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The AWS-Solutions-Architect-Professional Exam is a comprehensive test that covers a wide range of topics, including advanced networking, security, database architecture, cloud migration, and more. AWS-Solutions-Architect-Professional exam is designed to be challenging, and it requires a deep understanding of AWS services, as well as the ability to design and deploy complex systems in the cloud.

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The AWS Certified Solutions Architect - Professional exam is designed to test the skills of professionals in designing and deploying scalable, highly available, and fault-tolerant systems on AWS. AWS Certified Solutions Architect - Professional certification exam validates the skills and knowledge of an individual in creating and deploying complex cloud-based solutions, including designing and deploying multi-tier applications, managing data security, and implementing business continuity and disaster recovery strategies.

Amazon AWS Certified Solutions Architect - Professional Sample Questions (Q177-Q182):

NEW QUESTION # 177

A company is migrating its legacy .NET workload to AWS. The company has a containerized setup that includes a base container image. The base image is tens of gigabytes in size because of legacy libraries and other dependencies. The company has images for

custom developed components that are dependent on the base image.

The company will use Amazon Elastic Container Registry (Amazon ECR) as part of its solution on AWS.

Which solution will provide the LOWEST container startup time on AWS?

- A. Use Amazon ECR to store the base image and the images for the custom developed components. Use Amazon Elastic Container Service (Amazon ECS) on AWS Fargate to run the workload.
- B. Use Amazon ECR to store the images for the custom developed components. Create an AMI that contains the base image. Use Amazon Elastic Container Service (Amazon ECS) on Amazon EC2 instances that are based on the AMI to run the workload
- C. Use Amazon ECR to store the base image and the images for the custom developed components. Use AWS App Runner to run the workload.
- D. Use Amazon ECR to store the images for the custom developed components. Create an AMI that contains the base image. Use Amazon Elastic Kubernetes Service (Amazon EKS) on AWS Fargate with the AMI to run the workload.

Answer: B

NEW QUESTION # 178

You are designing an SSL/TLS solution that requires HTTPS clients to be authenticated by the Web server using client certificate authentication. The solution must be resilient.

Which of the following options would you consider for configuring the Web server infrastructure?

Choose 2 answers

- A. Configure ELB with HTTPS listeners, and place the Web servers behind it.
- B. Configure your Web servers with EIPs.
Place the Web servers in a Route53 Record Set, and configure health checks against all Web servers.
- C. Configure your Web servers as the origins for a CloudFront distribution.
Use custom SSL certificates on your CloudFront distribution.
- D. Configure ELB with TCP listeners on TCP/443, and place the Web servers behind it.

Answer: A,C

Explanation:

TCP/443 or HTTPS listener either way you can configure, but you can only upload ssl certificate on HTTPS listener.

NEW QUESTION # 179

A company's main intranet page has experienced degraded response times as its user base has increased although there are no reports of users seeing error pages. The application uses Amazon DynamoDB in read-only mode.

Amazon DynamoDB latency metrics for successful requests have been in a steady state even during times when users have reported degradation. The Development team has correlated the issue to ProvisionedThroughput Exceeded exceptions in the application logs when doing Scan and read operations. The team also identified an access pattern of steady spikes of read activity on a distributed set of individual data items. The Chief Technology Officer wants to improve the user experience. Which solutions will meet these requirements with the LEAST amount of changes to the application? (Select TWO)

- A. Remove error retries and exponential backoffs in the application code to handle throttling errors
- B. Implement the DynamoDB Accelerator (DAX) client and provision a DAX cluster with the appropriate node types to sustain the application load. Tune the item and query cache configuration for an optimal user experience
- C. Enable DynamoDB auto scaling to manage the throughput capacity as table traffic increases. Set the upper and lower limits to control costs and set a target utilization given the peak usage and how quickly the traffic changes.
- D. Provision Amazon ElastiCache for Redis with cluster mode enabled. The cluster should be provisioned with enough shards to spread the application load and provision at least one read replica node for each shard
- E. Change the data model of the DynamoDB tables to ensure that all Scan and read operations meet DynamoDB best practices of uniform data access, reaching the full request throughput provisioned for the DynamoDB tables

Answer: A,E

NEW QUESTION # 180

You are setting up some EBS volumes for a customer who has requested a setup which includes a RAID (redundant array of

inexpensive disks). AWS has some recommendations for RAID setups.

Which RAID setup is not recommended for Amazon EBS?

- A. RAID 5 and RAID 6
- B. RAID 1 only
- C. RAID 5 only
- D. RAID 0 only

Answer: A

Explanation:

Explanation

With Amazon EBS, you can use any of the standard RAID configurations that you can use with a traditional bare metal server, as long as that particular RAID configuration is supported by the operating system for your instance. This is because all RAID is accomplished at the software level. For greater I/O performance than you can achieve with a single volume, RAID 0 can stripe multiple volumes together; for on-instance redundancy, RAID 1 can mirror two volumes together. RAID 5 and RAID 6 are not recommended for Amazon EBS because the parity write operations of these RAID modes consume some of the IOPS available to your volumes.

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/raid-config.html>

NEW QUESTION # 181

A company is hosting a three-tier web application in an on-premises environment. Due to a recent surge in traffic that resulted in downtime and a significant financial impact, company management has ordered that the application be moved to AWS. The application is written in .NET and has a dependency on a MySQL database. A solutions architect must design a scalable and highly available solution to meet the demand of 200000 daily users.

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

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

Answer: D

Explanation:

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

NEW QUESTION # 182

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