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Amazon SAP-C02 Exam Syllabus Topics:

Section	Weight	Objectives
		- Resource efficiency 1. Auto Scaling 2. Serverless optimization 3. Managed services
		- Reserved capacity planning 1. Reserved Instances 2. Capacity Reservations 3. Savings Plans
Topic 1: Cost Control	18.5%	- Rightsizing recommendations - Cost optimization strategies 1. AWS Cost Explorer 2. Cost allocation tags 3. Cost categories 4. AWS Budgets - Monitoring and controlling costs 1. Budget alerts 2. Anomaly detection

		- Microservices patterns • 1. Event-driven architecture • 2. Serverless architectures (Lambda) • 3. Containers and ECS/EKS - Cloud Adoption Readiness • 1. Migration strategy assessment • 2. 6 Rs of migration - Network design • 1. Subnet planning • 2. VPC architecture • 3. Security groups and NACLs • 4. Network segmentation - Multi-tier architecture • 1. Application tier • 2. Web tier design • 3. Data tier considerations
Topic 2: Design for New Solutions	31%	- High availability and fault tolerance • 1. Multi-AZ deployments • 2. Disaster recovery strategies • 3. Backup and restore - Cost optimization at design phase • 1. Reserved Instances and Savings Plans • 2. Right-sizing resources • 3. Spot instances - Database migration • 1. Database types and selection • 2. AWS DMS (Database Migration Service) • 3. Schema Conversion Tool (SCT) - Multi-account AWS environments - Cross-account strategies and AWS organizations • 1. Organizational Units (OUs) • 2. AWS Control Tower • 3. Service Control Policies (SCPs)
Topic 3: Design for Organizational Complexity	12.5%	- Networks • 1. AWS Direct Connect • 2. Hybrid DNS architecture • 3. AWS Transit Gateway • 4. VPN connections

Topic 4: Continuous Improvement for Existing Solutions 23%	- Security hardening • 1. Encryption strategies • 2. Security monitoring • 3. Identity and access management - Operational excellence improvements • 1. Infrastructure as Code (CloudFormation, Terraform) • 2. CI/CD pipelines • 3. Monitoring and logging (CloudWatch) - Performance optimization • 1. CDN implementation • 2. Database optimization • 3. Caching strategies (CloudFront, ElastiCache) - Modernization strategies • 1. Re-architecting monolithic applications • 2. Serverless transformation • 3. Containerization - Reviewing existing architectures • 1. AWS Well-Architected Framework • 2. Security pillar • 3. Performance efficiency pillar • 4. Cost optimization pillar • 5. Reliability pillar • 6. Operational excellence pillar - Migration strategies • 1. Rehosting (lift-and-shift) • 2. Replatforming • 3. Refactoring • 4. Repurchasing • 5. Hybrid migration
Topic 5: Migration Planning 15%	- Validation and testing post-migration - Migration tools and services • 1. AWS Transfer Family • 2. AWS Application Migration Service • 3. AWS Server Migration Service • 4. AWS DataSync • 5. AWS Migration Hub - Data migration considerations • 1. Large-scale data transfer • 2. Snow family devices

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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q914-Q919):

NEW QUESTION # 914

A company manages multiple AWS accounts by using AWS Organizations. Under the root OU, the company has two OUs: Research and DataOps.

Because of regulatory requirements, all resources that the company deploys in the organization must reside in the ap-northeast-1 Region. Additionally, EC2 instances that the company deploys in the DataOps OU must use a predefined list of instance types. A solutions architect must implement a solution that applies these restrictions. The solution must maximize operational efficiency and must minimize ongoing maintenance. Which combination of steps will meet these requirements? (Select TWO)

- A. Create an SCP. Use the `ec2:Region` condition key to restrict access to all AWS Regions except ap-northeast-1. Apply the SCP to the root OU, the DataOps OU, and the Research OU.
- B. Create an IAM role in one account under the DataOps OU. Use the `ec2:InstanceType` condition key in an inline policy on the role to restrict access to specific instance types.
- C. Create an SCP. Use the `aws:RequestedRegion` condition key to restrict access to all AWS Regions except ap-northeast-1. Apply the SCP to the root OU.
- D. Create an SCP. Use the `ec2:InstanceType` condition key to restrict access to specific instance types. Apply the SCP to the DataOps OU.
- E. Create an IAM user in all accounts under the root OU. Use the `aws:RequestedRegion` condition key in an inline policy on each user to restrict access to all AWS Regions except ap-northeast-1.

Answer: C,D

NEW QUESTION # 915

A company has an on-premises monitoring solution using a PostgreSQL database for persistence of events.

The database is unable to scale due to heavy ingestion and it frequently runs out of storage.

The company wants to create a hybrid solution and has already set up a VPN connection between its network and AWS. The solution should include the following attributes:

- * Managed AWS services to minimize operational complexity
- * A buffer that automatically scales to match the throughput of data and requires no on-going administration.
- * A visualization tool to create dashboards to observe events in near-real time.
- * Support for semi-structured JSON data and dynamic schemas.

Which combination of components will enable the company to create a monitoring solution that will satisfy these requirements? (Select TWO.)

- A. Use Amazon Kinesis Data Firehose to buffer events. Create an AWS Lambda function to process and transform events.
- B. Configure an Amazon Aurora PostgreSQL DB cluster to receive events. Use Amazon QuickSight to read from the database and create near-real-time visualizations and dashboards.
- C. Configure Amazon Elasticsearch Service (Amazon ES) to receive events. Use the Kibana endpoint deployed with Amazon ES to create near-real-time visualizations and dashboards.
- D. Configure an Amazon Neptune DB instance to receive events. Use Amazon QuickSight to read from the database and create near-real-time visualizations and dashboards.
- E. Create an Amazon Kinesis data stream to buffer events. Create an AWS Lambda function to process and transform events.

Answer: A,C

Explanation:

<https://aws.amazon.com/kinesis/data-firehose/faqs/>

NEW QUESTION # 916

A company hosts an intranet web application on Amazon EC2 instances behind an Application Load Balancer (ALB). Currently, users authenticate to the application against an internal user database.

The company needs to authenticate users to the application by using an existing AWS Directory Service for Microsoft Active Directory directory. All users with accounts in the directory must have access to the application.

Which solution will meet these requirements?

- A. Enable AWS IAM Identity Center (AWS Single Sign-On). Configure the directory as an external identity provider (IdP) that uses SAML. Use the automatic provisioning method. Create a new IAM role that has an entity type of SAML 2.0 federation. Configure a role policy that allows access to the ALB. Attach the new role to all groups. Create a listener rule for the ALB. Specify the authenticate-cognito action for the listener rule.
- B. Create a new app client in the directory. Create a listener rule for the ALB. Specify the authenticate-oidc action for the listener rule. Configure the listener rule with the appropriate issuer, client ID and secret, and endpoint details for the Active Directory service. Configure the new app client with the callback URL that the ALB provides.
- C. Configure an Amazon Cognito user pool. Configure the user pool with a federated identity provider (IdP) that has metadata from the directory. Create an app client. Associate the app client with the user pool. Create a listener rule for the ALB. Specify the authenticate-cognito action for the listener rule. Configure the listener rule to use the user pool and app client.
- D. Add the directory as a new IAM identity provider (IdP). Create a new IAM role that has an entity type of SAML 2.0 federation. Configure a role policy that allows access to the ALB. Configure the new role as the default authenticated user role for the IdP. Create a listener rule for the ALB. Specify the authenticate-oidc action for the listener rule.

Answer: B

Explanation:

The correct solution is to use the authenticate-oidc action for the ALB listener rule and configure it with the details of the AWS Directory Service for Microsoft Active Directory directory. This way, the ALB can use OpenID Connect (OIDC) to authenticate users against the directory and grant them access to the intranet web application. The app client in the directory is used to register the ALB as an OIDC client and provide the necessary credentials and endpoints. The callback URL is the URL that the ALB redirects the user to after a successful authentication. This solution does not require any additional services or roles, and it leverages the existing directory accounts for all users.

The other solutions are incorrect because they either use the wrong action for the ALB listener rule, or they involve unnecessary or incompatible services or roles. For example:

Solution B is incorrect because it uses Amazon Cognito user pool, which is a separate user directory service that does not integrate with AWS Directory Service for Microsoft Active Directory. To use this solution, the company would have to migrate or synchronize their users from the directory to the user pool, which is not required by the question. Moreover, the authenticate-cognito action for the ALB listener rule only works with Amazon Cognito user pools, not with federated identity providers (IdPs) that have metadata from the directory.

Solution C is incorrect because it uses IAM as an identity provider (IdP), which is not compatible with AWS Directory Service for Microsoft Active Directory. IAM can only be used as an IdP for web identity federation, which allows users to sign in with social media or other third-party IdPs, not with Active Directory. Moreover, the authenticate-oidc action for the ALB listener rule requires an OIDC IdP, not a SAML 2.0 federation IdP, which is what IAM provides.

Solution D is incorrect because it uses AWS IAM Identity Center (AWS Single Sign-On), which is a service that simplifies the management of SSO access to multiple AWS accounts and business applications. This service is not needed for the scenario in the question, which only involves a single intranet web application. Moreover, the authenticate-cognito action for the ALB listener rule does not work with external IdPs that use SAML, such as AWS IAM Identity Center.

References:

Authenticate users using an Application Load Balancer

What is AWS Directory Service for Microsoft Active Directory?

Using OpenID Connect for user authentication

NEW QUESTION # 917

A public retail web application uses an Application Load Balancer (ALB) in front of Amazon EC2 instances running across multiple Availability Zones (AZs) in a Region backed by an Amazon RDS MySQL Multi-AZ deployment. Target group health checks are configured to use HTTP and pointed at the product catalog page. Auto Scaling is configured to maintain the web fleet size based on the ALB health check.

Recently, the application experienced an outage. Auto Scaling continuously replaced the instances during the outage. A subsequent investigation determined that the web server metrics were within the normal range, but the database tier was experiencing high load, resulting in severely elevated query response times.

Which of the following changes together would remediate these issues while improving monitoring capabilities for the availability and functionality of the entire application stack for future growth? (Select TWO.)

- A. Configure an Amazon CloudWatch alarm for Amazon RDS with an action to recover a high-load, impaired RDS instance in the database tier.

- B. Configure the target group health check to point at a simple HTML page instead of a product catalog page and the Amazon Route 53 health check against the product page to evaluate full application functionality. Configure Amazon CloudWatch alarms to notify administrators when the site fails.
- C. Configure the target group health check to use a TCP check of the Amazon EC2 web server and the Amazon Route 53 health check against the product page to evaluate full application functionality. Configure Amazon CloudWatch alarms to notify administrators when the site fails.
- D. Configure read replicas for Amazon RDS MySQL and use the single reader endpoint in the web application to reduce the load on the backend database tier.
- E. Configure an Amazon Elasticache cluster and place it between the web application and RDS MySQL instances to reduce the load on the backend database tier.

Answer: D,E

Explanation:

Configuring read replicas for Amazon RDS MySQL and using the single reader endpoint in the web application can significantly reduce the load on the backend database tier, improving overall application performance. Additionally, implementing an Amazon ElastiCache cluster between the web application and RDS MySQL instances can further reduce database load by caching frequently accessed data, thereby enhancing the application's resilience and scalability. These changes address the root cause of the outage by alleviating the database tier's high load and preventing similar issues in the future.

AWS Documentation on Amazon RDS Read Replicas and Amazon ElastiCache provides comprehensive guidance on improving application performance and scalability by offloading read traffic from the primary database and caching common queries. These solutions are in line with AWS best practices for building resilient and scalable web applications.

NEW QUESTION # 918

A company runs an ecommerce website on Amazon ECS behind an Application Load Balancer (ALB). The company stores the container images in Amazon ECR. The website stores data in an Amazon Aurora MySQL DB cluster. The company uses an Amazon S3 bucket to store backup data.

The company needs to prevent data tampering. The website domain is registered with Amazon Route 53. The company wants to recreate the setup in a second AWS Region with an RPO of 5 minutes and an RTO of 15 minutes. The company has created an ALB in the second Region.

Which solution will meet these requirements?

- A. Set up ECR cross-Region replication. Create a new ECS deployment that uses the Fargate launch type. Migrate the DB cluster to an Aurora global database. Create a backup vault in compliance mode and a backup plan in AWS Backup. Enable point-in-time recovery and cross-Region replication for Amazon S3. Set up a Route 53 primary record in the main Region and a secondary record with a failover routing policy.
- B. Create a new ECS deployment that uses the Fargate launch type. Use the ECR repository in the current Region to store and pull container images. Set up a cross-Region read replica in Amazon RDS. Create a backup vault in compliance mode and a backup plan in AWS Backup. Set up a Route 53 primary record in the main Region and a secondary record with a multivalue answer routing policy.
- C. Create a new ECS deployment that uses the Fargate launch type. Use the ECR repository in the current Region to store and pull container images. Set up a cross-Region read replica in Amazon RDS. Set up a Route 53 primary record in the main Region and a secondary record with a failover routing policy.
- D. Set up ECR cross-Region replication. Create a new ECS deployment that uses the Fargate launch type. Migrate the DB cluster to an Aurora global database. Create a backup vault in governance mode and a backup plan in AWS Backup. Set up a Route 53 primary record in the main Region and a secondary record with a geolocation routing policy.

Answer: A

NEW QUESTION # 919

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