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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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.
Topic 3	• 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 4	• 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 5	• 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.

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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q82-Q87):

NEW QUESTION # 82
A company's developers manually install software modules on Amazon EC2 instances to deploy new versions of a service. A security audit finds that instances contain inconsistent and unapproved modules.
A CloudOps engineer must create a new instance image that contains only approved software.
Which solution will meet these requirements?

- A. Use EC2 Image Builder to create and test an Amazon Machine Image (AMI) that includes only the approved modules. Update the deployment workflow to use the new AMI.
- B. Use Amazon Detective to continuously find and uninstall unauthorized modules from the instances.
- C. Use Amazon GuardDuty to create and deploy an Amazon Machine Image (AMI) that includes only the approved modules.
- D. Use AWS Systems Manager Run Command to install the approved modules on all running instances during an in-place update.

Answer: A

Explanation:
According to the AWS Cloud Operations and Deployment documentation, EC2 Image Builder is the AWS-managed service for automating the creation, maintenance, validation, and deployment of secure and compliant Amazon Machine Images (AMIs).
It allows CloudOps teams to define image pipelines that include only approved software modules and configuration scripts. EC2 Image Builder automatically tests and verifies these AMIs for compliance before deployment.
This process ensures configuration consistency, eliminates manual installation errors, and simplifies ongoing patch management. The service integrates with AWS Systems Manager, Amazon Inspector, and AWS CloudFormation for end-to-end automation.
In contrast:
* Amazon Detective and GuardDuty (Options A & B) are security monitoring tools, not image management solutions.
* Run Command (Option C) applies ad-hoc updates but does not create standard, reusable AMIs.
Therefore, Option D is correct-EC2 Image Builder provides the most operationally efficient and compliant way to create an approved baseline AMI for future deployments.
Reference: AWS Cloud Operations & Deployment Guide - Building Secure, Consistent AMIs Using EC2 Image Builder

NEW QUESTION # 83

An application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The application takes up to 2 minutes to populate a local cache after the application is started. The application reports as healthy in the target group health check a few seconds after starting.

A CloudOps engineer observes that after some of the instances are rebooted, the instances receive an equal share of the traffic immediately after each instance reports as healthy. The application needs to receive a gradually increasing share of the traffic while the application cache is populated.

Which solution will meet this requirement?

- A. Configure an Amazon CloudWatch alarm to monitor the health check status. Configure the action of the alarm to restart an EC2 instance if a health check fails. Change the loadbalancing.algorithm.type target group attribute to be weighted_random.
- B. Change the HealthCheckTimeoutSeconds paramotor in the target group to 120 seconds. Before rebooting the instances, deregister the instances from the target group. After rebooting the instances, register the instances with the target group.
- C. Create an Amazon EC2 Auto Scaling group. Attach the existing EC2 instances to the Auto Scaling group. Configure an EC2 Auto Scaling lifecycle hook to move starting instances to the Pending Wait state. Update the application to complete the lifecycle hook when the local cache has been populated.
- D. Change the slow_start.duration_seconds target group attribute to 120 seconds. Before rebooting the instances, deregister the instances from the target group. After rebooting the instances, register the instances with the target group.

Answer: D

Explanation:
The slow start feature of an ALB target group (slow_start.duration_seconds) is specifically designed to let new or newly healthy targets ramp up gradually, giving them a smaller, increasing share of traffic over a defined period. Setting it to 120 seconds allows each instance to warm its local cache during that time instead of receiving a full share of requests immediately, which matches the 2-minute cache warm-up requirement.

NEW QUESTION # 84

A company has a workload that is sending log data to Amazon CloudWatch Logs. One of the fields includes a measure of application latency. A CloudOps engineer needs to monitor the p90 statistic of this field over time.
What should the CloudOps engineer do to meet this requirement?

- A. Create an Amazon CloudWatch Contributor Insights rule on the log data.
- B. Create an Amazon CloudWatch Application Insights rule for the workload.
- C. Create a subscription filter on the log data.
- D. Create a metric filter on the log data.

Answer: D

Explanation:
To analyze and visualize custom statistics such as the p90 latency (90th percentile), a CloudWatch metric must be generated from the log data. The correct method is to create a metric filter that extracts the latency value from each log event and publishes it as a CloudWatch metric.
Once the metric is published, percentile statistics (p90, p95, etc.) can be displayed in CloudWatch dashboards or alarms.
"You can use metric filters to extract numerical fields from log events and publish them as metrics in CloudWatch. CloudWatch supports percentile statistics such as p90 and p95 for these metrics." Contributor Insights (Option A) is for analyzing frequent contributors, not numeric distributions.
Subscription filters (Option C) are used for log streaming, and Application Insights (Option D) provides monitoring of application health but not custom p90 statistics. Hence, Option B is the CloudOps-aligned, minimal-overhead solution for percentile latency monitoring.

NEW QUESTION # 85

A CloudOps engineer needs to track the costs of data transfer between AWS Regions. The CloudOps engineer must implement a solution to send alerts to an email distribution list when transfer costs reach 75% of a specific threshold.
What should the CloudOps engineer do to meet these requirements?

- A. Create an AWS Cost and Usage Report. Analyze the results in Amazon Athena. Configure an alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when costs reach
  75% of the threshold. Subscribe the email distribution list to the topic.

- B. Create an Amazon CloudWatch billing alarm to detect when costs reach 75% of the threshold.Configure the alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the email distribution list to the topic.
- C. Set up a VPC flow log. Set up a subscription filter to an AWS Lambda function to analyze data transfer. Configure the Lambda function to send a notification to the email distribution list when costs reach 75% of the threshold.
- D. Use AWS Budgets to create a cost budget for data transfer costs. Set an alert at 75% of the budgeted amount. Configure the budget to send a notification to the email distribution list when costs reach 75% of the threshold.

Answer: D

NEW QUESTION # 86

A company that uses AWS Organizations recently implemented AWS Control Tower. The company now needs to centralize identity management. A CloudOps engineer must federate AWS IAM Identity Center with an external SAML 2.0 identity provider (IdP) to centrally manage access to all AWS accounts and cloud applications.

Which prerequisites must the CloudOps engineer have so that the CloudOps engineer can connect to the external IdP? (Select TWO.)

- A. The IP address of the IdP
- B. A copy of the IAM Identity Center SAML metadata
- C. The IdP metadata, including the public X.509 certificate
- D. Root access to the management account
- E. Administrative permissions to the member accounts of the organization

Answer: B,C

Explanation:
According to the AWS Cloud Operations and Identity Management documentation, when configuring federation between IAM Identity Center (formerly AWS SSO) and an external SAML 2.0 identity provider, two key prerequisites are required:
The IAM Identity Center SAML metadata file - This is uploaded to the external IdP to establish trust, define SAML endpoints, and enable identity federation.
The IdP metadata (including the public X.509 certificate) - This information is imported into IAM Identity Center to validate authentication assertions and encryption signatures.
IAM Identity Center and the IdP exchange this metadata to mutually establish secure, bidirectional federation.
Network-level details such as IP addresses (Option C) are unnecessary. Root access (Option D) or permissions to member accounts (Option E) are not required; only Control Tower or IAM administrative permissions in the management account are needed for setup.
Thus, the correct answer is A and B - the SAML metadata from both sides is required for federation.
Reference: AWS Cloud Operations & Identity Management Guide - Federating IAM Identity Center with an External SAML 2.0 Provider

NEW QUESTION # 87

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