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Amazon CLF-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Cloud Technology and Services: Describe ways to access AWS services in AWS Cloud and explore connectivity options. It deals with defining the global infrastructure of AWS, computing services, and network services.
Topic 2	<ul style="list-style-type: none">Billing, Pricing, and Support: This section contrasts pricing methods and budgeting resources management. It also tests understanding of billing methods, identifying support options, and technical resources.
Topic 3	<ul style="list-style-type: none">Cloud Concepts: This section involves knowledge of value proposition and exploring design rules of AWS. It covers the advantages of techniques for moving over to AWS cloud and developing a good understanding of cloud economics.
Topic 4	<ul style="list-style-type: none">Security and Compliance: This section involves understanding the shared responsibility framework of AWS in addition to compliance and governance. It also involves exploring the management capabilities of AWS by exploring its security capabilities.

Amazon AWS Certified Cloud Practitioner Sample Questions (Q416-Q421):

NEW QUESTION # 416

A company needs to migrate a PostgreSQL database from on-premises to Amazon RDS. Which AWS service or tool should the company use to meet this requirement?

- A. AWS Migration Hub
- B. Cloud Adoption Readiness Tool
- C. AWS Application Migration Service
- D. AWS Database Migration Service (AWS DMS)

Answer: D

Explanation:

AWS Database Migration Service (AWS DMS) is a managed and automated service that helps you migrate your databases from your on-premises or cloud environment to AWS, either as a one-time migration or as a continuous replication. AWS DMS supports migration between 20-plus database and analytics engines, such as PostgreSQL, Oracle, MySQL, SQL Server, MongoDB, Amazon Aurora, Amazon RDS, Amazon Redshift, and Amazon S3. AWS DMS also provides schema conversion and validation tools, as well as monitoring and security features. AWS DMS is a cost-effective and reliable solution for database migration, as you only pay for the compute resources and additional log storage used during the migration process, and you can minimize the downtime and data loss with Multi-AZ and ongoing replication¹2 To migrate a PostgreSQL database from on-premises to Amazon RDS using AWS DMS, you need to perform the following steps:

* Create an AWS DMS replication instance in the same AWS Region as your target Amazon RDS PostgreSQL DB instance. The replication instance is a server that runs the AWS DMS replication software and connects to your source and target endpoints. You can choose the instance type, storage, and network settings based on your migration requirements³

* Create a source endpoint that points to your on-premises PostgreSQL database. You need to provide the connection details, such as the server name, port, database name, user name, and password. You also need to specify the engine name as postgres and the SSL mode as required⁴

* Create a target endpoint that points to your Amazon RDS PostgreSQL DB instance. You need to provide the connection details, such as the server name, port, database name, user name, and password.

You also need to specify the engine name as postgres and the SSL mode as verify-full.

* Create a migration task that defines the migration settings and options, such as the replication instance, the source and target endpoints, the migration type (full load, full load and change data capture, or change data capture only), the table mappings, the task settings, and the task monitoring role. You can also use the AWS Schema Conversion Tool (AWS SCT) to convert your source schema to the target schema and apply it to the target endpoint before or after creating the migration task.

* Start the migration task and monitor its progress and status using the AWS DMS console, the AWS CLI, or the AWS DMS API. You can also use AWS CloudFormation to automate the creation and execution of the migration task.

The other options are not suitable for migrating a PostgreSQL database from on-premises to Amazon RDS.

Cloud Adoption Readiness Tool is a tool that helps you assess your readiness for cloud adoption based on six dimensions: business, people, process, platform, operations, and security. It does not perform any database migration tasks. AWS Migration Hub is a service that helps you track and manage the progress of your application migrations across multiple AWS and partner services, such as AWS DMS, AWS Application Migration Service, AWS Server Migration Service, and CloudEndure Migration. It does not perform any database migration tasks itself, but rather integrates with other migration services. AWS Application Migration Service is a service that helps you migrate your applications from your on-premises or cloud environment to AWS without making any changes to the applications, their architecture, or the migrated servers. It does not support database migration, but rather replicates your servers as Amazon Machine Images (AMIs) and launches them as EC2 instances on AWS.

References: AWS Database Migration Service, What is AWS Database Migration Service?, Working with an AWS DMS replication instance, Creating source and target endpoints for PostgreSQL, [Creating a target endpoint for Amazon RDS for PostgreSQL], [Creating a migration task for AWS DMS], [AWS Schema Conversion Tool], [Starting a migration task for AWS DMS], [AWS CloudFormation], [Cloud Adoption Readiness Tool], [AWS Migration Hub], [AWS Application Migration Service]

NEW QUESTION # 417

Which option is a benefit of the economies of scale based on the advantages of cloud computing?

- A. Increased speed and agility
- B. Lower variable costs over fixed costs
- C. Increased operational costs across data centers
- D. The ability to trade variable expense for fixed expense

Answer: A

Explanation:

Economies of scale are the cost advantages that result from increasing the scale of production or operation. In cloud computing, economies of scale are achieved by pooling resources and sharing them among multiple users, which reduces the unit cost of computing and storage. One of the benefits of economies of scale in cloud computing is increased speed and agility, which means the ability to deploy applications faster and respond to changing business needs more quickly. Cloud computing allows users to access computing resources on demand, without having to invest in expensive infrastructure or wait for lengthy provisioning processes. This enables users to scale up or down as needed, experiment with new ideas, and deliver value to customers faster¹²³. References:

* Economics of Cloud Computing - GeeksforGeeks

* What is Cloud Economics? | VMware Glossary

* ECONOMIES OF SCALE WITH CLOUD COMPUTING & SERVICES PRACTICE - IDC-Online

NEW QUESTION # 418

Which AWS Well-Architected Framework pillar focuses on structured and streamlined allocation of computing resources?

- A. Sustainability
- B. Operational excellence
- C. Reliability
- D. Performance efficiency

Answer: D

Explanation:

* Understanding Performance Efficiency: This pillar of the AWS Well-Architected Framework focuses on using computing resources efficiently to meet system requirements and maintain that efficiency as demand changes and technologies evolve.

* Key Aspects of Performance Efficiency:

* Selection: Choose the right resources for the job. This includes using the most appropriate instance types, storage options, and database services.

* Review: Regularly review your architecture to take advantage of the latest AWS services and features, and to ensure you're using the best possible resource for your needs.

* Monitoring: Continuously monitor your system performance, gather metrics, and use those metrics to make informed decisions about scaling and performance optimization.

* Trade-offs: Understand the trade-offs between various performance-related aspects, such as cost, latency, and durability, and make decisions that align with your business goals.

* How to Implement Performance Efficiency:

* Use Auto Scaling: Implement Auto Scaling to automatically adjust the number of resources based on the demand.

- * Choose Appropriate Storage Options: Select the right storage solution (e.g., S3, EBS, or EFS) based on performance and access patterns.
- * Optimize Networking: Utilize Amazon CloudFront, AWS Global Accelerator, and VPC to optimize your network performance.
- * Regular Review and Testing: Regularly review your architecture, test performance under various loads, and adjust configurations as needed.

References:

- * AWS Well-Architected Framework
- * Performance Efficiency Pillar

NEW QUESTION # 419

Which of the following is a pillar of the AWS Well-Architected Framework?

- A. Availability
- B. Multi-Region
- C. Redundancy
- D. Operational excellence

Answer: D

Explanation:

The AWS Well-Architected Framework helps cloud architects build secure, high-performing, resilient, and efficient infrastructure for their applications and workloads. Based on five pillars - operational excellence, security, reliability, performance efficiency, and cost optimization - the Framework provides a consistent approach for customers and partners to evaluate architectures, and implement designs that can scale over time.

Operational excellence is one of the pillars of the Framework, and it focuses on running and monitoring systems to deliver business value, and continually improving processes and procedures.

NEW QUESTION # 420

Which services can be used to deploy applications on AWS? (Select TWO.)

- A. AWS Elastic Beanstalk
- B. Amazon Kinesis
- C. AWS Config
- D. AWS OpsWorks
- Q D. AWS Application Discovery Service

Answer: A,D

Explanation:

The services that can be used to deploy applications on AWS are:

* AWS Elastic Beanstalk. This is a service that simplifies the deployment and management of web applications on AWS. Users can upload their application code and Elastic Beanstalk automatically handles the provisioning, scaling, load balancing, monitoring, and health checking of the resources needed to run the application. Users can also retain full control and access to the underlying resources and customize their configuration settings. Elastic Beanstalk supports multiple platforms, such as Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker. [AWS Elastic Beanstalk Overview] AWS Certified Cloud Practitioner - aws.amazon.com

* AWS OpsWorks. This is a service that provides configuration management and automation for AWS resources. Users can define the application architecture and the configuration of each resource using Chef or Puppet, which are popular open-source automation platforms. OpsWorks then automatically creates and configures the resources according to the user's specifications. OpsWorks also provides features such as auto scaling, monitoring, and integration with other AWS services. OpsWorks has two offerings: OpsWorks for Chef Automate and OpsWorks for Puppet Enterprise. [AWS OpsWorks Overview] AWS Certified Cloud Practitioner - aws.amazon.com

NEW QUESTION # 421

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