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EXAMS

QUESTIONS & ANSWERS

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Exam: AWS Certified Solutions Architect - Professional SAP-C03
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Question #1 Topic 1

A company runs a microservices architecture on Amazon EKS in three AWS Regions. Each Region hosts 40 or more services that use Application Load Balancers (ALBs) and Amazon SQS queues. The company has noticed latency issues. When these issues occur, the company spends many hours gathering logs, Amazon CloudWatch metrics, and traces from multiple accounts. The company correlates this data before identifying the cause.

The company wants a solution that meets the following requirements:

• Has end-to-end request tracing across all Regions.

• Correlates logs, metrics, and traces in a single view.

• Detects anomalous patterns.

• Alerts the on-call team about anomalous patterns.

• Retains detailed telemetry data for 15 days.

Which combination of steps will meet these requirements with the LEAST operational overhead? (Select THREE.)

Answer choices

A. Deploy the AWS Distro for OpenTelemetry collector as a DaemonSet on each EKS cluster. Configure the collector to export traces to AWS X-Ray and metrics to CloudWatch in each Region. Use CloudWatch cross-account observability to designate a central monitoring account.

B. Install the CloudWatch agent on each EKS node. Configure the agent to send structured JSON logs to a single centralized Amazon CloudWatch Logs log group in the us-east-1 Region. Enable CloudWatch Logs Insights for one-time queries.

C. Enable CloudWatch anomaly detection on the ALB TargetResponseTime and SQS ApproximateAgeOfOldestMessage key latency metrics. Create composite alarms that send notifications to an Amazon SNS topic for the on-call team.

D. Enable Amazon CloudWatch Application Signals on the EKS clusters in each Region to automatically discover services and generate a service map. Configure CloudWatch Synthetics canaries to probe critical API endpoints in all three Regions every 5 minutes. Feed the canary results into the Application Signals dashboard.

E. Use Amazon CloudWatch Logs data protection policies to automatically detect and mask personally identifiable information (PII). Configure a CloudWatch Logs subscription filter to stream logs to Amazon OpenSearch Service. Set the index retention policy to 15 days. Use UltraWarm storage for the 1-year aggregated tier.

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F. Configure Amazon CloudWatch Logs log groups so that each service has a 15-day retention policy. Enable CloudWatch Logs Insights. Use AWS X-Ray trace summaries.

Correct Answer: ACF

Question #2 Topic 1

A company runs an ecommerce website that sells sporting goods. The company deployed the website by using an Application Load Balancer (ALB), Amazon ECS on Amazon EC2 instances that are in an Auto Scaling group, and an Amazon RDS for MySQL database. Both the EC2 instances and the RDS for MySQL database run across multiple Availability Zones.

During sales events, users report experiencing high latency when they search for items. The company observes that CPU utilization for the EC2 instances is 70%. CPU utilization for the RDS for MySQL database is 95%. The company determines that item searches and order creations are the cause of the high database CPU utilization. The company needs to implement a temporary solution to reduce the latency of searches during sales events before the application can be refactored.

Which solution will meet this requirement with the LEAST development effort?

A. Use Amazon CloudFront to cache HTTP query responses. Create one AWS Systems Manager Automation runbook to increase the instance size of the RDS database. Create a second runbook to return the instance size to its previous value. Schedule the first runbook to run one day before sales events. Schedule the second runbook to run the day after sales events.

B. Use Amazon CloudFront to cache HTTP query responses. Schedule the EC2 Auto Scaling group to increase the number of EC2 instances one day before sales events. Schedule the Auto Scaling group to decrease the number of instances to its previous value one day after sales events.

C. Use Amazon ElastiCache to cache database query responses. Refactor the website to use ElastiCache. Schedule the EC2 Auto Scaling group to increase the number of EC2 instances one day before sales events. Schedule the Auto Scaling group to decrease the number of instances to its previous value one day after sales events.

D. Migrate the RDS for MySQL database to Amazon DynamoDB. Use Amazon ElastiCache to cache database query responses. Refactor the website to use DynamoDB and ElastiCache.

Correct Answer: A

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Question #3 Topic 1

A company operates AWS accounts that are organized into production, development, and testing OUs. The infrastructure team must deploy a standardized networking stack across all accounts and multiple AWS Regions. The stack includes VPCs that have centrally defined CIDR ranges, subnets, transit gateway attachments, and security groups. Configuration drift must be detected in stack-managed resources to help ensure compliance.

Development teams need self-service provisioning of application resources that use the networking infrastructure. The development team must not have direct AWS CloudFormation access. New accounts that are added to OUs must automatically receive the networking stack without manual intervention or new IAM roles in member accounts.

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

A. Create a stack set that uses service-managed permissions. Register a delegated administrator account. Enable automatic deployment to the production, development, and testing OUs across the specified Regions. Enable CloudFormation StackSets drift detection on stack-managed resources. Share AWS Service Catalog portfolios at the OU level that include template constraints.

B. Create a stack set that uses self-managed permissions. Provision IAM execution roles in each target account. Enable automatic deployment across all accounts and Regions. Enable CloudFormation StackSets drift detection on stack-managed resources. Create AWS Service Catalog portfolios in the management account. Share the portfolios across OUs.

C. Create a stack set that uses service-managed permissions. Enable automatic deployment at the AWS Organizations root level so that all member accounts are targeted. Create AWS Service Catalog portfolios that are replicated in each member account. Configure the portfolios to include template constraints that enforce CIDR ranges.

D. Create a stack set that uses service-managed permissions by using a manual list of target account IDs. Configure an Amazon EventBridge rule that invokes an AWS Lambda function to add newly created accounts to the stack set. Create AWS Service Catalog portfolios that include template constraints in each account.

Correct Answer: A

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