

Amazon-Web-Services

Exam Questions CLF-C01

AWS Certified Cloud Practitioner



NEW QUESTION 1

- (Topic 3)

A company needs to store data from a recommendation engine in a database.

Which AWS service provides this functionality with the LEAST operational overhead?

- A. Amazon RDS for PostgreSQL
- B. Amazon DynamoDB
- C. Amazon Neptune
- D. Amazon Aurora

Answer: B

Explanation:

Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. It's a fully managed, multi-region, multi-active, durable database with built-in security, backup and restore, and in-memory caching for internet-scale applications. DynamoDB can handle more than 10 trillion requests per day and can support peaks of more than 20 million requests per second. DynamoDB provides the least operational overhead for storing data from a recommendation engine, as it does not require any server provisioning, patching, or maintenance³

NEW QUESTION 2

- (Topic 3)

A company is using a central data platform to manage multiple types of data for its customers. The company wants to use AWS services to discover, transform, and visualize the data.

Which combination of AWS services should the company use to meet these requirements?

(Select TWO.)

- A. AWS Glue
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Redshift
- D. Amazon QuickSight
- E. Amazon Quantum Ledger Database (Amazon QLDB)

Answer: AC

Explanation:

AWS Glue is a fully managed extract, transform, and load (ETL) service that makes it easy to prepare and load data for analytics. AWS Glue can discover data sources, transform data, and make it available for analysis by using data catalogs and workflows. Amazon Redshift is a fully managed, petabyte-scale data warehouse service in the cloud that enables customers to analyze data using standard SQL and existing business intelligence tools. Amazon Redshift can also integrate with other AWS services to visualize and transform data. 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. Amazon QuickSight is a fast, cloud-powered business intelligence service that makes it easy to deliver insights to everyone in an organization. Amazon Quantum Ledger Database (Amazon QLDB) is a fully managed ledger database that provides a transparent, immutable, and cryptographically verifiable transaction log owned by a central trusted authority.

NEW QUESTION 3

- (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 4

- (Topic 3)

A company is migrating to the AWS Cloud to meet storage needs. The company wants to optimize costs based on the amount of storage that the company uses.

Which AWS offering or benefit will meet these requirements MOST cost-effectively?

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

Answer: D

Explanation:

Volume-based discounts are an AWS offering or benefit that can help the company optimize costs based on the amount of storage that the company uses.

Volume-based discounts are discounts that AWS provides for some storage services, such as Amazon S3 and Amazon EBS, when the company stores a large amount of data. The more data the company stores, the lower the price per GB. For example, Amazon S3 offers six storage classes, each with a different price per GB. The price per GB decreases as the amount of data stored in each storage class increases

NEW QUESTION 5

- (Topic 3)

A developer has been hired by a large company and needs AWS credentials. Which are security best practices that should be followed? (Select TWO.)

- A. Grant the developer access to only the AWS resources needed to perform the job.
- B. Share the AWS account root user credentials with the developer.
- C. Add the developer to the administrator's group in AWS IAM.
- D. Configure a password policy that ensures the developer's password cannot be changed.
- E. Ensure the account password policy requires a minimum length.

Answer: AE

Explanation:

The security best practices that should be followed are A and E.

- * A. Grant the developer access to only the AWS resources needed to perform the job. This is an example of the principle of least privilege, which means giving the minimum permissions necessary to achieve a task. This reduces the risk of unauthorized access, data leakage, or accidental damage to AWS resources. You can use AWS Identity and Access Management (IAM) to create users, groups, roles, and policies that grant fine-grained access to AWS resources¹².
- * E. Ensure the account password policy requires a minimum length. This is a basic security measure that helps prevent brute-force attacks or guessing of passwords. A longer password is harder to crack than a shorter one. You can use IAM to configure a password policy that enforces a minimum password length, as well as other requirements such as complexity, expiration, and history³⁴.
- * B. Share the AWS account root user credentials with the developer. This is a bad practice that should be avoided. The root user has full access to all AWS resources and services, and can perform sensitive actions such as changing billing information, closing the account, or deleting all resources. Sharing the root user credentials exposes your account to potential compromise or misuse. You should never share your root user credentials with anyone, and use them only for account administration tasks⁵.
- * C. Add the developer to the administrator's group in IAM. This is also a bad practice that should be avoided. The administrator's group has full access to all AWS resources and services, which is more than what a developer needs to perform their job. Adding the developer to the administrator's group violates the principle of least privilege and increases the risk of unauthorized access, data leakage, or accidental damage to AWS resources. You should create a custom group for the developer that grants only the necessary permissions for their role¹².
- * D. Configure a password policy that ensures the developer's password cannot be changed. This is another bad practice that should be avoided. Preventing the developer from changing their password reduces their ability to protect their credentials and comply with security policies. For example, if the developer's password is compromised, they cannot change it to prevent further unauthorized access. Or if the company requires periodic password rotation, they cannot update their password to meet this requirement. You should allow the developer to change their password as needed, and enforce a password policy that sets reasonable rules for password management³⁴.

NEW QUESTION 6

- (Topic 3)

A company wants to make an upfront commitment for continued use of its production Amazon EC2 instances in exchange for a reduced overall cost. Which pricing options meet these requirements with the LOWEST cost? (Select TWO.)

- A. Spot Instances
- B. On-Demand Instances
- C. Reserved Instances
- D. Savings Plans
- E. Dedicated Hosts

Answer: CD

Explanation:

Reserved Instances (RIs) are a pricing model that allows you to reserve EC2 instances for a specified period of time (one or three years) and receive a significant discount compared to On-Demand pricing. RIs are suitable for workloads that have predictable usage patterns and require a long-term commitment. You can choose between three payment options: All Upfront, Partial Upfront, or No Upfront. The more you pay upfront, the greater the discount¹.

Savings Plans are a flexible pricing model that can help you reduce your EC2 costs by up to 72% compared to On-Demand pricing, in exchange for a commitment to a consistent amount of usage (measured in \$/hour) for a one or three year term. Savings Plans apply to usage across EC2, AWS Lambda, and AWS Fargate. You can choose between two types of Savings Plans: Compute Savings Plans and EC2 Instance Savings Plans. Compute Savings Plans offer the most flexibility and apply to any instance family, size, OS, tenancy, or region. EC2 Instance Savings Plans offer the highest discount and apply to a specific instance family within a region².

Spot Instances are a pricing model that allows you to bid for unused EC2 capacity in the AWS cloud and are available at a discount of up to 90% compared to On-Demand pricing. Spot Instances are suitable for fault-tolerant or stateless workloads that can run on heterogeneous hardware and have flexible start and end times. However, Spot Instances are not guaranteed and can be interrupted by AWS at any time if the demand for capacity increases or your bid price is lower than the current Spot price³.

On-Demand Instances are a pricing model that allows you to pay for compute capacity by the hour or second with no long-term commitments. On-Demand Instances are suitable for short-term, spiky, or unpredictable workloads that cannot be interrupted, or for applications that are being developed or tested on EC2 for the first time. However, On-Demand Instances are the most expensive option among the four pricing models⁴.

Dedicated Hosts are physical EC2 servers fully dedicated for your use. Dedicated Hosts can help you reduce costs by allowing you to use your existing server-bound software licenses, such as Windows Server, SQL Server, and SUSE Linux Enterprise Server. Dedicated Hosts can be purchased On-Demand or as part of Savings Plans. Dedicated Hosts are suitable for workloads that need to run on dedicated physical servers or have strict licensing requirements. However, Dedicated Hosts are not the lowest cost option among the four pricing models.

NEW QUESTION 7

- (Topic 3)

Which AWS service is a cloud security posture management (CSPM) service that aggregates alerts from various AWS services and partner products in a standardized format?

- A. AWS Security Hub
- B. AWS Trusted Advisor
- C. Amazon EventBridge
- D. Amazon GuardDuty

Answer: A

Explanation:

AWS Security Hub is a cloud security posture management (CSPM) service that performs security best practice checks, aggregates alerts, and enables automated remediation. Security Hub collects findings from the security services enabled across your AWS accounts, such as intrusion detection findings from Amazon GuardDuty, vulnerability scans from Amazon Inspector, and sensitive data identification findings from Amazon Macie. Security Hub also collects findings from partner security products using a standardized AWS Security Finding Format, eliminating the need for time-consuming data parsing and normalization efforts. Customers can designate an administrator account that can access all findings across their accounts. References: AWS Security Hub Overview, AWS Security Hub FAQs

NEW QUESTION 8

- (Topic 3)

What is the LEAST expensive AWS Support plan that provides the full set of AWS Trusted Advisor best practice checks for cost optimization?

- A. AWS Enterprise Support
- B. AWS Business Support
- C. AWS Developer Support
- D. AWS Basic Support

Answer: B

Explanation:

AWS Business Support is the least expensive AWS Support plan that provides the full set of AWS Trusted Advisor best practice checks for cost optimization. AWS Trusted Advisor is a service that provides best practices and recommendations for cost optimization, performance, security, and fault tolerance. AWS Business Support also provides other benefits, such as 24/7 technical support, unlimited cases, and faster response times. AWS Enterprise Support is the most expensive AWS Support plan that provides the same benefits as AWS Business Support, plus additional benefits, such as a technical account manager and enterprise concierge support. AWS Developer Support and AWS Basic Support are cheaper AWS Support plans that provide only a limited set of AWS Trusted Advisor best practice checks for cost optimization .

NEW QUESTION 9

- (Topic 3)

A company wants to migrate its on-premises workloads to the AWS Cloud. The company wants to separate workloads for chargeback to different departments. Which AWS services or features will meet these requirements? (Select TWO.)

- A. Placement groups
- B. Consolidated billing
- C. Edge locations
- D. AWS Config
- E. Multiple AWS accounts

Answer: BE

Explanation:

Consolidated billing is a feature of AWS Organizations that enables customers to consolidate billing and payment for multiple AWS accounts. With consolidated billing, customers can group multiple AWS accounts under one payer account, making it easier to manage billing and track costs across multiple accounts. Consolidated billing also offers benefits such as volume discounts, Reserved Instance discounts, and Savings Plans discounts. Consolidated billing is offered at no additional cost.

Multiple AWS accounts is a feature of AWS Organizations that enables customers to create and manage multiple AWS accounts from a central location. With multiple AWS accounts, customers can isolate workloads for different departments, projects, or environments, and apply granular access controls and policies to each account. Multiple AWS accounts also helps customers improve security, compliance, and governance of their AWS resources⁵⁶. References: 5:

Consolidated billing for AWS Organizations - AWS

Billing, 6: Understanding Consolidated Bills - AWS Billing, 7: AWS Consolidated Billing: Tutorial & Best Practices, 8: Simplifying Your Bills With Consolidated Billing on AWS - Aimably, 9: AWS Consolidated Billing - W3Schools

NEW QUESTION 10

- (Topic 3)

A company encourages its teams to test failure scenarios regularly and to validate their understanding of the impact of potential failures.

Which pillar of the AWS Well-Architected Framework does this philosophy represent?

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

Answer: A

Explanation:

This is the pillar of the AWS Well-Architected Framework that represents the philosophy of testing failure scenarios regularly and validating the understanding of the impact of potential failures. The operational excellence pillar covers the best practices for designing, running, monitoring, and improving systems in the AWS Cloud. Testing failure scenarios is one of the ways to improve the system's resilience, reliability, and recovery. You can learn more about the operational excellence pillar from this whitepaper or this digital course.

NEW QUESTION 10

- (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 12

- (Topic 3)

A company that has multiple business units wants to centrally manage and govern its AWS Cloud environments. The company wants to automate the creation of AWS accounts, apply service control policies (SCPs), and simplify billing processes.

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

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

Answer: A

Explanation:

AWS Organizations is an AWS service that enables you to centrally manage and govern your AWS Cloud environments across multiple business units. AWS Organizations allows you to create an organization that consists of AWS accounts that you create or invite to join. You can group your accounts into organizational units (OUs) and apply service control policies (SCPs) to them. SCPs are a type of policy that specify the maximum permissions for the accounts in your organization, and can help you enforce compliance and security requirements. AWS Organizations also simplifies billing processes by enabling you to consolidate and pay for all member accounts with a single payment method. You can also use AWS Organizations to automate the creation of AWS accounts by using APIs or AWS CloudFormation templates. References: What is AWS Organizations?, Policy-Based Management - AWS Organizations

NEW QUESTION 16

- (Topic 3)

An ecommerce company has migrated its IT infrastructure from an on-premises data center to the AWS Cloud. Which cost is the company's direct responsibility?

- A. Cost of application software licenses
- B. Cost of the hardware infrastructure on AWS
- C. Cost of power for the AWS servers
- D. Cost of physical security for the AWS data center

Answer: A

Explanation:

The cost of application software licenses is the company's direct responsibility when it migrates its IT infrastructure from an on-premises data center to the AWS Cloud. Application software licenses are the agreements that grant users the right to use specific software products, such as operating systems, databases, or applications. Depending on the type and terms of the license, users may need to pay a fee to the software vendor or provider to use the software legally and access its features and updates. When users migrate their IT infrastructure to the AWS Cloud, they can choose to buy new licenses from AWS, bring their own licenses (BYOL), or use a combination of both. However, regardless of the option they choose, they are still responsible for complying with the license terms and paying the license fees to the software vendor or provider. AWS does not charge users for the application software licenses they bring or buy, but only for the AWS resources they use to run their applications. Therefore, the cost of application software licenses is the only cost among the options that is the company's direct responsibility. The other costs are either included in the AWS service fees or covered by AWS.

References: AWS License Manager Pricing, Software licensing: The blind spot in public cloud costs, Cost Optimization tips for SQL Server Licenses on AWS, Microsoft Licensing on AWS

NEW QUESTION 21

- (Topic 3)

What is a benefit of using AWS serverless computing?

- A. Application deployment and management are not required
- B. Application security will be fully managed by AWS
- C. Monitoring and logging are not needed
- D. Management of infrastructure is offloaded to AWS

Answer: D

Explanation:

AWS serverless computing is a way of building and running applications without thinking about servers. AWS manages the infrastructure for you, so you don't have to provision, scale, patch, or monitor servers. You only pay for the compute time you consume, and you can focus on your application logic instead of managing servers¹². References: Serverless Computing – Amazon Web Services, AWS Serverless Computing, Benefits, Architecture and Use-cases - XenonStack

NEW QUESTION 22

- (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 24

- (Topic 3)

A company wants to receive a notification when a specific AWS cost threshold is reached. Which AWS services or tools can the company use to meet this requirement? (Select TWO.)

- A. Amazon Simple Queue Service (Amazon SQS)
- B. AWS Budgets
- C. Cost Explorer
- D. Amazon CloudWatch
- E. AWS Cost and Usage Report

Answer: BD

Explanation:

AWS Budgets and Amazon CloudWatch are two AWS services or tools that the company can use to receive a notification when a specific AWS cost threshold is reached. AWS Budgets allows users to set custom budgets to track their costs and usage, and respond quickly to alerts received from email or Amazon Simple Notification Service (Amazon SNS) notifications if they exceed their threshold. Users can create cost budgets with fixed or variable target amounts, and configure their notifications for actual or forecasted spend. Users can also set up custom actions to run automatically or through an approval process when a budget target is exceeded. For example, users could automatically apply a custom IAM policy that denies them the ability to provision additional resources within an account. Amazon CloudWatch is a service that monitors applications, responds to performance changes, optimizes resource use, and provides insights into operational health. Users can use CloudWatch to collect and track metrics, which are variables they can measure for their resources and applications. Users can create alarms that watch metrics and send notifications or automatically make changes to the resources they are monitoring when a threshold is breached. Users can use CloudWatch to monitor their AWS costs and usage by creating billing alarms that send notifications when their estimated charges exceed a specified threshold amount. Users can also use CloudWatch to monitor their Reserved Instance (RI) or Savings Plans utilization and coverage, and receive notifications when they fall below a certain level.

References: Cloud Cost And Usage Budgets - AWS Budgets, What is Amazon CloudWatch?, Creating a billing alarm - Amazon CloudWatch

NEW QUESTION 29

- (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 31

- (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 33

- (Topic 3)

A company wants to minimize network latency between its Amazon EC2 instances. The EC2 instances do not need to be highly available.

Which solution meets these requirements?

- A. Use EC2 instances in a single Availability Zone.
- 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 the same edge location and the same AWS Region.

Answer: A

Explanation:

Using EC2 instances in a single Availability Zone is a solution that meets the requirements of minimizing network latency between the EC2 instances and not needing high availability. An Availability Zone is a physically isolated location within an AWS Region that has its own power, cooling, and network connectivity. EC2 instances within the same Availability Zone can communicate with each other using low-latency private IP addresses. However, EC2 instances in a single Availability Zone are not highly available, because they are vulnerable to failures or disruptions that affect the Availability Zone

NEW QUESTION 38

- (Topic 3)

Which benefits can customers gain by using AWS Marketplace? (Select TWO.)

- A. Speed of business
- B. Fewer legal objections
- C. Ability to pay with credit cards
- D. No requirement for product licenses for any products
- E. Free use of all services for the first hour

Answer: AB

Explanation:

AWS Marketplace is a digital catalog that offers thousands of software products and solutions from independent software vendors (ISVs) and AWS partners.

Customers can use AWS Marketplace to find, buy, and deploy software on AWS. Some of the benefits of using AWS Marketplace are:

? Speed of business: You can quickly and easily discover and deploy software that meets your business needs, without having to go through lengthy procurement processes. You can also use AWS Marketplace to test and compare different solutions before making a purchase decision.

? Fewer legal objections: You can benefit from standardized contract terms and conditions that are pre-negotiated between AWS and the ISVs. This reduces the time and effort required to review and approve legal agreements.

NEW QUESTION 40

- (Topic 3)

A company processes personally identifiable information (PII) and must keep data in the country where it was generated. The company wants to use Amazon EC2 instances for these workloads.

Which AWS service will meet these requirements?

- A. AWS Outposts
- B. AWS Storage Gateway
- C. AWS DataSync
- D. AWS OpsWorks

Answer: A

Explanation:

AWS Outposts is an AWS service that extends AWS infrastructure, services, APIs, and tools to virtually any datacenter, co-location space, or on-premises facility.

AWS Outposts enables you to run Amazon EC2 instances and other AWS services locally, while maintaining a consistent and seamless connection to the AWS Cloud. AWS Outposts is ideal for workloads that require low latency, local data processing, or data residency. By using AWS Outposts, the company can process personally identifiable information (PII) and keep data in the country where it was generated, while leveraging the benefits of AWS

NEW QUESTION 44

- (Topic 3)

A company wants to receive alerts to monitor its overall operating costs for its AWS public cloud infrastructure.
Which AWS offering will meet these requirements?

- A. Amazon EventBridge
- B. Compute Savings Plans
- C. AWS Budgets
- D. Migration Evaluator

Answer: C

Explanation:

AWS Budgets is a service that enables you to plan your service usage, service costs, and instance reservations. You can use AWS Budgets to create custom budgets that alert you when your costs or usage exceed (or are forecasted to exceed) your budgeted amount. You can also use AWS Budgets to monitor how close your usage and costs are to meeting your reservation purchases¹

NEW QUESTION 49

- (Topic 3)

A company needs to identify who accessed an AWS service and what action was performed for a given time period.
Which AWS service should the company use to meet this requirement?

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. AWS Security Hub
- D. Amazon Inspector

Answer: B

Explanation:

AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. You can use CloudTrail to identify who accessed an AWS service and what action was performed for a given time period. Amazon CloudWatch, AWS Security Hub, and Amazon Inspector are AWS services that provide different types of monitoring and security capabilities.

NEW QUESTION 53

- (Topic 3)

In the AWS shared responsibility model, which tasks are the responsibility of AWS? (Select TWO.)

- A. Patch an Amazon EC2 instance operating system.
- B. Configure a security group.
- C. Monitor the health of an Availability Zone.
- D. Protect the infrastructure that runs Amazon EC2 instances.
- E. Manage access to the data in an Amazon S3 bucket

Answer: CD

Explanation:

According to the AWS shared responsibility model, AWS is responsible for the security of the cloud, which includes the tasks of monitoring the health of an Availability Zone and protecting the infrastructure that runs Amazon EC2 instances. An Availability Zone is a physically isolated location within an AWS Region that has its own power, cooling, and network connectivity. AWS monitors the health and performance of each Availability Zone and notifies customers of any issues or disruptions. AWS also protects the infrastructure that runs AWS services, such as Amazon EC2, by implementing physical, environmental, and operational security measures. AWS is not responsible for patching an Amazon EC2 instance operating system, configuring a security group, or managing access to the data in an Amazon S3 bucket. These are the customer's responsibilities for security in the cloud. The customer must ensure that the operating system and applications on their EC2 instances are up to date and secure. The customer must also configure the security group rules that control the inbound and outbound traffic for their EC2 instances. The customer must also manage the access permissions and encryption settings for their S3 buckets and objects²

NEW QUESTION 54

- (Topic 3)

A software engineer wants to launch a virtual machine (VM) and MySQL database on AWS.
Which AWS service will meet these requirements with the LEAST operational effort?

- A. Amazon Elastic Container Service (Amazon ECS)
- B. AWS Elastic Beanstalk
- C. Amazon Lightsail
- D. Amazon EC2

Answer: B

Explanation:

AWS Elastic Beanstalk is a service that enables you to quickly deploy and manage applications in the AWS Cloud without worrying about the infrastructure that runs those applications. You simply upload your application, and Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring. Elastic Beanstalk supports several platform configurations for Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker web applications that can run on familiar servers such as Apache, Nginx, Passenger, and IIS. You can also use Elastic Beanstalk to launch a virtual machine (VM)

and MySQL database on AWS with the least operational effort. Amazon Elastic Container Service (Amazon ECS) is a fully managed container orchestration service that enables you to easily run, scale, and secure Docker containerized applications on AWS. However, it requires more operational effort than Elastic Beanstalk, as you need to define your application architecture and the specifications of the containers that run it. Amazon Lightsail is an easy-to-use cloud platform that offers everything you need to build an application or website, plus a cost-effective, monthly plan. It is designed for developers who have little or no prior cloud experience and want to launch and manage applications on AWS with minimal complexity. However, it does not support MySQL databases, and it requires more operational effort than Elastic Beanstalk, as you need to configure your VM and database settings. Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud. It allows you to launch a virtual machine (VM) and MySQL database on AWS, but it requires the most operational effort, as you need to provision, monitor, and manage your EC2 instances and database.

NEW QUESTION 58

- (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 61

- (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 62

- (Topic 3)

A company needs a fully managed file server that natively supports Microsoft workloads and file systems. The file server must also support the SMB protocol.

Which AWS service should the company use to meet these requirements?

- A. Amazon Elastic File System (Amazon EFS)
- B. Amazon FSx for Lustre
- C. Amazon FSx for Windows File Server
- D. Amazon Elastic Block Store (Amazon EBS)

Answer: C

Explanation:

Amazon FSx for Windows File Server is a fully managed file server that supports Microsoft workloads and file systems, including the SMB protocol. It provides features such as user quotas, end-user file restore, and Microsoft Active Directory integration. Amazon EFS is a fully managed file system that supports the NFS protocol, not SMB. Amazon FSx for Lustre is a fully managed file system that supports high-performance computing workloads, not Microsoft workloads. Amazon EBS is a block storage service that does not provide a file system or SMB support. References: Amazon FSx for Windows File Server, Amazon FSx for Lustre, Amazon EFS, Amazon EBS

NEW QUESTION 66

- (Topic 3)

A company wants to set AWS spending targets and track costs against those targets. Which AWS tool or feature should the company use to meet these requirements?

- A. AWS Cost Explorer
- B. AWS Budgets
- C. AWS Cost and Usage Report
- D. Savings Plans

Answer: B

Explanation:

AWS Budgets is a tool that allows users to set AWS spending targets and track costs against those targets. Users can create budgets for various dimensions, such as service, linked account, tag, and more. Users can also receive alerts when the actual or forecasted costs exceed or are projected to exceed the budgeted amount. AWS Cost Explorer, AWS Cost and Usage Report, and Savings Plans are other AWS tools or features that can help users manage and optimize their AWS costs, but they do not enable users to set and track spending targets .

NEW QUESTION 70

- (Topic 3)

Which AWS service provides the ability to manage infrastructure as code?

- A. AWS CodePipeline
- B. AWS CodeDeploy
- C. AWS Direct Connect
- D. AWS CloudFormation

Answer: D

Explanation:

The AWS service that provides the ability to manage infrastructure as code is AWS CloudFormation. Infrastructure as code is a process of defining and provisioning AWS resources using code or templates, rather than manual actions or scripts. AWS CloudFormation allows you to create and update stacks of AWS resources based on predefined templates that describe the desired state and configuration of the resources. AWS CloudFormation automates and simplifies the deployment and management of AWS resources, and ensures consistency and repeatability across different environments and regions. AWS CloudFormation also supports rollback, change sets, drift detection, and nested stacks features that help you to monitor and control the changes to your infrastructure¹.

NEW QUESTION 71

- (Topic 3)

Which AWS services can be used to store files? (Select TWO.)

- A. Amazon S3
- B. AWS Lambda
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon SageMaker
- E. AWS Storage Gateway

Answer: AC

Explanation:

Amazon S3 and Amazon EBS are two AWS services that can be used to store files . Amazon S3 is an object storage service that offers high scalability, durability, availability, and performance. Amazon EBS is a block storage service that provides persistent and low-latency storage volumes for Amazon EC2 instances. AWS Lambda, Amazon SageMaker, and AWS Storage Gateway are other AWS services that have different purposes, such as serverless computing, machine learning, and hybrid cloud storage .

NEW QUESTION 76

- (Topic 3)

Which AWS service provides storage that can be mounted across multiple Amazon EC2 instances?

- A. Amazon Workspaces
- B. Amazon Elastic File System (Amazon EFS)
- C. AWS Database Migration Service (AWS DMS)
- D. AWS Snowball Edge

Answer: B

Explanation:

Amazon EFS is a fully managed service that provides scalable and elastic file storage for multiple Amazon EC2 instances. Amazon EFS supports the Network File System (NFS) protocol, which allows multiple EC2 instances to access the same file system concurrently. You can learn more about Amazon EFS from this webpage or this digital course.

NEW QUESTION 80

- (Topic 3)

A company has a large number of Linux Amazon EC2 instances across several Availability Zones in an AWS Region. Applications that run on the EC2 instances need access to a common set of files.

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

- A. AWS Backup
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Block Store (Amazon EBS)
- D. AWS Snowball Edge Storage Optimized

Answer: B

Explanation:

Amazon Elastic File System (Amazon EFS) is a service that provides a scalable and elastic file system for Linux-based workloads. It can be mounted on multiple Amazon EC2 instances across different Availability Zones within a region, allowing applications to access a common set of files¹. AWS Backup is a service that provides a centralized and automated way to back up data across AWS services. Amazon Elastic Block Store (Amazon EBS) is a service that provides persistent block storage volumes for Amazon EC2 instances. AWS Snowball Edge Storage Optimized is a device that provides a petabyte-scale data transport and edge

computing solution.

NEW QUESTION 85

- (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 87

- (Topic 3)

Which AWS service provides encryption at rest for Amazon RDS and for Amazon Elastic Block Store (Amazon EBS) volumes?

- A. AWS Lambda
- B. AWS Key Management Service (AWS KMS)
- C. AWSWAF
- D. Amazon Rekognition

Answer: B

Explanation:

AWS Key Management Service (AWS KMS) is a managed service that enables you to easily encrypt your data. AWS KMS provides you with centralized control of the encryption keys used to protect your data. You can use AWS KMS to encrypt data in Amazon RDS and Amazon EBS volumes¹²

NEW QUESTION 89

- (Topic 3)

Elasticity in the AWS Cloud refers to which of the following? (Select TWO.)

- A. How quickly an Amazon EC2 instance can be restarted
- B. The ability to rightsized resources as demand shifts
- C. The maximum amount of RAM an Amazon EC2 instance can use
- D. The pay-as-you-go billing model
- E. How easily resources can be procured when they are needed

Answer: BE

Explanation:

Elasticity in the AWS Cloud refers to the ability to acquire resources as you need them and release resources when you no longer need them. In the cloud, you want to do this automatically¹. This means that you can rightsized resources as demand shifts, and you can easily procure resources when they are needed. Elasticity is not related to how quickly an Amazon EC2 instance can be restarted, the maximum amount of RAM an Amazon EC2 instance can use, or the pay-as-you-go billing model. These are aspects of scalability, performance, and cost, respectively².

For more information on elasticity, you can refer to the following sources:

? Elasticity - AWS Well-Architected Framework

? Elastic - Reactive Systems on AWS

? What is the difference between scalability and elasticity?

NEW QUESTION 93

- (Topic 3)

Which AWS service or feature enables users to encrypt data at rest in Amazon S3?

- A. IAM policies
- B. Server-side encryption
- C. Amazon GuardDuty
- D. Client-side encryption

Answer: B

Explanation:

Server-side encryption is an encryption option that Amazon S3 provides to encrypt data at rest in Amazon S3. With server-side encryption, Amazon S3 encrypts an object before saving it to disk in its data centers and decrypts it when you download the objects. You have three server-side encryption options to choose from: SSE-S3, SSE-C, and SSE-KMS. SSE-S3 uses keys that are managed by Amazon S3. SSE-C allows you to manage your own encryption keys. SSE-KMS uses keys that are managed by AWS Key Management Service (AWS KMS)⁵.

NEW QUESTION 94

- (Topic 3)

A company wants to launch multiple workloads on AWS. Each workload is related to a different business unit. The company wants to separate and track costs for

each business unit.

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

- A. Use AWS Organizations and create one account for each business unit.
- B. Use a spreadsheet to control the owners and cost of each resource.
- C. Use an Amazon DynamoDB table to record costs for each business unit.
- D. Use the AWS Billing console to assign owners to resources and track costs.

Answer: A

Explanation:

AWS Organizations is a service that helps you centrally manage and govern your AWS environment. You can use AWS Organizations to create multiple accounts for different business units, and group them into organizational units (OUs) that reflect your organizational structure¹. By doing so, you can separate and track costs for each business unit using the account ID as a cost allocation tag². You can also use AWS Organizations to apply policies and controls to your accounts, such as service control policies (SCPs) and tag policies¹.

The other options are not suitable for meeting the requirements with the least operational overhead. Using a spreadsheet or a DynamoDB table to control and record costs for each business unit would require manual data entry and maintenance, which is prone to errors and inconsistencies. Using the AWS Billing console to assign owners to resources and track costs would also require manual tagging of each resource, which is time-consuming and inefficient.

References:

? 1: What Is AWS Organizations? - AWS Organizations

? 2: Cost Tagging and Reporting with AWS Organizations | AWS Cloud Financial Management

NEW QUESTION 99

- (Topic 3)

A company has 5 TB of data stored in Amazon S3. The company plans to occasionally run queries on the data for analysis.

Which AWS service should the company use to run these queries in the MOST cost- effective manner?

- A. Amazon Redshift
- B. Amazon Athena
- C. Amazon Kinesis
- D. Amazon RDS

Answer: B

Explanation:

Amazon Athena is a serverless, interactive analytics service that allows users to run SQL queries on data stored in Amazon S3. It is ideal for occasional queries on large datasets, as it does not require any server provisioning, configuration, or management. Users only pay for the queries they run, based on the amount of data scanned. Amazon Athena supports various data formats, such as CSV, JSON, Parquet, ORC, and Avro, and integrates with AWS Glue Data Catalog to create and manage schemas. Amazon Athena also supports querying data from other sources, such as on- premises or other cloud systems, using data connectors¹.

Amazon Redshift is a fully managed data warehouse service that allows users to run complex analytical queries on petabyte-scale data. However, it requires users to provision and maintain clusters of nodes, and pay for the storage and compute capacity they use. Amazon Redshift is more suitable for frequent and consistent queries on structured or semi-structured data².

Amazon Kinesis is a platform for streaming data on AWS, enabling users to collect, process, and analyze real-time data. It is not designed for querying data stored in Amazon S3. Amazon Kinesis consists of four services: Kinesis Data Streams, Kinesis Data Firehose, Kinesis Data Analytics, and Kinesis Video Streams³.

Amazon RDS is a relational database service that provides six database engines: Amazon Aurora, PostgreSQL, MySQL, MariaDB, Oracle Database, and SQL Server. It simplifies database administration tasks such as backup, patching, scaling, and replication. However, it is not optimized for querying data stored in Amazon S3. Amazon RDS is more suitable for transactional workloads that require high performance and availability⁴.

References:

? Interactive SQL - Serverless Query Service - Amazon Athena - AWS

? [Amazon Redshift – Data Warehouse Solution - AWS]

? [Amazon Kinesis - Streaming Data Platform - AWS]

? [Amazon Relational Database Service (RDS) – AWS]

NEW QUESTION 100

- (Topic 3)

A company needs to control inbound and outbound traffic for an Amazon EC2 instance.

Which AWS service or feature can the company associate with the EC2 instance to meet this requirement?

- A. Network ACL
- B. Security group
- C. AWS WAF
- D. VPC route tables

Answer: B

Explanation:

A security group is a virtual firewall that can be associated with an Amazon EC2 instance to control the inbound and outbound traffic for the instance. You can specify which protocols, ports, and source or destination IP ranges are allowed or denied by the security group. A network ACL is a stateless filter that can be associated with a subnet to control the traffic to and from the subnet, but it is not associated with an EC2 instance⁴. 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. VPC route tables are used to determine where network traffic is directed within a VPC or to an internet gateway, virtual private gateway, NAT device, VPC peering connection, or VPC endpoint.

NEW QUESTION 101

- (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 102

- (Topic 3)

What is a customer responsibility when using AWS Lambda according to the AWS shared responsibility model?

- A. Managing the code within the Lambda function
- B. Confirming that the hardware is working in the data center
- C. Patching the operating system
- D. Shutting down Lambda functions when they are no longer in use

Answer: A

Explanation:

According to the AWS shared responsibility model, AWS is responsible for the security of the cloud, while customers are responsible for the security in the cloud. This means that AWS is responsible for the physical servers, networking, and operating system that run Lambda functions, while customers are responsible for the security of their code and AWS IAM to the Lambda service and within their function¹. Customers need to manage the code within the Lambda function, such as writing, testing, debugging, deploying, and updating the code, as well as ensuring that the code does not contain any vulnerabilities or malicious code that could compromise the security or performance of the function²³. References: 2: AWS Lambda - Amazon Web Services (AWS), 3: AWS Lambda Documentation, 1: Amazon CLF-C02: What is customer responsibility under AWS ... - PUPUWEB

NEW QUESTION 105

- (Topic 3)

A company wants to design a reliable web application that is hosted on Amazon EC2. Which approach will achieve this goal?

- A. Launch large EC2 instances in the same Availability Zone.
- B. Spread EC2 instances across more than one security group.
- C. Spread EC2 instances across more than one Availability Zone.
- D. Use an Amazon Machine Image (AMI) from AWS Marketplace.

Answer: C

Explanation:

The approach that will achieve the goal of designing a reliable web application that is hosted on Amazon EC2 is to spread EC2 instances across more than one Availability Zone. An Availability Zone is a physically isolated location within an AWS Region that has its own power, cooling, and network connectivity. By spreading EC2 instances across multiple Availability Zones, users can increase the fault tolerance and availability of their web applications, as well as reduce latency for end users². Launching large EC2 instances in the same Availability Zone, spreading EC2 instances across more than one security group, or using an Amazon Machine Image (AMI) from AWS Marketplace are not sufficient to ensure reliability, as they do not provide redundancy or resilience in case of an outage in one Availability Zone.

NEW QUESTION 110

- (Topic 3)

A company wants an AWS service to provide product recommendations based on its customer data. Which AWS service will meet this requirement?

- A. Amazon Polly
- B. Amazon Personalize
- C. Amazon Comprehend
- D. Amazon Rekognition

Answer: B

Explanation:

Amazon Personalize is an AWS service that helps developers quickly build and deploy a custom recommendation engine with real-time personalization and user segmentation¹. It uses machine learning (ML) to analyze customer data and provide relevant recommendations based on their preferences, behavior, and context. Amazon Personalize can be used for various use cases such as optimizing recommendations, targeting customers more accurately, maximizing the value of unstructured text, and promoting items using business rules¹.

The other options are not suitable for providing product recommendations based on customer data. Amazon Polly is a service that converts text into lifelike speech. Amazon Comprehend is a service that uses natural language processing (NLP) to extract insights from text and documents. Amazon Rekognition is a service that uses computer vision (CV) to analyze images and videos for faces, objects, scenes, and activities.

References:

- ? 1: Cloud Products - Amazon Web Services (AWS)
- ? 2: Recommender System – Amazon Personalize – Amazon Web Services
- ? 3: Top 25 AWS Services List 2023 - GeeksforGeeks
- ? 4: AWS to Azure services comparison - Azure Architecture Center
- ? 5: The 25+ Best AWS Cost Optimization Tools (Updated 2023) - CloudZero
- ? 6: Amazon Polly – Text-to-Speech Service - AWS
- ? 7: Natural Language Processing - Amazon Comprehend - AWS

? 8: Image and Video Analysis - Amazon Rekognition - AWS

NEW QUESTION 113

- (Topic 3)

A company wants to run its workload on Amazon EC2 instances for more than 1 year. This workload will run continuously. Which option offers a discounted hourly rate compared to the hourly rate of On-Demand Instances?

- A. AWS Graviton processor
- B. Dedicated Hosts
- C. EC2 Instance Savings Plans
- D. Amazon EC2 Auto Scaling instances

Answer: C

Explanation:

EC2 Instance Savings Plans are a flexible pricing model that offer discounted hourly rates on Amazon EC2 instance usage for a 1 or 3 year term. EC2 Instance Savings Plans provide savings up to 72% off On-Demand rates, in exchange for a commitment to a specific instance family in a chosen AWS Region (for example, M5 in Virginia). These plans automatically apply to usage regardless of size (for example, m5.xlarge, m5.2xlarge, etc.), OS (for example, Windows, Linux, etc.), and tenancy (Host, Dedicated, Default) within the specified family in a Region. With an EC2 Instance Savings Plan, you can change your instance size within the instance family (for example, from c5.xlarge to c5.2xlarge) or the operating system (for example, from Windows to Linux), or move from Dedicated tenancy to Default and continue to receive the discounted rate provided by your EC2 Instance Savings Plan⁴⁵⁶⁷. References: 4: Compute Savings Plans – Amazon Web Services, 5: What are Savings Plans? - Savings Plans, 6: How To Cut Your AWS Bill With Savings Plans (and avoid some common ...), 7: AWS Savings Plans vs Reserved Instances
- GorillaStack

NEW QUESTION 117

- (Topic 3)

Which AWS service provides a single location to track the progress of application migrations?

- A. AWS Application Discovery Service
- B. AWS Application Migration Service
- C. AWS Service Catalog
- D. AWS Migration Hub

Answer: D

Explanation:

AWS Migration Hub is a service that provides a single location to track the progress of application migrations across multiple AWS and partner solutions. It allows you to choose the AWS and partner migration tools that best fit your needs, while providing visibility into the status of migrations across your portfolio of applications¹. AWS Migration Hub supports migration status updates from the following tools: AWS Application Migration Service, AWS Database Migration Service, CloudEndure Migration, Server Migration Service, and Migrate for Compute Engine¹.

The other options are not correct for the following reasons:

? AWS Application Discovery Service is a service that helps you plan your migration projects by automatically identifying servers, applications, and dependencies in your on-premises data centers². It does not track the progress of application migrations, but rather provides information to help you plan and scope your migrations.

? AWS Application Migration Service is a service that helps you migrate and modernize applications from any source infrastructure to AWS with minimal downtime and disruption³. It is one of the migration tools that can send status updates to AWS Migration Hub, but it is not the service that provides a single location to track the progress of application migrations.

? AWS Service Catalog is a service that allows you to create and manage catalogs of IT services that are approved for use on AWS⁴. It does not track the progress of application migrations, but rather helps you manage the provisioning and governance of your IT services.

References:

? 1: What Is AWS Migration Hub? - AWS Migration Hub

? 2: What Is AWS Application Discovery Service? - AWS Application Discovery Service

? 3: App Migration Tool - AWS Application Migration Service - AWS

? 4: What Is AWS Service Catalog? - AWS Service Catalog

NEW QUESTION 122

- (Topic 3)

Which capabilities are in the platform perspective of the AWS Cloud Adoption Framework (AWS CAF)? (Select TWO.)

- A. Performance and capacity management
- B. Data engineering
- C. Continuous integration and continuous delivery (CI/CD)
- D. Infrastructure protection
- E. Change and release management

Answer: BC

Explanation:

These are two of the seven capabilities that are in the platform perspective of the AWS Cloud Adoption Framework (AWS CAF). The platform perspective helps you build an enterprise-grade, scalable, hybrid cloud platform, modernize existing workloads, and implement new cloud-native solutions¹. The other five capabilities are:

? Platform architecture – Establish and maintain guidelines, principles, patterns, and guardrails for your cloud environment.

? Platform engineering – Build a compliant multi-account cloud environment with enhanced security features, and packaged, reusable cloud products.

? Platform operations – Manage and optimize your cloud environment with automation, monitoring, and incident response.

? Application development – Develop and deploy cloud-native applications using modern architectures and best practices.

? Application migration – Migrate your existing applications to the cloud using proven methodologies and tools.

Performance and capacity management, infrastructure protection, and change and release management are not capabilities of the platform perspective. They are part of the operations perspective, which helps you achieve operational excellence in the cloud². The operations perspective comprises six capabilities:

? Performance and capacity management – Monitor and optimize the performance and capacity of your cloud workloads.

- ? Infrastructure protection – Protect your cloud infrastructure from unauthorized access, malicious attacks, and data breaches.
- ? Change and release management – Manage changes and releases to your cloud workloads using automation and governance.
- ? Configuration management – Manage the configuration of your cloud resources and applications using automation and version control.
- ? Incident management – Respond to incidents affecting your cloud workloads using best practices and tools.
- ? Service continuity management – Ensure the availability and resilience of your cloud workloads using backup, recovery, and disaster recovery strategies.

NEW QUESTION 125

- (Topic 3)

A company is moving to the AWS Cloud to reduce operational overhead for its application infrastructure.

Which IT operation will the company still be responsible for after the migration to AWS?

- A. Security patching of AWS Elastic Beanstalk
- B. Backups of data that is stored in Amazon Aurora
- C. Termination of Amazon EC2 instances that are managed by AWS Auto Scaling
- D. Configuration of IAM access controls

Answer: D

Explanation:

AWS Elastic Beanstalk, Amazon Aurora, and AWS Auto Scaling are managed services that reduce the operational overhead for the customers. AWS is responsible for security patching, backups, and termination of these services. However, the customers are still responsible for configuring IAM access controls to manage the permissions and policies for their AWS resources. This is part of the AWS shared responsibility model, which defines the security and compliance responsibilities of AWS and the customers. You can learn more about the AWS shared responsibility model from this whitepaper or this digital course.

NEW QUESTION 127

- (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 131

- (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 135

- (Topic 3)

A company wants a list of all users in its AWS account, the status of all of the users' access keys, and if multi-factor authentication (MFA) has been configured.

Which AWS service or feature will meet these requirements?

- A. AWS Key Management Service (AWS KMS)
- B. IAM Access Analyzer
- C. IAM credential report
- D. Amazon CloudWatch

Answer: C

Explanation:

IAM credential report is a feature that allows you to generate and download a report that lists all IAM users in your AWS account and the status of their various

credentials, including access keys and MFA devices. You can use this report to audit the security status of your IAM users and ensure that they follow the best practices for using AWS1.

AWS Key Management Service (AWS KMS) is a service that allows you to create and manage encryption keys to protect your data. It does not provide information about IAM users or their credentials2.

IAM Access Analyzer is a feature that helps you identify the resources in your AWS account, such as S3 buckets or IAM roles, that are shared with an external entity. It does not provide information about IAM users or their credentials3.

Amazon CloudWatch is a service that monitors and collects metrics, logs, and events from your AWS resources and applications. It does not provide information about IAM users or their credentials4.

References:

? Getting credential reports for your AWS account - AWS Identity and Access Management

? AWS Key Management Service - Amazon Web Services

? IAM Access Analyzer - AWS Identity and Access Management

? Amazon CloudWatch - Amazon Web Services

NEW QUESTION 136

- (Topic 3)

A company simulates workflows to review and validate that all processes are effective and that staff are familiar with the processes.

Which design principle of the AWS Well-Architected Framework is the company following with this practice?

- A. Perform operations as code.
- B. Refine operation procedures frequently.
- C. Make frequent, small, reversible changes.
- D. Structure the company to support business outcomes.

Answer: B

Explanation:

Refining operation procedures frequently is one of the design principles of the operational excellence pillar of the AWS Well-Architected Framework. It means that you should review and validate your processes regularly to ensure they are effective and that staff are familiar with them. Performing operations as code, making frequent, small, reversible changes, and structuring the company to support business outcomes are design principles of other pillars of the AWS Well-Architected Framework.

NEW QUESTION 141

- (Topic 3)

Which AWS Cloud Adoption Framework (AWS CAF) capability belongs to the people perspective?

- A. Data architecture
- B. Event management
- C. Cloud fluency
- D. Strategic partnership

Answer: C

Explanation:

Cloud fluency is a capability that belongs to the people perspective of the AWS Cloud Adoption Framework (AWS CAF). Cloud fluency is the ability of the workforce to understand the benefits, challenges, and best practices of cloud computing, and to apply them to their roles and responsibilities. Cloud fluency helps the organization to adopt a cloud mindset, culture, and skills, and to leverage the full potential of the cloud. Cloud fluency can be achieved through various methods, such as training, certification, mentoring, coaching, and hands-on experience. Cloud fluency is one of the four capabilities of the people perspective, along with culture, organizational structure, and leadership. The other three capabilities belong to different perspectives of the AWS CAF. Data architecture is a capability of the platform perspective, which helps you design and implement data solutions that meet your business and technical requirements. Event management is a capability of the operations perspective, which helps you monitor and respond to events that affect the availability, performance, and security of your cloud resources. Strategic partnership is a capability of the business perspective, which helps you establish and maintain relationships with external stakeholders, such as customers, partners, suppliers, and regulators, to create value and achieve your business goals. References: AWS Cloud Adoption Framework: People Perspective, AWS CAF - Cloud Adoption Framework - W3Schools

NEW QUESTION 142

- (Topic 3)

A company is migrating its data center to AWS. The company needs an AWS Support plan that provides chat access to a cloud sup engineer 24 hours a day, 7 days a week. The company does not require access to infrastructure event management.

What is the MOST cost-effective AWS Support plan that meets these requirements?

- A. AWS Enterprise Support
- B. AWS Business Support
- C. AWS Developer Support
- D. AWS Basic Support

Answer: B

Explanation:

AWS Business Support is the most cost-effective AWS Support plan that provides chat access to a cloud support engineer 24/7. AWS Business Support also offers phone and email support, as well as a response time of less than one hour for urgent issues. AWS Business Support does not include access to infrastructure event management, which is a feature of AWS Enterprise Support. AWS Enterprise Support is more expensive and provides additional benefits, such as a technical account manager, a support concierge, and a response time of less than 15 minutes for critical issues. AWS Developer Support and AWS Basic Support do not provide chat access to a cloud support engineer. AWS Developer Support provides email support and a response time of less than 12 hours for general guidance issues. AWS Basic Support provides customer service and account support, as well as access to forums and documentation1

NEW QUESTION 144

- (Topic 3)

Which option is AWS responsible for under the AWS shared responsibility model?

- A. Network and firewall configuration
- B. Client-side data encryption
- C. Management of user permissions
- D. Hardware and infrastructure

Answer: D

Explanation:

Hardware and infrastructure is the option that AWS is responsible for under the AWS shared responsibility model. The AWS shared responsibility model describes how AWS and customers share responsibilities for security and compliance in the cloud. AWS is responsible for security of the cloud, which means protecting the infrastructure that runs all the services offered in the AWS Cloud. This infrastructure is composed of the hardware, software, networking, and facilities that run AWS Cloud services. Customers are responsible for security in the cloud, which means taking care of the security of their own applications, data, and operating systems. This includes network and firewall configuration, client-side data encryption, management of user permissions, and more.

NEW QUESTION 149

- (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 151

- (Topic 3)

A company is hosting an application in the AWS Cloud. The company wants to verify that underlying AWS services and general AWS infrastructure are operating normally.

Which combination of AWS services can the company use to gather the required information? (Select TWO.)

- A. AWS Personal Health Dashboard
- B. AWS Systems Manager
- C. AWS Trusted Advisor
- D. AWS Service Health Dashboard
- E. AWS Service Catalog

Answer: AD

Explanation:

AWS Personal Health Dashboard and AWS Service Health Dashboard are two AWS services that can help the company to verify that underlying AWS services and general AWS infrastructure are operating normally. AWS Personal Health Dashboard provides a personalized view into the performance and availability of the AWS services you are using, as well as alerts that are automatically triggered by changes in the health of those services. In addition to event-based alerts, Personal Health Dashboard provides proactive notifications of scheduled activities, such as any changes to the infrastructure powering your resources, enabling you to better plan for events that may affect you. These notifications can be delivered to you via email or mobile for quick visibility, and can always be viewed from within the AWS Management Console. When you get an alert, it includes detailed information and guidance, enabling you to take immediate action to address AWS events impacting your resources³. AWS Service Health Dashboard provides a general status of AWS services, and the Service health view displays the current and historical status of all AWS services. This page shows reported service events for services across AWS Regions. You don't need to sign in or have an AWS account to access the AWS Service Health Dashboard – Service health page. You can also subscribe to RSS feeds for specific services or regions to receive notifications about service events⁴. References: Getting started with your AWS Health Dashboard – Your account health, Introducing AWS Personal Health Dashboard

NEW QUESTION 154

- (Topic 3)

Which of the following are general AWS Cloud design principles described in the AWS Well-Architected Framework?

- A. Consolidate key components into monolithic architectures.
- B. Test systems at production scale.
- C. Provision more capacity than a workload is expected to need.
- D. Drive architecture design based on data collected about the workload behavior and requirements.
- E. Make AWS Cloud architectural decisions static, one-time events.

Answer: BD

Explanation:

These are two of the general AWS Cloud design principles described in the AWS Well-Architected Framework. Testing systems at production scale means using tools such as AWS CloudFormation, AWS CodeDeploy, and AWS X-Ray to simulate real-world scenarios and measure the performance, scalability, and

availability of the system. Driving architecture design based on data means using tools such as Amazon CloudWatch, AWS CloudTrail, and AWS Config to collect and analyze metrics, logs, and events about the system and use the insights to optimize the system's design and operation. You can learn more about the AWS Well-Architected Framework from this whitepaper or [this digital course].

NEW QUESTION 158

- (Topic 3)

Which of the following is a benefit of using an AWS managed service?

- A. Reduced operational overhead for a company's IT staff
- B. Increased fixed costs that can be predicted by a finance team
- C. Removal of the need to have a backup strategy
- D. Removal of the need to follow compliance standards

Answer: A

Explanation:

This is a benefit of using an AWS managed service, such as Amazon S3, Amazon DynamoDB, or AWS Lambda. AWS managed services are fully managed by AWS, which means that AWS handles the provisioning, scaling, patching, backup, and recovery of the underlying infrastructure and software. This reduces the operational overhead for the company's IT staff, who can focus on their core business logic and innovation. You can learn more about the AWS managed services from this webpage or this digital course.

NEW QUESTION 160

- (Topic 3)

A company wants to allow users to authenticate and authorize multiple AWS accounts by using a single set of credentials.

Which AWS service or resource will meet this requirement?

- A. AWS Organizations
- B. IAM user
- C. AWS IAM Identity Center (AWS Single Sign-On)
- D. AWS Control Tower

Answer: C

Explanation:

AWS IAM Identity Center (AWS Single Sign-On) is a cloud-based service that makes it easy to centrally manage single sign-on (SSO) access to multiple AWS accounts and business applications. You can use AWS SSO to enable your users to sign in to the AWS Management Console or the AWS Command Line Interface (AWS CLI) with their existing corporate credentials². You can also manage SSO access and user permissions across all your AWS accounts in AWS Organizations³. References: AWS Single Sign-On - AWS Documentation, AWS Organizations - AWS Documentation

NEW QUESTION 161

- (Topic 3)

What does the concept of agility mean in AWS Cloud computing? (Select TWO.)

- A. The speed at which AWS resources are implemented
- B. The speed at which AWS creates new AWS Regions
- C. The ability to experiment quickly
- D. The elimination of wasted capacity
- E. The low cost of entry into cloud computing

Answer: AC

Explanation:

Agility in AWS Cloud computing means the ability to rapidly provision and deprovision AWS resources as needed, and the ability to experiment quickly with new ideas and solutions. Agility helps businesses to respond to changing customer demands, market opportunities, and competitive threats, and to innovate faster and cheaper. Agility also reduces the risk of failure, as businesses can test and validate their assumptions before committing to large-scale deployments. Some of the benefits of agility in AWS Cloud computing are:

? The speed at which AWS resources are implemented: AWS provides a variety of services and tools that allow you to create, configure, and launch AWS resources in minutes, using the AWS Management Console, the AWS Command Line Interface (AWS CLI), the AWS Software Development Kits (AWS SDKs), or the AWS CloudFormation templates. You can also use the AWS Cloud Development Kit (AWS CDK) to define your AWS resources as code using familiar programming languages, and synthesize them into AWS CloudFormation templates. You can also use the AWS Service Catalog to create and manage standardized portfolios of AWS resources that meet your organizational policies and best practices. AWS also offers on-demand, pay-as-you-go pricing models, so you only pay for the resources you use, and you can scale them up or down as your needs change¹²³⁴⁵

? The ability to experiment quickly: AWS enables you to experiment quickly with new ideas and solutions, without having to invest in upfront capital or long-term commitments. You can use AWS to create and test multiple prototypes, hypotheses, and minimum viable products (MVPs) in parallel, and measure their performance and feedback. You can also use AWS to leverage existing services and solutions, such as AWS Marketplace, AWS Solutions, and AWS Quick Starts, that can help you accelerate your innovation process. AWS also supports a culture of experimentation and learning, by providing tools and resources for continuous integration and delivery (CI/CD), testing, monitoring, and analytics.

References: Six advantages of cloud computing - Overview of Amazon Web Services, AWS Cloud Development Kit (AWS CDK), AWS Service Catalog, AWS Pricing, AWS CloudFormation, [Experimentation and Testing - AWS Well-Architected Framework], [AWS Marketplace], [AWS Solutions], [AWS Quick Starts], [AWS Developer Tools]

NEW QUESTION 163

- (Topic 3)

A company plans to migrate to the AWS Cloud. The company wants to use the AWS Cloud Adoption Framework (AWS CAF) to define and track business outcomes as part of its cloud transformation journey.

Which AWS CAF governance perspective capability will meet these requirements?

- A. Benefits management
- B. Risk management

- C. Application portfolio management
- D. Cloud financial management

Answer: A

Explanation:

The correct answer is A. Benefits management.

Benefits management is the AWS CAF governance perspective capability that helps you define and track business outcomes as part of your cloud transformation journey. Benefits management helps you align your cloud initiatives with your business objectives, measure the value and impact of your cloud investments, and communicate the benefits of cloud adoption to your stakeholders¹².

Risk management is the AWS CAF governance perspective capability that helps you identify and mitigate the potential risks associated with cloud adoption, such as security, compliance, legal, and operational risks¹².

Application portfolio management is the AWS CAF governance perspective capability that helps you assess and optimize your existing application portfolio for cloud migration or modernization. Application portfolio management helps you categorize your applications based on their business value and technical fit, prioritize them for cloud adoption, and select the best migration or modernization strategy for each application¹².

Cloud financial management is the AWS CAF governance perspective capability that helps you manage and optimize the costs and value of your cloud resources. Cloud financial management helps you plan and budget for cloud adoption, track and allocate cloud costs, implement cost optimization strategies, and report on cloud financial performance¹². References:

1: AWS Cloud Adoption Framework: Governance Perspective 2: All you need to know about AWS Cloud Adoption Framework — Governance Perspective

NEW QUESTION 167

- (Topic 3)

Which AWS service can a company use to visually design and build serverless applications?

- A. AWS Lambda
- B. AWS Batch
- C. AWS Application Composer
- D. AWS App Runner

Answer: C

Explanation:

AWS Application Composer is a service that allows users to visually design and build serverless applications. Users can drag and drop components, such as AWS Lambda functions, Amazon API Gateway endpoints, Amazon DynamoDB tables, and Amazon S3 buckets, to create a serverless application architecture. Users can also configure the properties, permissions, and dependencies of each component, and deploy the application to their AWS account with a few clicks. AWS Application Composer simplifies the design and configuration of serverless applications, and reduces the need to write code or use AWS CloudFormation templates. References: AWS Application Composer, AWS releases Application Composer to make serverless 'easier' but initial scope is limited

NEW QUESTION 170

- (Topic 3)

Which AWS service is an in-memory data store service?

- A. Amazon Aurora
- B. Amazon RDS
- C. Amazon DynamoDB
- D. Amazon ElastiCache

Answer: D

Explanation:

Amazon ElastiCache is a fully managed in-memory data store and cache service that delivers sub-millisecond response times to applications. You can use ElastiCache as a primary data store for your applications, or as a cache to improve the performance of your existing databases. ElastiCache supports two popular open-source in- memory engines: Redis and Memcached⁵.

NEW QUESTION 175

- (Topic 3)

A company wants to use the AWS Cloud to deploy an application globally.

Which architecture deployment model should the company use to meet this requirement?

- A. Multi-Region
- B. Single-Region
- C. Multi-AZ
- D. Single-AZ

Answer: A

Explanation:

The architecture deployment model that the company should use to meet this requirement is A. Multi-Region.

A multi-region deployment model is a cloud computing architecture that distributes an application and its data across multiple geographic regions. A multi-region deployment model enables a company to achieve global reach, high availability, disaster recovery, and performance optimization. By deploying an application in multiple regions, a company can serve customers from the nearest region, reduce latency, increase redundancy, and comply with data sovereignty regulations¹².

A single-region deployment model is a cloud computing architecture that runs an application and its data within a single geographic region. A single-region deployment model is simpler and cheaper than a multi-region deployment model, but it has limited scalability, availability, and performance. A single-region deployment model may not be suitable for a company that wants to deploy an application globally, as it may face challenges such as network latency, regional outages, or regulatory compliance¹².

A multi-AZ (Availability Zone) deployment model is a cloud computing architecture that distributes an application and its data across multiple isolated locations within a single region. An Availability Zone is a physically separate location within an AWS Region that has independent power, cooling, and networking. A multi-AZ deployment model enhances the availability and durability of an application by providing redundancy and fault tolerance within a region³⁴.

A single-AZ deployment model is a cloud computing architecture that runs an application and its data within a single Availability Zone. A single-AZ deployment model is the simplest and most cost-effective option, but it has no redundancy or fault tolerance. A single-AZ deployment model may not be suitable for a company

that wants to deploy an application globally, as it may face challenges such as network latency, regional outages, or regulatory compliance³⁴.

References:

1: AWS Cloud Computing - W3Schools 2: Understand the Different Cloud Computing Deployment Models Unit - Trailhead 3: Regions and Availability Zones - Amazon Elastic Compute Cloud 4: AWS Reference Architecture Diagrams

NEW QUESTION 179

- (Topic 3)

Which AWS service or feature identifies whether an Amazon S3 bucket or an IAM role has been shared with an external entity?

- A. AWS Service Catalog
- B. AWS Systems Manager
- C. AWS IAM Access Analyzer
- D. AWS Organizations

Answer: C

Explanation:

AWS IAM Access Analyzer is a service that helps you identify the resources in your organization and accounts, such as Amazon S3 buckets or IAM roles, that are shared with an external entity. This lets you identify unintended access to your resources and data, which is a security risk. IAM Access Analyzer uses logic-based reasoning to analyze the resource-based policies in your AWS environment. For each instance of a resource shared outside of your account, IAM Access Analyzer generates a finding. Findings include information about the access and the external principal granted to it³⁴⁵. References: 3: Using AWS Identity and Access Management Access Analyzer, 4: IAM Access Analyzer - Amazon Web Services (AWS), 5: Welcome - IAM Access Analyzer

NEW QUESTION 180

- (Topic 3)

At what support level do users receive access to a support concierge?

- A. Basic Support
- B. Developer Support
- C. Business Support
- D. Enterprise Support

Answer: D

Explanation:

Users receive access to a support concierge at the Enterprise Support level. A support concierge is a team of AWS billing and account experts that specialize in working with enterprise accounts. They can help users with billing and account inquiries, cost optimization, FinOps support, cost analysis, and prioritized answers to billing questions. The support concierge is included as part of the Enterprise Support plan, which also provides access to a Technical Account Manager (TAM), Infrastructure Event Management, AWS Trusted Advisor, and 24/7 technical support. References: AWS Support Plan Comparison, AWS Enterprise Support Plan, AWS Support Concierge

NEW QUESTION 184

- (Topic 3)

A company is looking for a managed machine learning (ML) service that can recommend products based on a customer's previous behaviors. Which AWS service meets this requirement?

- A. Amazon Personalize
- B. Amazon SageMaker
- C. Amazon Pinpoint
- D. Amazon Comprehend

Answer: A

Explanation:

The AWS service that meets the requirement of providing a managed machine learning (ML) service that can recommend products based on a customer's previous behaviors is Amazon Personalize. Amazon Personalize is a fully managed service that enables developers to create personalized recommendations for customers using their own data. Amazon Personalize can automatically process and examine the data, identify what is meaningful, select the right algorithms, and train and optimize a personalized recommendation model². Amazon SageMaker, Amazon Pinpoint, and Amazon Comprehend are other AWS services related to machine learning, but they do not provide the specific functionality of product recommendation.

NEW QUESTION 186

- (Topic 3)

Which task does AWS perform automatically?

- A. Encrypt data that is stored in Amazon DynamoDB.
- B. Patch Amazon EC2 instances.
- C. Encrypt user network traffic.
- D. Create TLS certificates for users' websites.

Answer: B

Explanation:

AWS performs some tasks automatically to help you manage and secure your AWS resources. One of these tasks is patching Amazon EC2 instances. AWS provides two options for patching your EC2 instances: managed instances and patch baselines. Managed instances are a group of EC2 instances or on-premises servers that you can manage using AWS Systems Manager. Patch baselines define the patches that AWS Systems Manager applies to your instances. You can use AWS Systems Manager to automate the process of patching your instances based on a schedule or a maintenance window.

NEW QUESTION 189

- (Topic 3)

A user needs a relational database but does not have the resources to manage the hardware, resiliency, and replication. Which AWS service option meets the user's requirements'?

- A. Run MySQL on Amazon Elastic Container Service (Amazon ECS)
- B. Run MySQL on Amazon EC2
- C. Choose Amazon RDS for MySQL
- D. Choose Amazon ElastiCache for Redis

Answer: C

Explanation:

Amazon RDS for MySQL is a fully managed, open-source cloud database service that allows you to easily operate and scale your relational database of choice, including MySQL. With Amazon RDS for MySQL, you don't have to worry about the hardware, resiliency, and replication of your database, as Amazon RDS handles these tasks for you. Amazon RDS for MySQL also provides features such as automated backups, multi-AZ deployments, read replicas, encryption, monitoring, and more. Amazon RDS for MySQL is compatible with the MySQL Community Edition versions 5.7 and 8.0, which means that you can use the same code, applications, and tools that you already use with MySQL4567. References: 4: Hosted MySQL - Amazon RDS for MySQL - AWS, 5: Amazon RDS for MySQL - Amazon Relational Database Service, 6: Amazon RDS for MySQL —, 7: Managed SQL Database - Amazon Relational Database Service (RDS) - AWS

NEW QUESTION 191

- (Topic 3)

A company wants a time-series database service that makes it easier to store and analyze trillions of events each day. Which AWS service will meet this requirement?

- A. Amazon Neptune
- B. Amazon Timestream
- C. Amazon Forecast
- D. Amazon DocumentDB (with MongoDB compatibility)

Answer: B

Explanation:

Amazon Timestream is a fast, scalable, and serverless time-series database service for IoT and other operational applications that makes it easy to store and analyze trillions of events per day up to 1,000 times faster and at as little as 1/10th the cost of relational databases1. Amazon Timestream saves you time and cost in managing the lifecycle of time series data, and its purpose-built query engine lets you access and analyze recent and historical data together with a single query1. Amazon Timestream has built-in time series analytics functions, helping you identify trends and patterns in near real time1. The other options are not suitable for storing and analyzing trillions of events per day. Amazon Neptune is a graph database service that supports highly connected data sets. Amazon Forecast is a machine learning service that generates accurate forecasts based on historical data. Amazon DocumentDB (with MongoDB compatibility) is a document database service that supports MongoDB workloads.

References:

? 1: Time Series Database – Amazon Timestream – Amazon Web Services

NEW QUESTION 192

- (Topic 3)

Which options are AWS Cloud Adoption Framework (AWS CAF) cloud transformation journey recommendations? (Select TWO.)

- A. Envision phase
- B. Align phase
- C. Assess phase
- D. Mobilize phase
- E. Migrate and modernize phase

Answer: AB

Explanation:

The AWS Cloud Adoption Framework (AWS CAF) cloud transformation journey is a four-phase process that helps customers plan and execute their cloud migration and digital transformation. The four phases are:

? Envision phase: This phase focuses on demonstrating how cloud will help accelerate the business outcomes of the customer. It involves identifying and prioritizing transformation opportunities across four domains: business, people, governance, and platform. It also involves associating the transformation initiatives with key stakeholders and measurable business outcomes1.

? Align phase: This phase focuses on identifying capability gaps across six perspectives: business, people, governance, platform, security, and operations. It also involves identifying cross-organizational dependencies and surfacing stakeholder concerns and challenges. The goal of this phase is to create strategies for improving the cloud readiness, ensure stakeholder alignment, and facilitate relevant organizational change management activities1.

? Launch phase: This phase focuses on delivering pilot initiatives in production and demonstrating incremental business value. Pilots should be highly impactful and influence future direction. The customer should learn from the pilots and adjust their approach before scaling to full production1.

? Scale phase: This phase focuses on expanding production pilots and business value to the desired scale and ensuring that the business benefits associated with the cloud investments are realized and sustained1.

NEW QUESTION 193

- (Topic 3)

An ecommerce company wants to use Amazon EC2 Auto Scaling to add and remove EC2 instances based on CPU utilization. Which AWS service or feature can initiate an Amazon EC2 Auto Scaling action to achieve this goal?

- A. Amazon Simple Queue Service (Amazon SQS)
- B. Amazon Simple Notification Service (Amazon SNS)
- C. AWS Systems Manager
- D. Amazon CloudWatch alarm

Answer: D

Explanation:

Amazon CloudWatch alarm is an AWS service or feature that can initiate an Amazon EC2 Auto Scaling action based on CPU utilization. Amazon CloudWatch is a monitoring and observability service that collects and tracks metrics, logs, events, and alarms for your AWS resources and applications. Amazon CloudWatch alarms are actions that you can configure to send notifications or automatically make changes to the resources you are monitoring based on rules that you define⁶⁷.

Amazon EC2 Auto Scaling is a service that helps you maintain application availability and allows you to automatically add or remove EC2 instances according to definable conditions. You can create dynamic scaling policies that track a specific CloudWatch metric, such as CPU utilization, and define what action to take when the associated CloudWatch alarm is in ALARM. When the policy is in effect, Amazon EC2 Auto Scaling adjusts the group's desired capacity up or down when the threshold of an alarm is

breached⁸⁹. References: 6: Cloud Monitoring - Amazon CloudWatch - AWS, 7: Amazon

CloudWatch Documentation, 8: Dynamic scaling for Amazon EC2 Auto Scaling, 9: Amazon EC2 Auto Scaling Documentation

NEW QUESTION 197

- (Topic 3)

Which of the following actions are controlled with AWS Identity and Access Management (IAM)? (Select TWO.)

- A. Control access to AWS service APIs and to other specific resources.
- B. Provide intelligent threat detection and continuous monitoring.
- C. Protect the AWS environment using multi-factor authentication (MFA).
- D. Grant users access to AWS data centers.
- E. Provide firewall protection for applications from common web attacks.

Answer: AC

Explanation:

AWS Identity and Access Management (IAM) is a service that enables you to manage access to AWS services and resources securely. You can use IAM to perform the following actions:

? Control access to AWS service APIs and to other specific resources: You can create users, groups, roles, and policies that define who can access which AWS resources and how. You can also use IAM to grant temporary access to users or applications that need to perform certain tasks on your behalf³

? Protect the AWS environment using multi-factor authentication (MFA): You can enable MFA for your IAM users and root user to add an extra layer of security to your AWS account. MFA requires users to provide a unique authentication code from an approved device or SMS text message, in addition to their user name and password, when they sign in to AWS⁴

NEW QUESTION 198

- (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 200

- (Topic 3)

A company is assessing its AWS Business Support plan to determine if the plan still meets the company's needs. The company is considering switching to AWS Enterprise Support.

Which additional benefit will the company receive with AWS Enterprise Support?

- A. A full set of AWS Trusted Advisor checks
- B. Phone, email, and chat access to cloud support engineers 24 hours a day, 7 days a week
- C. A designated technical account manager (TAM) to assist in monitoring and optimization
- D. A consultative review and architecture guidance for the company's applications

Answer: C

Explanation:

AWS Enterprise Support provides customers with a designated technical account manager (TAM) who is a single point of contact for all technical and operational issues. The TAM provides consultative architectural and operational guidance delivered in the context of the customer's applications and use-cases to help them achieve the greatest value from AWS. The TAM also helps customers with proactive services, such as strategic business reviews, security improvement programs, guided Well-Architected reviews, cost optimization workshops, and more¹.

A full set of AWS Trusted Advisor checks is not an additional benefit of AWS Enterprise Support, as it is also included in the AWS Business Support plan². AWS Trusted Advisor is a tool that provides best practice recommendations for cost optimization, performance, security, fault tolerance, and service limits.

Phone, email, and chat access to cloud support engineers 24 hours a day, 7 days a week is not an additional benefit of AWS Enterprise Support, as it is also included in the AWS Business Support plan². Cloud support engineers can help customers with technical issues, such as troubleshooting, configuration, usage, and service features.

A consultative review and architecture guidance for the company's applications is not an additional benefit of AWS Enterprise Support, as it is also included in the AWS Business Support plan2. Customers can request a consultative review from a solutions architect who will provide best practices and recommendations based on the customer's use-cases and goals.

NEW QUESTION 204

- (Topic 3)

A company is using Amazon DynamoDB for its application database.

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

- A. Classify data.
- B. Configure access permissions.
- C. Manage encryption options.
- D. Provide public endpoints to store and retrieve data.
- E. Manage the infrastructure layer and the operating system.

Answer: DE

Explanation:

According to the AWS shared responsibility model, AWS is responsible for security of the cloud, while customers are responsible for security in the cloud. This means that AWS is responsible for protecting the infrastructure that runs AWS services, such as hardware, software, networking, and facilities. Customers are responsible for managing their data, classifying their assets, and using IAM tools to apply the appropriate permissions. For abstracted services, such as Amazon DynamoDB, AWS operates the infrastructure layer, the operating system, and platforms, and provides customers with public endpoints to store and retrieve data. Customers are responsible for classifying their data, managing their encryption options, and configuring their access permissions. References: Shared Responsibility Model, Security and compliance in Amazon DynamoDB, [AWS Cloud Practitioner Essentials: Module 2 - Security in the Cloud]

NEW QUESTION 207

- (Topic 3)

Which task must a user perform by using the AWS account root user credentials?

- A. Make changes to AWS production resources.
- B. Change AWS Support plans.
- C. Access AWS Cost and Usage Reports.
- D. Grant auditors' access to an AWS account for a compliance audit.

Answer: B

Explanation:

The AWS account root user is the email address that you used to sign up for AWS. The root user has complete access to all AWS services and resources in the account. You should use the root user only to perform a few account and service management tasks. One of these tasks is changing AWS Support plans, which requires root user credentials. For other tasks, you should create an IAM user or role with the appropriate permissions and use that instead of the root user.

NEW QUESTION 211

- (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 214

- (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 218

- (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 223

- (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 225

- (Topic 3)

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

- A. Observability
- B. Incident and problem management
- C. Incident response
- D. Infrastructure protection
- E. Availability and continuity

Answer: CD

Explanation:

The AWS Cloud Adoption Framework (AWS CAF) security perspective helps users achieve the confidentiality, integrity, and availability of their data and cloud workloads. It comprises nine capabilities that are grouped into three categories: preventive, detective, and responsive. Incident response and infrastructure protection are two of the capabilities in the responsive and preventive categories, respectively. Incident response helps users prepare for and respond to security incidents in a timely and effective manner, using tools and processes that leverage AWS features and services. Infrastructure protection helps users implement security controls and mechanisms to protect their cloud resources, such as network, compute, storage, and database, from unauthorized access or malicious attacks. References: Security perspective: compliance and assurance, AWS Cloud Adoption Framework

NEW QUESTION 229

- (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 233

- (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 234

- (Topic 3)

A company is building an application in the AWS Cloud. The company wants to use temporary credentials for the application to access other AWS resources. Which AWS service will meet these requirements?

- A. AWS Key Management Service (Aws KMS)
- B. AWS CloudHSM
- C. Amazon Cognito
- D. AWS Security Token Service (Aws STS)

Answer: D

Explanation:

AWS Security Token Service (AWS STS) is a service that provides temporary security credentials to users or applications that need to access AWS resources. The temporary credentials have a limited lifetime and can be configured to last from a few minutes to several hours. The credentials are not stored with the user or application, but are generated dynamically and provided on request. The credentials work almost identically to long-term access key credentials, but have the advantage of not requiring distribution, rotation, or revocation¹. AWS Key Management Service (AWS KMS) is a service that provides encryption and decryption services for data and keys. It does not provide temporary security credentials². AWS CloudHSM is a service that provides hardware security modules (HSMs) for cryptographic operations and key management. It does not provide temporary security credentials³. Amazon Cognito is a service that provides user authentication and authorization for web and mobile applications. It can also provide temporary security credentials for authenticated users, but not for applications⁴.

NEW QUESTION 239

- (Topic 3)

Which of the following is a benefit of operating in the AWS Cloud?

- A. The ability to migrate on-premises network devices to the AWS Cloud
- B. The ability to expand compute, storage, and memory when needed
- C. The ability to host custom hardware in the AWS Cloud
- D. The ability to customize the underlying hypervisor layer for Amazon EC2

Answer: B

Explanation:

One of the benefits of operating in the AWS Cloud is the ability to expand compute, storage, and memory when needed, which enables users to scale their applications and resources up or down based on demand. This also helps users optimize their costs and performance. The ability to migrate on-premises network devices to the AWS Cloud, the ability to host custom hardware in the AWS Cloud, and the ability to customize the underlying hypervisor layer for Amazon EC2 are not benefits of operating in the AWS Cloud, as they are either not possible or not recommended by AWS .

NEW QUESTION 241

- (Topic 3)

A company wants to create a globally accessible ecommerce platform for its customers. The company wants to use a highly available and scalable DNS web service to connect users to the platform. Which AWS service will meet these requirements?

- A. Amazon EC2
- B. Amazon VPC
- C. Amazon Route 53
- D. Amazon RDS

Answer: C

Explanation:

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service that can route internet traffic to the company's ecommerce platform¹. Route 53 can also register domain names, check the health of resources, and provide global DNS features². Route 53 can connect users to the platform by translating human-readable names like `www.example.com` into the numeric IP addresses that computers use to communicate with each other². References: 1: Amazon Route 53 | DNS Service | AWS; 2: What is Amazon Route 53? - Amazon Route 53

NEW QUESTION 246

- (Topic 3)

According to the AWS shared responsibility model, who is responsible for the virtualization layer down to the physical security of the facilities in which AWS services operate?

- A. It is the sole responsibility of the customer.
- B. It is the sole responsibility of AWS.
- C. It is a shared responsibility between AWS and the customer.
- D. The customer's AWS Support plan tier determines who manages the configuration.

Answer: B

Explanation:

According to the AWS shared responsibility model, AWS is responsible for the security of the cloud, which includes the virtualization layer down to the physical security of the facilities in which AWS services operate¹. The customer is responsible for the security in the cloud, which includes the configuration and management of the AWS resources and applications that they use¹.

NEW QUESTION 251

- (Topic 3)

A company wants to create a set of custom dashboards to collect metrics to monitor its applications. Which AWS service will meet these requirements?

- A. Amazon CloudWatch
- B. AWS X-Ray
- C. AWS Systems Manager
- D. AWS CloudTrail

Answer: A

Explanation:

Amazon CloudWatch is a service that provides monitoring and observability for AWS resources and applications. Users can create custom dashboards to collect and visualize metrics, logs, alarms, and events from different sources⁵. AWS X-Ray is a service that provides distributed tracing and analysis for applications. AWS Systems Manager is a service that provides operational management for AWS resources and applications. AWS CloudTrail is a service that provides governance, compliance, and auditing for AWS account activity.

NEW QUESTION 253

- (Topic 3)

A company is moving an on-premises data center to the AWS Cloud. The company must migrate 50 petabytes of file storage data to AWS with the least possible operational overhead.

Which AWS service or resource should the company use to meet these requirements?

- A. AWS Snowmobile
- B. AWS Snowball Edge
- C. AWS Data Exchange
- D. AWS Database Migration Service (AWS DMS)

Answer: A

Explanation:

The AWS service that the company should use to meet these requirements is A. AWS Snowmobile.

AWS Snowmobile is a service that allows you to migrate large amounts of data to AWS using a 45-foot long ruggedized shipping container that can store up to 100 petabytes of data. AWS Snowmobile is designed for situations where you need to move massive amounts of data to the cloud in a fast, secure, and cost-effective way. AWS Snowmobile has the least possible operational overhead because it eliminates the need to buy, configure, or manage hundreds or thousands of storage devices¹².

AWS Snowball Edge is a service that allows you to migrate data to AWS using a physical device that can store up to 80 terabytes of data and has compute and storage capabilities to run applications on the device. AWS Snowball Edge is suitable for situations where you have limited or intermittent network connectivity, or where bandwidth costs are high. However, AWS Snowball Edge has more operational overhead than AWS Snowmobile because you need to request multiple devices and transfer your data onto them using the client³.

AWS Data Exchange is a service that allows you to find, subscribe to, and use third-party data in the cloud. AWS Data Exchange is not a data migration service, but rather a data marketplace that enables data providers and data consumers to exchange data sets securely and efficiently⁴.

AWS Database Migration Service (AWS DMS) is a service that helps migrate databases to AWS. AWS DMS does not migrate file storage data, but rather supports various database platforms and engines as sources and targets⁵.

References:

1: AWS Snowmobile – Move Exabytes of Data to the Cloud in Weeks 2: AWS Snowmobile

- Amazon Web Services 3: Automated Software Vulnerability Management - Amazon Inspector - AWS 4: AWS Data Exchange - Find, subscribe to, and use third-party data in ... 5: AWS Database Migration Service – Amazon Web Services

NEW QUESTION 254

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