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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q412-Q417):

NEW QUESTION # 412
A company is running a workload that consists of thousands of Amazon EC2 instances The workload is running in a VPC that contains several public subnets and private subnets The public subnets have a route for
0 0 0 0/0 to an existing internet gateway. The private subnets have a route for 0 0 0 0/0 to an existing NAT gateway A solutions

architect needs to migrate the entire fleet of EC2 instances to use IPv6 The EC2 instances that are in private subnets must not be accessible from the public internet What should the solutions architect do to meet these requirements?

- A. Update the existing VPC and associate a custom IPv6 CIDR block with the VPC and all subnets Create a new NAT gateway, and enable IPv6 support Update the VPC route tables for all private subnets and add a route for 70 to the IPv6-enabled NAT gateway.
- B. Update the existing VPC and associate a custom IPv6 CIDR block with the VPC and all subnets Update all the VPC route tables and add a route for /0 to the internet gateway
- C. Update the existing VPC. and associate an Amazon-provided IPv6 CIDR block with the VPC and ail subnets Create an egress-only internet gateway Update the VPC route tables for all private subnets, and add a route for /0 to the egress-only internet gateway
- D. Update the existing VPC. and associate an Amazon-provided IPv6 CIDR block with the VPC and all subnets Update the VPC route tables for all private subnets, and add a route for /0 to the NAT gateway

Answer: C

NEW QUESTION # 413
A company plans to deploy a new private intranet service on Amazon EC2 instances inside a VPC. An AWS Site-to-Site VPN connects the VPC to the company's on-premises network. The new service must communicate with existing on-premises services The on-premises services are accessible through the use of hostnames that reside in the company example DNS zone This DNS zone is wholly hosted on premises and is available only on the company's private network.
A solutions architect must ensure that the new service can resolve hostnames on the company example domain to integrate with existing services.
Which solution meets these requirements?

- A. Create an empty private zone in Amazon Route 53 for company example Add an additional NS record to the company's on-premises company example zone that points to the authoritative name servers for the new private zone in Route 53
- B. Use AWS Systems Manager to configure a run document that will install a hosts file that contains any required hostnames. Use an Amazon EventBndge rule to run the document when an instance is entering the running state.
- C. Turn on DNS hostnames for the VPC Configure a new outbound endpoint with Amazon Route 53 Resolver. Create a Resolver rule to forward requests for company example to the on-premises name servers
- D. Turn on DNS hostnames for the VPC Configure a new inbound resolver endpoint with Amazon Route 53 Resolver. Configure the on-premises DNS server to forward requests for company example to the new resolver.

Answer: C

Explanation:
https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/resolver.html

NEW QUESTION # 414
A company's solutions architect is reviewing a new internally developed application in a sandbox AWS account The application uses an AWS Auto Scaling group of Amazon EC2 instances that have an IAM instance profile attached Part of the application logic creates and accesses secrets from AWS Secrets Manager The company has an AWS Lambda function that calls the application API to test the functionality The company also has created an AWS CloudTrail trail in the account The application's developer has attached the SecretsManagerReadWnte AWS managed IAM policy to an IAM role The IAM role is associated with the instance profile that is attached to the EC2 instances The solutions architect has invoked the Lambda function for testing The solutions architect must replace the SecretsManagerReadWnte policy with a new policy that provides least privilege access to the Secrets Manager actions that the application requires What is the MOST operationally efficient solution that meets these requirements?

- A. Use the aws cloudtrail lookup-events AWS CLI command to filter and export CloudTrail events that are related to Secrets Manager Use a new IAM policy that contains the actions from CloudTrail to replace the SecretsManagerReadWnte policy that is attached to the IAM role
- B. Create an analyzer in AWS Identity and Access Management Access Analyzer Use the IAM role's Access Advisor findings to create a new IAM policy Use the newly created IAM policy to replace the SecretsManagerReadWnte policy that is attached to the IAM role
- C. Generate a policy based on CloudTrail events for the IAM role Use the generated policy output to create a new IAM policy Use the newly generated IAM policy to replace the SecretsManagerReadWnte policy that is attached to the IAM role
- D. Use the IAM policy simulator to generate an IAM policy for the IAM role Use the newly generated IAM policy to replace the SecretsManagerReadWnte policy that is attached to the IAM role

Answer: B

Explanation:
Explanation
The IAM policy simulator will generate a policy that contains only the necessary permissions for the application to access Secrets Manager, providing the least privilege necessary to get the job done. This is the most efficient solution as it will not require additional steps such as analyzing CloudTrail events or manually creating and testing an IAM policy.
You can use the IAM policy simulator to generate an IAM policy for an IAM role by specifying the role and the API actions and resources that the application or service requires. The simulator will then generate an IAM policy that grants the least privilege access to those actions and resources.
Once you have generated an IAM policy using the simulator, you can replace the existing SecretsManagerReadWnte policy that is attached to the IAM role with the newly generated policy. This will ensure that the application or service has the least privilege access to the Secrets Manager actions that it requires.
You can access the IAM policy simulator through the IAM console, AWS CLI, and AWS SDKs. Here is the link for more information:
https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_simulator.html

NEW QUESTION # 415
A company is launching a new online game on Amazon EC2 instances. The game must be available globally.
The company plans to run the game in three AWS Regions: us-east-1, eu-west-1, and ap-southeast-1. The game's leaderboards.
player inventory, and event status must be available across Regions.
A solutions architect must design a solution that will give any Region the ability to scale to handle the load of all Regions.
Additionally, users must automatically connect to the Region that provides the least latency.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an Auto Scaling group for the EC2 instances. Attach the Auto Scaling group to a Network Load Balancer (NLB) in each Region. For each Region, create an Amazon Route 53 entry that uses geoproximity routing and points to the NLB in that Region. Save the game metadata to MySQL databases on EC2 instances in each Region. Save the game metadata to MySQL databases on EC2 instances in each Region. Set up replication between the database EC2 instances in each Region.
- B. Create an EC2 Spot Fleet. Attach the Spot Fleet to a Network Load Balancer (NLB) in each Region.
  Create an AWS Global Accelerator IP address that points to the NLB. Create an Amazon Route 53 latency-based routing entry for the Global Accelerator IP address. Save the game metadata to an Amazon RDS for MySQL DB instance in each Region. Set up a read replica in the other Regions.
- C. Create an Auto Scaling group for the EC2 instances. Attach the Auto Scaling group to a Network Load Balancer (NLB) in each Region. For each Region, create an Amazon Route 53 entry that uses latency-based routing and points to the NLB in that Region. Save the game metadata to an Amazon DynamoDB global table.
- D. Use EC2 Global View. Deploy the EC2 instances to each Region. Attach the instances to a Network Load Balancer (NLB). Deploy a DNS server on an EC2 instance in each Region. Set up custom logic on each DNS server to redirect the user to the Region that provides the lowest latency. Save the game metadata to an Amazon Aurora global database.

Answer: C

Explanation:
The best option is to use an Auto Scaling group, a Network Load Balancer, Amazon Route 53, and Amazon DynamoDB to create a scalable, highly available, and low-latency online game application. An Auto Scaling group can automatically adjust the number of EC2 instances based on the demand and traffic in each Region.
A Network Load Balancer can distribute the incoming traffic across the EC2 instances and handle millions of requests per second.
Amazon Route 53 can use latency-based routing to direct the users to the Region that provides the best performance. Amazon DynamoDB global tables can replicate the game metadata across multiple Regions, ensuring consistency and availability of the data.
This approach minimizes the operational overhead and cost, as it leverages fully managed services and avoids custom logic or replication.
Option A is not optimal because using an EC2 Spot Fleet can introduce the risk of losing the EC2 instances if the Spot price exceeds the bid price, which can affect the availability and performance of the game. Using AWS Global Accelerator can improve the network performance, but it is not necessary if Amazon Route 53 can already route the users to the closest Region. Using Amazon RDS for MySQL can store the game metadata, but it requires setting up read replicas and managing the replication lag across Regions, which can increase the complexity and cost.
Option B is not optimal because using geoproximity routing can direct the users to the Region that is geographically closer, but it does not account for the network latency or performance. Using MySQL databases on EC2 instances can store the game metadata, but it requires managing the EC2 instances, the database software, the backups, the patches, and the replication across Regions, which can increase the operational overhead and cost.

Option D is not optimal because using EC2 Global View is not a valid service. Using a custom DNS server on an EC2 instance can redirect the user to the Region that provides the lowest latency, but it requires developing and maintaining the custom logic, as well as managing the EC2 instance, which can increase the operational overhead and cost. Using Amazon Aurora global database can store the game metadata, but it is more expensive and complex than using Amazon DynamoDB global tables.
References:
Auto Scaling groups
Network Load Balancer
Amazon Route 53
Amazon DynamoDB global tables

NEW QUESTION # 416

A company's solutions architect is reviewing a web application that runs on AWS. The application references static assets in an Amazon S3 bucket in the us-east-1 Region. The company needs resiliency across multiple AWS Regions. The company already has created an S3 bucket in a second Region.

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

- A. Create an AWS Lambda function to copy objects from the S3 bucket in us-east-1 to the S3 bucket in the second Region. Invoke the Lambda function each time an object is written to the S3 bucket in us-east-1.
  Set up an Amazon CloudFront distribution with an origin group that contains the two S3 buckets as origins.
- B. Configure replication on the S3 bucket in us-east-1 to replicate objects to the S3 bucket in the second Region Set up an Amazon CloudFront distribution with an origin group that contains the two S3 buckets as origins.
- C. Configure replication on the S3 bucket in us-east-1 to replicate objects to the S3 bucket in the second Region. If failover is required, update the application code to load S3 objects from the S3 bucket in the second Region.
- D. Configure the application to write each object to both S3 buckets. Set up an Amazon Route 53 public hosted zone with a record set by using a weighted routing policy for each S3 bucket. Configure the application to reference the objects by using the Route 53 DNS name.

Answer: B

Explanation:
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/high_availability_origin_failover.
html

NEW QUESTION # 417

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