web Service API for running SQL queries against this database. When the SQL HTTP endpoint is enabled, you can also query your database from inside the RDS console (these features are free to use)."

NEW QUESTION 35

- (Exam Topic 1)

A company has many AWS accounts and uses AWS Organizations to manage all of them. A solutions architect must implement a solution that the company can use to share a common network across multiple accounts.

The company's infrastructure team has a dedicated infrastructure account that has a VPC. The infrastructure team must use this account to manage the network. Individual accounts cannot have the ability to manage their own networks. However, individual accounts must be able to create AWS resources within subnets. Which combination of actions should the solutions architect perform to meet these requirements? (Select TWO.)

- A. Create a transit gateway in the infrastructure account.
- B. Enable resource sharing from the AWS Organizations management account.
- C. Create VPCs in each AWS account within the organization in AWS Organization
- D. Configure the VPCs to share the same CIDR range and subnets as the VPC in the infrastructure account
- E. Peer the VPCs in each individual account with the VPC in the infrastructure account,
- F. Create a resource share in AWS Resource Access Manager in the infrastructure account
- G. Select the specific AWS Organizations OU that will use the shared network
- H. Select each subnet to associate with the resource share.
- I. Create a resource share in AWS Resource Access Manager in the infrastructure account
- J. Select the specific AWS Organizations OU that will use the shared network
- K. Select each prefix list to associate with the resource share.

Answer: CE

Explanation:

<https://docs.aws.amazon.com/vpc/latest/userguide/sharing-managed-prefix-lists.html>

NEW QUESTION 38

- (Exam Topic 1)

A large payroll company recently merged with a small staffing company. The unified company now has multiple business units, each with its own existing AWS account.

A solutions architect must ensure that the company can centrally manage the billing and access policies for all the AWS accounts. The solutions architect configures AWS Organizations by sending an invitation to all member accounts of the company from a centralized management account.

What should the solutions architect do next to meet these requirements?

- A. Create the OrganizationAccountAccess IAM group in each member account
- B. Include the necessary IAM roles for each administrator.
- C. Create the OrganizationAccountAccessPolicy IAM policy in each member account
- D. Connect the member accounts to the management account by using cross-account access.
- E. Create the OrganizationAccountAccessRole IAM role in each member account
- F. Grant permission to the management account to assume the IAM role.
- G. Create the OrganizationAccountAccessRole IAM role in the management account Attach the Administrator Access AWS managed policy to the IAM role
- H. Assign the IAM role to the administrators in each member account.

Answer: C

NEW QUESTION 42

- (Exam Topic 1)

A company hosts a photography website on AWS that has global visitors. The website has experienced steady increases in traffic during the last 12 months, and users have reported a delay in displaying images. The company wants to configure Amazon CloudFront to deliver photos to visitors with minimal latency.

Which actions will achieve this goal? (Select TWO.)

- A. Set the Minimum TTL and Maximum TTL to 0 in the CloudFront distribution.
- B. Set the Minimum TTL and Maximum TTL to a high value in the CloudFront distribution.
- C. Set the CloudFront distribution to forward all headers, all cookies, and all query strings to the origin.
- D. Set up additional origin servers that are geographically closer to the requester
- E. Configure latency-based routing in Amazon Route 53.
- F. Select Price Class 100 on the CloudFront distribution.

Answer: BD

NEW QUESTION 44

- (Exam Topic 1)

A company is planning on hosting its ecommerce platform on AWS using a multi-tier web application designed for a NoSQL database. The company plans to use the us-west-2 Region as its primary Region. The company wants to ensure that copies of the application and data are available in a second Region, us-west-1, for disaster recovery. The company wants to keep the time to fail over as low as possible. Failing back to the primary Region should be possible without administrative interaction after the primary service is restored.

Which design should the solutions architect use?

- A. Use AWS CloudFormation StackSets to create the stacks in both Regions with Auto Scaling groups for the web and application tier
- B. Asynchronously replicate static content between Regions using Amazon S3 cross-Region replication
- C. Use an Amazon Route 53 DNS failover routing policy to direct users to the secondary site in us-west-1 in the event of an outage
- D. Use Amazon DynamoDB global tables for the database tier.
- E. Use AWS CloudFormation StackSets to create the stacks in both Regions with Auto Scaling groups for the web and application tier
- F. Asynchronously replicate static content between Regions using Amazon S3 cross-Region replication
- G. Use an Amazon Route 53 DNS failover routing policy to direct users to the secondary site in us-west-1 in the event of an outage
- H. Deploy an Amazon Aurora global database for the database tier.
- I. Use AWS Service Catalog to deploy the web and application servers in both Regions
- J. Asynchronously replicate static content between the two Regions using Amazon S3 cross-Region replication
- K. Use Amazon Route 53 health checks to identify a primary Region failure and update the public DNS entry listing to the secondary Region in the event of an outage
- L. Use Amazon RDS for MySQL with cross-Region replication for the database tier.
- M. Use AWS CloudFormation StackSets to create the stacks in both Regions using Auto Scaling groups for the web and application tier
- N. Asynchronously replicate static content between Regions using Amazon S3 cross-Region replication
- O. Use Amazon CloudFront with static files in Amazon S3, and multi-Region origins for the front-end web tier
- P. Use Amazon DynamoDB tables in each Region with scheduled backups to Amazon S3.

Answer: A

NEW QUESTION 48

- (Exam Topic 1)

A company is running an application distributed over several Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer. The security team requires that all application access attempts be made available for analysis. Information about the client IP address, connection type, and user agent must be included.

Which solution will meet these requirements?

- A. Enable EC2 detailed monitoring, and include network logs. Send all logs through Amazon Kinesis Data Firehose to an Amazon Elasticsearch Service (Amazon ES) cluster that the security team uses for analysis.
- B. Enable VPC Flow Logs for all EC2 instance network interfaces. Publish VPC Flow Logs to an Amazon S3 bucket. Have the security team use Amazon Athena to query and analyze the logs.
- C. Enable access logs for the Application Load Balancer, and publish the logs to an Amazon S3 bucket. Have the security team use Amazon Athena to query and analyze the logs.
- D. Enable Traffic Mirroring and specify all EC2 instance network interfaces as the source.
- E. Send all traffic information through Amazon Kinesis Data Firehose to an Amazon Elasticsearch Service (Amazon ES) cluster that the security team uses for analysis.

Answer: C

Explanation:

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

NEW QUESTION 49

- (Exam Topic 1)

A company has an Amazon VPC that is divided into a public subnet and a private subnet. A web application runs in the Amazon VPC, and each subnet has its own NACL. The public subnet has a CIDR of 10.0.0.0/24. An Application Load Balancer is deployed to the public subnet. The private subnet has a CIDR of 10.0.1.0/24. Amazon EC2 instances that run a web server on port 80 are launched into the private subnet.

Only network traffic that is required for the Application Load Balancer to access the web application can be allowed to travel between the public and private subnets.

What collection of rules should be written to ensure that the private subnet's NACL meets the requirement? (Select TWO.)

- A. An inbound rule for port 80 from source 0.0.0.0/0
- B. An inbound rule for port 80 from source 10.0.0.0/24
- C. An outbound rule for port 80 to destination 0.0.0.0/0
- D. An outbound rule for port 80 to destination 10.0.0.0/24
- E. An outbound rule for ports 1024 through 65535 to destination 10.0.0.0/24

Answer: BE

Explanation:

Ephemeral ports are not covered in the syllabus, so be careful that you don't confuse day-to-day best practice with what is required for the exam. Link to an explanation on Ephemeral ports here: <https://acloud.guru/forums/aws-certified-solutions-architect-associate/discussion/-KUbwo4IXefMI7janaK/netw>

NEW QUESTION 54

- (Exam Topic 1)

A finance company hosts a data lake in Amazon S3. The company receives financial data records over SFTP each night from several third parties. The company runs its own SFTP server on an Amazon EC2 instance in a public subnet of a VPC. After the files are uploaded, they are moved to the data lake by a cron job that runs on the same instance. The SFTP server is reachable on DNS `sftp.example.com` through the use of Amazon Route 53.

What should a solutions architect do to improve the reliability and scalability of the SFTP solution?

- A. Move the EC2 instance into an Auto Scaling group
- B. Place the EC2 instance behind an Application Load Balancer (ALB). Update the DNS record `sftp.example.com` in Route 53 to point to the ALB.
- C. Migrate the SFTP server to AWS Transfer for SFTP
- D. Update the DNS record `sftp.example.com` in Route 53 to point to the server endpoint hostname.
- E. Migrate the SFTP server to a file gateway in AWS Storage Gateway
- F. Update the DNS record `sftp.example.com` in Route 53 to point to the file gateway endpoint.
- G. Place the EC2 instance behind a Network Load Balancer (NLB). Update the DNS record `sftp.example.com` in Route 53 to point to the NLB.

Answer: B

Explanation:

<https://aws.amazon.com/aws-transfer-family/faqs/> <https://docs.aws.amazon.com/transfer/latest/userguide/what-is-aws-transfer-family.html>
https://aws.amazon.com/about-aws/whats-new/2018/11/aws-transfer-for-sftp-fully-managed-sftp-for-s3/?nc1=h_

NEW QUESTION 55

- (Exam Topic 1)

A start up company hosts a fleet of Amazon EC2 instances in private subnets using the latest Amazon Linux 2 AMI. The company's engineers rely heavily on SSH access to the instances for troubleshooting.

The company's existing architecture includes the following:

- A VPC with private and public subnets, and a NAT gateway
- Site-to-Site VPN for connectivity with the on-premises environment
- EC2 security groups with direct SSH access from the on-premises environment

The company needs to increase security controls around SSH access and provide auditing of commands executed by the engineers.

Which strategy should a solutions architect use?

- A. Install and configure EC2 Instance Connect on the fleet of EC2 instances
- B. Remove all security group rules attached to EC2 instances that allow inbound TCP on port 22. Advise the engineers to remotely access the instances by using the EC2 Instance Connect CLI.
- C. Update the EC2 security groups to only allow inbound TCP on port 22 to the IP addresses of the engineer's device
- D. Install the Amazon CloudWatch agent on all EC2 instances and send operating system audit logs to CloudWatch Logs.
- E. Update the EC2 security groups to only allow inbound TCP on port 22 to the IP addresses of the engineer's device
- F. Enable AWS Config for EC2 security group resource change
- G. Enable AWS Firewall Manager and apply a security group policy that automatically remediates changes to rules.
- H. Create an IAM role with the AmazonSSMManagedInstanceCore managed policy attached
- I. Attach the IAM role to all the EC2 instances
- J. Remove all security group rules attached to the EC2 instances that allow inbound TCP on port 22. Have the engineers install the AWS Systems Manager Session Manager plugin for their devices and remotely access the instances by using the start-session API call from Systems Manager.

Answer: D

Explanation:

Allows client machines to be able to connect to Session Manager using the AWS CLI instead of going through the AWS EC2 or AWS Server Manager console.
<https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-working-with-install-plugin.html> <https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-working-with-install-plugin.html>

NEW QUESTION 60

- (Exam Topic 1)

A company is planning to set up a REST API application on AWS. The application team wants to set up a new identity store on AWS. The IT team does not want to maintain any infrastructure or servers for this deployment.

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

- A. Deploy the application as AWS Lambda function
- B. Set up Amazon API Gateway REST API endpoints for the application. Create a Lambda function, and configure a Lambda authorizer
- C. Deploy the application in AWS AppSync, and configure AWS Lambda resolvers. Set up an Amazon Cognito user pool, and configure AWS AppSync to use the user pool for authorization
- D. Deploy the application as AWS Lambda function
- E. Set up Amazon API Gateway REST API endpoints for the application. Set up an Amazon Cognito user pool, and configure an Amazon Cognito authorizer
- F. Deploy the application in Amazon Elastic Kubernetes Service (Amazon EKS) cluster
- G. Set up an Application Load Balancer for the EKS pods. Set up an Amazon Cognito user pool and service pod for authentication.

Answer: C

NEW QUESTION 61

- (Exam Topic 1)

A company runs a popular public-facing e-commerce website. Its user base is growing quickly from a local market to a national market. The website is hosted in an on-premises data center with web servers and a MySQL database. The company wants to migrate its workload to AWS. A solutions architect needs to create a solution to:

- Improve security
- Improve reliability
- Improve availability
- Reduce latency
- Reduce maintenance

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

- A. Use Amazon EC2 instances in two Availability Zones for the web servers in an Auto Scaling group behind an Application Load Balancer.
- B. Migrate the database to a Multi-AZ Amazon Aurora MySQL DB cluster.
- C. Use Amazon EC2 instances in two Availability Zones to host a highly available MySQL database cluster.
- D. Host static website content in Amazon S3. Use S3 Transfer Acceleration to reduce latency while serving webpage
- E. Use AWS WAF to improve website security.
- F. Host static website content in Amazon S3. Use Amazon CloudFront to reduce latency while serving webpage
- G. Use AWS WAF to improve website security
- H. Migrate the database to a single-AZ Amazon RDS for MySQL DB instance.

Answer: ABE

NEW QUESTION 62

- (Exam Topic 1)

A company is running an Apache Hadoop cluster on Amazon EC2 instances. The Hadoop cluster stores approximately 100 TB of data for weekly operational reports and allows occasional access for data scientists to retrieve data. The company needs to reduce the cost and operational complexity for storing and serving this data.

Which solution meets these requirements in the MOST cost-effective manner?

- A. Move the Hadoop cluster from EC2 instances to Amazon EM
- B. Allow data access patterns to remain the same.
- C. Write a script that resizes the EC2 instances to a smaller instance type during downtime and resizes the instances to a larger instance type before the reports are created.
- D. Move the data to Amazon S3 and use Amazon Athena to query the data for report
- E. Allow the data scientists to access the data directly in Amazon S3.
- F. Migrate the data to Amazon DynamoDB and modify the reports to fetch data from DynamoD
- G. Allow the data scientists to access the data directly in DynamoDB.

Answer: C

Explanation:

"The company needs to reduce the cost and operational complexity for storing and serving this data. Which solution meets these requirements in the MOST cost-effective manner?" EMR storage is ephemeral. The company has 100TB that need to persist, they would have to use EMRFS to backup to S3 anyway.

<https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-storage.html>

100TB

EBS - 8.109\$ S3 - 2.355\$

You have saved 5.752\$

This amount can be used for Athen. BTW. we don't know indexes, amount of data that is scanned. What we know is that it will be: "occasional access for data scientists to retrieve data"

NEW QUESTION 66

- (Exam Topic 1)

A solution architect is designing an AWS account structure for a company that consists of multiple terms. All the team will work in the same AWS Region. The company needs a VPC that is connected to the on-premises network. The company expects less than 50 Mbps of total to and from the on-premises network.

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

- A. Create an AWS CloudFormation template that provisions a VPC and the required subnet
- B. Deploy the template to each AWS account
- C. Create an AWS CloudFormation template that provisions a VPC and the required subnet
- D. Deploy the template to a shared services account
- E. Share the subnets by using AWS Resource Access Manager
- F. Use AWS Transit Gateway along with an AWS Site-to-Site VPN for connectivity to the on-premises network
- G. Share the transit gateway by using AWS Resource Access Manager
- H. Use AWS Site-to-Site VPN for connectivity to the on-premises network
- I. Use AWS Direct Connect for connectivity to the on-premises network.

Answer: BD

NEW QUESTION 68

- (Exam Topic 1)

A company plans to migrate to AWS. A solutions architect uses AWS Application Discovery Service over the fleet and discovers that there is an Oracle data warehouse and several PostgreSQL databases. Which combination of migration patterns will reduce licensing costs and operational overhead? (Select TWO.)

- A. Lift and shift the Oracle data warehouse to Amazon EC2 using AWS DMS.
- B. Migrate the Oracle data warehouse to Amazon Redshift using AWS SCT and AWS QMS.
- C. Lift and shift the PostgreSQL databases to Amazon EC2 using AWS DMS.
- D. Migrate the PostgreSQL databases to Amazon RDS for PostgreSQL using AWS DMS
- E. Migrate the Oracle data warehouse to an Amazon EMR managed cluster using AWS DMS.

Answer: BD

Explanation:

<https://aws.amazon.com/getting-started/hands-on/migrate-oracle-to-amazon-redshift/> <https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/migrate-an-on-premises-postgresql-database>

NEW QUESTION 73

- (Exam Topic 1)

A company is using AWS Organizations to manage multiple accounts. Due to regulatory requirements, the company wants to restrict specific member accounts to certain AWS Regions, where they are permitted to deploy resources. The resources in the accounts must be tagged, enforced based on a group standard, and centrally managed with minimal configuration.

What should a solutions architect do to meet these requirements?

- A. Create an AWS Config rule in the specific member accounts to limit Regions and apply a tag policy.
- B. From the AWS Billing and Cost Management console, in the master account, disable Regions for the specific member accounts and apply a tag policy on the root.
- C. Associate the specific member accounts with the root.
- D. Apply a tag policy and an SCP using conditions to limit Regions.
- E. Associate the specific member accounts with a new IAM role.
- F. Apply a tag policy and an SCP using conditions to limit Regions.

Answer: D

NEW QUESTION 78

- (Exam Topic 1)

A finance company is running its business-critical application on current-generation Linux EC2 instances. The application includes a self-managed MySQL database performing heavy I/O operations. The application is working fine to handle a moderate amount of traffic during the month. However, it slows down during the final three days of each month due to month-end reporting, even though the company is using Elastic Load Balancers and Auto Scaling within its infrastructure to meet the increased demand.

Which of the following actions would allow the database to handle the month-end load with the LEAST impact on performance?

- A. Pre-warming Elastic Load Balancers, using a bigger instance type, changing all Amazon EBS volumes to GP2 volumes.
- B. Performing a one-time migration of the database cluster to Amazon RDS.
- C. Creating several additional read replicas to handle the load during end of month.
- D. Using Amazon CloudWatch with AWS Lambda to change the type, size, or IOPS of Amazon EBS volumes in the cluster based on a specific CloudWatch metric.
- E. Replacing all existing Amazon EBS volumes with new Provisioned IOPS volumes that have the maximum available storage size and I/O per second by taking snapshots before the end of the month and reverting back afterwards.

Answer: B

Explanation:

In this scenario, the Amazon EC2 instances are in an Auto Scaling group already which means that the database read operations is the possible bottleneck especially during the month-end wherein the reports are generated. This can be solved by creating RDS read replicas.

NEW QUESTION 83

- (Exam Topic 1)

An online retail company hosts its stateful web-based application and MySQL database in an on-premises data center on a single server. The company wants to increase its customer base by conducting more marketing campaigns and promotions. In preparation, the company wants to migrate its application and database to AWS to increase the reliability of its architecture.

Which solution should provide the HIGHEST level of reliability?

- A. Migrate the database to an Amazon RDS MySQL Multi-AZ DB instance.
- B. Deploy the application in an Auto Scaling group on Amazon EC2 instances behind an Application Load Balance.
- C. Store sessions in Amazon Neptune.
- D. Migrate the database to Amazon Aurora MySQL.
- E. Deploy the application in an Auto Scaling group on Amazon EC2 instances behind an Application Load Balance.
- F. Store sessions in an Amazon ElastiCache for Redis replication group.
- G. Migrate the database to Amazon DocumentDB (with MongoDB compatibility). Deploy the application in an Auto Scaling group on Amazon EC2 instances behind a Network Load Balance.
- H. Store sessions in Amazon Kinesis Data Firehose.
- I. Migrate the database to an Amazon RDS MariaDB Multi-AZ DB instance.
- J. Deploy the application in an Auto Scaling group on Amazon EC2 instances behind an Application Load Balance.
- K. Store sessions in Amazon ElastiCache for Memcached.

Answer: B

NEW QUESTION 86

- (Exam Topic 1)

A company wants to migrate its corporate data center from on premises to the AWS Cloud. The data center includes physical servers and VMs that use VMware and Hyper-V. An administrator needs to select the correct services to collect data (or the initial migration discovery process). The data format should be supported by AWS Migration Hub. The company also needs the ability to generate reports from the data.

Which solution meets these requirements?

- A. Use the AWS Agentless Discovery Connector for data collection on physical servers and all VMs.
- B. Store the collected data in Amazon S3. Query the data with Amazon Athena.
- C. Generate reports by using Kibana hosted on Amazon EC2.
- D. Use the AWS Application Discovery Service agent for data collection on physical servers and all VMs. Store the collected data in Amazon Elastic File System (Amazon EFS). Query the data and generate reports with Amazon Athena.
- E. Use the AWS Application Discovery Service agent for data collection on physical servers and Hyper-V.
- F. Use the AWS Agentless Discovery Connector for data collection on VMware.
- G. Store the collected data in Amazon S3. Query the data with Amazon Athena.
- H. Generate reports by using Amazon QuickSight.
- I. Use the AWS Systems Manager agent for data collection on physical server.
- J. Use the AWS Agentless Discovery Connector for data collection on all VMs.
- K. Store, query, and generate reports from the collected data by using Amazon Redshift.

Answer: C

Explanation:

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

discovery/latest/userguide/discovery-connector.html

NEW QUESTION 91

- (Exam Topic 1)

A company is storing data on premises on a Windows file server. The company produces 5 GB of new data daily.

The company migrated part of its Windows-based workload to AWS and needs the data to be available on a file system in the cloud. The company already has established an AWS Direct Connect connection between the on-premises network and AWS.

Which data migration strategy should the company use?

- A. Use the file gateway option in AWS Storage Gateway to replace the existing Windows file server, and point the existing file share to the new file gateway.
- B. Use AWS DataSync to schedule a daily task to replicate data between the on-premises Windows file server and Amazon FSx.
- C. Use AWS Data Pipeline to schedule a daily task to replicate data between the on-premises Windows file server and Amazon Elastic File System (Amazon EFS).
- D. Use AWS DataSync to schedule a daily task to replicate data between the on-premises Windows file server and Amazon Elastic File System (Amazon EFS).

Answer: B

Explanation:

<https://aws.amazon.com/storagegateway/file/> <https://docs.aws.amazon.com/fsx/latest/WindowsGuide/migrate-files-to-fsx-datasync.html>

<https://docs.aws.amazon.com/systems-manager/latest/userguide/prereqs-operating-systems.html#prereqs-os-win>

NEW QUESTION 95

- (Exam Topic 1)

An education company is running a web application used by college students around the world. The application runs in an Amazon Elastic Container Service (Amazon ECS) cluster in an Auto Scaling group behind an Application Load Balancer (ALB). A system administrator detects a weekly spike in the number of failed login attempts, which overwhelm the application's authentication service. All the failed login attempts originate from about 500 different IP addresses that change each week. A solutions architect must prevent the failed login attempts from overwhelming the authentication service.

Which solution meets these requirements with the MOST operational efficiency?

- A. Use AWS Firewall Manager to create a security group and security group policy to deny access from the IP addresses.
- B. Create an AWS WAF web ACL with a rate-based rule, and set the rule action to Block.
- C. Connect the web ACL to the ALB.
- D. Use AWS Firewall Manager to create a security group and security group policy to allow access only to specific CIDR ranges.
- E. Create an AWS WAF web ACL with an IP set match rule, and set the rule action to Block.
- F. Connect the web ACL to the ALB.

Answer: B

Explanation:

<https://docs.aws.amazon.com/waf/latest/developerguide/waf-rule-statement-type-rate-based.html>

The IP set match statement inspects the IP address of a web request against a set of IP addresses and address ranges. Use this to allow or block web requests based on the IP addresses that the requests originate from. By default, AWS WAF uses the IP address from the web request origin, but you can configure the rule to use an HTTP header like X-Forwarded-For instead.

<https://docs.aws.amazon.com/waf/latest/developerguide/waf-rule-statement-type-ipset-match.html>

<https://docs.aws.amazon.com/waf/latest/developerguide/waf-rule-statement-type-rate-based.html>

NEW QUESTION 96

- (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 98

- (Exam Topic 1)

A company is migrating an application to AWS. It wants to use fully managed services as much as possible during the migration. The company needs to store large, important documents within the application with the following requirements:

- * 1. The data must be highly durable and available.
- * 2. The data must always be encrypted at rest and in transit.
- * 3. The encryption key must be managed by the company and rotated periodically.

Which of the following solutions should the solutions architect recommend?

- A. Deploy the storage gateway to AWS in file gateway mod
- B. Use Amazon EBS volume encryption using an AWS KMS key to encrypt the storage gateway volumes.
- C. Use Amazon S3 with a bucket policy to enforce HTTPS for connections to the bucket and to enforce server-side encryption and AWS KMS for object encryption.
- D. Use Amazon DynamoDB with SSL to connect to DynamoD
- E. Use an AWS KMS key to encrypt DynamoDB objects at rest.
- F. Deploy instances with Amazon EBS volumes attached to store this dat
- G. Use E8S volume encryption using an AWS KMS key to encrypt the data.

Answer: B

Explanation:

Use Amazon S3 with a bucket policy to enforce HTTPS for connections to the bucket and to enforce server-side encryption and AWS KMS for object encryption.

NEW QUESTION 102

- (Exam Topic 1)

A solutions architect is building a web application that uses an Amazon RDS for PostgreSQL DB instance The DB instance is expected to receive many more reads than writes The solutions architect needs to ensure that the large amount of read traffic can be accommodated and that the DB instance is highly available. Which steps should the solutions architect take to meet these requirements? (Select THREE.)

- A. Create multiple read replicas and put them into an Auto Scaling group
- B. Create multiple read replicas in different Availability Zones.
- C. Create an Amazon Route 53 hosted zone and a record set for each read replica with a TTL and a weighted routing policy
- D. Create an Application Load Balancer (ALBJ and put the read replicas behind the ALB.
- E. Configure an Amazon CloudWatch alarm to detect a failed read replica Set the alarm to directly invoke an AWS Lambda function to delete its Route 53 record set.
- F. Configure an Amazon Route 53 health check for each read replica using its endpoint

Answer: BCF

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/requests-rds-read-replicas/>

You can use Amazon Route 53 weighted record sets to distribute requests across your read replicas. Within a Route 53 hosted zone, create individual record sets for each DNS endpoint associated with your read replicas and give them the same weight. Then, direct requests to the endpoint of the record set. You can incorporate Route 53 health checks to be sure that Route 53 directs traffic away from unavailable read replicas

NEW QUESTION 107

- (Exam Topic 1)

A solutions architect must analyze a company's Amazon EC2 Instances and Amazon Elastic Block Store (Amazon EBS) volumes to determine whether the company is using resources efficiently The company is running several large, high-memory EC2 instances lo host database dusters that are deployed in active/passive configurations The utilization of these EC2 instances varies by the applications that use the databases, and the company has not identified a pattern The solutions architect must analyze the environment and take action based on the findings. Which solution meets these requirements MOST cost-effectively?

- A. Create a dashboard by using AWS Systems Manager OpsCenter Configure visualizations tor Amazon CloudWatch metrics that are associated with the EC2 instances and their EBS volumes Review the dashboard periodically and identify usage patterns Right size the EC2 instances based on the peaks in the metrics
- B. Turn on Amazon CloudWatch detailed monitoring for the EC2 instances and their EBS volumes Create and review a dashboard that is based on the metrics Identify usage patterns Right size the FC? instances based on the peaks In the metrics
- C. Install the Amazon CloudWatch agent on each of the EC2 Instances Turn on AWS Compute Optimizer, and let it run for at least 12 hours Review the recommendations from Compute Optimizer, and right size the EC2 instances as directed
- D. Sign up for the AWS Enterprise Support plan Turn on AWS Trusted Advisor Wait 12 hours Review the recommendations from Trusted Advisor, and rightsize the EC2 instances as directed

Answer: C

Explanation:

(<https://aws.amazon.com/compute-optimizer/pricing/> , <https://aws.amazon.com/systems-manager/pricing/>). <https://aws.amazon.com/compute-optimizer/>

NEW QUESTION 111

- (Exam Topic 2)

A company is running an application in the AWS Cloud. The application uses AWS Lambda functions and Amazon Elastic Container Service (Amazon ECS) containers that run with AWS Fargate technology as its primary compute. The load on the application is irregular. The application experiences long periods of no usage, followed by sudden and significant increases and decreases in traffic. The application is write-heavy and stores data in an Amazon Aurora MySQL database. The database runs on an Amazon RDS memory optimized D8 instance that is not able to handle the load. What is the MOST cost-effective way for the company to handle the sudden and significant changes in traffic?

- A. Add additional read replicas to the databas
- B. Purchase Instance Savings Plans and RDS Reserved Instances.
- C. Migrate the database to an Aurora multi-master DB cluste
- D. Purchase Instance Savings Plans.
- E. Migrate the database to an Aurora global database Purchase Compute Savings Plans and RDS Reserved Instances
- F. Migrate the database to Aurora Serverless v1. Purchase Compute Savings Plans

Answer: D

NEW QUESTION 113

- (Exam Topic 2)

A company is building a software-as-a-service (SaaS) solution on AWS. The company has deployed an Amazon API Gateway REST API with AWS Lambda integration in multiple AWS Regions and in the same production account.

The company offers tiered pricing that gives customers the ability to pay for the capacity to make a certain number of API calls per second. The premium tier offers up to 3,000 calls per second, and customers are identified by a unique API key. Several premium tier customers in various Regions report that they receive error responses of 429 Too Many Requests from multiple API methods during peak usage hours. Logs indicate that the Lambda function is never invoked.

What could be the cause of the error messages for these customers?

- A. The Lambda function reached its concurrency limit.
- B. The Lambda function its Region limit for concurrency.
- C. The company reached its API Gateway account limit for calls per second.
- D. The company reached its API Gateway default per-method limit for calls per second.

Answer: C

Explanation:

<https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-request-throttling.html#apig-reques>

NEW QUESTION 116

- (Exam Topic 2)

A company wants to improve cost awareness for its Amazon EMR platform. The company has allocated budgets for each team's Amazon EMR usage. When a budgetary threshold is reached, a notification should be sent by email to the budget office's distribution list. Teams should be able to view their EMR cluster expenses to date. A solutions architect needs to create a solution that ensures this policy is proactively and centrally enforced in a multi-account environment. Which combination of steps should the solutions architect take to meet these requirements? (Select TWO.)

- A. Update the AWS CloudFormation template to include the AWS Budgets Budget resource with the NotificationsWithSubscribers property.
- B. Implement Amazon CloudWatch dashboards for Amazon EMR usage.
- C. Create an EMR bootstrap action that runs at startup that calls the Cost Explorer API to set the budget on the cluster with the GetCostForecast and NotificationsWithSubscribers actions.
- D. Create an AWS Service Catalog portfolio for each team.
- E. Add each team's Amazon EMR cluster as an AWS CloudFormation template to their Service Catalog portfolio as a Product.
- F. Create an Amazon CloudWatch metric for billing. Create a custom alert when costs exceed the budgetary threshold.

Answer: BE

NEW QUESTION 117

- (Exam Topic 2)

A solutions architect needs to implement a client-side encryption mechanism for objects that will be stored in a new Amazon S3 bucket. The solutions architect created a CMK that is stored in AWS Key Management Service (AWS KMS) for this purpose.

The solutions architect created the following IAM policy and attached it to an IAM role:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "DownloadUpload",
      "Action": [
        "s3:GetObject",
        "s3:GetObjectVersion",
        "s3:PutObject",
        "s3:PutObjectAcl"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::BucketName/*"
    },
    {
      "Sid": "KMSAccess",
      "Action": [
        "kms:Decrypt",
        "kms:Encrypt"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:kms:Region:Account:key/Key ID"
    }
  ]
}
```

During tests, the solutions architect was able to successfully get existing test objects in the S3 bucket. However, attempts to upload a new object resulted in an error message. The error message stated that the action was forbidden.

Which action must the solutions architect add to the IAM policy to meet all the requirements?

- A. kms:GenerateDataKey
- B. kms:GetKeyPolicy
- C. kms:GetPublicKey
- D. kms:SKJn

Answer: A

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/s3-access-denied-error-kms/>

"An error occurred (AccessDenied) when calling the PutObject operation: Access Denied" This error message indicates that your IAM user or role needs permission for the kms:GenerateDataKey action.

NEW QUESTION 118

- (Exam Topic 2)

A company is refactoring its on-premises order-processing platform in the AWS Cloud. The platform includes a web front end that is hosted on a fleet of VMs RabbitMQ to connect the front end to the backend, and a Kubernetes cluster to run a containerized backend system to process the orders. The company does not want to make any major changes to the application

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

- A. Create an AMI of the web server VM Create an Amazon EC2 Auto Scaling group that uses the AMI and an Application Load Balancer Set up Amazon MQ to replace the on-premises messaging queue Configure Amazon Elastic Kubernetes Service (Amazon EKS) to host the order-processing backend
- B. Create a custom AWS Lambda runtime to mimic the web server environment Create an Amazon API Gateway API to replace the front-end web servers Set up Amazon MQ to replace the on-premises messaging queue Configure Amazon Elastic Kubernetes Service (Amazon EKS) to host the order-processing backend
- C. Create an AMI of the web server VM Create an Amazon EC2 Auto Scaling group that uses the AMI and an Application Load Balancer Set up Amazon MQ to replace the on-premises messaging queue Install Kubernetes on a fleet of different EC2 instances to host the order-processing backend
- D. Create an AMI of the web server VM Create an Amazon EC2 Auto Scaling group that uses the AMI and an Application Load Balancer Set up an Amazon Simple Queue Service (Amazon SQS) queue to replace the on-premises messaging queue Configure Amazon Elastic Kubernetes Service (Amazon EKS) to host the order-processing backend

Answer: A

Explanation:

<https://aws.amazon.com/about-aws/whats-new/2020/11/announcing-amazon-mq-rabbitmq/>

NEW QUESTION 121

- (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/{userId}. 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 making the comments appear 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/commentsV{commentId} 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

NEW QUESTION 124

- (Exam Topic 2)

A finance company is storing financial records in an Amazon S3 bucket. The company persists a record for every financial transaction. According to regulatory requirements, the records cannot be modified for at least 1 year after they are written. The records are read on a regular basis and must be immediately accessible.

Which solution will meet these requirements?

- A. Create a new S3 bucket
- B. Turn on S3 Object Lock, set a default retention period of 1 year, and set the retention mode to compliance mode
- C. Store all records in the new S3 bucket.
- D. Create an S3 Lifecycle rule to immediately transfer new objects to the S3 Glacier storage tier Create an S3 Glacier Vault Lock policy that has a retention period of 1 year.
- E. Create an S3 Lifecycle rule to immediately transfer new objects to the S3 Intelligent-Tiering storage tier. Set a retention period of 1 year.
- F. Create an S3 bucket policy with a Deny action for PutObject operations with a condition where the s3:x-amz-object-retention header is not equal to 1 year.

Answer: A

NEW QUESTION 125

- (Exam Topic 2)

A company used Amazon EC2 instances to deploy a web fleet to host a blog site The EC2 instances are behind an Application Load Balancer (ALB) and are configured in an Auto Scaling group The web application stores all blog content on an Amazon EFS volume.

The company recently added a feature for bloggers to add video to their posts, attracting 10 times the previous user traffic At peak times of day, users report buffering and timeout issues while attempting to reach the site or watch videos

Which is the MOST cost-efficient and scalable deployment that will resolve the issues for users?

- A. Reconfigure Amazon EFS to enable maximum I/O.
- B. Update the blog site to use instance store volumes for storage
- C. Copy the site contents to the volumes at launch and to Amazon S3 at shutdown.
- D. Configure an Amazon CloudFront distribution
- E. Point the distribution to an S3 bucket, and migrate the videos from EFS to Amazon S3.
- F. Set up an Amazon CloudFront distribution for all site contents, and point the distribution at the ALB.

Answer: C

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/cloudfront-https-connection-fails/> Using an Amazon S3 bucket
Using a MediaStore container or a MediaPackage channel Using an Application Load Balancer
Using a Lambda function URL
Using Amazon EC2 (or another custom origin)
Using CloudFront origin groups <https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/restrict-access-to-load-balancer.html>

NEW QUESTION 128

- (Exam Topic 2)

A large education company recently introduced Amazon Workspaces to provide access to internal applications across multiple universities. The company is storing user proxies on an Amazon FSx for Windows File Server file system. The Me system is configured with a DNS alias and is connected to a self-managed Active Directory As more users begin to use the Workspaces login time increases to unacceptable levels
An investigation reveals a degradation in performance of the file system. The company created the file system on HDD storage with a throughput of 16 MBps A solutions architect must improve the performance of the file system during a defined maintenance window
What should the solutions architect do to meet these requirements with the LEAST administrative effort?

- A. Use AWS Backup to create a point-in-time backup of the file system Restore the backup to a new FSx for Windows File Server file system Select SSD as the storage type Select 32 MBps as the throughput capacity When the backup and restore process is completed adjust the DNS alias accordingly Delete the original file system
- B. Disconnect users from the file system In the Amazon FSx console, update the throughput capacity to 32 MBps Update the storage type to SSD Reconnect users to the file system
- C. Deploy an AWS DataSync agent onto a new Amazon EC2 instanc
- D. Create a task Configure the existing file system as the source location Configure a new FSx for Windows File Server file system with SSD storage and 32 MBps of throughput as the target location Schedule the task When the task is completed adjust the DNS alias accordingly Delete the original file system.
- E. Enable shadow copies on the existing file system by using a Windows PowerShell command Schedule the shadow copy job to create a point-in-time backup of the file system Choose to restore previous versions Create a new FSx for Windows File Server file system with SSD storage and 32 MBps of throughput When the copy job is completed, adjust the DNS alias Delete the original file system

Answer: D

NEW QUESTION 130

- (Exam Topic 2)

A company is planning to migrate an Amazon RDS for Oracle database to an RDS for PostgreSQL DB instance in another AWS account A solutions architect needs to design a migration strategy that will require no downtime and that will minimize the amount of time necessary to complete the migration The migration strategy must replicate all existing data and any new data that is created during the migration The target database must be identical to the source database at completion of the migration process

All applications currently use an Amazon Route 53 CNAME record as their endpoint for communication with the RDS for Oracle DB instance The RDS for Oracle DB instance is in a private subnet

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

- A. Create a new RDS for PostgreSQL DB instance in the target account Use the AWS Schema Conversion Tool (AWS SCT) to migrate the database schema from the source database to the target database.
- B. Use the AWS Schema Conversion Tool (AWS SCT) to create a new RDS for PostgreSQL DB instance in the target account with the schema and initial data from the source database
- C. Configure VPC peering between the VPCs in the two AWS accounts to provide connectivity to both DB instances from the target account
- D. Configure the security groups that are attached to each DB instance to allow traffic on the database port from the VPC in the target account
- E. Temporarily allow the source DB instance to be publicly accessible to provide connectivity from the VPC in the target account Configure the security groups that are attached to each DB instance to allow traffic on the database port from the VPC in the target account.
- F. Use AWS Database Migration Service (AWS DMS) in the target account to perform a full load plus change data capture (CDC) migration from the source database to the target database When the migration is complete, change the CNAME record to point to the target DB instance endpoint
- G. Use AWS Database Migration Service (AWS DMS) in the target account to perform a change data capture (CDC) migration from the source database to the target database When the migration is complete change the CNAME record to point to the target DB instance endpoint

Answer: BCE

NEW QUESTION 133

- (Exam Topic 2)

A company is running an application in the AWS Cloud. Recent application metrics show inconsistent response times and a significant increase in error rates. Calls to third-party services are causing the delays. Currently, the application calls third-party services synchronously by directly invoking an AWS Lambda function.

A solutions architect needs to decouple the third-party service calls and ensure that all the calls are eventually completed.

Which solution will meet these requirements?

- A. Use an Amazon Simple Queue Service (Amazon SQS) queue to store events and invoke the Lambda function.
- B. Use an AWS Step Functions state machine to pass events to the Lambda function.
- C. Use an Amazon EventBridge rule to pass events to the Lambda function.
- D. Use an Amazon Simple Notification Service (Amazon SNS) topic to store events and Invoke the Lambda function.

Answer: A

NEW QUESTION 134

- (Exam Topic 2)

A company has a serverless multi-tenant content management system on AWS. The architecture contains a web-based front end that interacts with an Amazon API Gateway API that uses a custom AWS Lambda authorizes The authorizer authenticates a user to its tenant ID and encodes the information in a JSON Web Token (JWT) token. After authentication, each API call through API Gateway targets a Lambda function that interacts with a single Amazon DynamoDB table to fulfill requests.

To comply with security standards, the company needs a stronger isolation between tenants. The company will have hundreds of customers within the first year. Which solution will meet these requirements with the LEAST operational?

- A. Create a DynamoDB table for each tenant by using the tenant ID in the table nam

- B. Create a service that uses the JWT token to retrieve the appropriate Lambda execution role that is tenant-specific
- C. Attach IAM policies to the execution role to allow access only to the DynamoDB table for the tenant.
- D. Add tenant ID information to the partition key of the DynamoDB table
- E. Create a service that uses the JWT token to retrieve the appropriate Lambda execution role that is tenant-specific
- F. Attach IAM policies to the execution role to allow access to items in the table only when the key matches the tenant ID.
- G. Create a separate AWS account for each tenant of the application
- H. Use dedicated infrastructure for each tenant
- I. Ensure that no cross-account network connectivity exists.
- J. Add tenant ID as a sort key in every DynamoDB table
- K. Add logic to each Lambda function to use the tenant ID that comes from the JWT token as the sort key in every operation on the DynamoDB table.

Answer: B

NEW QUESTION 137

- (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 "aws:cloudformation:stack-name" tag.
- D. Use AWS Config rules to prevent deleting RDS and EBS resources.

Answer: A

NEW QUESTION 139

- (Exam Topic 2)

A company manages hundreds of AWS accounts centrally in an organization in AWS Organizations. The company recently started to allow product teams to create and manage their own S3 access points in their accounts. The S3 access points can be accessed only within VPCs, not on the internet. What is the MOST operationally efficient way to enforce this requirement?

- A. Set the S3 access point resource policy to deny the s3:CreateAccessPoint action unless the s3:AccessPointNetworkOrigin condition key evaluates to VPC.
- B. Create an SCP at the root level in the organization to deny the s3:CreateAccessPoint action unless the s3:AccessPointNetworkOrigin condition key evaluates to VPC.
- C. Use AWS CloudFormation StackSets to create a new IAM policy in each AWS account that allows the s3:CreateAccessPoint action only if the s3:AccessPointNetworkOrigin condition key evaluates to VPC.
- D. Set the S3 bucket policy to deny the s3:CreateAccessPoint action unless the s3:AccessPointNetworkOrigin condition key evaluates to VPC.

Answer: A

NEW QUESTION 144

- (Exam Topic 2)

An external audit of a company's serverless application reveals IAM policies that grant too many permissions. These policies are attached to the company's AWS Lambda execution roles. Hundreds of the company's Lambda functions have broad access permissions, such as full access to Amazon S3 buckets and Amazon DynamoDB tables. The company wants each function to have only the minimum permissions that the function needs to complete its task.

A solutions architect must determine which permissions each Lambda function needs.

What should the solutions architect do to meet this requirement with the LEAST amount of effort?

- A. Set up Amazon CodeGuru to profile the Lambda functions and search for AWS API calls
- B. Create an inventory of the required API calls and resources for each Lambda function
- C. Create new IAM access policies for each Lambda function
- D. Review the new policies to ensure that they meet the company's business requirements.
- E. Turn on AWS CloudTrail logging for the AWS account
- F. Use AWS Identity and Access Management Access Analyzer to generate IAM access policies based on the activity recorded in the CloudTrail log. Review the generated policies to ensure that they meet the company's business requirements.
- G. Turn on AWS CloudTrail logging for the AWS account
- H. Create a script to parse the CloudTrail log, search for AWS API calls by Lambda execution role, and create a summary report
- I. Review the report
- J. Create IAM access policies that provide more restrictive permissions for each Lambda function.
- K. Turn on AWS CloudTrail logging for the AWS account
- L. Export the CloudTrail logs to Amazon S3. Use Amazon EMR to process the CloudTrail logs in Amazon S3 and produce a report of API calls and resources used by each execution role
- M. Create a new IAM access policy for each role
- N. Export the generated roles to an S3 bucket
- O. Review the generated policies to ensure that they meet the company's business requirements.

Answer: B

Explanation:

IAM Access Analyzer helps you identify the resources in your organization and accounts, such as Amazon S3 buckets or IAM roles, shared with an external entity. This lets you identify unintended access to your resources and data, which is a security risk. IAM Access Analyzer identifies resources shared with external principals by using logic-based reasoning to analyze the resource-based policies in your AWS environment.

<https://docs.aws.amazon.com/IAM/latest/UserGuide/what-is-access-analyzer.html>

NEW QUESTION 145

- (Exam Topic 2)

A company has VPC flow logs enabled for its NAT gateway. The company is seeing Action = ACCEPT for inbound traffic that comes from public IP address 198.51.100.2 destined for a private Amazon EC2 instance.

A solutions architect must determine whether the traffic represents unsolicited inbound connections from the internet. The first two octets of the VPC CIDR block are 203.0.

Which set of steps should the solutions architect take to meet these requirements?

- A. Open the AWS CloudTrail console
- B. Select the log group that contains the NAT gateway's elastic network interface and the private instance's elastic network interface
- C. Run a query to filter with the destination address set as "like 203.0" and the source address set as "like 198.51.100.2". Run the stats command to filter the sum of bytes transferred by the source address and the destination address.
- D. Open the Amazon CloudWatch console
- E. Select the log group that contains the NAT gateway's elastic network interface and the private instance's elastic network interface
- F. Run a query to filter with the destination address set as "like 203.0" and the source address set as "like 198.51.100.2". Run the stats command to filter the sum of bytes transferred by the source address and the destination address.
- G. Open the AWS CloudTrail console
- H. Select the log group that contains the NAT gateway's elastic network interface and the private instance's elastic network interface
- I. Run a query to filter with the destination address set as "like 198.51.100.2" and the source address set as "like 203.0". Run the stats command to filter the sum of bytes transferred by the source address and the destination address.
- J. Open the Amazon CloudWatch console
- K. Select the log group that contains the NAT gateway's elastic network interface and the private instance's elastic network interface
- L. Run a query to filter with the destination address set as "like 198.51.100.2" and the source address set as "like 203.0". Run the stats command to filter the sum of bytes transferred by the source address and the destination address.

Answer: D

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/vpc-analyze-inbound-traffic-nat-gateway/> by Cloudxie says "select appropriate log"

NEW QUESTION 147

- (Exam Topic 2)

A company is running applications on AWS in a multi-account environment. The company's sales team and marketing team use separate AWS accounts in AWS Organizations.

The sales team stores petabytes of data in an Amazon S3 bucket. The marketing team uses Amazon QuickSight for data visualizations. The marketing team needs access to data that the sales team stores in the S3 bucket. The company has encrypted the S3 bucket with an AWS Key Management Service (AWS KMS) key. The marketing team has already created the IAM service role for QuickSight to provide QuickSight access in the marketing AWS account. The company needs a solution that will provide secure access to the data in the S3 bucket across AWS accounts.

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

- A. Create a new S3 bucket in the marketing account
- B. Create an S3 replication rule in the sales account to copy the objects to the new S3 bucket in the marketing account
- C. Update the QuickSight permissions in the marketing account to grant access to the new S3 bucket.
- D. Create an SCP to grant access to the S3 bucket to the marketing account
- E. Use AWS Resource Access Manager (AWS RAM) to share the KMS key from the sales account with the marketing account
- F. Update the QuickSight permissions in the marketing account to grant access to the S3 bucket.
- G. Update the S3 bucket policy in the marketing account to grant access to the QuickSight role
- H. Create a KMS grant for the encryption key that is used in the S3 bucket
- I. Grant decrypt access to the QuickSight role
- J. Update the QuickSight permissions in the marketing account to grant access to the S3 bucket.
- K. Create an IAM role in the sales account and grant access to the S3 bucket
- L. From the marketing account, assume the IAM role in the sales account to access the S3 bucket
- M. Update the QuickSight role, to create a trust relationship with the new IAM role in the sales account.

Answer: D

NEW QUESTION 150

- (Exam Topic 2)

A company runs many workloads on AWS and uses AWS Organizations to manage its accounts. The workloads are hosted on Amazon EC2, AWS Fargate, and AWS Lambda. Some of the workloads have unpredictable demand. Accounts record high usage in some months and low usage in other months.

The company wants to optimize its compute costs over the next 3 years. A solutions architect obtains a 6-month average for each of the accounts across the organization to calculate usage.

Which solution will provide the MOST cost savings for all the organization's compute usage?

- A. Purchase Reserved Instances for the organization to match the size and number of the most common EC2 instances from the member accounts.
- B. Purchase a Compute Savings Plan for the organization from the management account by using the recommendation at the management account level.
- C. Purchase Reserved Instances for each member account that had high EC2 usage according to the data from the last 6 months.
- D. Purchase an EC2 Instance Savings Plan for each member account from the management account based on EC2 usage data from the last 6 months.

Answer: A

NEW QUESTION 155

- (Exam Topic 2)

A solutions architect is migrating an existing workload to AWS Fargate. The task can only run in a private subnet within the VPC where there is no direct connectivity from outside the system to the application. When the Fargate task is launched the task fails with the following error:

```
CannotPullContainerError: API error (500): Get https://111122223333.dkr.ecr.us-east-1.amazonaws.com/v2/: net/http: request canceled while waiting for connection
```

How should the solutions architect correct this error?

- A. Ensure the task is set to ENABLED for the auto-assign public IP setting when launching the task
- B. Ensure the task is set to DISABLED (or the auto-assign public IP setting when launching the task) Configure a NAT gateway in the public subnet in the VPC to route requests to the internet

- C. Ensure the task is set to DISABLED for the auto-assign public IP setting when launching the task Configure a NAT gateway in the private subnet in the VPC to route requests to the internet
- D. Ensure the network mode is set to bridge in the Fargate task definition

Answer: B

NEW QUESTION 159

- (Exam Topic 2)

A company is using a lift-and-shift strategy to migrate applications from several on-premises Windows servers to AWS. The Windows servers will be hosted on Amazon EC2 instances in the us-east-1 Region.

The company's security policy allows the installation of migration tools on servers. The migration data must be encrypted in transit and encrypted at rest. The applications are business critical. The company needs to minimize the cutover window and minimize the downtime that results from the migration. The company wants to use Amazon CloudWatch and AWS CloudTrail for monitoring.

Which solution will meet these requirements?

- A. Use AWS Application Migration Service (CloudEndure Migration) to migrate the Windows servers to AW
- B. Create a Replication Settings templat
- C. Install the AWS Replication Agent on the source servers
- D. Use AWS DataSync to migrate the Windows servers to AW
- E. Install the DataSync agent on the source server
- F. Configure a blueprint for the target server
- G. Begin the replication process.
- H. Use AWS Server Migration Service (AWS SMS) to migrate the Windows servers to AW
- I. Install the SMS Connector on the source server
- J. Replicate the source servers to AW
- K. Convert the replicated volumes to AMIs to launch EC2 instances.
- L. Use AWS Migration Hub to migrate the Windows servers to AW
- M. Create a project in Migration Hub. Track the progress of server migration by using the built-in dashboard.

Answer: A

NEW QUESTION 161

- (Exam Topic 2)

A company has automated the nightly retraining of its machine learning models by using AWS Step Functions. The workflow consists of multiple steps that use AWS Lambda. Each step can fail for various reasons, and any failure causes a failure of the overall workflow.

A review reveals that the retraining has failed multiple nights in a row without the company noticing the failure. A solutions architect needs to improve the workflow so that notifications are sent for all types of failures in the retraining process.

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

- A. Create an Amazon Simple Notification Service (Amazon SNS) topic with a subscription of type "Email" that targets the team's mailing list.
- B. Create a task named "Email" that forwards the input arguments to the SNS topic
- C. Add a Catch field to all Tas
- D. Ma
- E. and Parallel states that have a statement of "ErrorEquals": ["states.all"] and "Next": "Email".
- F. Add a new email address to Amazon Simple Email Service (Amazon SES). Verify the email address.
- G. Create a task named "Email" that forwards the input arguments to the SES email address
- H. Add a Catch field to all Task, Map, and Parallel states that have a statement of "ErrorEquals": ["states.Bun time"] and "Next": "Email".

Answer: BCD

NEW QUESTION 164

- (Exam Topic 2)

A video streaming company recently launched a mobile app for video sharing. The app uploads various files to an Amazon S3 bucket in the us-east-1 Region. The files range in size from 1 GB to 1 0 GB.

Users who access the app from Australia have experienced uploads that take long periods of time Sometimes the files fail to completely upload for these users . A solutions architect must improve the app' performance for these uploads

Which solutions will meet these requirements? (Select TWO.)

- A. Enable S3 Transfer Acceleration on the S3 bucket Configure the app to use the Transfer Acceleration endpoint for uploads
- B. Configure an S3 bucket in each Region to receive the upload
- C. Use S3 Cross-Region Replication to copy the files to the distribution S3 bucket.
- D. Set up Amazon Route 53 with latency-based routing to route the uploads to the nearest S3 bucket Region.
- E. Configure the app to break the video files into chunks Use a multipart upload to transfer files to Amazon S3.
- F. Modify the app to add random prefixes to the files before uploading

Answer: AD

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/s3-upload-large-files/>

NEW QUESTION 165

- (Exam Topic 2)

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

NEW QUESTION 168

- (Exam Topic 2)

A retail company has an on-premises data center in Europe. The company also has a multi-Region AWS presence that includes the eu-west-1 and us-east-1 Regions. The company wants to be able to route network traffic from its on-premises infrastructure into VPCs in either of those Regions. The company also needs to support traffic that is routed directly between VPCs in those Regions. No single points of failure can exist on the network. The company already has created two 1 Gbps AWS Direct Connect connections from its on-premises data center. Each connection goes into a separate Direct Connect location in Europe for high availability. These two locations are named DX-A and DX-B, respectively. Each Region has a single AWS Transit Gateway that is configured to route all inter-VPC traffic within that Region. Which solution will meet these requirements?

- A. Create a private VIF from the DX-A connection into a Direct Connect gateway
- B. Create a private VIF from the DX-B connection into the same Direct Connect gateway for high availability
- C. Associate both the eu-west-1 and us-east-1 transit gateways with the Direct Connect gateway
- D. Peer the transit gateways with each other to support cross-Region routing.
- E. Create a transit VIF from the DX-A connection into a Direct Connect gateway
- F. Associate the eu-west-1 transit gateway with this Direct Connect gateway
- G. Create a transit VIF from the DX-B connection into a separate Direct Connect gateway
- H. Associate the us-east-1 transit gateway with this separate Direct Connect gateway
- I. Peer the Direct Connect gateways with each other to support high availability and cross-Region routing.
- J. Create a transit VIF from the DX-A connection into a Direct Connect gateway
- K. Create a transit VIF from the DX-B connection into the same Direct Connect gateway for high availability
- L. Associate both the eu-west-1 and us-east-1 transit gateways with this Direct Connect gateway
- M. Configure the Direct Connect gateway to route traffic between the transit gateways.
- N. Create a transit VIF from the DX-A connection into a Direct Connect gateway
- O. Create a transit VIF from the DX-B connection into the same Direct Connect gateway for high availability
- P. Associate both the eu-west-1 and us-east-1 transit gateways with this Direct Connect gateway
- Q. Peer the transit gateways with each other to support cross-Region routing.

Answer: D

NEW QUESTION 171

- (Exam Topic 2)

A company is developing a new serverless API by using Amazon API Gateway and AWS Lambda. The company integrated the Lambda functions with API Gateway to use several shared libraries and custom classes. A solutions architect needs to simplify the deployment of the solution and optimize for code reuse. Which solution will meet these requirements?

- A. Deploy the shared libraries and custom classes into a Docker image
- B. Store the image in an S3 bucket. Create a Lambda layer that uses the Docker image as the source
- C. Deploy the API's Lambda functions as Zip package
- D. Configure the packages to use the Lambda layer.
- E. Deploy the shared libraries and custom classes to a Docker image
- F. Upload the image to Amazon Elastic Container Registry (Amazon ECR). Create a Lambda layer that uses the Docker image as the source
- G. Deploy the API's Lambda functions as Zip package
- H. Configure the packages to use the Lambda layer.
- I. Deploy the shared libraries and custom classes to a Docker container in Amazon Elastic Container Service (Amazon ECS) by using the AWS Fargate launch type
- J. Deploy the API's Lambda functions as Zip package
- K. Configure the packages to use the deployed container as a Lambda layer.
- L. Deploy the shared libraries, custom classes, and code for the API's Lambda functions to a Docker image
- M. Upload the image to Amazon Elastic Container Registry (Amazon ECR). Configure the API's Lambda functions to use the Docker image as the deployment package.

Answer: B

NEW QUESTION 175

- (Exam Topic 2)

A company has introduced a new policy that allows employees to work remotely from their homes if they connect by using a VPN. The company is hosting internal applications with VPCs in multiple AWS accounts. Currently, the applications are accessible from the company's on-premises office network through an AWS Site-to-Site VPN connection. The VPC in the company's main AWS account has peering connections established with VPCs in other AWS accounts.

A solutions architect must design a scalable AWS Client VPN solution for employees to use while they work from home.

What is the MOST cost-effective solution that meets these requirements?

- A. Create a Client VPN endpoint in each AWS account. Configure required routing that allows access to internal applications.
- B. Create a Client VPN endpoint in the main AWS account. Configure required routing that allows access to internal applications.
- C. Create a Client VPN endpoint in the main AWS account. Provision a transit gateway that is connected to each AWS account. Configure required routing that allows access to internal applications.
- D. Create a Client VPN endpoint in the main AWS account. Establish connectivity between the Client VPN endpoint and the AWS Site-to-Site VPN.

Answer: B

Explanation:

<https://docs.aws.amazon.com/vpn/latest/clientvpn-admin/scenario-peered.html>

NEW QUESTION 179

- (Exam Topic 2)

A company is planning to migrate its business-critical applications from an on-premises data center to AWS. The company has an on-premises installation of a Microsoft SQL Server Always On cluster. The company wants to migrate to an AWS managed database service. A solutions architect must design a heterogeneous database migration on AWS.

Which solution will meet these requirements?

- A. Migrate the SQL Server databases to Amazon RDS for MySQL by using backup and restore utilities.
- B. Use an AWS Snowball Edge Storage Optimized device to transfer data to Amazon S3. Set up Amazon RDS for MySQL.
- C. Use S3 integration with SQL Server features, such as BULK INSERT.
- D. Use the AWS Schema Conversion Tool to translate the database schema to Amazon RDS for MySQL.
- E. Then use AWS Database Migration Service (AWS DMS) to migrate the data from on-premises databases to Amazon RDS.
- F. Use AWS DataSync to migrate data over the network between on-premises storage and Amazon S3. Set up Amazon RDS for MySQL.
- G. Use S3 integration with SQL Server features, such as BULK INSERT.

Answer: C

Explanation:

<https://aws.amazon.com/dms/schema-conversion-tool/>

NEW QUESTION 182

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

Answer: C

NEW QUESTION 186

- (Exam Topic 2)

A new application is running on Amazon Elastic Container Service (Amazon ECS) with AWS Fargate. The application uses an Amazon Aurora MySQL database. The application and the database run in the same subnets of a VPC with distinct security groups that are configured.

The password (or the database is stored in AWS Secrets Manager and is passed to the application through the DB_PASSWORD environment variable. The hostname of the database is passed to the application through the DB_HOST environment variable. The application is failing to access the database.

Which combination of actions should a solutions architect take to resolve this error? (Select THREE)

- A. Ensure that the container has the environment variable with name "DB_PASSWORD" specified with a "ValueFrom" and the ARN of the secret.
- B. Ensure that the container has the environment variable with name "DB_PASSWORD" specified with a "ValueFrom" and the secret name of the secret.
- C. Ensure that the Fargate service security group allows inbound network traffic from the Aurora MySQL database on the MySQL TCP port 3306.
- D. Ensure that the Aurora MySQL database security group allows inbound network traffic from the Fargate service on the MySQL TCP port 3306.
- E. Ensure that the container has the environment variable with name "DB_HOST" specified with the hostname of a DB instance endpoint.
- F. Ensure that the container has the environment variable with name "DB_HOST" specified with the hostname of the Oracle Database endpoint.

Answer: ADE

NEW QUESTION 191

- (Exam Topic 2)

A company's solutions architect is designing a disaster recovery (DR) solution for an application that runs on AWS. The application uses PostgreSQL 11.7 as its database. The company has an RPO of 30 seconds. The solutions architect must design a DR solution with the primary database in the us-east-1 Region and the database in the us-west-2 Region.

What should the solution architect do to meet these requirements with minimum application change?

- A. Migrate the database to Amazon RDS for PostgreSQL in us-east-1. Set up a read replica up a read replica in us-west-2. Set the managed PRO for the RDS database to 30 seconds.
- B. Migrate the database to Amazon for PostgreSQL in us-east-1. Set up a standby replica in an Availability Zone in us-west-2, Set the managed PRO for the RDS database to 30 seconds.
- C. Migrate the database to an Amazon Aurora PostgreSQL global database with the primary Region as us-east-1 and the secondary Region as us-west-2. Set the managed PRO for the Aurora database to 30 seconds.
- D. Migrate the database to Amazon DynamoDB in us-east-1. Set up global tables with replica tables that are created in us-west-2.

Answer: A

NEW QUESTION 192

- (Exam Topic 2)

A large company runs workloads in VPCs that are deployed across hundreds of AWS accounts Each VPC consists of public subnets and private subnets that span across multiple Availability Zones NAT gateways are deployed in the public subnets and allow outbound connectivity to the internet from the private subnets. A solutions architect is working on a hub-and-spoke design. All private subnets in the spoke VPCs must route traffic to the internet through an egress VPC The solutions architect already has deployed a NAT gateway in an egress VPC in a central AWS account Which set of additional steps should the solutions architect take to meet these requirements?

- A. Create peering connections between the egress VPC and the spoke VPCs Configure the required routing to allow access to the internet
- B. Create a transit gateway and share it with the existing AWS accounts Attach existing VPCs to the transit gateway Configure the required routing to allow access to the internet
- C. Create a transit gateway in every account Attach the NAT gateway to the transit gateways Configure the required routing to allow access to the internet
- D. Create an AWS PrivateLink connection between the egress VPC and the spoke VPCs Configure the required routing to allow access to the internet

Answer: B

NEW QUESTION 197

- (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: B

NEW QUESTION 198

- (Exam Topic 2)

A company recently acquired several other companies. Each company has a separate AWS account with a different billing and reporting method. The acquiring company has consolidated all the accounts into one organization in AWS Organizations. However, the acquiring company has found it difficult to generate a cost report that contains meaningful groups for all the teams. The acquiring company's finance team needs a solution to report on costs for all the companies through a self-managed application. Which solution will meet these requirements?

- A. Create an AWS Cost and Usage Report for the organizatio
- B. Define tags and cost categories in the repor
- C. Create a table in Amazon Athena
- D. Create an Amazon QuickSight dataset based on the Athena tabl
- E. Share the dataset with the finance team.
- F. Create an AWS Cost and Usage Report for the organizatio
- G. Define tags and cost categories in the repor
- H. Create a specialized template in AWS Cost Explorer that the finance department will use to build reports.
- I. Create an Amazon QuickSight dataset that receives spending information from the AWS Price List Query AP
- J. Share the dataset with the finance team.
- K. Use the AWS Price List Query API to collect account spending informatio
- L. Create a specialized template in AWS Cost Explorer that the finance department will use to build reports.

Answer: D

NEW QUESTION 202

- (Exam Topic 2)

A company is planning to host a web application on AWS and works to load balance the traffic across a group of Amazon EC2 instances. One of the security requirements is to enable end-to-end encryption in transit between the client and the web server.

Which solution will meet this requirement?

- A. Place the EC2 instances behind an Application Load Balancer (ALB). Provision an SSL certificate using AWS Certificate Manager (ACM), and associate the SSL certificate with the ALB.
- B. Export the SSL certificate and install it on each EC2 instance.
- C. Configure the ALB to listen on port 443 and to forward traffic to port 443 on the instances.
- D. Associate the EC2 instances with a target group.
- E. Provision an SSL certificate using AWS Certificate Manager (ACM). Create an Amazon CloudFront distribution and configure it to use the SSL certificate.
- F. Set CloudFront to use the target group as the origin server.
- G. Place the EC2 instances behind an Application Load Balancer (ALB). Provision an SSL certificate using AWS Certificate Manager (ACM), and associate the SSL certificate with the ALB.
- H. Provision a third-party SSL certificate and install it on each EC2 instance.
- I. Configure the ALB to listen on port 443 and to forward traffic to port 443 on the instances.
- J. Place the EC2 instances behind a Network Load Balancer (NLB). Provision a third-party SSL certificate and install it on the NLB and on each EC2 instance.
- K. Configure the NLB to listen on port 443 and to forward traffic to port 443 on the instances.

Answer: C

NEW QUESTION 204

- (Exam Topic 2)

A company is building a serverless application that runs on an AWS Lambda function that is attached to a VPC. The company needs to integrate the application with a new service from an external provider. The external provider supports only requests that come from public IPv4 addresses that are in an allow list. The company must provide a single public IP address to the external provider before the application can start using the new service.

Which solution will give the application the ability to access the new service?

- A. Deploy a NAT gateway.
- B. Associate an Elastic IP address with the NAT gateway.
- C. Configure the VPC to use the NAT gateway.
- D. Deploy an egress-only internet gateway.
- E. Associate an Elastic IP address with the egress-only internet gateway.
- F. Configure the elastic network interface on the Lambda function to use the egress-only internet gateway.
- G. Deploy an internet gateway.
- H. Associate an Elastic IP address with the internet gateway.
- I. Configure the Lambda function to use the internet gateway.
- J. Deploy an internet gateway.
- K. Associate an Elastic IP address with the internet gateway.
- L. Configure the default route in the public VPC route table to use the internet gateway.

Answer: C

NEW QUESTION 208

- (Exam Topic 2)

A company's solution architect is designing a disaster recovery (DR) solution for an application that runs on AWS. The application uses PostgreSQL 11.7 as its database. The company has an RPO of 30 seconds. The solution architect must design a DR solution with the primary database in the us-east-1 Region and the database in the us-west-2 Region.

What should the solution architect do to meet these requirements with minimum application change?

- A. Migrate the database to Amazon RDS for PostgreSQL in us-east-1. Set up a read replica in us-west-2. Set the managed RPO for the RDS database to 30 seconds.
- B. Migrate the database to Amazon RDS for PostgreSQL in us-east-1. Set up a standby replica in an Availability Zone in us-west-2. Set the managed RPO for the RDS database to 30 seconds.
- C. Migrate the database to an Amazon Aurora PostgreSQL global database with the primary Region as us-east-1 and the secondary Region as us-west-2. Set the managed RPO for the Aurora database to 30 seconds.
- D. Migrate the database to Amazon DynamoDB in us-east-1. Set up global tables with replica tables that are created in us-west-2.

Answer: A

NEW QUESTION 209

- (Exam Topic 2)

A company has more than 10,000 sensors that send data to an on-premises Apache Kafka server by using the Message Queuing Telemetry Transport (MQTT) protocol. The on-premises Kafka server transforms the data and then stores the results as objects in an Amazon S3 bucket.

Recently, the Kafka server crashed. The company lost sensor data while the server was being restored.

The solution architect must create a new design on AWS that is highly available and scalable to prevent a similar occurrence.

Which solution will meet these requirements?

- A. Launch two Amazon EC2 instances to host the Kafka server in an active/standby configuration across two Availability Zones.
- B. Create a domain name in Amazon Route 53. Create a Route 53 failover policy. Route the sensors to send the data to the domain name.
- C. Migrate the on-premises Kafka server to Amazon Managed Streaming for Apache Kafka (Amazon MSK). Create a Network Load Balancer (NLB) that points to the Amazon MSK broker.
- D. Enable NLB health checks. Route the sensors to send the data to the NLB.
- E. Deploy AWS IoT Core, and connect it to an Amazon Kinesis Data Firehose delivery stream. Use an AWS Lambda function to handle data transformation. Route the sensors to send the data to AWS IoT Core.
- F. Deploy AWS IoT Core, and launch an Amazon EC2 instance to host the Kafka server. Configure AWS IoT Core to send the data to the EC2 instance. Route the sensors to send the data to AWS IoT Core.

Answer: A

NEW QUESTION 213

- (Exam Topic 2)

A company wants to use Amazon Workspaces in combination with thin client devices to replace aging desktops. Employees use the desktops to access applications that work with clinical trial data. Corporate security policy states that access to the applications must be restricted to only company branch office locations. The company is considering adding an additional branch office in the next 6 months.

Which solution meets these requirements with the MOST operational efficiency?

- A. Create an IP access control group rule with the list of public addresses from the branch offices. Associate the IP access control group with the Workspaces directory.
- B. Use AWS Firewall Manager to create a web ACL rule with an IPSet with the list of public addresses from the branch office locations. Associate the web ACL with the Workspaces directory.
- C. Use AWS Certificate Manager (ACM) to issue trusted device certificates to the machines deployed in the branch office locations. Enable restricted access on the Workspaces directory.
- D. Create a custom Workspace image with Windows Firewall configured to restrict access to the public addresses of the branch offices. Use the image to deploy the Workspaces.

Answer: C

NEW QUESTION 217

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