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AMAZON PROFESSIONAL AWS SAP C02 EXAM GUIDE

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The web-based AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) practice exam is accessible from any major OS. These Amazon SAP-C02 exam questions are browser-based, so there's no need to install anything on your computer. Chrome, IE, Firefox, and Opera all support this AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) web-based practice exam. You can take this AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) practice exam without plugins and software installation.

Amazon SAP-C02 exam is an advanced certification for IT professionals who want to demonstrate their expertise in designing and deploying scalable, fault-tolerant, and highly available systems on the Amazon Web Services (AWS) platform. SAP-C02 Exam is intended for individuals who have already obtained the AWS Certified Solutions Architect – Associate certification and have at least two years of experience in designing and deploying AWS-based applications.

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Amazon SAP-C02 (AWS Certified Solutions Architect - Professional (SAP-C02)) Certification Exam is a highly sought-after certification for professionals working in the field of cloud computing. AWS Certified Solutions Architect - Professional (SAP-C02) certification is designed to validate the expertise of individuals in various aspects of AWS architecture, including designing, deploying, and operating complex cloud-based solutions. The SAP-C02 exam is the most recent version of the AWS Certified Solutions Architect - Professional certification and includes updated content and new exam objectives.

Candidates preparing for the AWS Certified Solutions Architect - Professional (SAP-C02) exam should have a minimum of two years of experience designing and deploying AWS-based applications. Candidates should also have a deep understanding of AWS services, architecture patterns, and best practices. AWS offers a variety of training courses, practice exams, and hands-on labs to help candidates prepare for the SAP-C02 Exam.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q182-Q187):

NEW QUESTION # 182

A company is planning to migrate its on-premises data analysis application to AWS. The application is hosted across a fleet of servers and requires consistent system time.

The company has established an AWS Direct Connect connection from its on-premises data center to AWS.

The company has a high-precision stratum-0 atomic clock network appliance that acts as an NTP source for all on-premises servers. After the migration to AWS is complete, the clock on all Amazon EC2 instances that host the application must be synchronized with the on-premises atomic clock network appliance.

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

- A. Configure a DHCP options set with the on-premises NTP server address. Assign the options set to the VPC. Ensure that NTP traffic is allowed between AWS and the on-premises networks.
- B. Create a custom AMI to use the Amazon Time Sync Service at 169.254.169.123. Use this AMI for the application. Use AWS Config to audit the NTP configuration.
- C. Deploy a third-party time server from the AWS Marketplace. Configure the time server to synchronize with the on-premises atomic clock network appliance. Ensure that NTP traffic is allowed inbound in the network ACLs for the VPC that contains the third-party server.
- D. Create an IPsec VPN tunnel from the on-premises atomic clock network appliance to the VPC to encrypt the traffic over the Direct Connect connection. Configure the VPC route tables to direct NTP traffic over the tunnel.

Answer: B

NEW QUESTION # 183

A company has a serverless multi-tenant content management system on AWS. The architecture contains a web-based front end that interacts with an Amazon API Gateway API that uses a custom AWS Lambda authorizer. The authorizer authenticates a user to its tenant ID and encodes the information in a JSON Web Token (JWT) token. After authentication, each API call through API Gateway targets a Lambda function that interacts with a single Amazon DynamoDB table to fulfill requests.

To comply with security standards, the company needs a stronger isolation between tenants. The company will have hundreds of customers within the first year.

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

- A. Add tenant ID information to the partition key of the DynamoDB table. Create a service that uses the JWT token to retrieve the appropriate Lambda execution role that is tenant-specific. Attach IAM policies to the execution role to allow access to items in the table only when the key matches the tenant ID.
- B. Create a separate AWS account for each tenant of the application. Use dedicated infrastructure for each tenant. Ensure that no cross-account network connectivity exists.
- C. Add tenant ID as a sort key in every DynamoDB table. Add logic to each Lambda function to use the tenant ID that comes from the JWT token as the sort key in every operation on the DynamoDB table.
- D. Create a DynamoDB table for each tenant by using the tenant ID in the table name. Create a service that uses the JWT token to retrieve the appropriate Lambda execution role that is tenant-specific. Attach IAM policies to the execution role to allow access only to the DynamoDB table for the tenant.

Answer: A

NEW QUESTION # 184

A solutions architect is designing an application to accept timesheet entries from employees on their mobile devices. Timesheets will be submitted weekly, with most of the submissions occurring on Friday. The data must be stored in a format that allows payroll administrators to run monthly reports. The infrastructure must be highly available and scale to match the rate of incoming data and reporting requests.

Which combination of steps meets these requirements while minimizing operational overhead? (Select TWO)

- A. Deploy the application in a container using Amazon Elastic Container Service (Amazon ECS) with load balancing across multiple Availability Zones. Use scheduled Service Auto Scaling to add capacity before the high volume of submissions on Fridays.
- B. Store the timesheet submission data in Amazon Redshift. Use Amazon QuickSight to generate the reports using Amazon Redshift as the data source.

- C. Store the timesheet submission data in Amazon S3. Use Amazon Athena and Amazon QuickSight to generate the reports using Amazon S3 as the data source.
- D. Deploy the application to Amazon EC2 On-Demand Instances with load balancing across multiple Availability Zones. Use scheduled Amazon EC2 Auto Scaling to add capacity before the high volume of submissions on Fridays
- E. Deploy the application front end to an Amazon S3 bucket served by Amazon CloudFront Deploy the application backend using Amazon API Gateway with an AWS Lambda proxy integration

Answer: C,E

Explanation:

<https://aws.amazon.com/blogs/architecture/create-dynamic-contact-forms-for-s3-static-websites-using-aws-lamb>

NEW QUESTION # 185

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

Explanation:

https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-requested-region.html

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_examples_ec2.html

NEW QUESTION # 186

A greeting card company recently advertised that customers could send cards to their favourite celebrities through the company's platform Since the advertisement was published, the platform has received constant traffic from 10,000 unique users each second. The platform runs on m5.xlarge Amazon EC2 instances behind an Application Load Balancer (ALB) The instances run in an Auto Scaling group and use a custom AMI that is based on Amazon Linux. The platform uses a highly available Amazon Aurora MySQL DB cluster that uses primary and reader endpoints The platform also uses an Amazon ElastiCache for Redis cluster that uses its cluster endpoint The platform generates a new process for each customer and holds open database connections to MySQL for the duration of each customer's session However, resource usage for the platform is low.

Many customers are reporting errors when they connect to the platform Logs show that connections to the Aurora database are failing Amazon CloudWatch metrics show that the CPU load is low across the platform and that connections to the platform are successful through the ALB.

Which solution will remediate the errors MOST cost-effectively?

- A. Increase the number of reader nodes in the Aurora MySQL cluster
- B. Set up an Amazon CloudFront distribution Set the ALB as the origin Move all customer traffic to the CloudFront distribution endpoint
- C. Increase the number of nodes in the ElastiCache for Redis cluster
- D. Use Amazon RDS Proxy Reconfigure the database connections to use the proxy

Answer: D

Explanation:

