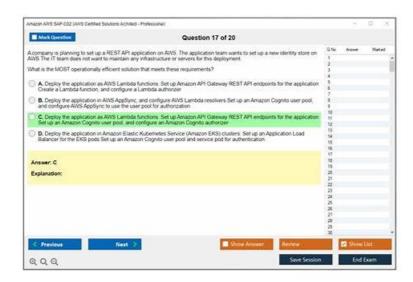
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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q278-Q283):

NEW QUESTION #278

An AWS customer has a web application that runs on premises. The web application fetches data from a third-party API that is behind a firewall. The third party accepts only one public CIDR block in each client's allow list.

The customer wants to migrate their web application to the AWS Cloud. The application will be hosted on a set of Amazon EC2 instances behind an Application Load Balancer (ALB) in a VPC. The ALB is located in public subnets. The EC2 instances are located in private subnets. NAT gateways provide internet access to the private subnets.

How should a solutions architect ensure that the web application can continue to call the third-parly API after the migration?

- A. Register a block of customer-owned public IP addresses in the AWS account. Set up AWS Global Accelerator to use Elastic IP addresses from the address block. Set the ALB as the accelerator endpoint.
- B. Create Elastic IP addresses from the block of customer-owned IP addresses. Assign the static Elastic IP addresses to the ALB
- C. Associate a block of customer-owned public IP addresses to the VPC. Enable public IP addressing for public subnets in the VPC.
- D. Register a block of customer-owned public IP addresses in the AWS account. Create Elastic IP addresses from the address block and assign them to the NAT gateways in the VPC.

Answer: D

Explanation:

When EC2 instances reach third-party API through internet, their privates IP addresses will be masked by NAT Gateway public IP address.

https://aws.amazon.com/blogs/networking-and-content-delivery/introducing-bring-your-own-ip-byoip-for-amazon-vpc/

NEW QUESTION #279

A company has registered 10 new domain names. The company uses the domains for online marketing. The company needs a solution that will redirect online visitors to a specific URL for each domain. All domains and target URLs are defined in a JSON document. All DNS records are managed by Amazon Route 53.

A solutions architect must implement a redirect service that accepts HTTP and HTTPS requests.

Which combination of steps should the solutions architect take to meet these requirements with the LEAST amount of operational effort? (Choose three.)

- A. Create an AWS Lambda function that uses the JSON document in combination with the event message to look up and respond with a redirect URL.
- B. Create an SSL certificate by using AWS Certificate Manager (ACM). Include the domains as Subject Alternative Names.
- C. Create an Application Load Balancer that includes HTTP and HTTPS listeners.
- D. Create an Amazon CloudFront distribution. Deploy a Lambda@Edge function.
- E. Use an Amazon API Gateway API with a custom domain to publish an AWS Lambda function.
- F. Create a dynamic webpage that runs on an Amazon EC2 instance. Configure the webpage to use the JSON document in combination with the event message to look up and respond with a redirect URL.

Answer: A,B,D

Explanation:

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/lambda-edge-how-it-works-tutorial.html

NEW OUESTION #280

A company is planning to migrate an application from on premises to the AWS Cloud. The company will begin the migration by moving the application's underlying data storage to AWS. The application data is stored on a shared tie system on premises, and the application servers connect to the shared We system through SMB.

A solutions architect must implement a solution that uses an Amazon S3 bucket tor shared

storage Until the application Is fully migrated and code is rewritten to use native Amazon S3 APIs, the application must continue to have access to the data through SMB. The solutions architect must migrate the application data to AWS to its new location while still allowing the on-premises application to access the data.

Which solution will meet these requirements?

- A. Create a new Amazon FSx for Windows File Server fie system Configure AWS DataSync with one location tor the onpremises file share and one location for the new Amazon FSx file system Create a new DataSync task to copy the data from the on-premises file share location to the Amazon FSx file system
- B. Create an S3 bucket for the application. Deploy a new AWS Storage Gateway Me gateway on an on-premises VM. Create a new file share that stores data in the S3 bucket and is associated with the tie gateway. Copy the data from the on-premises storage to the new file gateway endpoint.

- C. Create an S3 bucket for the application. Copy the data from the on-premises storage to the S3 bucket
- D. Deploy an AWS Server Migration Service (AWS SMS) VM to the on-premises environment. Use AWS SMS to migrate the file storage server from on premises to an Amazon EC2 instance

Answer: A

NEW QUESTION #281

A company is creating a centralized logging service running on Amazon EC2 that will receive and analyze logs from hundreds of AWS accounts. AWS PrivateLink is being used to provide connectivity between the client services and the logging service. In each AWS account with a client, an interface endpoint has been created for the logging service and is available. The logging service running on EC2 instances with a Network Load Balancer (NLB) are deployed in different subnets. The clients are unable to submit logs using the VPC endpoint.

Which combination of steps should a solutions architect take to resolve this issue? (Choose two.)

- A. Check the security group for the logging service running on the EC2 instances to ensure it allows ingress from the NLB subnets.
- B. Check the security group for the NLB to ensure it allows ingress from the interface endpoint subnets.
- C. Check that the NACL is attached to the logging service subnets to allow communications to and from the interface endpoint subnets. Check that the NACL is attached to the interface endpoint subnet to allow communications to and from the logging service subnets running on EC2 instances.
- D. Check that the NACL is attached to the logging service subnet to allow communications to and from the NLB subnets. Check that the NACL is attached to the NLB subnet to allow communications to and from the logging service subnets running on EC2 instances.
- E. Check the security group for the logging service running on EC2 instances to ensure it allows ingress from the clients.

Answer: A,D

Explanation:

https://docs.aws.amazon.com/vpc/latest/privatelink/create-endpoint-service.html#considerations- endpoint-services

NEW QUESTION # 282

A company wants to nitrate its data analytics environment from on premises to AWS.

The environment consists of two simple Node.js applications. One of the applications collects sensor data and loads it into a MySQL database.

The other application aggregates the data into reports. When the aggregation jobs run. Some of the load jobs fail to run correctly. The company must resolve the cala loading issue.

The company also needs the migration to occur without interruptions or changes for the company's customers.

What should a solutions architect do to meet those requirements?

• A. Set up an Amazon Aurora MySQL database.

Use AWS Database Migration Service (AWS DMS) to perform continuous data replication from the on-prermises database to Aurora.

Move the aggregation jobs to run against the Aurora MySQL database.

Set up collodion endpoints behind an Application Load Balancer (ALB) as Amazon EC2 instances in an Auto Scaling group. When the databases are synced, point the collector DNS record to the ALB.

Disable the AWS DMS sync task after the cutover from on premises to AWS.

• B. Set up an Amazon Aurora MySQL database.

Create an Aurora Replica for the Aurora MySQL database, and move the aggregation jobs to run against the Aurora Replica.

Set up collection endpoints as an Amazon Kinesis data stream.

Use Amazon Kinesis Data Firehose to replicate the data to the Aurora MySQL database.

When the databases are synced, disable the replication job and restart the Aurora Replica as the primary instance.

Point the collector DNS record to the Kineses data stream.

• C. Set up an Amazon Aurora MySQL database.

Use AWS Database Mig-alion Service (AWS DMS) to perform continuous data replication from the on-premises database to Aurora.

Create an Aurora Replica for Ine Aurora MySQL database, and move the aggregation jobs to run against the Aurora Replica.

Set up collection endpoints as AWS Lambda functions beninc an Application Load Balancer (ALB).

And use Anazon RDS Proxy to write lo the Aurora MySQL database. When the databases are synced, point tno oolleclo' DNS record to Ine ALB. Disable the AWS DMS sync task alter the culovef from on premises to AWS.

• D. Set up an Amazon Aurora MySQL database as a replication target for the on-premises database. Create an Aurora Replica for the Aurora MySQL database, and move the aggregation jobs lo run against too Aurora Replica.

Set up collection endpoints as AWS Lambda functions behind a Network Load Balancer (NLB), and use Amazon RDS Proxy lo write lo the Aurora MySQL database.

When the databases are synced, disable the replication job and restart the Aurora Replica as the primary instance. Point the collector DNS record to the NLB.

Answer: C

Explanation:

Set up an Amazon Aurora MySQL database. Use AWS Database Migration Service (AWS DMS) to perform continuous data replication from the on-premises database to Aurora. Create an Aurora Replica for the Aurora MySQL database, and move the aggregation jobs to run against the Aurora Replica. Set up collection endpoints as AWS Lambda functions behind an Application Load Balancer (ALB), and use Amazon RDS Proxy to write to the Aurora MySQL database.

When the databases are synced, point the collector DNS record to the ALB. Disable the AWS DMS sync task after the cutover from on premises to AWS.

Amazon RDS Proxy allows applications to pool and share connections established with the database, improving database efficiency and application scalability. With RDS Proxy, failover times for Aurora and RDS databases are reduced by up to 66%.

NEW QUESTION #283

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