



Amazon-Web-Services

Exam Questions CLF-C01

AWS Certified Cloud Practitioner

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NEW QUESTION 1

- (Topic 3)

For which AWS service is the customer responsible for maintaining the underlying operating system?

- A. Amazon DynamoDB
- B. Amazon S3
- C. Amazon EC2
- D. AWS Lambda

Answer: C

Explanation:

Amazon EC2 is a service that provides resizable compute capacity in the cloud. Users can launch and manage virtual servers, known as instances, that run on the AWS infrastructure. Users are responsible for maintaining the underlying operating system of the instances, as well as any applications or software that run on them. Amazon DynamoDB is a service that provides a fully managed NoSQL database that delivers fast and consistent performance at any scale. Users do not need to manage the underlying operating system or the database software. Amazon S3 is a service that provides scalable and durable object storage in the cloud. Users do not need to manage the underlying operating system or the storage infrastructure. AWS Lambda is a service that allows users to run code without provisioning or managing servers. Users only need to upload their code and configure the triggers and parameters. AWS Lambda takes care of the underlying operating system and the execution environment.

NEW QUESTION 2

- (Topic 3)

Which abilities are benefits of the AWS Cloud? (Select TWO.)

- A. Trade variable expenses for capital expenses.
- B. Deploy globally in minutes.
- C. Plan capacity in advance of deployments.
- D. Take advantage of economies of scale.
- E. Reduce dependencies on network connectivity.

Answer: AB

Explanation:

The AWS Cloud offers many benefits, such as:

? Trade variable expenses for capital expenses: You can pay only for the resources you use, instead of investing in fixed costs upfront. This reduces the risk and complexity of planning and managing your IT infrastructure⁴

? Deploy globally in minutes: You can leverage the global infrastructure of AWS to deploy your applications and data in multiple regions and availability zones. This enables you to reach your customers faster, improve performance, and increase reliability⁵

NEW QUESTION 3

- (Topic 3)

A company has all of its servers in the us-east-1 Region. The company is considering the deployment of additional servers different Region.

Which AWS tool should the company use to find pricing information for other Regions?

- A. Cost Explorer
- B. AWS Budgets
- C. AWS Purchase Order Management
- D. AWS Pricing Calculator

Answer: D

Explanation:

AWS Pricing Calculator lets customers explore AWS services, and create an estimate for the cost of their use cases on AWS. AWS Pricing Calculator can also compare the costs of different AWS Regions and configurations. Cost Explorer is a tool that enables customers to visualize, understand, and manage their AWS costs and usage over time.

AWS Budgets gives customers the ability to set custom budgets that alert them when their costs or usage exceed (or are forecasted to exceed) their budgeted amount. AWS Purchase Order Management is a feature that allows customers to pay for their AWS invoices using purchase orders.

NEW QUESTION 4

- (Topic 3)

A company wants high levels of detection and near-real-time (NRT) mitigation against large and sophisticated distributed denial of service (DDoS) attacks on applications running on AWS.

Which AWS service should the company use?

- A. Amazon GuardDuty
- B. Amazon Inspector
- C. AWS Shield Advanced
- D. Amazon Macie

Answer: C

Explanation:

AWS Shield Advanced is a service that provides high levels of detection and near-real-time (NRT) mitigation against large and sophisticated distributed denial of service (DDoS) attacks on applications running on AWS. AWS Shield Advanced also provides you with 24x7 access to the AWS DDoS Response Team (DRT) and protection against DDoS attacks of any size or duration¹. Amazon GuardDuty is a service that provides threat detection for your AWS accounts and workloads, but it does not offer DDoS protection³. Amazon Inspector is a service that helps you improve the security and compliance of your applications deployed on AWS by automatically assessing them for vulnerabilities and deviations from best practices. Amazon Macie is a service that uses machine learning and pattern matching to discover and protect your sensitive data in AWS.

NEW QUESTION 5

- (Topic 3)

A company uses AWS Organizations. The company wants to apply security best practices from the AWS Well-Architected Framework to all of its AWS accounts. Which AWS service will meet these requirements?

- A. Amazon Macie
- B. Amazon Detective
- C. AWS Control Tower
- D. AWS Secrets Manager

Answer: C

Explanation:

AWS Control Tower is the easiest way to set up and govern a secure, multi-account AWS environment based on best practices established through AWS's experience working with thousands of enterprises as they move to the cloud. With AWS Control Tower, builders can provision new AWS accounts in a few clicks, while you have peace of mind knowing your accounts conform to your organization's policies. AWS Control Tower automates the setup of a baseline environment, or landing zone, that is a secure, well-architected multi-account AWS environment¹. AWS Control Tower helps you apply security best practices from the AWS Well-Architected Framework to all of your AWS accounts².

NEW QUESTION 6

- (Topic 3)

A company is running its application in the AWS Cloud and wants to protect against a DDoS attack. The company's security team wants near real-time visibility into DDoS attacks.

Which AWS service or traffic filter will meet these requirements with the MOST features for DDoS protection?

- A. AWS Shield Advanced
- B. AWS Shield
- C. Amazon GuardDuty
- D. Network ACLs

Answer: A

Explanation:

AWS Shield Advanced is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield Advanced provides you with 24x7 access to the AWS DDoS Response Team (DRT) and protection against DDoS attacks of any size or duration. AWS Shield Advanced also provides near real-time visibility into attacks, advanced attack mitigation capabilities, and integration with AWS WAF and AWS Firewall Manager¹. AWS Shield is a standard service that provides always-on detection and automatic inline mitigations to minimize application downtime and latency, but it does not offer the same level of features and support as AWS Shield Advanced². Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior, but it does not provide DDoS protection³. Network ACLs are stateless filters that can be associated with a subnet to control the traffic to and from the subnet, but they are not designed to protect against DDoS attacks

NEW QUESTION 7

- (Topic 3)

A company is planning to migrate to the AWS Cloud and wants to become more responsive to customer inquiries and feedback. The company wants to focus on organizational transformation.

A company wants to give its customers the ability to view specific data that is hosted in Amazon S3 buckets. The company wants to keep control over the full datasets that the company shares with the customers.

Which S3 feature will meet these requirements?

- A. S3 Storage Lens
- B. S3 Cross-Region Replication (CRR)
- C. S3 Versioning
- D. S3 Access Points

Answer: D

Explanation:

S3 Access Points are a feature of Amazon S3 that allows you to easily manage access to specific data that is hosted in S3 buckets. S3 Access Points are unique hostnames that customers can use to access data in S3 buckets. You can create multiple access points for a single bucket, each with its own name and permissions. You can use S3 Access Points to provide different levels of access to different groups of customers, such as read-only or write-only access. You can also use S3 Access Points to enforce encryption or logging requirements for specific data. S3 Access Points help you keep control over the full datasets that you share with your customers, while simplifying the access management and improving the performance and scalability of your applications.

NEW QUESTION 8

- (Topic 3)

A cloud practitioner needs to obtain AWS compliance reports before migrating an environment to the AWS Cloud How can these reports be generated?

- A. Contact the AWS Compliance team
- B. Download the reports from AWS Artifact
- C. Open a case with AWS Support
- D. Generate the reports with Amazon Made

Answer: B

Explanation:

AWS Artifact is a service that provides on-demand access to security and compliance reports from AWS and Independent Software Vendors (ISVs) who sell their products on AWS Marketplace. You can use AWS Artifact to download auditor-issued reports, certifications, accreditations, and other third-party attestations of AWS compliance with various standards and regulations, such as PCI-DSS, HIPAA, FedRAMP, GDPR, and more¹²³⁴. You can also use AWS Artifact to review,

accept, and manage your agreements with AWS and apply them to current and future accounts within your organization². References: 1: Cloud Compliance - Amazon Web Services (AWS), 2: Security Compliance Management - AWS Artifact - AWS, 3: AWS Compliance Contact Us - Amazon Web Services, 4: AWS SECURITY AND COMPLIANCE QUICK REFERENCE GUIDE

NEW QUESTION 9

- (Topic 3)

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

Answer: C

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 10

- (Topic 3)

Which AWS service or feature offers security for a VPC by acting as a firewall to control traffic in and out of subnets?

- A. AWS Security Hub
- B. Security groups
- C. Network ACL
- D. AWSWAF

Answer: C

Explanation:

A network access control list (network ACL) is a feature that acts as a firewall for controlling traffic in and out of one or more subnets in a virtual private cloud (VPC). AWS Security Hub is a service that provides a comprehensive view of the security posture of AWS accounts and resources. Security groups are features that act as firewalls for controlling traffic at the instance level. AWS WAF is a web application firewall that helps protect web applications from common web exploits.

NEW QUESTION 10

- (Topic 3)

Which AWS service or feature allows a user to establish a dedicated network connection between a company's on-premises data center and the AWS Cloud?

- A. AWS Direct Connect
- B. VPC peering
- C. AWS VPN
- D. Amazon Route 53

Answer: A

Explanation:

AWS Direct Connect is an AWS service that allows users to establish a dedicated network connection between their on-premises data center and the AWS Cloud. This connection bypasses the public internet and provides more predictable network performance, reduced bandwidth costs, and increased security. Users can choose from different port speeds and connection types, and use AWS Direct Connect to access AWS services in any AWS Region globally. Users can also use AWS Direct Connect in conjunction with AWS VPN to create a hybrid network architecture that combines the benefits of both private and public connectivity. References: AWS Direct Connect, [AWS Cloud Practitioner Essentials: Module 3 - Compute in the Cloud]

NEW QUESTION 15

- (Topic 3)

Which tasks are the responsibility of the customer, according to the AWS shared responsibility model? (Select TWO.)

- A. Patch the Amazon RDS operating system.
- B. Upgrade the firmware of the network infrastructure.
- C. Manage data encryption.
- D. Maintain physical access control in an AWS Region.
- E. Grant least privilege access to IAM users.

Answer: CE

Explanation:

According to the AWS shared responsibility model, the customer is responsible for security in the cloud, which includes the tasks of managing data encryption and granting least privilege access to IAM users. Data encryption is the process of transforming data into an unreadable format that can only be accessed with a key or a password. The customer must decide whether to encrypt their data at rest (when it is stored on AWS) or in transit (when it is moving between AWS and the customer or between AWS services). The customer must also choose the encryption method, algorithm, and key management solution that best suit their needs. AWS provides various services and features that support data encryption, such as AWS Key Management Service (AWS KMS), AWS Certificate Manager (ACM), and AWS Encryption SDK. IAM users are entities that represent the people or applications that interact with AWS resources and services. The customer must grant the IAM users the minimum permissions that they need to perform their tasks, and avoid giving them unnecessary or excessive access. This is known as the principle of least privilege, and it helps reduce the risk of unauthorized or malicious actions. The customer can use IAM policies, roles, groups, and permissions boundaries to manage the access of IAM users.

NEW QUESTION 17

- (Topic 3)

Which cloud computing advantage is a company applying when it uses AWS Regions to increase application availability to users in different countries?

- A. Pay-as-you-go pricing
- B. Capacity forecasting
- C. Economies of scale
- D. Global reach

Answer: D

Explanation:

Global reach is a cloud computing advantage that a company can apply when it uses AWS Regions to increase application availability to users in different countries. Global reach refers to the ability to deploy applications and services in multiple geographic locations around the world, and to serve customers with low latency and high performance. AWS has the largest and most reliable global infrastructure of any cloud provider, with 25 Regions and 81 Availability Zones across the Americas, Europe, Asia Pacific, Africa, and the Middle East¹²³. By using AWS Regions, a company can choose the best location for its application based on customer proximity, compliance requirements, and disaster recovery strategies²³. References: 1: AWS Global Infrastructure - Amazon Web Services (AWS), 2: Regions and Availability Zones - Amazon Elastic Compute Cloud, 3: AWS Infrastructure: Regions and Availability Zones Explained

NEW QUESTION 18

- (Topic 3)

According to the AWS shared responsibility model, which task is the customer's responsibility?

- A. Maintaining the infrastructure needed to run AWS Lambda
- B. Updating the operating system of Amazon DynamoDB instances
- C. Maintaining Amazon S3 infrastructure
- D. Updating the guest operating system on Amazon EC2 instances

Answer: D

Explanation:

The AWS shared responsibility model describes the division of responsibilities between AWS and the customer for security and compliance. AWS is responsible for the security of the cloud, which includes the hardware, software, networking, and facilities that run AWS services. The customer is responsible for security in the cloud, which includes the customer data, applications, operating systems, and network and firewall configurations. Therefore, updating the guest operating system on Amazon EC2 instances is the customer's responsibility²

NEW QUESTION 22

- (Topic 3)

A company wants to integrate its online shopping website with social media login credentials. Which AWS service can the company use to make this integration?

- A. AWS Directory Service
- B. AWS Identity and Access Management (IAM)
- C. Amazon Cognito
- D. AWS IAM Identity Center (AWS Single Sign-On)

Answer: C

Explanation:

Amazon Cognito is a service that enables you to add user sign-up and sign-in features to your web and mobile applications. Amazon Cognito also supports social and enterprise identity federation, which means you can allow your users to sign in with their existing credentials from identity providers such as Google, Facebook, Apple, and Amazon. Amazon Cognito integrates with OpenID Connect (OIDC) and Security Assertion Markup Language (SAML) 2.0 protocols to facilitate the authentication and authorization process. Amazon Cognito also provides advanced security features, such as adaptive authentication, user verification, and multi-factor authentication (MFA). References: Amazon Cognito, What is Amazon Cognito?

NEW QUESTION 24

- (Topic 3)

A company needs to store infrequently used data for data archives and long-term backups.

A company needs a history report about how its Amazon EC2 instances were modified last month.

Which AWS service can be used to meet this requirement?

- A. AWS Service Catalog
- B. AWS Config
- C. Amazon CloudWatch
- D. AWS Artifact

Answer: B

Explanation:

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. AWS Config continuously monitors and records

your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. AWS Config can also track changes to your EC2 instances over time and provide a history report of the modifications. AWS Service Catalog, Amazon CloudWatch, and AWS Artifact are not the best services to meet this requirement. AWS Service Catalog is a service that allows you to create and manage catalogs of IT services that are approved for use on AWS. Amazon CloudWatch is a service that monitors your AWS resources and applications and provides metrics, alarms, dashboards, and logs. AWS Artifact is a service that provides on-demand access to AWS security and compliance reports and online agreements

NEW QUESTION 27

- (Topic 3)

A company has created an AWS Cost and Usage Report and wants to visualize the report. Which AWS service should the company use to ingest and display this information?

- A. Amazon QuickSight
- B. Amazon Pinpoint
- C. Amazon Neptune
- D. Amazon Kinesis

Answer: A

Explanation:

Amazon QuickSight is an AWS service that provides business intelligence and data visualization capabilities. Amazon QuickSight enables you to ingest, analyze, and display data from various sources, such as AWS Cost and Usage Reports, Amazon S3, Amazon Athena, Amazon Redshift, and Amazon RDS. You can use Amazon QuickSight to create interactive dashboards and charts that show insights and trends from your data. You can also share your dashboards and charts with other users or embed them into your applications.

NEW QUESTION 29

- (Topic 3)

A company is running its application in the AWS Cloud. The company wants to periodically review its AWS account for cost optimization opportunities.

Which AWS service or tool can the company use to meet these requirements?

- A. AWS Cost Explorer
- B. AWS Trusted Advisor
- C. AWS Pricing Calculator
- D. AWS Budgets

Answer: A

Explanation:

AWS Cost Explorer is an AWS service or tool that the company can use to periodically review its AWS account for cost optimization opportunities. AWS Cost Explorer is a tool that enables the company to visualize, understand, and manage their AWS costs and usage over time. The company can use AWS Cost Explorer to access interactive graphs and tables that show the breakdown of their costs and usage by service, region, account, tag, and more. The company can also use AWS Cost Explorer to forecast their future costs, identify trends and anomalies, and discover potential savings by using Reserved Instances or Savings Plans.

NEW QUESTION 31

- (Topic 3)

A developer wants to deploy an application quickly on AWS without manually creating the required resources. Which AWS service will meet these requirements?

- A. Amazon EC2
- B. AWS Elastic Beanstalk
- C. AWS CodeBuild
- D. Amazon Personalize

Answer: B

Explanation:

AWS Elastic Beanstalk is a service that allows you to deploy and manage applications on AWS without manually creating and configuring the required resources, such as EC2 instances, load balancers, security groups, databases, and more. AWS Elastic Beanstalk automatically handles the provisioning, scaling, load

balancing, health monitoring, and updating of your application, while giving you full control over the underlying AWS resources if needed. AWS Elastic Beanstalk supports a variety of platforms and languages, such as Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker. You can use the AWS Management Console, the AWS CLI, the AWS SDKs, or the AWS Elastic Beanstalk API to create and manage your applications. You can also use AWS CodeStar, AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, and AWS CodePipeline to integrate AWS Elastic Beanstalk with your development and deployment workflows¹²

NEW QUESTION 36

- (Topic 3)

A company has teams that have different job roles and responsibilities. The company's employees often change teams. The company needs to manage permissions for the employees so that the permissions are appropriate for the job responsibilities.

Which IAM resource should the company use to meet this requirement with the LEAST operational overhead?

- A. IAM user groups
- B. IAM roles
- C. IAM instance profiles
- D. IAM policies for individual users

Answer: B

Explanation:

IAM roles are a way of granting temporary permissions to entities that need to access AWS resources, such as users, applications, or services. IAM roles allow customers to assign permissions to entities without having to create or manage IAM users or credentials for them. IAM roles can be assumed by different entities depending on the trust policy attached to the role. For example, IAM roles can be assumed by IAM users in the same or different AWS accounts, AWS services such as EC2 or Lambda, or external identities such as federated users or web identities. IAM roles can also be switched by IAM users to temporarily change their permissions. IAM roles are recommended for managing permissions for employees who often change teams, because they allow customers to define permissions based on job roles and responsibilities, and easily assign or revoke them as needed. IAM roles also reduce the operational overhead of creating, updating, or deleting IAM users or credentials for each employee or team change.

NEW QUESTION 39

- (Topic 3)

Which tasks are customer responsibilities, according to the AWS shared responsibility model? (Select TWO.)

- A. Configure the AWS provided security group firewall.
- B. Classify company assets in the AWS Cloud.
- C. Determine which Availability Zones to use for Amazon S3 buckets.
- D. Patch or upgrade Amazon DynamoDB.
- E. Select Amazon EC2 instances to run AWS Lambda on.
- F. AWS Config

Answer: AB

Explanation:

According to the AWS shared responsibility model, the customer is responsible for security in the cloud, which includes the tasks of configuring the AWS provided security group firewall and classifying company assets in the AWS Cloud. A security group is a virtual firewall that controls the inbound and outbound traffic for one or more EC2 instances. The customer must configure the security group rules to allow or deny traffic based on protocol, port, or source and destination IP address² Classifying company assets in the AWS Cloud means identifying the types, categories, and sensitivity levels of the data and resources that the customer stores and processes on AWS. The customer must also determine the applicable compliance requirements and regulations that apply to their assets, and implement the appropriate security controls and measures to protect them

NEW QUESTION 43

- (Topic 3)

A company runs a MySQL database in its on-premises data center. The company wants to run a copy of this database in the AWS Cloud.

Which AWS service would support this workload?

- A. Amazon RDS
- B. Amazon Neptune
- C. Amazon ElastiCache for Redis
- D. Amazon Quantum Ledger Database (Amazon QLDB)

Answer: A

Explanation:

Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity, while automating time-consuming administration tasks such as hardware provisioning, database setup, patching, and backups. Amazon RDS supports six popular database engines: Amazon Aurora, PostgreSQL, MySQL, MariaDB, Oracle Database, and SQL Server. Amazon RDS can support running a copy of a MySQL database in the AWS Cloud, as it offers compatibility, scalability, and availability features.

NEW QUESTION 46

- (Topic 3)

A company wants to query its server logs to gain insights about its customers' experiences. Which AWS service will store this data MOST cost-effectively?

- A. Amazon Aurora
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon S3

Answer: D

Explanation:

Amazon S3 is an AWS service that provides scalable, durable, and cost-effective object storage in the cloud. Amazon S3 can store any amount and type of data,

such as server logs, and offers various storage classes with different performance and pricing characteristics. Amazon S3 is the most cost-effective option for storing server logs, as it offers low-cost storage classes, such as S3 Standard-Infrequent Access (S3 Standard-IA) and S3 Intelligent-Tiering, that are suitable for infrequently accessed or changing access patterns data. Amazon S3 also integrates with other AWS services, such as Amazon Athena and Amazon OpenSearch Service, that can query the server logs directly from S3 without requiring any additional data loading or transformation. References: Amazon S3, Amazon S3 Storage Classes, Querying Data in Amazon S3

NEW QUESTION 50

- (Topic 3)

A company wants to verify if multi-factor authentication (MFA) is enabled for all users within its AWS accounts. Which AWS service or resource will meet this requirement?

- A. AWS Cost and Usage Report
- B. IAM credential reports
- C. AWS Artifact
- D. Amazon CloudFront reports

Answer: B

Explanation:

The AWS service or resource that will meet the requirement of verifying if multi-factor authentication (MFA) is enabled for all users within its AWS accounts is IAM credential reports. IAM credential reports are downloadable reports that list all the users in an AWS account and the status of their various credentials, including passwords, access keys, and MFA devices. Users can use IAM credential reports to audit the security status of their AWS accounts and identify any issues or risks⁴. AWS Cost and Usage Report, AWS Artifact, and Amazon CloudFront reports are other AWS services or resources that provide different types of information, such as billing, compliance, and content delivery, but they do not show the MFA status of the users.

NEW QUESTION 54

- (Topic 3)

Which AWS service can a company use to find security and compliance reports, including International Organization for Standardization (ISO) reports?

- A. AWS Artifact
- B. Amazon CloudWatch
- C. AWS Config
- D. AWS Audit Manager

Answer: A

Explanation:

AWS Artifact is a self-service portal that provides on-demand access to AWS security and compliance reports and select online agreements. You can use AWS Artifact to download AWS service audit reports, such as ISO, PCI, and SOC, and to accept and manage agreements with AWS, such as the Business Associate Addendum (BAA).

NEW QUESTION 57

- (Topic 3)

A company has migrated its workloads to AWS. The company wants to adopt AWS at scale and operate more efficiently and securely. Which AWS service or framework should the company use for operational support?

- A. AWS Support
- B. AWS Cloud Adoption Framework (AWS CAF)
- C. AWS Managed Services (AMS)
- D. AWS Well-Architected Framework

Answer: D

Explanation:

The AWS Well-Architected Framework is a set of best practices and guidelines for designing and operating workloads on AWS. It helps customers achieve operational excellence, security, reliability, performance efficiency, cost optimization, and sustainability. The framework is based on six pillars, each with its own design principles, best practices, and questions. Customers can use the framework to assess their current state, identify gaps, and implement improvements¹². AWS Support is a service that provides technical assistance, guidance, and resources for AWS customers. It offers different plans with varying levels of access to AWS experts, response times, and features³. AWS Support does not provide a comprehensive framework for operational support.

AWS Cloud Adoption Framework (AWS CAF) is a guidance tool that helps customers plan and execute their cloud migration journey. It provides a set of perspectives, capabilities, and best practices to align the business and technical aspects of cloud adoption⁴. AWS CAF does not focus on operational support for existing workloads on AWS.

AWS Managed Services (AMS) is a service that operates AWS infrastructure on behalf of customers. It provides a secure and compliant environment, automates common activities, and applies best practices for provisioning, patching, backup, recovery, and monitoring⁵. AMS does not provide a framework for customers to operate their own workloads on AWS.

NEW QUESTION 62

- (Topic 3)

A company deployed an application on an Amazon EC2 instance. The application ran as expected for 6 months. In the past week, users have reported latency issues. A system administrator found that the CPU utilization was at 100% during business hours. The company wants a scalable solution to meet demand. Which AWS service or feature should the company use to handle the load for its application during periods of high demand?

- A. Auto Scaling groups
- B. AWS Global Accelerator
- C. Amazon Route 53
- D. An Elastic IP address

Answer: A

Explanation:

Auto Scaling groups are a feature that allows users to automatically scale the number of Amazon EC2 instances up or down based on demand or a predefined schedule. Auto Scaling groups can help improve the performance and availability of applications by adjusting the capacity in response to traffic fluctuations¹. AWS Global Accelerator is a service that improves the availability and performance of applications by routing traffic through AWS edge locations². Amazon Route 53 is a service that provides scalable and reliable domain name system (DNS) service³. An Elastic IP address is a static IPv4 address that can be associated with an Amazon EC2 instance⁴.

NEW QUESTION 63

- (Topic 3)

A company is running an Amazon EC2 instance in a VPC.

An ecommerce company is using Amazon EC2 Auto Scaling groups to manage a fleet of web servers running on Amazon EC2.

This architecture follows which AWS Well-Architected Framework best practice?

- A. Secure the workload
- B. Decouple infrastructure components
- C. Design for failure
- D. Think parallel

Answer: C

Explanation:

Design for failure is one of the best practices of the AWS Well-Architected Framework. It means that the architecture should be resilient and fault-tolerant, and able to handle failures without impacting the availability and performance of the applications. By using Amazon EC2 Auto Scaling groups, the ecommerce company can design for failure by automatically scaling the number of EC2 instances up or down based on demand or health status. Amazon EC2 Auto Scaling groups can also distribute the EC2 instances across multiple Availability Zones, which are isolated locations within an AWS Region that have independent power, cooling, and network connectivity. This way, the company can ensure that their web servers can handle traffic spikes, recover from failures, and provide a consistent user experience

NEW QUESTION 64

- (Topic 3)

A company wants to use guidelines from the AWS Well-Architected Framework to limit human error and facilitate consistent responses to events.

Which of the following is a Well-Architected design principle that will meet these requirements?

- A. Use AWS CodeDeploy.
- B. Perform operations as code.
- C. Migrate workloads to a Dedicated Host.
- D. Use AWS Compute Optimizer.

Answer: B

Explanation:

This is a design principle of the operational excellence pillar of the AWS Well-Architected Framework. Performing operations as code means using scripts, templates, or automation tools to perform routine tasks, such as provisioning, configuration, deployment, and monitoring. This reduces human error, increases consistency, and enables faster recovery from failures. You can learn more about the operational excellence pillar from this whitepaper or this digital course.

NEW QUESTION 67

- (Topic 3)

A company's IT team is managing MySQL database server clusters. The IT team has to patch the database and take backup snapshots of the data in the clusters. The company wants to move this workload to AWS so that these tasks will be completed automatically.

What should the company do to meet these requirements?

- A. Deploy MySQL database server clusters on Amazon EC2 instances.
- B. Use Amazon RDS with a MySQL database.
- C. Use an AWS CloudFormation template to deploy MySQL database servers on Amazon EC2 instances.
- D. Migrate all the MySQL database data to Amazon S3.

Answer: B

Explanation:

Amazon RDS is a service that makes it easy to set up, operate, and scale a relational database in the cloud. Amazon RDS supports MySQL as one of the database engines. By using Amazon RDS with a MySQL database, the company can offload the tasks of patching the database and taking backup snapshots to AWS. Amazon RDS automatically patches the database software and operating system of the database instances. Amazon RDS also automatically backs up the database and retains the backups for a user-defined retention period. The company can also restore the database to any point in time within the retention period. Deploying MySQL database server clusters on Amazon EC2 instances, using an AWS CloudFormation template to deploy MySQL database servers on Amazon EC2 instances, or migrating all the MySQL database data to Amazon S3 are not the best options to meet the requirements. These options would not automate the tasks of patching the database and taking backup snapshots, and would require more operational overhead from the company³

NEW QUESTION 72

- (Topic 3)

Which AWS service is always provided at no charge?

- A. Amazon S3
- B. AWS Identity and Access Management (IAM)
- C. Elastic Load Balancers
- D. AWS WAF

Answer: B

Explanation:

AWS Identity and Access Management (IAM) is a web service that helps you securely control access to AWS resources. You can use IAM to create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources. IAM is always provided at no charge¹². References: 1: AWS Identity and Access Management (IAM) - Amazon Web Services (AWS), 2: Which aws service is always provided at no charge? - Brainly.in

NEW QUESTION 77

- (Topic 3)

A company wants to migrate its on-premises relational databases to the AWS Cloud. The company wants to use infrastructure as close to its current geographical location as possible.

Which AWS service or resource should the company use to select its Amazon RDS deployment area?

- A. Amazon Connect
- B. AWS Wavelength
- C. AWS Regions
- D. AWS Direct Connect

Answer: C

Explanation:

AWS Regions are the AWS service or resource that the company should use to select its Amazon RDS deployment area. AWS Regions are separate geographic areas where AWS clusters its data centers. Each AWS Region consists of multiple, isolated, and physically separate Availability Zones within a geographic area. Each AWS Region is designed to be isolated from the other AWS Regions to achieve the highest possible fault tolerance and stability. AWS provides a more extensive global footprint than any other cloud provider, and to support its global footprint and ensure customers are served across the world, AWS opens new Regions rapidly. AWS maintains multiple geographic Regions, including Regions in North America, South America, Europe, China, Asia Pacific, South Africa, and the Middle East. Amazon RDS is available in several AWS Regions worldwide. To create or work with an Amazon RDS DB instance in a specific AWS Region, you must use the corresponding regional service endpoint. You can choose the AWS Region that meets your latency or legal requirements. You can also use multiple AWS Regions to design a disaster recovery solution or to distribute your read workload. References: Global Infrastructure Regions & AZs - aws.amazon.com, Regions, Availability Zones, and Local Zones - Amazon Relational Database Service

NEW QUESTION 79

- (Topic 3)

Which options are AWS Cloud Adoption Framework (AWS CAF) people perspective capabilities? (Select TWO.)

- A. Organizational alignment
- B. Portfolio management
- C. Organization design
- D. Risk management
- E. Modern application development

Answer: AC

Explanation:

The AWS Cloud Adoption Framework (AWS CAF) people perspective capabilities are the organizational skills and processes that enable effective cloud adoption. According to the AWS CAF people perspective whitepaper¹, there are seven capabilities in this perspective, two of which are:

? Organizational alignment: This capability helps you align your organizational structure, roles, and responsibilities to support your cloud transformation goals and objectives. It involves assessing your current and desired state of alignment, identifying gaps and misalignments, and designing and implementing changes to optimize your cloud performance¹.

? Organization design: This capability helps you design and evolve your organization to enable agility, innovation, and collaboration in the cloud. It involves defining your cloud operating model, identifying the skills and competencies needed for cloud roles, and creating career paths and development plans for your cloud workforce¹.

The other options are not capabilities in the AWS CAF people perspective. Portfolio management, risk management, and modern application development are capabilities in the AWS CAF business perspective, governance perspective, and platform perspective respectively².

References:

? 1: AWS Cloud Adoption Framework: People Perspective - AWS Cloud Adoption Framework: People Perspective

? 2: AWS Cloud Adoption Framework - AWS Cloud Adoption Framework

NEW QUESTION 83

- (Topic 3)

Which of the following is a software development framework that a company can use to define cloud resources as code and provision the resources through AWS CloudFormation?

- A. AWS CLI
- B. AWS Developer Center
- C. AWS Cloud Development Kit (AWS CDK)
- D. AWS CodeStar

Answer: C

Explanation:

AWS Cloud Development Kit (AWS CDK) is a software development framework that allows you to define cloud resources as code using familiar programming languages, such as TypeScript, Python, Java, .NET, and Go (in Developer Preview). You can use AWS CDK to model your application resources using high-level constructs that provide sensible defaults and best practices, or use low-level constructs that provide full access to the underlying AWS CloudFormation resources. AWS CDK synthesizes your code into AWS CloudFormation templates that you can deploy using the AWS CDK CLI or the AWS Management Console. AWS CDK also integrates with other AWS services, such as AWS CodeCommit, AWS CodeBuild, AWS CodePipeline, AWS Lambda, Amazon EC2, Amazon S3, and more, to help you automate your development and deployment processes. AWS CDK is an open-source framework that you can extend and contribute to. References: Cloud Development Framework - AWS Cloud Development Kit -

AWS, AWS Cloud Development Kit Documentation, AWS Cloud Development Kit - Wikipedia, AWS CDK Intro Workshop | AWS CDK Workshop

NEW QUESTION 86

- (Topic 3)

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

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

Answer: B

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 91

- (Topic 3)

A company wants its Amazon EC2 instances to share the same geographic area but use multiple independent underlying power sources. Which solution achieves this goal?

- A. Use EC2 instances in a single Availability Zone.
- B. Use EC2 instances in multiple AWS Regions.
- C. Use EC2 instances in multiple Availability Zones in the same AWS Region.
- D. Use EC2 instances in the same edge location and the same AWS Region.

Answer: C

Explanation:

The solution that achieves the goal of having Amazon EC2 instances share the same geographic area but use multiple independent underlying power sources is to use EC2 instances in multiple Availability Zones in the same AWS Region. An Availability Zone is a physically isolated location within an AWS Region that has its own power, cooling, and network connectivity. An AWS Region is a geographical area that consists of two or more Availability Zones. By using multiple Availability Zones, users can increase the fault tolerance and resilience of their applications, as well as reduce latency for end users³. Using EC2 instances in a single Availability Zone, multiple AWS Regions, or the same edge location and the same AWS Region would not meet the requirement of having multiple independent power sources.

NEW QUESTION 93

- (Topic 3)

A company wants a customized assessment of its current on-premises environment. The company wants to understand its projected running costs in the AWS Cloud.

Which AWS service or tool will meet these requirements?

- A. AWS Trusted Advisor
- B. Amazon Inspector
- C. AWS Control Tower
- D. Migration Evaluator

Answer: D

Explanation:

Migration Evaluator is an AWS service that provides a customized assessment of your current on-premises environment and helps you build a data-driven business case for migration to AWS. Migration Evaluator collects and analyzes data from your on-premises servers, such as CPU, memory, disk, network, and utilization metrics, and compares them with the most cost-effective AWS alternatives. Migration Evaluator also helps you understand your existing software licenses and running costs, and provides recommendations for Bring Your Own License (BYOL) and License Included (LI) options in AWS. Migration Evaluator generates a detailed report that shows your projected running costs in the AWS Cloud, along with potential savings and benefits. You can use this report to support your decision-making and planning for cloud migration. References: Cloud Business Case & Migration Plan - Amazon Migration Evaluator - AWS, Getting started with Migration Evaluator

NEW QUESTION 95

- (Topic 3)

Which AWS services are connectivity services for a VPC? (Select TWO.)

- A. AWS Site-to-Site VPN
- B. AWS Direct Connect
- C. Amazon Connect
- D. AWS Key Management Service (AWS KMS)
- E. AWS Identity and Access Management (IAM)

Answer: A

Explanation:

AWS Site-to-Site VPN and AWS Direct Connect are AWS services that are connectivity services for a VPC. AWS Site-to-Site VPN is a service that enables you to securely connect your on-premises network or branch office site to your Amazon Virtual Private Cloud (Amazon VPC). You can establish VPN connections over the internet or over AWS Direct Connect¹. AWS Direct Connect is a service that lets you establish a dedicated network connection between your network and one of the AWS Direct Connect locations. Using AWS Direct Connect, you can create a private connection between AWS and your datacenter, office, or colocation environment, which can reduce your network costs, increase bandwidth throughput, and provide a more consistent network experience than internet-based connections². Amazon Connect is a service that lets you set up and manage a contact center in the cloud, but it does not provide network connectivity between the VPC and your on-premises network. AWS Key Management Service (AWS KMS) is a service that makes it easy for you to create and manage cryptographic keys and control their use across a wide range of AWS services and in your applications, but it does not provide network connectivity between the VPC and your on-premises network. AWS Identity and Access Management (IAM) is a service that enables you to manage access to AWS services and resources securely, but it does not provide network connectivity between the VPC and your on-premises network.

NEW QUESTION 98

- (Topic 3)

Which AWS service or feature offers security for a VPC by acting as a firewall to control traffic in and out of subnets?

- A. AWS Security Hub
- B. Security groups
- C. Network ACL
- D. AWSWAF

Answer: C

Explanation:

A network access control list (network ACL) is a feature that acts as a firewall for controlling traffic in and out of one or more subnets in a virtual private cloud (VPC). Network ACLs can be configured with rules that allow or deny traffic based on the source and destination IP addresses, ports, and protocols¹. AWS Security Hub is a service that provides a comprehensive view of the security posture of AWS accounts and resources². Security groups are features that act as firewalls for controlling traffic at the instance level³. AWS WAF is a web application firewall that helps protect web applications from common web exploits⁴.

NEW QUESTION 99

- (Topic 3)

Which benefit does AWS offer exclusively to users who have an AWS Enterprise Support plan?

- A. Access to a technical project manager
 - B. Access to a technical account manager (TAM)
 - C. Access to a cloud support engineer
 - D. Access to a solutions architect
- A company wants to automatically set up and govern a multi-account AWS environment.

Answer: B

Explanation:

AWS Enterprise Support plan is the highest level of support that AWS offers to its customers. One of the exclusive benefits of this plan is the access to a technical account manager (TAM), who is a dedicated point of contact for guidance, advocacy, and support². A technical project manager, a cloud support engineer, and a solutions architect are not exclusive benefits of the AWS Enterprise Support plan, as they are also available to customers with lower-tier support plans or through other AWS services or programs^{3,4,5}.

NEW QUESTION 103

- (Topic 3)

Which AWS service or feature will search for and identify AWS resources that are shared externally?

- A. Amazon OpenSearch Service
- B. AWS Control Tower
- C. AWS IAM Access Analyzer
- D. AWS Fargate

Answer: C

Explanation:

AWS IAM Access Analyzer is an AWS service that helps customers identify and review the resources in their AWS account that are shared with an external entity, such as another AWS account, a root user, an organization, or a public entity. AWS IAM Access Analyzer uses automated reasoning, a form of mathematical logic and inference, to analyze the resource-based policies in the account and generate comprehensive findings that show the access level, the source of the access, the affected resource, and the condition under which the access applies. Customers can use AWS IAM Access Analyzer to audit their shared resources, validate their access policies, and monitor any changes to the resource sharing status. References: AWS IAM Access Analyzer, Identify and review resources shared with external entities, How AWS IAM Access Analyzer works

NEW QUESTION 104

- (Topic 3)

Which mechanism allows developers to access AWS services from application code?

- A. AWS Software Development Kit
- B. AWS Management Console
- C. AWS CodePipeline
- D. AWS Config

Answer: A

Explanation:

AWS Software Development Kit (SDK) is a set of platform-specific building tools for developers. It allows developers to access AWS services from application code using familiar programming languages. It provides pre-built components and libraries that can be incorporated into applications, as well as tools to debug, monitor, and optimize performance². References: What is SDK? - SDK Explained - AWS

NEW QUESTION 109

- (Topic 3)

A company wants to store data with high availability, encrypt the data at rest, and have direct access to the data over the internet. Which AWS service will meet these requirements MOST cost-effectively?

- A. Amazon Elastic Block Store (AmazonEBS)
- B. Amazon S3
- C. Amazon Elastic File System (Amazon EFS)
- D. AWS Storage Gateway

Answer: C

Explanation:

Amazon Elastic File System (Amazon EFS) provides a simple, scalable, fully managed elastic NFS file system for use with AWS Cloud services and on-premises resources. It is built to scale on demand to petabytes without disrupting applications, growing and shrinking automatically as you add and remove files, eliminating the need to provision and manage capacity to accommodate growth. Amazon EFS offers two storage classes: the Standard storage class, and the Infrequent Access storage class (EFS IA).

EFS IA provides price/performance that is cost-optimized for files not accessed every day. Amazon EFS encrypts data at rest and in transit, and supports direct access over the internet.

NEW QUESTION 110

- (Topic 3)

A company is planning to migrate to the AWS Cloud. The company is conducting organizational transformation and wants to become more responsive to customer inquiries and feedback.

Which tasks should the company perform to meet these requirements, according to the AWS Cloud Adoption Framework (AWS CAF)? (Select TWO.)

- A. Realign teams to focus on products and value streams.
- B. Create new value propositions with new products and services.
- C. Use agile methods to rapidly iterate and evolve.
- D. Use a new data and analytics platform to create actionable insights.
- E. Migrate and modernize legacy infrastructure.

Answer: AC

Explanation:

Realigning teams to focus on products and value streams, and using agile methods to rapidly iterate and evolve are tasks that the company should perform to meet the requirements of becoming more responsive to customer inquiries and feedback, according to the AWS Cloud Adoption Framework (AWS CAF). AWS CAF organizes guidance into six areas of focus, called perspectives: business, people, governance, platform, security, and operations. Each perspective is divided into capabilities, which describe the skills and processes to execute the transition effectively. The people perspective helps you prepare your organization for cloud adoption, and includes capabilities such as organizational change management, staff skills and readiness, and organizational alignment. The business perspective helps you align IT strategy with business strategy, and includes capabilities such as business case development, value proposition, and product ownership.

Creating new value propositions with new products and services is a task that belongs to the business perspective, but it is not directly related to the requirement of becoming more responsive to customer inquiries and feedback. Using a new data and analytics platform to create actionable insights is a task that belongs to the platform perspective, which helps you design, implement, and optimize the architecture of the AWS environment. However, it is also not directly related to the requirement of becoming more responsive to customer inquiries and feedback. Migrating and modernizing legacy infrastructure is a task that belongs to the operations perspective, which helps you enable, run, use, operate, and recover IT workloads to the level agreed upon with your business stakeholders. However, it is also not directly related to the requirement of becoming more responsive to customer inquiries and feedback.

NEW QUESTION 113

- (Topic 3)

Which service enables customers to audit API calls in their AWS accounts'?

- A. AWS CloudTrail
- B. AWS Trusted Advisor
- C. Amazon Inspector
- D. AWS X-Ray

Answer: A

Explanation:

AWS CloudTrail is a service that provides a record of actions taken by a user, role, or an AWS service in your AWS account. CloudTrail captures all API calls for AWS services as events, including calls from the AWS Management Console, AWS SDKs, command line tools, and higher-level AWS services. You can use CloudTrail to monitor, audit, and troubleshoot your AWS account activity. AWS Trusted Advisor is a service that provides best practices recommendations for cost optimization, performance, security, and fault tolerance in your AWS account. Amazon Inspector is a service that helps you improve the security and compliance of your applications deployed on AWS by automatically assessing them for vulnerabilities and deviations from best practices. AWS X-Ray is a service that helps you analyze and debug your applications by collecting data about the requests that your application serves, and providing tools to view, filter, and gain insights into that data. References: Logging AWS Audit Manager API calls with CloudTrail, Logging AWS Account Management API calls using AWS CloudTrail, Review API calls in your AWS account using CloudTrail, Monitor the usage of AWS API calls using Amazon CloudWatch, Which service enables customers to audit API calls in their AWS ...

NEW QUESTION 118

- (Topic 3)

A company seeks cost savings in exchange for a commitment to use a specific amount of an AWS service or category of AWS services for 1 year or 3 years.

Which AWS pricing model or offering will meet these requirements?

- A. Pay-as-you-go pricing
- B. Savings Plans
- C. AWS Free Tier
- D. Volume discounts

Answer: B

Explanation:

Savings Plans are an AWS pricing model or offering that can meet the requirements of seeking cost savings in exchange for a commitment to use a specific amount of an AWS service or category of AWS services for 1 year or 3 years. Savings Plans are flexible plans that offer significant discounts on AWS compute usage, such as EC2, Lambda, and Fargate. The company can choose from two types of Savings Plans: Compute Savings Plans and EC2 Instance Savings Plans. Compute Savings Plans provide the most flexibility and apply to any eligible compute usage, regardless of instance family, size, region, operating system, or tenancy. EC2 Instance Savings Plans provide more savings and apply to a specific instance family within a region. The company can select the amount of compute usage per hour (e.g., \$10/hour) that they want to commit to for the duration of the plan (1 year or 3 years). The company will pay the discounted Savings Plan rate for the amount of usage that matches their commitment, and the regular on-demand rate for any usage beyond that.

NEW QUESTION 123

- (Topic 3)

Which perspective in the AWS Cloud Adoption Framework (AWS CAF) includes a capability for well-designed data and analytics architecture?

- A. Security
- B. Governance
- C. Operations
- D. Platform

Answer: D

Explanation:

The correct answer is D. Platform.

The Platform perspective in the AWS Cloud Adoption Framework (AWS CAF) includes a capability for well-designed data and analytics architecture. This capability helps you design, implement, and optimize your data and analytics solutions on AWS, using services such as Amazon S3, Amazon Redshift, Amazon EMR, Amazon Kinesis, Amazon Athena, and Amazon QuickSight. A well-designed data and analytics architecture enables you to collect, store, process, analyze, and visualize data from various sources, and derive insights that can drive your business decisions¹².

The Security perspective does not include a capability for data and analytics architecture, but it does include a capability for data protection, which helps you secure your data at rest and in transit using encryption, key management, access control, and auditing¹³.

The Governance perspective does not include a capability for data and analytics architecture, but it does include a capability for data governance, which helps you manage the quality, availability, usability, integrity, and security of your data assets¹⁴.

The Operations perspective does not include a capability for data and analytics architecture, but it does include a capability for data operations, which helps you monitor, troubleshoot, and optimize the performance and availability of your data pipelines and workloads¹.

References:

1: Foundational capabilities - An Overview of the AWS Cloud Adoption Framework 2: [AWS Cloud Adoption Framework: Platform Perspective] 3: [AWS Cloud Adoption Framework: Security Perspective] 4: [AWS Cloud Adoption Framework: Governance Perspective] : [AWS Cloud Adoption Framework: Operations Perspective]

NEW QUESTION 128

- (Topic 3)

A company needs to block SQL injection attacks.

Which AWS service or feature can meet this requirement?

- A. AWS WAF
- B. AWS Shield
- C. Network ACLs
- D. Security groups

Answer: A

Explanation:

AWS WAF is a web application firewall that helps protect web applications from common web exploits, such as SQL injection attacks. It allows customers to create custom rules that block malicious requests. AWS Shield is a managed service that protects against distributed denial of service (DDoS) attacks, not SQL injection attacks. Network ACLs and security groups are network-level security features that filter traffic based on IP addresses and ports, not web requests or SQL queries. References: [AWS WAF], [AWS Shield], [Network ACLs], [Security groups]

NEW QUESTION 133

- (Topic 3)

A user has a stateful workload that will run on Amazon EC2 for the next 3 years. What is the MOST cost-effective pricing model for this workload?

- A. On-Demand Instances
- B. Reserved Instances
- C. Dedicated Instances
- D. Spot Instances

Answer: B

Explanation:

Reserved Instances are a pricing model that offers significant discounts on Amazon EC2 usage compared to On-Demand Instances. Reserved Instances are suitable for stateful workloads that have predictable and consistent usage patterns for a long-term period. By committing to a one-year or three-year term, customers can reduce their total cost of ownership and optimize their cloud spend. Reserved Instances also provide capacity reservation, ensuring that customers have access to the EC2 instances they need when they need them. References: AWS Pricing Calculator, Amazon EC2 Pricing, [AWS Cloud Practitioner Essentials: Module 3 - Compute in the Cloud]

NEW QUESTION 138

- (Topic 3)

A company needs to apply security rules to specific Amazon EC2 instances. Which AWS service or feature provides this functionality?

- A. AWS Shield
- B. Network ACLs
- C. Security groups
- D. AWS Firewall Manager

Answer: C

Explanation:

Security groups act as a firewall for associated Amazon EC2 instances, controlling both inbound and outbound traffic at the instance level. You can use security groups to set rules that allow or deny traffic to or from your instances. You can modify the rules for a security group at any time; the new rules are automatically applied to all instances that are associated with the security group.

NEW QUESTION 143

- (Topic 3)

Which AWS service converts text to lifelike voices?

- A. Amazon Transcribe
- B. Amazon Rekognition
- C. Amazon Polly
- D. Amazon Textract

Answer: C

Explanation:

Amazon Polly is a service that turns text into lifelike speech, allowing you to create applications that talk, and build entirely new categories of speech-enabled products. Polly's Text-to-Speech (TTS) service uses advanced deep learning technologies to synthesize natural sounding human speech¹. Amazon Polly supports dozens of languages and a wide range of natural-sounding voices. You can customize and control the speech output by using lexicons and SSML tags. You can also store and redistribute the speech output in standard audio formats like MP3 and OGG2.

Amazon Transcribe is a service that converts speech to text, enabling you to create text transcripts from audio or video files. It can recognize multiple speakers, different languages, accents, dialects, and background noises. It can also add punctuation and formatting to the transcripts. Amazon Transcribe is useful for applications such as subtitling, captioning, transcription, and voice search.

Amazon Rekognition is a service that provides image and video analysis using computer vision and deep learning. It can detect objects, faces, text, scenes, activities, and emotions in images and videos. It can also perform face recognition, face comparison, face search, celebrity recognition, and facial analysis.

Amazon Rekognition is useful for applications such as security, social media, e-commerce, and media and entertainment.

Amazon Textract is a service that extracts text and data from scanned documents using optical character recognition (OCR) and machine learning. It can identify the contents of fields in forms and tables, as well as the relationships between them. It can also preserve the layout and structure of the original document.

Amazon Textract is useful for applications such as data entry, document management, compliance, and analytics. References:

- ? Text to Speech Software – Amazon Polly – Amazon Web Services
- ? What is Text to Speech – Amazon Web Services (AWS)
- ? AWS Amazon Polly - Text to Speech Converter - CodeCanyon
- ? Amazon's Text-To-Speech AI Service Sounds More Natural And ... - Forbes
- ? Working with AWS Amazon Polly Text-to-Speech (TTS) Service
- ? [Automatic Speech Recognition - Amazon Transcribe - AWS]
- ? [Amazon Rekognition – Video and Image - AWS]
- ? [Extract Text & Data - OCR - Amazon Textract - AWS]

NEW QUESTION 148

- (Topic 3)

Which of the following is a fully managed MySQL-compatible database?

- A. Amazon S3
- B. Amazon DynamoDB
- C. Amazon Redshift
- D. Amazon Aurora

Answer: D

Explanation:

Amazon Aurora is a fully managed MySQL-compatible database that combines the performance and availability of traditional enterprise databases with the simplicity and cost-effectiveness of open-source databases. Amazon Aurora is part of the Amazon Relational Database Service (Amazon RDS) family, which means it inherits the benefits of a fully managed service, such as automated backups, patches, scaling, monitoring, and security. Amazon Aurora also offers up to five times the throughput of

standard MySQL, as well as high availability, durability, and fault tolerance with up to 15 read replicas, cross-Region replication, and self-healing storage. Amazon Aurora is compatible with the latest versions of MySQL, as well as PostgreSQL, and supports various features and integrations that enhance its functionality and usability¹²³ References: Amazon Aurora, Amazon RDS, AWS — Amazon Aurora Overview

NEW QUESTION 150

- (Topic 3)

A company is planning to host its workloads on AWS.

Which AWS service requires the company to update and patch the guest operating system?

- A. Amazon DynamoDB
- B. Amazon S3
- C. Amazon EC2
- D. Amazon Aurora

Answer: C

Explanation:

Amazon EC2 is an AWS service that provides scalable, secure, and resizable compute capacity in the cloud. Amazon EC2 allows customers to launch and manage virtual servers, called instances, that run a variety of operating systems and applications. Customers have full control over the configuration and management of their instances, including the guest operating system. Therefore, customers are responsible for updating and patching the guest operating system on their EC2 instances, as well as any other software or utilities installed on the instances. AWS provides tools and services, such as AWS Systems Manager and AWS OpsWorks, to help customers automate and simplify the patching process. References: Shared Responsibility Model, Shared responsibility model, [Amazon EC2]

NEW QUESTION 151

- (Topic 3)

Which AWS service helps developers use loose coupling and reliable messaging between microservices?

- A. Elastic Load Balancing

- B. Amazon Simple Notification Service (Amazon SNS)
- C. Amazon CloudFront
- D. Amazon Simple Queue Service (Amazon SQS)

Answer: D

Explanation:

Amazon Simple Queue Service (Amazon SQS) is a service that provides fully managed message queues for asynchronous communication between microservices. It helps developers use loose coupling and reliable messaging by allowing them to send, store, and receive messages between distributed components without losing them or requiring each component to be always available¹. Elastic Load Balancing is a service that distributes incoming traffic across multiple targets, such as Amazon EC2 instances, containers, and IP addresses. Amazon Simple Notification Service (Amazon SNS) is a service that provides fully managed pub/sub messaging for event-driven and push-based communication between microservices. Amazon CloudFront is a service that provides a fast and secure content delivery network (CDN) for web applications.

NEW QUESTION 155

- (Topic 3)

Which AWS services or features can a company use to connect the network of its on- premises data center to AWS? (Select TWO.)

- A. AWS VPN
- B. AWS Directory Service
- C. AWS Data Pipeline
- D. AWS Direct Connect
- E. AWS CloudHSM

Answer: AD

Explanation:

AWS VPN and AWS Direct Connect are two services that enable customers to connect their on-premises data center network to the AWS Cloud. AWS VPN establishes a secure and encrypted connection over the public internet, while AWS Direct Connect establishes a dedicated and private connection through a partner network. You can learn more about AWS VPN from [this webpage] or [this digital course]. You can learn more about AWS Direct Connect from [this webpage] or [this digital course].

NEW QUESTION 158

- (Topic 3)

A company has a centralized group of users with large file storage requirements that have exceeded the space available on premises. The company wants to extend its file storage capabilities for this group while retaining the performance benefit of sharing content locally. What is the MOST operationally efficient AWS solution for this scenario?

- A. Create an Amazon S3 bucket for each use
- B. Mount each bucket by using an S3 file system mounting utility.
- C. Configure and deploy an AWS Storage Gateway file gateway
- D. Connect each user's workstation to the file gateway.
- E. Move each user's working environment to Amazon Workspace
- F. Set up an Amazon WorkDocs account for each user.
- G. Deploy an Amazon EC2 instance and attach an Amazon Elastic Block Store (Amazon EBS) Provisioned IOPS volume
- H. Share the EBS volume directly with the users.

Answer: B

Explanation:

AWS Storage Gateway is a hybrid cloud storage service that allows you to extend your on-premises file storage capabilities to the AWS Cloud. AWS Storage Gateway file gateway enables you to store and access your files in Amazon S3 using industry-standard file protocols such as NFS and SMB. File gateway caches frequently accessed files locally, providing low-latency access to your data. File gateway also optimizes the transfer of data between your on-premises environment and AWS, minimizing the amount of bandwidth consumed. By using file gateway, you can retain the performance benefit of sharing content locally while leveraging the scalability, durability, and cost-effectiveness of Amazon S3. References: AWS Storage Gateway, File Gateway

NEW QUESTION 163

- (Topic 3)

A company has designed its AWS Cloud infrastructure to run its workloads effectively. The company also has protocols in place to continuously improve supporting processes. Which pillar of the AWS Well-Architected Framework does this scenario represent?

- A. Security
- B. Performance efficiency
- C. Cost optimization
- D. Operational excellence

Answer: D

Explanation:

The scenario represents the operational excellence pillar of the AWS Well-Architected Framework, which focuses on running and monitoring systems to deliver business value and continually improve supporting processes and procedures¹. Security, performance efficiency, cost optimization, and reliability are the other four pillars of the framework¹.

NEW QUESTION 168

- (Topic 3)

Which VPC component provides a layer of security at the subnet level?

- A. Security groups
- B. Network ACLs
- C. NAT gateways
- D. Route tables

Answer: B

Explanation:

Network ACLs are a feature that provide a layer of security at the subnet level by acting as a firewall to control traffic in and out of one or more subnets. Network ACLs can be configured with rules that allow or deny traffic based on the source and destination IP addresses, ports, and protocols⁵. Security groups are a feature that provide a layer of security at the instance level by acting as a firewall to control traffic to and from one or more instances. Security groups can be configured with rules that allow or deny traffic based on the source and destination IP addresses, ports, protocols, and security groups. NAT gateways are a feature that enable instances in a private subnet to connect to the internet or other AWS services, but prevent the internet from initiating a connection with those instances. Route tables are a feature that determine where network traffic from a subnet or gateway is directed.

NEW QUESTION 172

- (Topic 3)

Which database engines does Amazon Aurora support? (Select TWO.)

- A. Oracle
- B. Microsoft SQL Server
- C. MySQL
- D. PostgreSQL
- E. MongoDB

Answer: CD

Explanation:

Amazon Aurora is a relational database service that is compatible with MySQL and PostgreSQL engines. It delivers up to five times the performance of MySQL and up to three times the performance of PostgreSQL. It also provides high availability, scalability, security, and durability¹

NEW QUESTION 173

- (Topic 3)

Which of the following is an AWS Well-Architected Framework design principle for operational excellence in the AWS Cloud?

- A. Go global in minutes
- B. Make frequent, small, reversible changes
- C. Implement a strong foundation of identity and access management
- D. Stop spending money on hardware infrastructure for data center operations

Answer: B

Explanation:

Making frequent, small, reversible changes is one of the design principles for operational excellence in the AWS Cloud, as defined by the AWS Well-Architected Framework. This principle means that you should design your workloads to allow for rapid and safe changes, such as deploying updates, rolling back failures, and experimenting with new features. By making small and reversible changes, you can reduce the risk of errors, minimize the impact of failures, and increase the speed of recovery². References: ² AWS Documentation - AWS Well-Architected Framework - Operational Excellence Pillar

NEW QUESTION 177

- (Topic 3)

A customer runs an On-Demand Amazon Linux EC2 instance for 3 hours, 5 minutes, and 6 seconds. For how much time will the customer be billed?

- A. 3 hours, 5 minutes
- B. 3 hours, 5 minutes, and 6 seconds
- C. 3 hours, 6 minutes
- D. 4 hours

Answer: C

Explanation:

Amazon EC2 usage is calculated by either the hour or the second based on the size of the instance, operating system, and the AWS Region where the instances are launched. Pricing is per instance-hour consumed for each instance, from the time an instance is launched until it's terminated or stopped. Each partial instance-hour consumed is billed per-second for Linux instances and as a full hour for all other instance types¹. Therefore, the customer will be billed for 3 hours and 6 minutes for running an On-Demand Amazon Linux EC2 instance for 3 hours, 5 minutes, and 6 seconds. References: Understand Amazon EC2 instance-hours billing

NEW QUESTION 181

- (Topic 3)

A company wants to manage its AWS Cloud resources through a web interface. Which AWS service will meet this requirement?

- A. AWS Management Console
- B. AWS CLI
- C. AWS SDK
- D. AWS Cloud

Answer: A

Explanation:

AWS Management Console is a web application that allows you to manage and monitor your AWS Cloud resources through a user-friendly interface. You can use the AWS Management Console to access and experiment with over 150 AWS services, view and modify your account and billing information, get in-console help from AWS Support, and customize your dashboard with widgets that display key metrics and information for your applications⁵. You can also use the AWS Management Console to launch and configure AWS resources using wizards and templates, without writing any code⁵. References: 5: Manage AWS Resources - AWS Management Console - AWS, 6: Getting Started with the AWS Management Console, 7: Manage AWS Resources - AWS Management Console Features - AWS

NEW QUESTION 183

- (Topic 3)

Which AWS Cloud deployment model uses AWS Outposts as part of the application deployment infrastructure?

- A. On-premises
- B. Serverless
- C. Cloud-native
- D. Hybrid

Answer: D

Explanation:

AWS Outposts is a fully managed service that extends AWS infrastructure, services, APIs, and tools to customer premises. By providing local access to AWS managed infrastructure, AWS Outposts enables customers to build and run applications on premises using the same programming interfaces as in AWS Regions, while using local compute and storage resources for lower latency and local data processing needs. An Outpost is a pool of AWS compute and storage capacity deployed at a customer site. AWS operates, monitors, and manages this capacity as part of an AWS Region. You can create subnets on your Outpost and specify them when you create AWS resources such as EC2 instances, EBS volumes, ECS clusters, and RDS instances. Instances in Outpost subnets communicate with other instances in the AWS Region using private IP addresses, all within the same VPC. Outposts solutions allow you to extend and run native AWS services on premises, and is available in a variety of form factors, from 1U and 2U Outposts servers to 42U Outposts racks, and multiple rack deployments. With AWS Outposts, you can run some AWS services locally and connect to a broad range of services available in the local AWS Region². AWS Outposts is a hybrid cloud deployment model that uses AWS Outposts as part of the application deployment infrastructure. Hybrid cloud is a cloud computing environment that uses a mix of on-premises, private cloud, and public cloud services with orchestration between the platforms. Hybrid cloud provides businesses with greater flexibility, more deployment options, and optimized costs. By using AWS Outposts, customers can benefit from the fully managed infrastructure, services, APIs, and tools of AWS on premises, while still having access to the full range of AWS services available in the Region for a truly consistent hybrid experience³. References: On-Premises Private Cloud - AWS Outposts Family - AWS, What is AWS Outposts? - AWS Outposts

NEW QUESTION 187

- (Topic 3)

A company deployed an Amazon EC2 instance last week. A developer realizes that the EC2 instance is no longer running. The developer reviews a list of provisioned EC2 instances, and the EC2 instance is no longer on the list.

What can the developer do to generate a recent history of the EC2 instance?

- A. Run Cost Explorer to identify the start time and end time of the EC2 instance.
- B. Use Amazon Inspector to find out when the EC2 instance was stopped.
- C. Perform a search in AWS CloudTrail to find all EC2 instance-related events.
- D. Use AWS Secrets Manager to display hidden termination logs of the EC2 instance.

Answer: C

Explanation:

AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of a customer's AWS account. AWS CloudTrail allows customers to track user activity and API usage across their AWS infrastructure. AWS CloudTrail can also provide a history of EC2 instance events, such as launch, stop, terminate, and reboot. Cost Explorer is a tool that enables customers to visualize, understand, and manage their AWS costs and usage over time. Amazon Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on AWS. AWS Secrets Manager helps customers protect secrets needed to access their applications, services, and IT resources.

NEW QUESTION 190

- (Topic 2)

A company has an application that runs periodically in an on-premises environment. The application runs for a few hours most days, but runs for 8 hours a day for a week at the end of each month.

Which AWS service or feature should be used to host the application in the AWS Cloud?

- A. Amazon EC2 Standard Reserved Instances
- B. Amazon EC2 On-Demand Instances
- C. AWS Wavelength
- D. Application Load Balancer

Answer: B

Explanation:

Amazon EC2 On-Demand Instances are instances that you pay for by the second, with no long-term commitments or upfront payments⁴. This option is suitable for applications that have unpredictable or intermittent workloads, such as the one described in the question. Amazon EC2 Standard Reserved Instances are instances that you purchase for a one-year or three-year term, and pay a lower hourly rate compared to On-Demand Instances. This option is suitable for applications that have steady state or predictable usage. AWS Wavelength is a service that enables developers to build applications that deliver ultra-low latency to mobile devices and users by deploying AWS compute and storage at the edge of the 5G network. This option is not relevant for the application described in the question. Application Load Balancer is a type of load balancer that operates at the application layer and distributes traffic based on the content of the request. This option is not a service or feature to host the application, but rather to balance the traffic among multiple instances.

NEW QUESTION 191

- (Topic 2)

A company wants to securely store Amazon RDS database credentials and automatically rotate user passwords periodically.

Which AWS service or capability will meet these requirements?

- A. Amazon S3
- B. AWS Systems Manager Parameter Store
- C. AWS Secrets Manager
- D. AWS CloudTrail

Answer: C

Explanation:

AWS Secrets Manager is a service that helps you protect access to your applications, services, and IT resources. This service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle¹. Amazon S3 is a storage service that does not offer automatic rotation of credentials. AWS Systems Manager Parameter Store is a service that provides secure, hierarchical storage for configuration data management and secrets management², but it does not offer automatic rotation of credentials. AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account³, but it does not store or rotate credentials.

NEW QUESTION 195

- (Topic 2)

Which AWS solution provides the ability for a company to run AWS services in the company's on-premises data center?

- A. AWS Direct Connect
- B. AWS Outposts
- C. AWS Systems Manager hybrid activations
- D. AWS Storage Gateway

Answer: B

Explanation:

AWS Outposts is a fully managed service that extends AWS infrastructure, AWS services, APIs, and tools to virtually any datacenter, co-location space, or on-premises facility for a truly consistent hybrid experience. AWS Outposts enables you to run AWS services in your on-premises data center¹.

NEW QUESTION 196

- (Topic 2)

Which controls are the responsibility of both AWS and AWS customers, according to the AWS shared responsibility model? (Select TWO.)

- A. Physical and environmental controls
- B. Patch management
- C. Configuration management
- D. Account structures
- E. Choice of the AWS Region where data is stored

Answer: BC

Explanation:

Patch management and configuration management are controls that are the responsibility of both AWS and AWS customers, according to the AWS shared responsibility model. Patch management is the process of applying updates to software and applications to fix vulnerabilities, bugs, or performance issues. Configuration management is the process of defining and maintaining the settings and parameters of systems and applications to ensure their consistency and reliability. AWS is responsible for patching and configuring the software and services that it manages, such as the AWS global infrastructure, the hypervisor, and the AWS managed services. The customer is responsible for patching and configuring the software and services that they manage, such as the guest operating system, the applications, and the AWS customer-managed services. Physical and environmental controls are the responsibility of AWS, according to the AWS shared responsibility model. Physical and environmental controls are the measures that protect the physical security and availability of the AWS global infrastructure, such as power, cooling, fire suppression, and access control. AWS is responsible for maintaining these controls and ensuring the resilience and reliability of the AWS Cloud. Account structures are the responsibility of the customer, according to the AWS shared responsibility model. Account structures are the ways that customers organize and manage their AWS accounts and resources, such as using AWS Organizations, IAM users and roles, resource tagging, and billing preferences. The customer is responsible for creating and configuring these structures and ensuring the security and governance of their AWS environment. Choice of the AWS Region where data is stored is the responsibility of the customer, according to the AWS shared responsibility model. AWS Regions are geographic areas that consist of multiple isolated Availability Zones. Customers can choose which AWS Region to store their data and run their applications, depending on their latency, compliance, and cost requirements. The customer is responsible for selecting the appropriate AWS Region and ensuring the data sovereignty and regulatory compliance of their data.

NEW QUESTION 200

- (Topic 2)

A company has multiple AWS accounts that include compute workloads that cannot be interrupted. The company wants to obtain billing discounts that are based on the company's use of AWS services.

Which AWS feature or purchasing option will meet these requirements?

- A. Resource tagging
- B. Consolidated billing
- C. Pay-as-you-go pricing
- D. Spot Instances

Answer: B

Explanation:

Consolidated billing is an AWS feature that allows users to combine the usage and costs of multiple AWS accounts into a single bill. This enables users to obtain billing discounts that are based on the company's use of AWS services, such as volume pricing tiers, Reserved Instance discounts, and Savings Plans discounts⁵. Resource tagging is an AWS feature that allows users to assign metadata to AWS resources, such as EC2 instances, S3 buckets, and Lambda functions. This enables users to organize, track, and manage their AWS resources, such as filtering, grouping, and reporting. Pay-as-you-go pricing is an AWS pricing model that allows users to pay only for the resources and services they use, without any upfront or long-term commitments. This enables users to lower their costs by scaling up or down as needed, and avoiding over-provisioning or under-utilization. Spot Instances are spare EC2 instances that are available at up to

90% discount compared to On-Demand prices. They are suitable for workloads that can tolerate interruptions, such as batch processing, data analysis, and testing. Spot Instances are allocated based on the current supply and demand, and can be reclaimed by AWS with a two-minute notice when the demand exceeds the supply.

NEW QUESTION 204

- (Topic 2)

A company wants its Amazon EC2 instances to share the same geographic area but use redundant underlying power sources. Which solution will meet these requirements?

- A. Use EC2 instances across multiple Availability Zones in the same AWS Region.
- B. Use Amazon CloudFront as the database for the EC2 instances.
- C. Use EC2 instances in the same edge location and the same Availability Zone.
- D. Use EC2 instances in AWS OpsWorks stacks in different AWS Regions.

Answer: A

Explanation:

Using EC2 instances across multiple Availability Zones in the same AWS Region is a solution that meets the requirements of sharing the same geographic area but using redundant underlying power sources. Availability Zones are isolated locations within an AWS Region that have independent power, cooling, and physical security. They are connected through low-latency, high-throughput, and highly redundant networking. By launching EC2 instances in different Availability Zones, users can increase the fault tolerance and availability of their applications. Amazon CloudFront is a content delivery network (CDN) service that speeds up the delivery of web content and media to end users by caching it at the edge locations closer to them. It is not a database service and cannot be used to store operational data for EC2 instances. Edge locations are sites that are part of the Amazon CloudFront network and are located in many cities around the world. They are not the same as Availability Zones and do not provide redundancy for EC2 instances. AWS OpsWorks is a configuration management service that allows users to automate the deployment and management of applications using Chef or Puppet. It can be used to create stacks that span multiple AWS Regions, but this would not meet the requirement of sharing the same geographic area.

NEW QUESTION 207

- (Topic 2)

Which AWS services allow users to monitor and retain records of account activities that include governance, compliance, and auditing? (Select TWO.)

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. Amazon GuardDuty
- D. AWS Shield
- E. AWS WAF

Answer: AB

Explanation:

Amazon CloudWatch and AWS CloudTrail are the AWS services that allow users to monitor and retain records of account activities that include governance, compliance, and auditing. Amazon CloudWatch is a service that collects and tracks metrics, collects and monitors log files, and sets alarms. AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. Amazon GuardDuty, AWS Shield, and AWS WAF are AWS services that provide security and protection for AWS resources, but they do not monitor and retain records of account activities. These concepts are explained in the AWS Cloud Practitioner Essentials course³.

NEW QUESTION 212

- (Topic 2)

A company is setting up AWS Identity and Access Management (IAM) on an AWS account. Which recommendation complies with IAM security best practices?

- A. Use the account root user access keys for administrative tasks.
- B. Grant broad permissions so that all company employees can access the resources they need.
- C. Turn on multi-factor authentication (MFA) for added security during the login process.
- D. Avoid rotating credentials to prevent issues in production applications.

Answer: C

Explanation:

C is correct because turning on multi-factor authentication (MFA) for added security during the login process is one of the IAM security best practices recommended by AWS. MFA adds an extra layer of protection on top of the user name and password, making it harder for attackers to access the AWS account. A is incorrect because using the account root user access keys for administrative tasks is not a good practice, as the root user has full access to all the resources in the AWS account and can cause irreparable damage if compromised. AWS recommends creating individual IAM users with the least privilege principle and using roles for applications that run on Amazon EC2 instances. B is incorrect because granting broad permissions so that all company employees can access the resources they need is not a good practice, as it increases the risk of unauthorized or accidental actions on the AWS resources. AWS recommends granting only the permissions that are required to perform a task and using groups to assign permissions to IAM users. D is incorrect because avoiding rotating credentials to prevent issues in production applications is not a good practice, as it increases the risk of credential leakage or compromise. AWS recommends rotating credentials regularly and using temporary security credentials from AWS STS when possible.

NEW QUESTION 216

- (Topic 2)

A company has an environment that includes Amazon EC2 instances, Amazon Lightsail, and on-premises servers. The company wants to automate the security updates for its operating systems and applications. Which solution will meet these requirements with the LEAST operational effort?

- A. Use AWS Shield to identify and manage security events.
- B. Connect to each server by using a remote desktop connectio
- C. Run an update script.
- D. Use the AWS Systems Manager Patch Manager capability.

E. Schedule Amazon GuardDuty to run on a nightly basis.

Answer: C

Explanation:

AWS Systems Manager Patch Manager is a capability that allows users to automate the security updates for their operating systems and applications. It enables users to scan their instances for missing patches, define patch baselines, schedule patching windows, and monitor patch compliance. It supports Amazon EC2 instances, Amazon Lightsail instances, and on-premises servers. AWS Shield is a service that provides protection against Distributed Denial of Service (DDoS) attacks for AWS resources and services. It does not automate the security updates for operating systems and applications. Connecting to each server by using a remote desktop connection and running an update script is a manual and time-consuming solution that requires a lot of operational effort. It is not a recommended best practice for automating the security updates for operating systems and applications. Amazon GuardDuty is a service that provides intelligent threat detection and continuous monitoring for AWS accounts and resources. It does not automate the security updates for operating systems and applications.

NEW QUESTION 219

- (Topic 2)

Which AWS service or tool provides recommendations to help users get rightsized Amazon EC2 instances based on historical workload usage data?

- A. AWS Pricing Calculator
- B. AWS Compute Optimizer
- C. AWS App Runner
- D. AWS Systems Manager

Answer: B

Explanation:

The AWS service or tool that provides recommendations to help users get rightsized Amazon EC2 instances based on historical workload usage data is AWS Compute Optimizer. AWS Compute Optimizer is a service that analyzes the configuration and performance of the AWS resources, such as Amazon EC2 instances, and provides recommendations for optimal resource types and sizes based on the workload patterns and metrics. AWS Compute Optimizer helps users improve the performance, availability, and cost efficiency of their AWS resources. AWS Pricing Calculator, AWS App Runner, and AWS Systems Manager are not the best services or tools to use for this purpose. AWS Pricing Calculator is a tool that helps users estimate the cost of using AWS services based on their requirements and preferences. AWS App Runner is a service that helps users easily and quickly deploy web applications and APIs without managing any infrastructure. AWS Systems Manager is a service that helps users automate and manage the configuration and operation of their AWS resources and applications³⁴

NEW QUESTION 223

- (Topic 2)

A user discovered that an Amazon EC2 instance is missing an Amazon Elastic Block Store (Amazon EBS) data volume. The user wants to determine when the EBS volume was removed.

Which AWS service will provide this information?

- A. AWS Config
- B. AWS Trusted Advisor
- C. Amazon Timestream
- D. Amazon QuickSight

Answer: A

Explanation:

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. AWS Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. AWS Config can help you determine when an EBS volume was removed from an EC2 instance by providing a timeline of configuration changes and compliance status. AWS Trusted Advisor, Amazon Timestream, and Amazon QuickSight do not provide the same level of configuration tracking and auditing as AWS Config. Source: AWS Config

NEW QUESTION 226

- (Topic 2)

A developer wants to use an Amazon S3 bucket to store application logs that contain sensitive data.

Which AWS service or feature should the developer use to restrict read and write access to the S3 bucket?

- A. Security groups
- B. Amazon CloudWatch
- C. AWS CloudTrail
- D. ACLs

Answer: D

Explanation:

ACLs are an AWS service or feature that the developer can use to restrict read and write access to the S3 bucket. ACLs are access control lists that grant basic permissions to other AWS accounts or predefined groups. They can be used to grant read or write access to an S3 bucket or an object³. Security groups are virtual firewalls that control the inbound and outbound traffic for Amazon EC2 instances. They are not a service or feature that can be used to restrict access to an S3 bucket. Amazon CloudWatch is a service that provides monitoring and observability for AWS resources and applications. It can be used to collect and analyze metrics, logs, events, and alarms. It is not a service or feature that can be used to restrict access to an S3 bucket. AWS CloudTrail is a service that provides governance, compliance, and audit for AWS accounts and resources. It can be used to track and record the API calls and user activity in AWS. It is not a service or feature that can be used to restrict access to an S3 bucket.

NEW QUESTION 227

- (Topic 2)

Which encryption types can be used to protect objects at rest in Amazon S3? (Select TWO.)

- A. Server-side encryption with AmazonS3 managed encryption keys (SSE-S3)
- B. Server-side encryption with AWS KMSmanaged keys (SSE-KMS)
- C. TLS
- D. SSL
- E. Transparent Data Encryption (TDE)

Answer: AB

Explanation:

Server-side encryption with Amazon S3 managed encryption keys (SSE-S3) and server-side encryption with AWS KMS managed keys (SSE-KMS) are the encryption types that can be used to protect objects at rest in Amazon S3. Server-side encryption means that Amazon S3 encrypts the objects before saving them on disks and decrypts them when they are downloaded. SSE-S3 uses one master key per bucket that is managed by Amazon S3. SSE-KMS uses a customer master key (CMK) that is stored in AWS Key Management Service (AWS KMS) and provides additional benefits, such as audit trails and key rotation. For more information, see [Protecting Data Using Server-Side Encryption](#) and [Protecting Data Using Encryption](#).

NEW QUESTION 230

- (Topic 2)

A company provides a software as a service (SaaS) application. The company has a new customer that is based in a different country. The new customer's data needs to be hosted in that country.

Which AWS service or infrastructure component should the company use to meet this requirement?

- A. AWS Shield
- B. Amazon S3 Object Lock
- C. AWS Regions
- D. Placement groups

Answer: C

Explanation:

AWS Regions are geographic areas around the world where AWS has clusters of data centers. Each AWS Region consists of multiple, isolated, and physically separate AZ's within a geographic area. By hosting the customer's data in a specific AWS Region, the company can meet the requirement of hosting the data in the customer's country. AWS Shield is a service that provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection. Amazon S3 Object Lock is a feature that allows you to store objects using a write-once-read-many (WORM) model. You can use it to prevent an object from being deleted or overwritten for a fixed amount of time or indefinitely. Placement groups are logical grouping of instances within a single Availability Zone. Placement groups enable applications to participate in a low-latency, 10 Gbps network. None of these services or infrastructure components can help the company host the customer's data in a different country.

NEW QUESTION 231

- (Topic 2)

Which AWS service is designed to help users orchestrate a workflow process for a set of AWS Lambda functions?

- A. Amazon DynamoDB
- B. AWS CodePipeline
- C. AWS Batch
- D. AWS Step Functions

Answer: D

Explanation:

The AWS service that is designed to help users orchestrate a workflow process for a set of AWS Lambda functions is AWS Step Functions. AWS Step Functions is a service that helps users coordinate multiple AWS services into serverless workflows that can be triggered by events, such as messages, API calls, or schedules. AWS Step Functions allows users to create and visualize complex workflows that can include branching, parallel execution, error handling, retries, and timeouts. AWS Step Functions can integrate with AWS Lambda to orchestrate a sequence of Lambda functions that perform different tasks or logic. Amazon DynamoDB, AWS CodePipeline, and AWS Batch are not the best services to use for orchestrating a workflow process for a set of AWS Lambda functions. Amazon DynamoDB is a fully managed NoSQL database service that provides fast and consistent performance, scalability, and flexibility. AWS CodePipeline is a fully managed continuous delivery service that helps users automate the release process of their applications. AWS Batch is a fully managed service that helps users run batch computing workloads on the AWS Cloud.

NEW QUESTION 235

- (Topic 2)

A company has an application workload that is stateless by design and can sustain occasional downtime. The application performs massively parallel computations.

Which Amazon EC2 pricing model should the company choose for its application to reduce cost?

- A. On-Demand Instances
- B. Spot Instances
- C. Reserved Instances
- D. Dedicated Instances

Answer: B

Explanation:

Amazon EC2 Spot Instances let you take advantage of unused EC2 capacity in the AWS cloud. Spot Instances are available at up to a 90% discount compared to On-Demand prices. You can use Spot Instances for various stateless, fault-tolerant, or flexible applications such as big data, containerized workloads, CI/CD, web servers, high-performance computing (HPC), and other test & development workloads. Spot Instances are well-suited for massively parallel computations, as they can provide large amounts of compute capacity at a low cost, and can be interrupted with a two-minute notice.

NEW QUESTION 236

- (Topic 2)

A company needs a repository that stores source code. The company needs a way to update the running software when the code changes. Which combination of AWS services will meet these requirements? (Select TWO.)

- A. AWS CodeCommit
- B. AWS CodeDeploy
- C. Amazon DynamoDB
- D. Amazon S3
- E. Amazon Elastic Container Service (Amazon ECS)

Answer: AB

Explanation:

A and B are correct because AWS CodeCommit is the AWS service that provides a fully managed source control service that hosts secure Git-based repositories¹, and AWS CodeDeploy is the AWS service that automates code deployments to any instance, including Amazon EC2 instances and servers running on-premises². These two services can be used together to store source code and update the running software when the code changes. C is incorrect because Amazon DynamoDB is the AWS service that provides a fully managed NoSQL database service that supports key-value and document data models³. It is not related to storing source code or updating software. D is incorrect because Amazon S3 is the AWS service that provides object storage through a web service interface⁴. It can be used to store source code, but it does not provide source control features or update software. E is incorrect because Amazon Elastic Container Service (Amazon ECS) is the AWS service that allows users to run, scale, and secure Docker container applications. It can be used to deploy containerized software, but it does not store source code or update software.

NEW QUESTION 237

- (Topic 2)

A company moves a workload to AWS to run on Amazon EC2 instances. The company needs to run the workload in the most cost-effective way. What can the company do to meet this requirement?

- A. Use AWS Key Management Service (AWS KMS).
- B. Use multiple AWS accounts and consolidated billing.
- C. Use AWS CloudFormation to deploy the infrastructure.
- D. Rightsized all the EC2 instances that are used in the deployment.

Answer: D

Explanation:

Rightsizing all the EC2 instances that are used in the deployment is the best way to run the workload in the most cost-effective way. Rightsizing means choosing the optimal instance type and size for the workload based on the performance and capacity requirements. Rightsizing helps to avoid over-provisioning or under-provisioning of the EC2 instances, which can result in wasted resources or poor performance. Rightsizing also helps to take advantage of the different pricing models and features that AWS offers, such as On-Demand, Reserved, and Spot Instances, and Auto Scaling. For more information, see [Rightsizing Your Instances and \[Cost Optimization with AWS\]](#).

NEW QUESTION 240

- (Topic 2)

Which AWS services can a company use to host and run a MySQL database? (Select TWO.)

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon S3
- D. Amazon EC2
- E. Amazon MQ

Answer: AD

Explanation:

Amazon RDS and Amazon EC2 are two AWS services that you can use to host and run a MySQL database. Amazon RDS is a service that makes it easy to set up, operate, and scale a relational database in the cloud. You can use Amazon RDS to launch a MySQL database instance and let Amazon RDS manage common database tasks such as backups, patching, scaling, and replication⁶. Amazon EC2 is a service that provides secure, resizable compute capacity in the cloud. You can use Amazon EC2 to launch a virtual server and install MySQL software on it. You have complete control over your database configuration, but you are responsible for managing and maintaining the database software and the underlying infrastructure⁷. Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance. Amazon MQ is a managed message broker service for Apache ActiveMQ. None of these services can help you host and run a MySQL database.

NEW QUESTION 245

- (Topic 2)

A company wants to implement controls (guardrails) in a newly created AWS Control Tower landing zone.

Which AWS services or features can the company use to create and define these controls (guardrails)? (Select TWO.)

- A. AWS Config
- B. Service control policies (SCPs)
- C. Amazon GuardDuty
- D. AWS Identity and Access Management (IAM)
- E. Security groups

Answer: AB

Explanation:

AWS Config and service control policies (SCPs) are AWS services or features that the company can use to create and define controls (guardrails) in a newly created AWS Control Tower landing zone. AWS Config is a service that enables users to assess, audit, and evaluate the configurations of their AWS resources. It can be used to create rules that check for compliance with the desired configurations and report any deviations. AWS Control Tower provides a set of predefined

AWS Config rules that can be enabled as guardrails to enforce compliance across the landing zone1. Service control policies (SCPs) are a type of policy that can be used to manage permissions in AWS Organizations. They can be used to restrict the actions that the users and roles in the member accounts can perform on the AWS resources. AWS Control Tower provides a set of predefined SCPs that can be enabled as guardrails to prevent access to certain services or regions across the landing zone2. Amazon GuardDuty is a service that provides intelligent threat detection and continuous monitoring for AWS accounts and resources. It is not a feature that can be used to create and define controls (guardrails) in a landing zone. AWS Identity and Access Management (IAM) is a service that allows users to manage access to AWS resources and services. It can be used to create users, groups, roles, and policies that control who can do what in AWS. It is not a feature that can be used to create and define controls (guardrails) in a landing zone. Security groups are virtual firewalls that control the inbound and outbound traffic for Amazon EC2 instances. They can be used to allow or deny access to an EC2 instance based on the port, protocol, and source or destination. They are not a feature that can be used to create and define controls (guardrails) in a landing zone.

NEW QUESTION 249

- (Topic 2)

Which AWS service or tool offers consolidated billing?

- A. AWS Artifact
 - B. AWS Budgets
 - C. AWS Organizations
 - D. AWS Trusted Advisor
- A company wants to limit its employees' AWS access to a portfolio of predefined AWS resources.

Answer: C

Explanation:

AWS Organizations is a service that enables you to consolidate multiple AWS accounts into an organization that you create and centrally manage. With AWS Organizations, you can create a single payment method for all the AWS accounts in your organization through consolidated billing. Consolidated billing enables you to see a combined view of AWS charges incurred by all accounts in your organization, as well as get a detailed cost report for each individual AWS account associated with your organization. AWS Artifact is a service that provides on-demand access to AWS' security and compliance reports and select online agreements. AWS Budgets is a service that enables you to plan your service usage, service costs, and instance reservations. AWS Trusted Advisor is a service that provides real-time guidance to help you provision your resources following AWS best practices. None of these services or tools offer consolidated billing.

NEW QUESTION 253

- (Topic 2)

Which AWS services or tools are designed to protect a workload from SQL injections, cross-site scripting, and DDoS attacks? (Select TWO.)

- A. VPC endpoint
- B. Virtual private gateway
- C. AWS Shield Standard
- D. AWS Config
- E. AWS WAF

Answer: C

Explanation:

AWS Shield Standard and AWS WAF are the AWS services or tools that are designed to protect a workload from SQL injections, cross-site scripting, and DDoS attacks.

According to the AWS Shield Developer Guide, "AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection."5 According to the AWS WAF Developer Guide, "AWS WAF is a web application firewall that helps protect your web applications or APIs against common web exploits that may affect availability, compromise security, or consume excessive resources. AWS WAF gives you control over how traffic reaches your applications by enabling you to create security rules that block common attack patterns, such as SQL injection or cross-site scripting, and rules that filter out specific traffic patterns you define." VPC endpoint, virtual private gateway, and AWS Config are not designed to protect a workload from these types of attacks.

NEW QUESTION 256

- (Topic 2)

A company provides a web-based ecommerce service that runs in two Availability Zones within a single AWS Region. The web service distributes content that is stored in the Amazon S3 Standard storage class. The company wants to improve the web service's performance globally.

What should the company do to meet this requirement?

- A. Change the S3 storage class to S3 Intelligent-Tiering.
- B. Deploy an Amazon CloudFront distribution to cache web server content in edge locations.
- C. Use Amazon API Gateway for the web service.
- D. Migrate the website ecommerce servers to Amazon EC2 with enhanced networking.

Answer: B

Explanation:

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment. CloudFront can cache web server content in edge locations, which are located closer to the end users, to improve the web service's performance globally2.

NEW QUESTION 257

- (Topic 2)

A company manages factory machines in real time. The company wants to use AWS technology to deploy its monitoring applications as close to the factory machines as possible.

Which AWS solution will meet these requirements with the LEAST latency?

- A. AWS Outposts
- B. Amazon EC2
- C. AWS App Runner

D. AWS Batch

Answer: A

Explanation:

AWS Outposts is a fully managed service that extends AWS infrastructure, AWS services, APIs, and tools to virtually any datacenter, co-location space, or on-premises facility for a truly consistent hybrid experience. AWS Outposts enables you to run AWS services in your on-premises data center1.

NEW QUESTION 260

- (Topic 2)

Which AWS service or tool helps companies measure the environmental impact of their AWS usage?

- A. AWS customer carbon footprint tool
- B. AWS Compute Optimizer
- C. Sustainability pillar
- D. OS-Climate (Open Source Climate Data Commons)

Answer: A

Explanation:

AWS customer carbon footprint tool is an AWS service or tool that helps companies measure the environmental impact of their AWS usage. It allows users to estimate the carbon emissions associated with their AWS resources and services, such as EC2, S3, and Lambda. It also provides recommendations and best practices to reduce the carbon footprint and improve the sustainability of their AWS workloads4. AWS Compute Optimizer is an AWS service that helps users optimize the performance and cost of their EC2 instances and Auto Scaling groups. It provides recommendations for optimal instance types, sizes, and configurations based on the workload characteristics and utilization metrics. It does not help users measure the environmental impact of their AWS usage. Sustainability pillar is a concept that refers to the ability of a system to operate in an environmentally friendly and socially responsible manner. It is not an AWS service or tool that helps users measure the environmental impact of their AWS usage. OS-Climate (Open Source Climate Data Commons) is an initiative that aims to provide open source data, tools, and platforms to accelerate climate action and innovation. It is not an AWS service or tool that helps users measure the environmental impact of their AWS usage.

NEW QUESTION 264

- (Topic 2)

A company wants to migrate its Microsoft SQL Server database management system from on premises to the AWS Cloud.

Which AWS service should the company use to reduce management overhead for this environment?

- A. Amazon Elastic Container Service (Amazon ECS)
- B. Amazon SageMaker
- C. Amazon RDS
- D. Amazon Athena

Answer: C

Explanation:

Amazon Relational Database Service (Amazon RDS) is the AWS service that the company should use to migrate its Microsoft SQL Server database management system from on premises to the AWS Cloud. Amazon RDS is a fully managed service that provides a scalable, secure, and high-performance relational database platform. Amazon RDS supports several database engines, including Microsoft SQL Server. Amazon RDS reduces the management overhead for the database environment by taking care of tasks such as provisioning, patching, backup, recovery, and monitoring. For more information, see [What is Amazon Relational Database Service \(Amazon RDS\)?](#) and [Amazon RDS for SQL Server](#).

NEW QUESTION 265

- (Topic 2)

A company wants to push VPC Flow Logs to an Amazon S3 bucket.

A company wants to optimize long-term compute costs of AWS Lambda functions and Amazon EC2 instances.

Which AWS purchasing option should the company choose to meet these requirements?

- A. Dedicated Hosts
- B. Compute Savings Plans
- C. Reserved Instances
- D. Spot Instances

Answer: B

Explanation:

Compute Savings Plans are a flexible and cost-effective way to optimize long-term compute costs of AWS Lambda functions and Amazon EC2 instances. With Compute Savings Plans, customers can commit to a consistent amount of compute usage (measured in \$/hour) for a 1-year or 3-year term and receive a discount of up to 66% compared to On-Demand prices3. Dedicated Hosts are physical servers with EC2 instance capacity fully dedicated to the customer's use. They are suitable for customers who have specific server-bound software licenses or compliance requirements4. Reserved Instances are a pricing model that provides a significant discount (up to 75%) compared to On-Demand pricing and a capacity reservation for EC2 instances. They are available in 1-year or 3-year terms and different payment options5. Spot Instances are spare EC2 instances that are available at up to 90% discount compared to On-Demand prices. They are suitable for customers who have flexible start and end times, can withstand interruptions, and can handle excess capacity.

NEW QUESTION 270

- (Topic 2)

Which options are perspectives that include foundational capabilities of the AWS Cloud Adoption Framework (AWS CAF)? (Select TWO.)

- A. Sustainability
- B. Security
- C. Operations
- D. Performance efficiency

E. Reliability

Answer: CD

Explanation:

The options that are perspectives that include foundational capabilities of the AWS Cloud Adoption Framework (AWS CAF) are operations and performance efficiency. The AWS CAF is a guidance that helps organizations design and travel an accelerated path to successful cloud adoption. The AWS CAF organizes the cloud adoption process into six areas of focus, called perspectives, which are business, people, governance, platform, security, and operations. Each perspective is divided into capabilities, which are further divided into skills and responsibilities. The operations perspective focuses on the management and monitoring of the cloud resources and applications, as well as the automation and optimization of the operational processes. The operations perspective capabilities are operations support, operations integration, and service management. The performance efficiency perspective focuses on the selection and configuration of the right cloud resources and services to meet the performance requirements of the applications, as well as the continuous improvement and innovation of the cloud solutions. The performance efficiency perspective capabilities are selection, review, and monitoring. Sustainability, security, and reliability are not perspectives of the AWS CAF, but they are aspects of the AWS Well-Architected Framework. The AWS Well-Architected Framework is a guidance that helps users build and operate secure, reliable, efficient, and cost-effective systems in the cloud. The AWS Well-Architected Framework consists of five pillars, which are operational excellence, security, reliability, performance efficiency, and cost optimization. Sustainability is a cross-cutting theme that applies to all the pillars, and refers to the environmental and social impact of the cloud solutions.

NEW QUESTION 273

- (Topic 2)

Which option is a perspective that includes foundational capabilities of the AWS Cloud Adoption Framework (AWS CAF)?

- A. Sustainability
- B. Operations
- C. Performance efficiency
- D. Reliability

Answer: B

Explanation:

Operations is an option that is a perspective that includes foundational capabilities of the AWS Cloud Adoption Framework (AWS CAF). Operations is one of the six perspectives of the AWS CAF, along with business, people, governance, platform, and security. Operations focuses on the processes and procedures to support the ongoing management and maintenance of the cloud-based IT assets. It covers topics such as monitoring, backup and recovery, change management, incident management, and automation. Sustainability is not a perspective of the AWS CAF, but a concept that refers to the ability of a system to operate in an environmentally friendly and socially responsible manner. Performance efficiency is not a perspective of the AWS CAF, but a pillar of the AWS Well-Architected Framework. It focuses on using the right resources and services for the workload, monitoring performance, and continuously improving the efficiency of the solution. Reliability is not a perspective of the AWS CAF, but a pillar of the AWS Well-Architected Framework. It focuses on the ability of a system to recover from infrastructure or service disruptions, dynamically acquire computing resources to meet demand, and mitigate disruptions such as misconfigurations or transient network issues.

NEW QUESTION 277

- (Topic 2)

Which AWS service requires the customer to patch the guest operating system?

- A. AWS Lambda
- B. Amazon OpenSearch Service
- C. Amazon EC2
- D. Amazon ElastiCache

Answer: C

Explanation:

The AWS service that requires the customer to patch the guest operating system is Amazon EC2. Amazon EC2 is a service that provides scalable compute capacity in the cloud, and allows customers to launch and run virtual servers, called instances, with a variety of operating systems, configurations, and specifications. The customer is responsible for patching and updating the guest operating system and any applications that run on the EC2 instances, as part of the security in the cloud. AWS Lambda, Amazon OpenSearch Service, and Amazon ElastiCache are not services that require the customer to patch the guest operating system. AWS Lambda is a serverless compute service that allows customers to run code without provisioning or managing servers. Amazon OpenSearch Service is a fully managed service that makes it easy to deploy, operate, and scale OpenSearch clusters in the AWS Cloud. Amazon ElastiCache is a fully managed service that provides in-memory data store and cache solutions, such as Redis and Memcached. These services are managed by AWS, and AWS is responsible for patching and updating the underlying infrastructure and software.

NEW QUESTION 279

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