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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q72-Q77):

NEW QUESTION # 72

A company that runs multiple workloads on AWS wants to enhance its security posture by implementing DNS-based threat protection. The company must block DNS-based attacks.

Which solution will meet this requirement?

- **A. Configure Amazon Route 53 Resolver to forward DNS queries to Route 53 Resolver DNS Firewall Advanced to detect and filter threats.**
- B. Configure AWS Config to monitor DNS queries and DNS traffic patterns. Use an AWS Lambda function to prevent access to malicious domains.
- C. Use AWS WAF to inspect DNS traffic for malicious domains. Create custom rules to block known threats.
- D. Deploy AWS Shield Advanced to filter and block malicious DNS queries. Set up domain filtering policies.

Answer: A

Explanation:

Amazon Route 53 Resolver DNS Firewall provides DNS-based threat protection by allowing you to create rule groups that block queries to known malicious domains and apply domain filtering policies across your VPCs. By configuring the Route 53 Resolver to forward DNS queries through the DNS Firewall, you ensure that all DNS traffic is inspected and filtered, effectively blocking DNS-based attacks and malicious domains while keeping DNS resolution within your AWS environment.

NEW QUESTION # 73

A company hosts an FTP server on Amazon EC2 instances. In the company's AWS environment, AWS Security Hub sends findings for the EC2 instances to Amazon EventBridge because the FTP port has become publicly exposed in the security groups that are attached to the instances.

A CloudOps engineer wants an automated solution to remediate the Security Hub finding and any similar exposed port findings. The CloudOps engineer wants to use an event-driven approach.

Which solution will meet these requirements?

- A. Create a cron job for the FTP server that invokes an AWS Lambda function. Configure the Lambda function to modify the server to use SFTP instead of FTP.
- **B. Configure the existing EventBridge event to invoke an AWS Lambda function. Configure the function to remove the security group rule that allows public access.**
- C. Create a cron job for the FTP server to invoke an AWS Lambda function. Configure the Lambda function to modify the security group of the identified EC2 instances and to remove the instances that allow public access.
- D. Configure the existing EventBridge event to stop the EC2 instances that have the exposed port.

Answer: B

Explanation:

Security Hub already sends findings to Amazon EventBridge, so the most efficient event-driven remediation is to have EventBridge trigger a Lambda function whenever a relevant finding (publicly exposed port) occurs. The Lambda function can parse the finding, identify the affected security group and port, and remove the 0.0.0.0/0 (or :::/0) rule that exposes the port. This directly fixes the root cause (the security group rule) and can be reused for similar exposed-port findings without manual intervention or periodic jobs.

NEW QUESTION # 74

A company operates compute resources in a VPC and in the company's on-premises data center. The company already has an AWS Direct Connect connection between the VPC and the on-premises data center.

A CloudOps engineer needs to ensure that Amazon EC2 instances in the VPC can resolve DNS names for hosts in the on-premises data center.

Which solution will meet this requirement with the LEAST amount of ongoing maintenance?

- A. Create an Amazon Route 53 private hosted zone. Populate the zone with the hostnames and IP addresses of the hosts in the on-premises data center.
- **B. Create an Amazon Route 53 Resolver outbound endpoint. Add the IP addresses of an on-premises DNS server for the domain names that need to be forwarded.**
- C. Set up a forwarding rule for reverse DNS queries in Amazon Route 53 Resolver. Set the enableDnsHostnames attribute to true for the VPC.
- D. Add the hostnames and IP addresses for the on-premises hosts to the /etc/hosts file of each EC2 instance.

Answer: B

Explanation:

Amazon Route 53 Resolver outbound endpoints enable Amazon VPC resources to forward DNS queries to DNS servers that are outside of AWS, such as on-premises DNS servers. Because the company already has AWS Direct Connect in place, DNS queries can be routed privately from the VPC to the on-premises DNS infrastructure without using the public internet.

By creating an outbound endpoint and configuring forwarding rules for the on-premises domains, EC2 instances in the VPC can resolve DNS names dynamically using the existing authoritative DNS servers. This approach requires minimal ongoing maintenance because DNS records continue to be managed centrally in the on-premises DNS system.

Manually populating a private hosted zone or /etc/hosts files would require constant updates and does not scale. Reverse DNS forwarding alone does not solve forward name resolution.

Therefore, using Route 53 Resolver outbound endpoints is the correct solution.

NEW QUESTION # 75

A company uses memory-optimized Amazon EC2 instances behind a Network Load Balancer (NLB) to run an application. The company launched the EC2 instances from an AWS-provided Red Hat Enterprise Linux (RHEL) AMI.

A CloudOps engineer must monitor RAM utilization in 5-minute intervals. The CloudOps engineer must ensure that the EC2 instances scale in and out appropriately based on incoming load.

Which solution will meet these requirements?

- **A. Configure basic monitoring for the EC2 instances. Configure the Amazon CloudWatch agent on the EC2 instances. Create an IAM role that allows the CloudWatch agent to upload data. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the `mem_used_percent` metric.**
- B. Configure detailed monitoring for the EC2 instances. Use the `mem_used_percent` metric that the detailed monitoring feature provides. Create an IAM role that allows the CloudWatch agent to upload data. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the `mem_used_percent` metric.
- C. Configure detailed monitoring for the EC2 instances. Configure the Amazon CloudWatch agent on the EC2 instances. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the `mem_active` metric.
- D. Configure basic monitoring for the EC2 instances. Use the standard `mem_used_percent` metric for monitoring. Create an EC2 Auto Scaling group and Auto Scaling policy that is based on the `mem_used_percent` metric.

Answer: A

Explanation:

Comprehensive Explanation (250-350 words):

EC2 does not publish RAM utilization as a native CloudWatch metric by default. Memory metrics such as `mem_used_percent` are typically collected by the CloudWatch Agent, which runs on the instance and publishes custom metrics to CloudWatch. Because the requirement is RAM utilization at 5-minute intervals, the CloudWatch Agent can be configured to emit metrics at that cadence (or faster).

"Detailed monitoring" for EC2 mainly affects EC2-provided metrics (like CPU) by changing the period from 5 minutes (basic) to 1 minute (detailed). It does not magically provide memory utilization. Therefore, the key requirement is installing/configuring the CloudWatch Agent and ensuring it has permissions to publish metrics (via an IAM role attached to the instance / instance profile).

Option C correctly combines: (1) basic monitoring (fine for the ask), (2) CloudWatch Agent to publish `mem_used_percent`, (3) IAM role permissions to allow publishing, and (4) Auto Scaling policy that scales based on the memory metric.

Option B incorrectly implies detailed monitoring provides `mem_used_percent` (it does not). Option D assumes a "standard" memory metric exists without the agent, which is not correct. Option A references `mem_active`, which is not the typical metric name exposed by CloudWatch Agent's standard memory measurements for scaling policies, and also omits the IAM role requirement needed for publishing custom metrics.

Thus, C is the AWS-correct path for memory-based scaling using CloudWatch custom metrics.

NEW QUESTION # 76

A CloudOps engineer is troubleshooting an implementation of Amazon CloudWatch Synthetics.

The CloudWatch Synthetics results must be sent to an Amazon S3 bucket.

The CloudOps engineer has copied the configuration of an existing canary that runs on a VPC that has an internet gateway attached. However, the CloudOps engineer cannot get the canary to successfully start on a private VPC that has no internet access.

What should the CloudOps engineer do to successfully run the canary on the private VPC?

- A. Ensure that the DNS resolution option and the DNS hostnames option are turned off in the VPC.

Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use the S3 endpoint.

- B. Ensure that the DNS resolution option and the DNS hostnames option are turned on in the VPC. Create an interface VPC endpoint for CloudWatch. Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use both endpoints.
- C. Ensure that the DNS resolution option and the DNS hostnames option are turned on in the VPC. Add the synthetics:GetCanaryRuns permission to the VPC. On the S3 bucket, add the IgnorePublicAcls permission to the CloudWatch Synthetics role.
- D. Ensure that the DNS resolution option and the DNS hostnames option are turned off in the VPC. Add a security group to the canary to allow outbound traffic on the DNS port. Add the permissions to allow CloudWatch Synthetics to write to the S3 bucket.

Answer: B

Explanation:

When a CloudWatch Synthetics canary runs inside a private VPC, it must access CloudWatch and S3 privately for publishing logs, metrics, and storing results. Because there is no internet access, the canary requires:

- DNS resolution and hostnames enabled for proper endpoint resolution.
- An interface VPC endpoint for CloudWatch, so the canary can communicate with the CloudWatch service privately.
- A gateway VPC endpoint for S3, to allow results to be written to the S3 bucket without internet access.

NEW QUESTION # 77

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