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Amazon SAP-C02 exam is a professional level certification that tests the skills and expertise of an individual in designing and deploying AWS solutions. AWS Certified Solutions Architect - Professional (SAP-C02) certification is designed for professionals who are already certified as AWS Certified Solutions Architect – Associate and have hands-on experience in designing and deploying scalable, fault-tolerant, and highly available systems on AWS.

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 SAP-C02 certification exam is designed to test the skills and knowledge of professionals who are seeking advanced-level certification as an AWS Solutions Architect. AWS Certified Solutions Architect - Professional (SAP-C02) certification is ideal for those who have already obtained the AWS Certified Solutions Architect - Associate certification and want to take their expertise to the next level. The SAP-C02 exam is designed to test candidates on their ability to design and deploy highly scalable, fault-tolerant, and secure applications on AWS.

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## Pass Guaranteed Quiz Amazon - Efficient SAP-C02 - New AWS Certified Solutions Architect - Professional (SAP-C02) Test Forum

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## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q490-Q495):

### NEW QUESTION # 490

A company is running a compute workload by using Amazon EC2 Spot Instances that are in an Auto Scaling group. The launch template uses two placement groups and a single instance type. Recently, a monitoring system reported Auto Scaling instance launch failures that correlated with longer wait times for system users. The company needs to improve the overall reliability of the workload. Which solution will meet this requirement?

- A. Replace the launch template with a launch configuration to use an Auto Scaling group that uses attribute-based instance type selection.
- B. Update the launch template Auto Scaling group to increase the number of placement groups.
- C. Create a new launch template version that uses attribute-based instance type selection. Configure the Auto Scaling group to use the new launch template version.
- D. Update the launch template to use a larger instance type.

**Answer: C**

Explanation:

Explanation

<https://docs.aws.amazon.com/autoscaling/ec2/userguide/create-asg-instance-type-requirements.html#use-attribut>

### NEW QUESTION # 491

A company wants to migrate to AWS. The company wants to use a multi-account structure with centrally managed access to all accounts and applications. The company also wants to keep the traffic on a private network. Multi-factor authentication (MFA) is required at login, and specific roles are assigned to user groups.

The company must create separate accounts for development, staging, production, and shared network. The production account and the shared network account must have connectivity to all accounts. The development account and the staging account must have access only to each other.

Which combination of steps should a solutions architect take to meet these requirements? (Choose three.)

- A. Enable AWS Security Hub in all accounts to manage cross-account access. Collect findings through AWS CloudTrail to force MFA login.
- B. Create IAM users and groups. Configure MFA for all users. Set up Amazon Cognito user pools and identity pools to manage access to accounts and between accounts.
- C. Enable AWS Control Tower in all accounts to manage routing between accounts. Collect findings through AWS CloudTrail to force MFA login.
- D. Set up and enable AWS IAM Identity Center (AWS Single Sign-On). Create appropriate permission sets with required MFA for existing accounts.
- E. Deploy a landing zone environment by using AWS Control Tower. Enroll accounts and invite existing accounts into the resulting organization in AWS Organizations.
- F. Create transit gateways and transit gateway VPC attachments in each account. Configure appropriate route tables.

**Answer: D,E,F**

Explanation:

Explanation

The correct answer would be options A, C and D, because they address the requirements outlined in the question. A. Deploying a landing zone environment using AWS Control Tower and enrolling accounts in an organization in AWS Organizations allows for a centralized management of access to all accounts and applications. C. Creating transit gateways and transit gateway VPC attachments in each account and configuring appropriate route tables allows for private network traffic, and ensures that the production account and shared network account have connectivity to all accounts, while the development and staging accounts have access only to each other. D. Setting up and enabling AWS IAM Identity Center (AWS Single Sign-On) and creating appropriate permission sets with required MFA for existing accounts allows for multi-factor authentication at login and specific roles to be

assigned to user groups.

### NEW QUESTION # 492

A company ingests and processes streaming market data. The data rate is constant. A nightly process that calculates aggregate statistics takes 4 hours to complete. The statistical analysis is not critical to the business, and data points are processed during the next iteration if a particular run fails.

The current architecture uses a pool of Amazon EC2 Reserved Instances with 1-year reservations. These EC2 instances run full time to ingest and store the streaming data in attached Amazon EBS volumes. A scheduled script launches EC2 On-Demand Instances each night to perform the nightly processing. The instances access the stored data from NFS shares on the ingestion servers. The script terminates the instances when the processing is complete.

The Reserved Instance reservations are expiring. The company needs to determine whether to purchase new reservations or implement a new design.

Which solution will meet these requirements MOST cost-effectively?

- A. Update the ingestion process to use a fleet of EC2 Reserved Instances with 3-year reservations behind a Network Load Balancer. Use AWS Batch with Spot Instances to perform nightly processing with a maximum Spot price that is 50% of the On-Demand price.
- B. Update the ingestion process to use Amazon Data Firehose to save data to Amazon S3. Use a scheduled script to launch a fleet of EC2 On-Demand Instances each night to perform the batch processing of the S3 data. Configure the script to terminate the instances when the processing is complete.
- C. Update the ingestion process to use Amazon Data Firehose to save data to Amazon S3. Use AWS Batch with Spot Instances to perform nightly processing with a maximum Spot price that is 50% of the On-Demand price.
- D. Update the ingestion process to use Amazon Data Firehose to save data to Amazon Redshift. Use Amazon EventBridge to schedule an AWS Lambda function to run nightly to query Amazon Redshift to generate the daily statistics.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation:

This question is mainly about cost optimization for two different workload patterns:

A constant-rate ingestion workload

A noncritical nightly batch analytics workload that can tolerate interruption or rerun. The most cost-effective architecture is to decouple storage from the ingestion servers, store the incoming data in Amazon S3, and run the nightly calculations by using AWS Batch on Spot Instances.

Why B is correct

Amazon Data Firehose can continuously ingest streaming data and deliver the data to Amazon S3. Because the data rate is constant, the company does not need to keep a fleet of EC2 instances running just to collect and retain data on attached EBS volumes. Using S3 as durable storage is operationally simpler and generally more cost-effective than maintaining long-running EC2 ingestion servers with EBS-based storage for this type of streaming landing zone.

For the nightly processing, the job is:

batch oriented,

takes only 4 hours,

not critical to the business,

acceptable to rerun later if interrupted.

These characteristics make Spot Instances an ideal fit. AWS Batch is specifically designed to run batch computing workloads and can efficiently provision and manage compute resources, including Spot Instances.

Since the job can tolerate interruption, Spot capacity provides the lowest-cost compute option.

This option reduces cost in both major areas:

storage and ingestion are moved to managed services and object storage, nightly compute moves from On-Demand Instances to Spot-based batch processing.

Why A is incorrect

A improves the design by moving ingestion to Data Firehose and storage to S3, which is a good step.

However, it still uses EC2 On-Demand Instances for nightly processing. Because the nightly workload is not business-critical and can tolerate failure, Spot Instances are a better fit and more cost-effective than On-Demand Instances. Therefore, A is not the most cost-effective choice.

Why C is incorrect

This option keeps ingestion on a fleet of EC2 Reserved Instances with 3-year reservations behind a Network Load Balancer. That is not the most economical or simplest design for constant ingestion when a managed ingestion service such as Data Firehose can deliver directly to S3.

Also, a Network Load Balancer does not add meaningful value for the ingestion requirement described here.

The issue is not distributing interactive network traffic to an application fleet. The better architecture is to use a managed data ingestion service instead of recommitting to long-term EC2 reservations.

While AWS Batch with Spot Instances is good for the nightly analytics portion, the ingestion side of this option is still more expensive and less efficient than B.

Why D is incorrect

Amazon Redshift is a data warehouse and is useful for analytical querying, but this option is not the most cost-effective for the stated use case. The company needs to ingest constant-rate streaming market data and run a nightly aggregate job. Storing all incoming data in Redshift is generally a more specialized and potentially more expensive architecture than landing the raw stream in S3 and running elastic batch processing on demand.

The Lambda part is also problematic. The batch processing currently takes 4 hours. AWS Lambda is not designed for long-running heavy batch jobs of this kind. Even if the aggregate query could be expressed in SQL, the answer is still not the most cost-effective and does not align as well with the workload pattern as S3 plus AWS Batch on Spot Instances.

Key design principles being tested

This question tests whether you can identify:

S3 as low-cost, durable storage for incoming streamed data

Managed ingestion services instead of self-managed EC2 ingestion servers Spot Instances for interruptible, fault-tolerant batch jobs

AWS Batch as the managed orchestration service for batch workloads Final justification The most cost-effective redesign is to:

ingest the streaming data with Amazon Data Firehose,

store the data in Amazon S3,

run nightly analytics through AWS Batch on Spot Instances.

That makes B the best answer.

References:

AWS Certified Solutions Architect - Professional (SAP-C02) Exam Guide

Amazon Data Firehose documentation

Amazon S3 documentation

AWS Batch documentation

Amazon EC2 Spot Instances documentation

AWS Certified Solutions Architect - Professional Official Study Guide

### NEW QUESTION # 493

A company is migrating its data centre from on premises to the AWS Cloud. The migration will take several months to complete.

The company will use Amazon Route 53 for private DNS zones.

During the migration, the company must Keep its AWS services pointed at the VPC's Route 53 Resolver for DNS. The company also must maintain the ability to resolve addresses from its on-premises DNS server A solutions architect must set up DNS so that Amazon EC2 instances can use native Route 53 endpoints to resolve on-premises DNS queries Which configuration will meet these requirements?

- A. Configure VPC DHCP options set to point to on-premises DNS server IP addresses. Ensure that security groups for EC2 instances allow outbound access to port 53 on those DNS server IP addresses.
- B. Create a new private DNS zone in Route 53 with the same domain name as the on-premises domain. Create a single wildcard record with the on-premises DNS server IP address as the record's address.
- C. Create a new outbound endpoint in Route 53, and attach the endpoint to the VPC. Ensure that the security groups that are attached to the endpoint can access the on-premises DNS server IP address on port 53 Create a new Route 53 Resolver rule that routes on-premises designated traffic to the on-premises DNS server.
- D. Launch an EC2 instance that has DNS BIND installed and configured. Ensure that the security groups that are attached to the EC2 instance can access the on-premises DNS server IP address on port 53. Configure BIND to forward DNS queries to on-premises DNS server IP addresses Configure each migrated EC2 instances DNS settings to point to the BIND server IP address.

**Answer: A**

### NEW QUESTION # 494

A company has an on-premises website application that provides real estate information for potential renters and buyers. The website uses a Java backend and a NOSQL MongoDB database to store subscriber data.

The company needs to migrate the entire application to AWS with a similar structure. The application must be deployed for high availability, and the company cannot make changes to the application Which solution will meet these requirements?

- A. Configure Amazon DocumentDB (with MongoDB compatibility) in on-demand capacity mode in multiple Availability

Zones as the database for the subscriber data. Deploy Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones for the Java backend application.

- B. Use MongoDB on Amazon EC2 instances as the database for the subscriber data. Deploy EC2 instances in an Auto Scaling group in a single Availability Zone for the Java backend application.
- C. Configure Amazon DocumentDB (with MongoDB compatibility) with appropriately sized instances in multiple Availability Zones as the database for the subscriber data. Deploy Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones for the Java backend application.
- D. use an Amazon Aurora DB cluster as the database for the subscriber data. Deploy Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones for the Java backend application.

**Answer: C**

Explanation:

Explanation

On-demand capacity mode is the function of Dynamodb.

<https://aws.amazon.com/blogs/news/running-spiky-workloads-and-optimizing-costs-by-more-than-90-using-ama> Amazon DocumentDB Elastic Clusters

<https://aws.amazon.com/blogs/news/announcing-amazon-documentdb-elastic-clusters/> Deploy Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones for the Java backend application. This will provide high availability and scalability, while allowing the company to retain the same database structure as the original application.

## NEW QUESTION # 495

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