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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Deployment, Provisioning, and Automation: This section measures the skills of Cloud Engineers and covers provisioning and maintaining cloud resources using AWS CloudFormation, CDK, and third-party tools. It evaluates automation of deployments, remediation of resource issues, and managing infrastructure using Systems Manager and event-driven processes like Lambda or S3 notifications.
Topic 2	<ul style="list-style-type: none">Monitoring, Logging, Analysis, Remediation, and Performance Optimization: This section of the exam measures skills of CloudOps Engineers and covers implementing AWS monitoring tools such as CloudWatch, CloudTrail, and Prometheus. It evaluates configuring alarms, dashboards, and notifications, analyzing performance metrics, troubleshooting issues using EventBridge and Systems Manager, and applying strategies to optimize compute, storage, and database performance.

Topic 3	<ul style="list-style-type: none"> Networking and Content Delivery: This section measures skills of Cloud Network Engineers and focuses on VPC configuration, subnets, routing, network ACLs, and gateways. It includes optimizing network cost and performance, configuring DNS with Route 53, using CloudFront and Global Accelerator for content delivery, and troubleshooting network and hybrid connectivity using logs and monitoring tools.
Topic 4	<ul style="list-style-type: none"> Security and Compliance: This section measures skills of Security Engineers and includes implementing IAM policies, roles, MFA, and access controls. It focuses on troubleshooting access issues, enforcing compliance, securing data at rest and in transit using AWS KMS and ACM, protecting secrets, and applying findings from Security Hub, GuardDuty, and Inspector.
Topic 5	<ul style="list-style-type: none"> Reliability and Business Continuity: This section measures the skills of System Administrators and focuses on maintaining scalability, elasticity, and fault tolerance. It includes configuring load balancing, auto scaling, Multi-AZ deployments, implementing backup and restore strategies with AWS Backup and versioning, and ensuring disaster recovery to meet RTO and RPO goals.

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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q69-Q74):

NEW QUESTION # 69

A company runs a business application on more than 300 Linux-based instances. Each instance has the AWS Systems Manager Agent (SSM Agent) installed. The company expects the number of instances to grow in the future. All business application instances have the same user-defined tag.

A CloudOps engineer wants to run a command on all the business application instances to download and install a package from a private repository. To avoid overwhelming the repository, the CloudOps engineer wants to ensure that no more than 30 downloads occur at one time.

Which solution will meet this requirement in the MOST operationally efficient way?

- A. Use a Systems Manager Run Command document to download and install the package. Use rate control to set concurrency to 30. Specify the target by using the user-defined tag.
- B. Use an AWS Lambda function to automatically run a Systems Manager Run Command document. Set reserved concurrency for the Lambda function to 30.
- C. Use a parallel workflow state in AWS Step Functions. Set the number of parallel states to 30.
- D. Use a secondary tag to create 10 batches of 30 instances each. Use a Systems Manager Run Command document to download and install the package. Run each batch one time.

Answer: A

Explanation:

Comprehensive Explanation (250-350 words):

AWS Systems Manager Run Command includes a built-in rate control feature that allows administrators to control the maximum number of concurrent executions across target instances. This directly addresses the requirement to limit downloads to 30 at a time without custom orchestration or additional services.

By targeting instances using tags, the solution automatically scales as new instances are added, which aligns with future growth expectations. Rate control ensures controlled concurrency and protects the private repository from overload.

Option A is manual and does not scale operationally. Option B introduces unnecessary complexity with Lambda and concurrency management that does not map cleanly to instance execution concurrency. Option D significantly increases architectural complexity without added value.

Run Command with rate control is the simplest, most native, and most scalable solution.

NEW QUESTION # 70

A company manages a set of AWS accounts by using AWS Organizations. The company's security team wants to use a native AWS service to regularly scan all AWS accounts against the Center for Internet Security (CIS) AWS Foundations Benchmark. What is the MOST operationally efficient way to meet these requirements?

- A. Designate an AWS Security Hub administrator account, automatically enroll new organization accounts, and enable CIS AWS Foundations Benchmark.
- B. Run the CIS AWS Foundations Benchmark by using Amazon Inspector.
- C. Designate a central security account as the Amazon GuardDuty administrator account and configure CIS scans.
- D. Designate a central security account as the AWS Security Hub administrator account. Use scripts to invite and accept member accounts.

Answer: A

Explanation:

Comprehensive Explanation (250-350 words):

AWS Security Hub is the native AWS service that provides continuous compliance checks against security standards, including the CIS AWS Foundations Benchmark. When integrated with AWS Organizations, Security Hub can automatically enroll existing and newly created accounts, eliminating manual invitations and scripts.

By designating a Security Hub administrator account and enabling automatic account onboarding, the organization ensures consistent security posture monitoring across all accounts. CIS benchmark checks are run continuously, and findings are aggregated centrally, simplifying governance and remediation workflows.

Amazon Inspector focuses on vulnerability scanning for EC2, container images, and Lambda functions-not CIS compliance.

GuardDuty is a threat detection service and does not run CIS benchmarks.

Therefore, using AWS Security Hub with automatic organization-wide enrollment is the most efficient solution.

NEW QUESTION # 71

A company plans to run a public web application on Amazon EC2 instances behind an Elastic Load Balancing (ELB) load balancer. The company's security team wants to protect the website by using AWS Certificate Manager (ACM) certificates. The load balancer must automatically redirect any HTTP requests to HTTPS.

Which solution will meet these requirements?

- A. Create an Application Load Balancer that has one HTTPS listener on port 80. Attach an SSL/TLS certificate to listener port 80. Create a rule to redirect requests from HTTP to HTTPS.
- B. Create an Application Load Balancer that has two TCP listeners on port 80 and port 443. Attach an SSL/TLS certificate to listener port 443. Create a rule to redirect requests from port 80 to port 443.
- C. Create a Network Load Balancer that has two TCP listeners on port 80 and port 443. Attach an SSL/TLS certificate to listener port 443. Create a rule to redirect requests from port 80 to port 443.
- D. Create an Application Load Balancer that has one HTTP listener on port 80 and one HTTPS protocol listener on port 443. Attach an SSL/TLS certificate to listener port 443. Create a rule to redirect requests from port 80 to port 443.

Answer: D

Explanation:

An Application Load Balancer (ALB) supports both HTTP and HTTPS listeners. By attaching an ACM-managed SSL/TLS certificate to the HTTPS listener on port 443 and configuring a redirect rule in the HTTP (port 80) listener to forward traffic to HTTPS, the ALB automatically redirects all HTTP requests to HTTPS, meeting both the security and operational requirements.

NEW QUESTION # 72

A CloudOps engineer needs to control access to groups of Amazon EC2 instances using AWS Systems Manager Session Manager. Specific tags on the EC2 instances have already been added.

Which additional actions should the CloudOps engineer take to control access? (Select TWO.)

- A. Attach an IAM role to control access to the EC2 instances.
- B. Create a service account and attach it to the EC2 instances that need to be controlled.
- C. Create a placement group for the EC2 instances and add a specific tag.
- D. Create an IAM policy that grants access to any EC2 instances with a tag specified in the Condition element.
- E. Attach an IAM policy to the users or groups that require access to the EC2 instances.

Answer: D,E

Explanation:

AWS Systems Manager Session Manager allows secure, auditable instance access without SSH keys or inbound ports. To control access based on instance tags, CloudOps best practices require two configurations:

* Attach an IAM policy to users or groups granting ssmStartSession, ssmDescribeInstanceInformation, and ssmDescribeSessions.

* Include a Condition element in the IAM policy referencing instance tags, such as Condition:

{"StringEquals": {"ssmresourceTag/Environment": "Production"} }.

This ensures users can start sessions only with instances that have matching tags, providing fine-grained access control.

AWS CloudOps documentation under Security and Compliance states:

"Use IAM policies with resource tags in the Condition element to restrict which managed instances users can access using Session Manager." Options B and D incorrectly suggest attaching roles or service accounts that are not relevant to user-level access control. Option C (placement groups) pertains to networking and performance, not access management. Therefore, A and E together provide tag-based, least-privilege access as required.

References:^{*} AWS Certified CloudOps Engineer - Associate (SOA-C03) Exam Guide - Domain 4: Security and Compliance^{*}

AWS Systems Manager User Guide - Controlling Access to Session Manager Using Tags^{*} AWS IAM Policy Reference -

Condition Keys for AWS Systems Manager^{*} AWS Well-Architected Framework - Security Pillar

NEW QUESTION # 73

A company hosts a static website in an Amazon S3 bucket, accessed globally via Amazon CloudFront. The Cache-Control max-age header is set to 1 hour, and Maximum TTL is set to 5 minutes. The CloudOps engineer observes that CloudFront is not caching objects for the expected duration.

What is the reason for this issue?

- A. Cache-duration settings conflict with each other.
- B. Cached assets are not expiring in the edge location.
- C. The Expires header has been set to 3 hours.
- D. Cache invalidation is missing in the CloudFront configuration.

Answer: A

Explanation:

As per the AWS Cloud Operations and Content Delivery documentation, CloudFront determines cache behavior by evaluating both origin headers (e.g., Cache-Control and Expires) and distribution-level TTL settings.

When Cache-Control max-age conflicts with the Maximum TTL configured in CloudFront, the shorter TTL value takes precedence. This results in CloudFront caching content for only 5 minutes instead of 1 hour, despite the origin headers suggesting a longer duration.

AWS documentation explicitly states: "When both origin cache headers and CloudFront TTL settings are defined, CloudFront uses the most restrictive caching period." This mismatch causes the perceived performance drop, as CloudFront frequently revalidates content.

Therefore, Option D is correct - cache-duration settings conflict with each other, leading to unexpected caching behavior.

Reference: AWS Cloud Operations & Content Delivery Guide - Interaction Between Cache-Control Headers and CloudFront TTL Settings

NEW QUESTION # 74

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