

Amazon-Web-Services

Exam Questions CLF-C02

AWS Certified Cloud Practitioner



NEW QUESTION 1

- (Topic 3)

A company plans to migrate to the AWS Cloud. The company is gathering information about its on-premises infrastructure and requires information such as the hostname, IP address, and MAC address.

Which AWS service will meet these requirements?

- A. AWS DataSync
- B. AWS Application Migration Service
- C. AWS Application Discovery Service
- D. AWS Database Migration Service (AWS DMS)

Answer: C

Explanation:

AWS Application Discovery Service is a service that helps you plan your migration to the AWS Cloud by collecting usage and configuration data about your on-premises servers and databases. This data includes information such as the hostname, IP address, and MAC address of each server, as well as the performance metrics, network connections, and processes running on them. You can use AWS Application Discovery Service to discover your on-premises inventory, map the dependencies between servers and applications, and estimate the cost and effort of migrating to AWS. You can also export the data to other AWS services, such as AWS Migration Hub and AWS Database Migration Service, to support your migration tasks. AWS Application Discovery Service offers two ways of performing discovery: agentless discovery and agent-based discovery. Agentless discovery uses a virtual appliance that you deploy on your VMware vCenter to collect data from your virtual machines and hosts. Agent-based discovery uses an agent that you install on each of your physical or virtual servers to collect data. You can choose the method that best suits your environment and needs. AWS DataSync is a service that helps you transfer data between your on-premises storage and AWS storage services, such as Amazon S3, Amazon EFS, and Amazon FSx for Windows File Server. AWS DataSync does not collect information about your on-premises infrastructure, but rather focuses on optimizing the data transfer speed, security, and reliability. 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. AWS Application Migration Service does not collect information about your on-premises infrastructure, but rather uses a lightweight agent to replicate your servers as Amazon Machine Images (AMIs) and launch them as EC2 instances on AWS. AWS Database Migration Service is a 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 Database Migration Service does not collect information about your on-premises infrastructure, but rather uses a source and a target endpoint to connect to your databases and transfer the data. References: AWS Application Discovery Service, AWS DataSync, AWS Application Migration Service, [AWS Database Migration Service]

NEW QUESTION 2

- (Topic 3)

Which AWS service provides this functionality?

- A. AWS IAM Identity Center (AWS Single Sign-On)
- B. AWS Systems Manager
- C. AWS Config
- D. AWS Control Tower

Answer: D

Explanation:

AWS Control Tower is a service that provides an easy way to set up and govern a secure, multi-account AWS environment. It automates the creation of accounts, organizational units, policies, and best practices based on the AWS Well-Architected Framework. AWS IAM Identity Center (AWS Single Sign-On) is a service that enables users to centrally manage access to multiple AWS accounts and business applications using a single sign-on experience. AWS Systems Manager is a service that provides operational management for AWS resources and applications. AWS Config is a service that enables users to assess, audit, and evaluate the configurations of AWS resources.

NEW QUESTION 3

- (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 4

- (Topic 3)

A company has all of its servers in the us-east-1 Region. The company is considering the deployment of additional servers different Region. Which AWS tool should the company use to find pricing information for other Regions?

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

Answer: D

Explanation:

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

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

NEW QUESTION 5

- (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 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 is migrating its applications from on-premises to the AWS Cloud. The company wants to ensure that the applications are assigned only the minimum permissions that are needed to perform all operations.

Which AWS service will meet these requirements'?

- A. AWS Identity and Access Management (IAM)
- B. Amazon CloudWatch
- C. Amazon Macie
- D. Amazon GuardDuty

Answer: A

Explanation:

AWS Identity and Access Management (IAM) is a service that helps you securely control access to AWS resources for your users. You use IAM to control who can use your AWS resources (authentication) and what resources they can use and in what ways (authorization). IAM also enables you to follow the principle of least privilege, which means granting only the permissions that are necessary to perform a task¹. References: AWS Identity and Access Management (IAM) - AWS Documentation

NEW QUESTION 10

- (Topic 3)

Which of the following services can be used to block network traffic to an instance? (Select TWO.)

- A. Security groups
- B. Amazon Virtual Private Cloud (Amazon VPC) flow logs
- C. Network ACLs
- D. Amazon CloudWatch
- E. AWS CloudTrail

Answer: AC

Explanation:

Security groups and network ACLs are two AWS services that can be used to block network traffic to an instance. Security groups are virtual firewalls that control the inbound and outbound traffic for your instances at the instance level. You can specify which protocols, ports, and source or destination IP addresses are allowed or denied for each instance. Security groups are stateful, which means that they automatically allow return traffic for any allowed inbound or outbound traffic¹²³. Network ACLs are virtual firewalls that control the inbound and outbound traffic for your subnets at the subnet level. You can create rules to allow or deny traffic based on protocols, ports, and source or destination IP addresses. Network ACLs are stateless, which means that you have to explicitly allow return traffic for any allowed inbound or outbound traffic⁴⁵⁶. References: 1: Security groups for your VPC - Amazon Virtual Private Cloud, 2: Security Groups for Your VPC - Amazon Elastic Compute Cloud, 3: AWS Security Groups: Everything You Need to Know, 4: Network ACLs - Amazon Virtual Private Cloud, 5: Control traffic to subnets using network ACLs - Amazon Virtual Private Cloud, 6: AWS Network ACLs: Everything You Need to Know

NEW QUESTION 10

- (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 13

- (Topic 3)

A company needs to engage third-party consultants to help maintain and support its AWS environment and the company's business needs. Which AWS service or resource will meet these requirements?

- A. AWS Support
- B. AWS Organizations
- C. AWS Service Catalog
- D. AWS Partner Network (APN)

Answer: D

Explanation:

The AWS service or resource that will meet these requirements is D. AWS Partner Network (APN).

AWS Partner Network (APN) is a global community of consulting and technology partners that offer a wide range of services and solutions for AWS customers. APN partners can help customers design, architect, build, migrate, and manage their workloads and applications on AWS. APN partners have access to various resources, training, tools, and support to enhance their AWS expertise and deliver value to customers¹².

AWS Support is a service that provides technical assistance and guidance for AWS customers. AWS Support offers different plans with varying levels of response time, access channels, and features. AWS Support does not directly engage third-party consultants, but rather connects customers with AWS experts and resources³.

AWS Organizations is a service that allows customers to manage multiple AWS accounts within a single organization. AWS Organizations enables customers to create groups of accounts, apply policies, automate account creation, and consolidate billing. AWS Organizations does not directly engage third-party consultants, but rather helps customers simplify and optimize their AWS account management⁴.

AWS Service Catalog is a service that allows customers to create and manage catalogs of IT services that are approved for use on AWS. AWS Service Catalog enables customers to control the configuration, deployment, and governance of their IT services. AWS Service Catalog does not directly engage third-party consultants, but rather helps customers standardize and streamline their IT service delivery⁵.

References:

- 1: AWS Partner Network (APN) - Amazon Web Services (AWS) 2: Find an APN Partner - Amazon Web Services (AWS) 3: AWS Support – Amazon Web Services 4: AWS Organizations – Amazon Web Services 5: AWS Service Catalog – Amazon Web Services

NEW QUESTION 17

- (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 18

- (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 20

- (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 21

- (Topic 3)

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

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

Answer: A

Explanation:

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

References: AWS Direct Connect, [AWS Cloud Practitioner Essentials: Module 3 - Compute in the Cloud]

NEW QUESTION 22

- (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 23

- (Topic 3)

A company wants its AWS usage to be more sustainable. The company wants to track, measure, review, and forecast polluting emissions that result from its AWS applications.

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

- A. AWS Health Dashboard
- B. AWS customer carbon footprint tool
- C. AWS Support Center
- D. Amazon QuickSight

Answer: B

Explanation:

AWS customer carbon footprint tool is a tool that helps customers measure and manage their carbon emissions from their AWS usage. It provides data on the carbon intensity, energy consumption, and estimated emissions of AWS services across regions and time periods. It also enables customers to review and forecast their emissions, and compare them with industry benchmarks. AWS Health Dashboard is a service that provides personalized information about the health and performance of AWS services and resources. AWS Support Center is a service that provides access to AWS support resources, such as cases, forums, and documentation. Amazon QuickSight is a service that provides business intelligence and analytics for AWS data sources.

NEW QUESTION 24

- (Topic 3)

A company has a MySQL database running on a single Amazon EC2 instance. The company now requires higher availability in the event of an outage.

Which set of tasks would meet this requirement?

- A. Add an Application Load Balancer in front of the EC2 instance.
- B. Configure EC2 Auto Recovery to move the instance to another Availability Zone.
- C. Migrate to Amazon RDS and enable Multi-AZ.
- D. Enable termination protection for the EC2 instance to avoid outages.

Answer: C

Explanation:

The set of tasks that would meet the requirement of having higher availability for a MySQL database running on a single Amazon EC2 instance is to migrate to Amazon RDS and enable Multi-AZ. Amazon RDS is a fully managed relational database service that supports MySQL and other popular database engines. By enabling Multi-AZ, users can have a primary database in one Availability Zone and a synchronous standby replica in another Availability Zone. In case of a planned or unplanned outage of the primary database, Amazon RDS automatically fails over to the standby replica with minimal disruption³. Adding an Application Load Balancer in front of the EC2 instance, configuring EC2 Auto Recovery to move the instance to another Availability Zone, or enabling termination protection for the EC2 instance would not provide higher availability for the database, as they do not address the single point of failure or data replication issues.

NEW QUESTION 25

- (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 26

- (Topic 3)

A company needs to deploy applications in the AWS Cloud as quickly as possible. The company also needs to minimize the complexity that is related to the management of AWS resources.

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

- A. AWS config
- B. AWS Elastic Beanstalk

- C. Amazon EC2
- D. Amazon Personalize

Answer: B

Explanation:

AWS Elastic Beanstalk is the AWS service that allows customers to deploy applications in the AWS Cloud as quickly as possible. AWS Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and auto-scaling to application health monitoring. Customers can upload their code and Elastic Beanstalk will take care of the rest¹. AWS Elastic Beanstalk also minimizes the complexity that is related to the management of AWS resources. Customers can retain full control of the underlying AWS resources powering their applications and adjust the settings to suit their needs¹. Customers can also use the AWS Management Console, the AWS Command Line Interface (AWS CLI), or APIs to manage their applications¹. AWS Config is the AWS service that enables customers to assess, audit, and evaluate the configurations of their AWS resources. AWS Config continuously monitors and records the configuration changes of the resources and evaluates them against desired configurations or best practices². AWS Config does not help customers deploy applications in the AWS Cloud as quickly as possible or minimize the complexity that is related to the management of AWS resources. Amazon EC2 is the AWS service that provides secure, resizable compute capacity in the cloud. Customers can launch virtual servers called instances and choose from various configurations of CPU, memory, storage, and networking resources³. Amazon EC2 does not automatically handle the deployment or management of AWS resources for customers. Customers have to manually provision, configure, monitor, and scale their instances and other related resources. Amazon Personalize is the AWS service that enables customers to create personalized recommendations for their users based on their behavior and preferences. Amazon Personalize uses machine learning to analyze data and deliver real-time recommendations⁴. Amazon Personalize does not help customers deploy applications in the AWS Cloud as quickly as possible or minimize the complexity that is related to the management of AWS resources.

NEW QUESTION 28

- (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 30

- (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 33

- (Topic 3)

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

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

Answer: CE

Explanation:

According to the AWS shared responsibility model, the customer is responsible for security in the cloud, which includes the tasks of managing data encryption and

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

NEW QUESTION 34

- (Topic 3)

Which AWS service gives users the ability to discover and protect sensitive data that is stored in Amazon S3 buckets?

- A. Amazon Macie
- B. Amazon Detective
- C. Amazon GuardDuty
- D. AWS IAM Access Analyzer

Answer: A

Explanation:

Amazon Macie is a data security and privacy service offered by AWS that uses machine learning and pattern matching to discover the sensitive data stored within Amazon S3. You can define your own custom type of sensitive data category that might be unique to your business or use case. Macie also provides you with dashboards and alerts that give you visibility into how your data is being accessed or moved. Macie helps you protect your data by enabling you to apply data protection techniques such as encryption, deletion, access control, and auditing. References: Strengthen the security of sensitive data stored in Amazon S3 by using additional AWS services, Security best practices for Amazon S3, Sensitive Data Protection on AWS, Sensitive Data Protection on Amazon Web Services

NEW QUESTION 35

- (Topic 3)

Which Amazon EC2 instance pricing model can provide discounts of up to 90%?

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

Answer: D

Explanation:

Spot Instances are Amazon EC2 instances that are available at a discounted price compared to On-Demand pricing. Spot Instances use spare EC2 capacity that is not being used by other customers, and the price fluctuates based on supply and demand. Customers can request Spot Instances for their applications and specify the maximum price they are willing to pay per hour. If the Spot price is lower than the customer's bid, the Spot Instance is launched and the customer pays the current Spot price. However, if the Spot price rises above the customer's bid, the Spot Instance is terminated by AWS and the customer is charged for the partial hour of usage. Therefore, Spot Instances can provide discounts of up to 90% or more, but they are not suitable for applications that require continuous or predictable availability. Spot Instances are recommended for applications that are flexible, fault-tolerant, or have low priority, such as batch processing, data analysis, or testing and development.

NEW QUESTION 38

- (Topic 3)

Which company needs to apply security rules to a subnet for Amazon EC2 instances. Which AWS service or feature provides this functionality?

- A. Network ACLs
- B. Security groups
- C. AWS Certificate Manager (ACM)
- D. AWS Config

Answer: A

Explanation:

Network ACLs (network access control lists) are an AWS service or feature that provides the functionality of applying security rules to a subnet for EC2 instances. A subnet is a logical partition of an IP network within a VPC (virtual private cloud). A VPC is a logically isolated section of the AWS Cloud where the company can launch AWS resources in a virtual network that they define. A network ACL is a virtual firewall that controls the inbound and outbound traffic for one or more subnets. The company can use network ACLs to allow or deny traffic based on protocol, port, or source and destination IP address. Network ACLs are stateless, meaning that they do not track the traffic that flows through them. Therefore, the company must create rules for both inbound and outbound traffic.

NEW QUESTION 39

- (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 43

- (Topic 3)

A company wants to launch its web application in a second AWS Region. The company needs to determine which services must be regionally configured for this launch.

Which AWS services can be configured at the Region level? (Select TWO.)

- A. Amazon EC2
- B. Amazon Route 53
- C. Amazon CloudFront
- D. AWS WAF
- E. Amazon DynamoDB

Answer: BD

Explanation:

Amazon Route 53 and AWS WAF are AWS services that can be configured at the Region level. Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service that lets you register domain names, route traffic to resources, and check the health of your resources. 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. Amazon EC2, Amazon CloudFront, and Amazon DynamoDB are AWS services that can be configured at the global level or the Availability Zone level .

NEW QUESTION 46

- (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 50

- (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 53

- (Topic 3)

A company wants to integrate natural language processing (NLP) into business intelligence (BI) dashboards. The company wants to ask questions and receive answers with relevant visualizations.

Which AWS service or tool will meet these requirements?

- A. Amazon Macie
- B. Amazon Rekognition
- C. Amazon QuickSight Q
- D. Amazon Lex

Answer: C

Explanation:

Amazon QuickSight Q is a natural language query feature that allows users to ask questions about their data and receive answers in the form of relevant visualizations¹. Amazon Macie is a data security and data privacy service that uses machine learning and pattern matching to discover and protect sensitive data in AWS². Amazon Rekognition is a computer vision service that can analyze images and videos for faces, objects, scenes, text, and more³. Amazon Lex is a

service for building conversational interfaces using voice and text⁴.

NEW QUESTION 56

- (Topic 3)

Which AWS service can identify when an Amazon EC2 instance was terminated?

- A. AWS Identity and Access Management (IAM)
- B. AWS CloudTrail
- C. AWS Compute Optimizer
- D. Amazon EventBridge

Answer: B

Explanation:

AWS CloudTrail is the AWS service that can identify when an Amazon EC2 instance was terminated. AWS CloudTrail is a service that records API calls and events for AWS accounts and resources. AWS CloudTrail can capture the `TerminateInstances` event, which is triggered when an EC2 instance is terminated by a user or an AWS service. The event contains information such as the instance ID, the user identity, the source IP address, the time, and the reason for the termination¹². Customers can use the CloudTrail console, the AWS CLI, or the AWS SDKs to view and search for the `TerminateInstances` events in their event history or in their S3 buckets where they store their CloudTrail logs¹³.

NEW QUESTION 58

- (Topic 3)

A company is operating several factories where it builds products. The company needs the ability to process data, store data, and run applications with local system interdependencies that require low latency.

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

- A. AWS IoT Greengrass
- B. AWS Lambda
- C. AWS Outposts
- D. AWS Snowball Edge

Answer: C

Explanation:

AWS Outposts is a service that provides fully managed AWS infrastructure and services on premises. It allows users to run applications that require low latency and local data processing, while seamlessly connecting to the AWS Cloud for a consistent hybrid experience. AWS IoT Greengrass is a service that provides local compute, messaging, data caching, sync, and ML inference capabilities for connected devices. AWS Lambda is a service that allows users to run code without provisioning or managing servers. AWS Snowball Edge is a device that provides a petabyte-scale data transport and edge computing solution.

NEW QUESTION 59

- (Topic 3)

A company has a physical tape library to store data backups. The tape library is running out of space. The company needs to extend the tape library's capacity to the AWS Cloud.

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

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

Answer: D

Explanation:

AWS Storage Gateway is a hybrid cloud storage service that provides on- premises access to virtually unlimited cloud storage. You can use AWS Storage Gateway to simplify storage management and reduce costs for key hybrid cloud storage use cases. One of these use cases is tape-based backup, which allows you to store data backups on virtual tapes in the AWS Cloud. You can use the Tape Gateway feature of AWS Storage Gateway to extend your existing physical tape library to the AWS Cloud. Tape Gateway provides a virtual tape infrastructure that scales seamlessly with your backup needs and eliminates the operational burden of provisioning, scaling, and maintaining a physical tape infrastructure¹²³. References: 1: Cloud Storage Appliances, Hybrid Device - AWS Storage Gateway - AWS, 2: AWS Storage Gateway Documentation, 3: AWS Storage Gateway Features | Amazon Web Services

NEW QUESTION 64

- (Topic 3)

Which AWS services or features give users the ability to create a network connection between two VPCs? (Select TWO.)

- A. VPC endpoints
- B. Amazon Route 53
- C. VPC peering
- D. AWS Direct Connect
- E. AWS Transit Gateway

Answer: CE

Explanation:

VPC peering and AWS Transit Gateway are two AWS services or features that give users the ability to create a network connection between two VPCs. VPC peering is a networking connection between two VPCs that enables you to route traffic between them privately. You can create a VPC peering connection between your own VPCs, with a VPC in another AWS account, or with a VPC in a different AWS Region. Traffic between peered VPCs never traverses the public internet. VPC peering does not support transitive peering relationships, which means that if VPC A is peered with VPC B, and VPC B is peered with VPC C, then VPC A and VPC C are not automatically peered⁷⁸⁹. AWS Transit Gateway is a networking service that acts as a regional router for your VPCs and on- premises networks. You can attach up to 5,000 VPCs and VPN connections to a single transit gateway and route traffic between them. AWS Transit Gateway simplifies the

management and scalability of your network architecture, as you only need to create and manage a single connection from the central transit gateway to each connected network. AWS Transit Gateway supports transitive routing, which means that any network that is attached to the transit gateway can communicate with any other network that is attached to the same transit gateway . References: 7: VPC peering - Amazon Virtual Private Cloud, 8: Connect VPCs using VPC peering - Amazon Virtual Private Cloud, 9: Amazon VPC-to-Amazon VPC connectivity options - Amazon Virtual Private Cloud, : [AWS Transit Gateway - Amazon Web Services], : [Connect VPCs using AWS Transit Gateway - Amazon Virtual Private Cloud], : [AWS Transit Gateway: Simplify Your Network Architecture]

NEW QUESTION 68

- (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 70

- (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 73

- (Topic 3)

A company is running a monolithic on-premises application that does not scale and is difficult to maintain. The company has a plan to migrate the application to AWS and divide the application into microservices.

Which best practice of the AWS Well-Architected Framework is the company following with this plan?

- A. Integrate functional testing as part of AWS deployment.
- B. Use automation to deploy changes.
- C. Deploy the application to multiple locations.
- D. Implement loosely coupled dependencies.

Answer: D

Explanation:

The company is following the best practice of implementing loosely coupled dependencies by migrating the application to AWS and dividing the application into microservices. Loosely coupled dependencies are a design principle of the AWS Well-Architected Framework that helps to reduce the interdependencies between components and improve the scalability, reliability, and performance of the system. By breaking down the monolithic application into smaller, independent, and modular services, the company can reduce the complexity and maintenance costs, increase the agility and flexibility, and enable faster and more frequent deployments. AWS CloudFormation is an AWS service that provides the ability to manage infrastructure as code. 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 users 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 users to monitor and control the changes to their infrastructure.

References: Implementing Loosely Coupled Dependencies, What is AWS CloudFormation?

NEW QUESTION 76

- (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 78

- (Topic 3)

Which AWS services can a company use to achieve a loosely coupled architecture? (Select TWO.)

- A. Amazon Workspaces
- B. Amazon Simple Queue Service (Amazon SQS)
- C. Amazon Connect
- D. AWS Trusted Advisor
- E. AWS Step Functions

Answer: BE

Explanation:

Amazon Simple Queue Service (Amazon SQS) and AWS Step Functions are AWS services that can be used to achieve a loosely coupled architecture. Amazon SQS is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. AWS Step Functions lets you coordinate multiple AWS services into serverless workflows so you can build and update apps quickly. Using Step Functions, you can design and run workflows that stitch together services such as AWS Lambda and Amazon SNS into feature-rich applications. References: Amazon SQS, AWS Step Functions

NEW QUESTION 81

- (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 83

- (Topic 3)

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

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

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

Answer: B

Explanation:

IAM roles are a way of granting temporary permissions to entities that need to access AWS resources, such as users, applications, or services. IAM roles allow customers to assign permissions to entities without having to create or manage IAM users or credentials for them. IAM roles can be assumed by different entities

depending on the trust policy attached to the role. For example, IAM roles can be assumed by IAM users in the same or different AWS accounts, AWS services such as EC2 or Lambda, or external identities such as federated users or web identities. IAM roles can also be switched by IAM users to temporarily change their permissions. IAM roles are recommended for managing permissions for employees who often change teams, because they allow customers to define permissions based on job roles and responsibilities, and easily assign or revoke them as needed. IAM roles also reduce the operational overhead of creating, updating, or deleting IAM users or credentials for each employee or team change.

NEW QUESTION 85

- (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 88

- (Topic 3)

A company wants to monitor its workload performance. The company wants to ensure that the cloud services are delivered at a level that meets its business needs.

Which AWS Cloud Adoption Framework (AWS CAF) perspective will meet these requirements?

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

Answer: D

Explanation:

The Operations perspective helps you monitor and manage your cloud workloads to ensure that they are delivered at a level that meets your business needs. Common stakeholders include chief operations officer (COO), cloud director, cloud operations manager, and cloud operations engineers¹. The Operations perspective covers capabilities such as workload health monitoring, incident management, change management, release management, configuration management, and disaster recovery². The Business perspective helps ensure that your cloud investments accelerate your digital transformation ambitions and business outcomes. Common stakeholders include chief executive officer (CEO), chief financial officer (CFO), chief information officer (CIO), and chief technology officer (CTO). The Business perspective covers capabilities such as business case development, value realization, portfolio management, and stakeholder management³.

The Governance perspective helps you orchestrate your cloud initiatives while maximizing organizational benefits and minimizing transformation-related risks. Common stakeholders include chief transformation officer, CIO, CTO, CFO, chief data officer (CDO), and chief risk officer (CRO). The Governance perspective covers capabilities such as governance framework, budget and cost management, compliance management, and data governance⁴.

The Platform perspective helps you build an enterprise-grade, scalable, hybrid cloud platform, modernize existing workloads, and implement new cloud-native solutions. Common stakeholders include CTO, technology leaders, architects, and engineers. The Platform perspective covers capabilities such as platform design and implementation, workload migration and modernization, cloud-native development, and DevOps⁵. References:

- ? AWS Cloud Adoption Framework: Operations Perspective
- ? AWS Cloud Adoption Framework - Operations Perspective
- ? AWS Cloud Adoption Framework: Business Perspective
- ? AWS Cloud Adoption Framework: Governance Perspective
- ? AWS Cloud Adoption Framework: Platform Perspective

NEW QUESTION 93

- (Topic 3)

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

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

Answer: A

Explanation:

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

NEW QUESTION 97

- (Topic 3)

A company wants to generate a list of IAM users. The company also wants to view the status of various credentials that are associated with the users, such as password, access keys: and multi-factor authentication (MFA) devices
Which AWS service or feature will meet these requirements?

- A. IAM credential report
- B. AWS IAM Identity Center (AWS Single Sign-On)
- C. AWS Identity and Access Management Access Analyzer
- D. AWS Cost and Usage Report

Answer: A

Explanation:

An IAM credential report is a feature of AWS Identity and Access Management (IAM) that allows you to view and download a report that lists all IAM users in your account and the status of their various credentials, such as passwords, 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 credential management¹. References: 1: AWS Documentation - IAM User Guide - Getting credential reports for your AWS account

NEW QUESTION 102

- (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 107

- (Topic 3)

Which AWS service uses AWS Compute Optimizer to provide sizing recommendations based on workload metrics?

- A. Amazon EC2
- B. Amazon RDS
- C. Amazon Lightsail
- D. AWS Step Functions

Answer: A

Explanation:

Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud. It allows you to launch virtual servers, called instances, with different configurations of CPU, memory, storage, and networking resources. AWS Compute Optimizer analyzes the specifications and utilization metrics of your Amazon EC2 instances and generates recommendations for optimal instance types that can reduce costs and improve performance. You can view the recommendations on the AWS Compute Optimizer console or the Amazon EC2 console¹².

Amazon RDS, Amazon Lightsail, and AWS Step Functions are not supported by AWS Compute Optimizer. Amazon RDS is a managed relational database service that lets you set up, operate, and scale a relational database in the cloud. 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. AWS Step Functions lets you coordinate multiple AWS services into serverless workflows so you can build and update apps quickly³.

NEW QUESTION 112

- (Topic 3)

A company hosts a large amount of data in AWS. The company wants to identify if any of the data should be considered sensitive.

Which AWS service will meet the requirement?

- A. Amazon Inspector
- B. Amazon Macie
- C. AWS Identity and Access Management (IAM)
- D. Amazon CloudWatch

Answer: B

Explanation:

Amazon Macie is a fully managed service that uses machine learning and pattern matching to help you detect, classify, and better protect your sensitive data stored in the AWS Cloud¹. Macie can automatically discover and scan your Amazon S3 buckets for sensitive data such as personally identifiable information (PII), financial information, healthcare information, intellectual property, and credentials¹. Macie also provides you with a dashboard that shows the type, location, and volume of sensitive data in your AWS environment, as well as alerts and findings on potential security issues¹.

The other options are not suitable for identifying sensitive data in AWS. Amazon Inspector is a service that helps you find security vulnerabilities and deviations from best practices in your Amazon EC2 instances². AWS Identity and Access Management (IAM) is a service that helps you manage access to your AWS resources by creating users, groups, roles, and policies³. Amazon CloudWatch is a service that helps you monitor and troubleshoot your AWS resources and applications by collecting metrics, logs, events, and alarms⁴. References:

? 1: What Is Amazon Macie? - Amazon Macie

? 2: What Is Amazon Inspector? - Amazon Inspector

? 3: What Is IAM? - AWS Identity and Access Management

? 4: What Is Amazon CloudWatch? - Amazon CloudWatch

NEW QUESTION 115

- (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:

Changing AWS Support plans is a task that must be performed by using the AWS account root user credentials. The root user is the email address that you used to sign up for AWS. It 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, such as changing AWS Support plans, closing the account, or changing the account name or email address. Making changes to AWS production resources, accessing AWS Cost and Usage Reports, and granting auditors access to an AWS account for a compliance audit are tasks that can be performed by using IAM users or roles, which are entities that you create in AWS to delegate permissions to access AWS services and resources.

NEW QUESTION 120

- (Topic 3)

A company wants to verify if multi-factor authentication (MFA) is enabled for all users within its AWS accounts.

Which AWS service or resource will meet this requirement?

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

Answer: B

Explanation:

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

NEW QUESTION 125

- (Topic 3)

A company deployed an application on an Amazon EC2 instance. The application ran as expected for 6 months. In the past week, users have reported latency issues. A system administrator found that the CPU utilization was at 100% during business hours. The company wants a scalable solution to meet demand.

Which AWS service or feature should the company use to handle the load for its application during periods of high demand?

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

Answer: A

Explanation:

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

NEW QUESTION 126

- (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 130

- (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 133

- (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 138

- (Topic 3)

An auditor is preparing for an annual security audit. The auditor requests certification details for a company's AWS hosted resources across multiple Availability Zones in the us-east-1 Region. How should the company respond to the auditor's request?

- A. Open an AWS Support ticket to request that the AWS technical account manager (TAM) respond and help the auditor.
- B. Open an AWS Support ticket to request that the auditor receive approval to conduct an onsite assessment of the AWS data centers in which the company operates.
- C. Explain to the auditor that AWS does not need to be audited because the company's application is hosted in multiple Availability Zones.
- D. Use AWS Artifact to download the applicable report for AWS security control
- E. Provide the report to the auditor.

Answer: D

Explanation:

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA). You can use AWS Artifact to download the applicable report for AWS security controls and provide it to the auditor.

NEW QUESTION 142

- (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 146

- (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 150

- (Topic 3)

A company is considering migration to the AWS Cloud. The company wants a fully managed service or feature that can transfer streaming data from multiple sources to an Amazon S3 bucket.

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

- A. AWS DataSync
- B. Amazon Kinesis Data Firehose
- C. S3 Select
- D. AWS Transfer Family

Answer: B

Explanation:

Amazon Kinesis Data Firehose is a fully managed service that delivers real-time streaming data to destinations such as Amazon S3, Amazon Redshift, Amazon Elasticsearch Service, and Splunk. You can use Amazon Kinesis Data Firehose to capture, transform, and load streaming data from multiple sources, such as web applications, mobile devices, IoT sensors, and social media.

NEW QUESTION 153

- (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 156

- (Topic 3)

A company is building an application that needs to deliver images and videos globally with minimal latency. Which approach can the company use to accomplish this in a cost effective manner?

- A. Deliver the content through Amazon CloudFront.
- B. Store the content on Amazon S3 and enable S3 cross-region replication.
- C. Implement a VPN across multiple AWS Regions.
- D. Deliver the content through AWS PrivateLink.

Answer: A

Explanation:

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment. It works seamlessly with services including AWS Shield for DDoS mitigation, Amazon S3, Elastic Load Balancing or Amazon EC2 as origins for your applications, and Lambda@Edge to run custom code closer to customers' users and to customize the user experience. By using CloudFront, you can cache your content at the edge locations that are closest to your end users, reducing the network latency and improving the performance of your application. CloudFront also offers a pay-as-you-go pricing model, so you only pay for the data transfer and requests that you use.

NEW QUESTION 159

- (Topic 3)

An ecommerce company wants to distribute traffic between the Amazon EC2 instances that host its website. Which AWS service or resource will meet these requirements?

- A. Application Load Balancer
- B. AWS WAF
- C. AWS CloudHSM
- D. AWS Direct Connect

Answer: A

Explanation:

This is the AWS service or resource that will meet the requirements of distributing traffic between the Amazon EC2 instances that host the website. Application Load Balancer is a type of Elastic Load Balancing that distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and Lambda functions. Application Load Balancer operates at the application layer (layer 7) of the OSI model and supports advanced features such as path-based routing, host-based routing, health checks, and SSL termination. You can learn more about Application Load Balancer from [this webpage] or [this digital course].

NEW QUESTION 162

- (Topic 3)

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

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

Answer: B

Explanation:

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

NEW QUESTION 164

- (Topic 3)

A company is launching a mobile app. The company wants customers to be able to use the app without upgrading their mobile devices. Which pillar of the AWS Well-Architected Framework does this goal represent?

- A. Security
- B. Reliability
- C. Cost optimization
- D. Sustainability

Answer: C

Explanation:

Cost optimization is one of the five pillars of the AWS Well-Architected Framework. It focuses on avoiding unnecessary costs, understanding and controlling where money is being spent, selecting the most appropriate and right number of resource types, analyzing spend over time, and scaling to meet business needs without overspending.

NEW QUESTION 165

- (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 169

- (Topic 3)

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

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

Answer: AC

Explanation:

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

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

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

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

References:

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

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

NEW QUESTION 171

- (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 175

- (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 177

- (Topic 3)

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

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

Answer: C

Explanation:

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

NEW QUESTION 182

- (Topic 3)

A company is building an application on AWS. The application needs to comply with credit card regulatory requirements. The company needs proof that the AWS services and deployment are in compliance.

Which actions should the company take to meet these requirements? (Select TWO.)

- A. Use Amazon Inspector to submit the application for certification.
- B. Ensure that the application's underlying hardware components comply with requirements.
- C. Use AWS Artifact to access AWS documents about the compliance of the services.
- D. Get the compliance of the application certified by a company assessor.
- E. Use AWS Security Hub to certify the compliance of the application.

Answer: CD

Explanation:

Using AWS Artifact to access AWS documents about the compliance of the services, and getting the compliance of the application certified by a company assessor are actions that the company should take to meet the requirements of complying with credit card regulatory requirements. AWS Artifact is a service that provides on-demand access to AWS security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. AWS Artifact can help you demonstrate compliance with credit card regulatory requirements by providing you with proof that the AWS services and deployment are in compliance. Getting the compliance of the application certified by a company assessor is an action that the company should take to ensure that the application meets the specific requirements of the credit card industry. A company assessor is an independent third-party entity that is qualified to assess the compliance of the application with the relevant standards and regulations. Using Amazon Inspector to submit the application for certification is not an action that the company should take, because Amazon Inspector is a service that helps you improve the security and compliance of your applications deployed on AWS by automatically assessing them for vulnerabilities and deviations from best practices, but it does not provide certification for the applications. Ensuring that the application's underlying hardware components comply with requirements is not an action that the company should take, because the application is deployed on AWS, and AWS is responsible for the security and compliance of the underlying hardware components. This is part of the shared responsibility model, where AWS is responsible for security of the cloud, and customers are responsible for security in the cloud. Using AWS Security Hub to certify the compliance of the application is not an action that the company should take, because AWS Security Hub is a service that gives you a comprehensive view of your security posture across your AWS accounts and helps you check your environment against security industry standards and best practices, but it does not provide certification for the applications.

NEW QUESTION 185

- (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 190

- (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 195

- (Topic 3)

Which AWS service or feature is an example of a relational database management system?

- A. Amazon Athena
- B. Amazon Redshift
- C. Amazon S3 Select
- D. Amazon Kinesis Data Streams

Answer: B

Explanation:

Amazon Redshift is a fully managed, petabyte-scale data warehouse service in the cloud. You can start with just a few hundred gigabytes of data and scale to a petabyte or more. This enables you to use your data to acquire new insights for your business and customers. Amazon Redshift is a relational database management system (RDBMS), so it is compatible with other RDBMS applications. You can use standard SQL to query the data.

NEW QUESTION 198

- (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 202

- (Topic 3)

A company needs to search for text in documents that are stored in Amazon S3. Which AWS service will meet these requirements?

- A. Amazon Kendra
- B. Amazon Rekognition
- C. Amazon Polly
- D. Amazon Lex

Answer: A

Explanation:

Amazon Kendra is a highly accurate and easy to use intelligent search service powered by machine learning. It enables users to easily find the content they are looking for, even when it is scattered across multiple locations and content repositories within their organization. Amazon Kendra supports natural language queries, and can search for text in documents stored in Amazon S3, as well as other sources such as SharePoint, OneDrive, Salesforce, ServiceNow, and more¹. Amazon Rekognition is a computer vision service that makes it easy to add image and video analysis to applications. It can detect objects, faces, text, scenes, activities, and emotions in images and videos. However, it is not designed for searching for text in documents stored in Amazon S3².

Amazon Polly is a text-to-speech service that turns text into lifelike speech. It can create audio versions of books, articles, podcasts, and more. However, it is not designed for searching for text in documents stored in Amazon S3.

Amazon Lex is a service for building conversational interfaces using voice and text. It can create chatbots that can interact with users using natural language. However, it is not designed for searching for text in documents stored in Amazon S3.

References:

- ? Amazon Kendra – Intelligent Search Service Powered by Machine Learning
- ? Amazon Rekognition – Video and Image - AWS
- ? Amazon Polly – Text-to-Speech Service - AWS
- ? Amazon Lex – Build Conversation Bots - AWS

NEW QUESTION 205

- (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 209

- (Topic 3)

A company has deployed an Amazon EC2 instance.

Which option is an AWS responsibility under the AWS shared responsibility model?

- A. Managing and encrypting application data
- B. Installing updates and security patches of guest operating system
- C. Configuration of infrastructure devices
- D. Configuration of security groups on each instance

Answer: C

Explanation:

According to the AWS shared responsibility model, AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud, such as data centers, hardware, software, networking, and facilities¹. This includes the configuration of infrastructure devices, such as routers, switches, firewalls, and load balancers². Customers are responsible for managing their data, applications, operating systems, security groups, and other aspects of their AWS environment¹. Therefore, options A, B, and D are customer responsibilities, not AWS responsibilities. References: 1: AWS Well-Architected Framework - Elasticity; 2: Reactive Systems on AWS - Elastic

NEW QUESTION 213

- (Topic 3)

A company website is experiencing DDoS attacks.

Which AWS service can help protect the company website against these attacks?

- A. AWS Resource Access Manager
- B. AWS Amplify
- C. AWS Shield
- D. Amazon GuardDuty

Answer: C

Explanation:

AWS Shield is a managed DDoS protection service that safeguards applications running on AWS from distributed denial of service (DDoS) attacks. DDoS attacks are malicious attempts to disrupt the normal functioning of a website or application by overwhelming it with a large volume of traffic from multiple sources. AWS Shield provides two tiers of protection: Standard and Advanced. AWS Shield Standard is automatically enabled for all AWS customers at no additional cost. It protects your AWS resources, such as Amazon CloudFront, AWS Global Accelerator, and Amazon Route 53, from the most common and frequently occurring network and transport layer DDoS attacks. AWS Shield Advanced is an optional paid service that provides additional protection for your AWS resources and applications, such as Amazon Elastic Compute Cloud (Amazon EC2), Elastic Load Balancing (ELB), Amazon Simple Storage Service (Amazon S3), Amazon Relational Database Service (Amazon RDS), and AWS Elastic Beanstalk. AWS Shield Advanced offers enhanced detection and mitigation capabilities, 24/7 access to the AWS DDoS Response Team (DRT), real-time visibility and reporting, and cost protection against DDoS-related spikes in your AWS bill¹². References: AWS Shield, What is a DDOS Attack & How to Protect Your Site Against One

NEW QUESTION 217

- (Topic 3)

A company wants to migrate its server-based applications to the AWS Cloud. The company wants to determine the total cost of ownership for its compute resources that will be hosted on the AWS Cloud.

Which combination of AWS services or tools will meet these requirements?

- A. AWS Pricing Calculator
- B. Migration Evaluator
- C. AWS Support Center
- D. AWS Application Discovery Service

E. AWS Database Migration Service (AWS DMS)

Answer: AD

Explanation:

AWS Pricing Calculator and AWS Application Discovery Service are the best combination of AWS services or tools to meet the requirements of determining the total cost of ownership for compute resources that will be hosted on the AWS Cloud. AWS Pricing Calculator is a tool that enables you to estimate the cost of using AWS services based on your usage scenarios and requirements. You can use AWS Pricing Calculator to compare the costs of running your applications on-premises or on AWS, and to optimize your AWS spending. AWS Application Discovery Service is a service that helps you plan your migration to the AWS Cloud by collecting and analyzing information about your on-premises servers, applications, and dependencies. You can use AWS Application Discovery Service to identify the inventory of your on-premises infrastructure, group servers by applications, and estimate the performance and resource utilization of your applications⁴⁵

NEW QUESTION 218

- (Topic 3)

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

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

Answer: A

Explanation:

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

NEW QUESTION 223

- (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 224

- (Topic 3)

Which AWS service could an administrator use to provide desktop environments for several employees?

- A. AWS Organizations
- B. AWS Fargate
- C. AWS WAF
- D. AWS Workspaces

Answer: D

Explanation:

AWS Workspaces is a service that provides fully managed, secure, and reliable virtual desktops for your employees. You can access your personal Windows environment on various devices, such as Android, iOS, Fire, Mac, PC, Chromebook, and Linux. You can choose from different bundles of CPU, memory, storage, and software options to suit your needs. You can also integrate AWS Workspaces with your existing Active Directory, VPN, and security policies. AWS Workspaces helps you reduce the cost and complexity of managing your desktop infrastructure, while enhancing the productivity and security of your remote workers⁴⁵⁶. References: 4: Amazon WorkSpaces Client Download, 5: VDI Desktops - Amazon WorkSpaces Family - AWS, 6: Amazon WorkSpaces

NEW QUESTION 225

- (Topic 3)

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

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

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

Answer: AC

Explanation:

Realigning teams to focus on products and value streams, and using agile methods to rapidly iterate and evolve are tasks that the company should perform to meet the requirements of becoming more responsive to customer inquiries and feedback, according to the AWS Cloud Adoption Framework (AWS CAF). AWS CAF organizes guidance into six areas of focus, called perspectives: business, people, governance, platform, security, and operations. Each perspective is divided into capabilities, which describe the skills and processes to execute the transition effectively. The people perspective helps you prepare your organization for cloud adoption, and includes capabilities such as organizational change management, staff skills and readiness, and organizational alignment. The business perspective helps you align IT strategy with business strategy, and includes capabilities such as business case development, value proposition, and product ownership. Creating new value propositions with new products and services is a task that belongs to the business perspective, but it is not directly related to the requirement of becoming more responsive to customer inquiries and feedback. Using a new data and analytics platform to create actionable insights is a task that belongs to the platform perspective, which helps you design, implement, and optimize the architecture of the AWS environment. However, it is also not directly related to the requirement of becoming more responsive to customer inquiries and feedback. Migrating and modernizing legacy infrastructure is a task that belongs to the operations perspective, which helps you enable, run, use, operate, and recover IT workloads to the level agreed upon with your business stakeholders. However, it is also not directly related to the requirement of becoming more responsive to customer inquiries and feedback.

NEW QUESTION 226

- (Topic 3)

A company wants to migrate its PostgreSQL database to AWS. The company does not use the database frequently. Which AWS service or resource will meet these requirements with the LEAST management overhead?

- A. PostgreSQL on Amazon EC2
- B. Amazon RDS for PostgreSQL
- C. Amazon Aurora PostgreSQL-Compatible Edition
- D. Amazon Aurora Serverless

Answer: D

Explanation:

Amazon Aurora Serverless is an on-demand, auto-scaling configuration for Amazon Aurora PostgreSQL-Compatible Edition. It is a fully managed service that automatically scales up and down based on the application's actual needs. Amazon Aurora Serverless is suitable for applications that have infrequent, intermittent, or unpredictable database workloads, and that do not require the full power and range of options provided by provisioned Aurora clusters. Amazon Aurora Serverless eliminates the need to provision and manage database instances, and reduces the management overhead associated with database administration tasks such as scaling, patching, backup, and recovery. References: Amazon Aurora Serverless, Choosing between Aurora Serverless and provisioned Aurora DB clusters, [AWS Cloud Practitioner Essentials: Module 4 - Databases in the Cloud]

NEW QUESTION 229

- (Topic 3)

A company wants an automated process to continuously scan its Amazon EC2 instances for software vulnerabilities. Which AWS service will meet these requirements?

- A. Amazon GuardDuty
- B. Amazon Inspector
- C. Amazon Detective
- D. Amazon Cognito

Answer: B

Explanation:

Amazon Inspector is the AWS service that can be used to perform vulnerability scans on AWS EC2 instances for software vulnerabilities automatically in a periodic fashion. Amazon Inspector automatically discovers EC2 instances and scans them for software vulnerabilities and unintended network exposure. Amazon Inspector uses AWS Systems Manager (SSM) and the SSM Agent to collect information about the software application inventory of the EC2 instances. This data is then scanned by Amazon Inspector for software vulnerabilities¹². Amazon Inspector also integrates with other AWS services, such as Amazon EventBridge and AWS Security Hub, to automate discovery, expedite vulnerability routing, and shorten mean time to remediate (MTTR) vulnerabilities².

NEW QUESTION 231

- (Topic 3)

Which actions are best practices for an AWS account root user? (Select TWO.)

- A. Share root user credentials with team members.
- B. Create multiple root users for the account, separated by environment.
- C. Enable multi-factor authentication (MFA) on the root user.
- D. Create an IAM user with administrator privileges for daily administrative tasks, instead of using the root user.
- E. Use programmatic access instead of the root user and password.

Answer: CD

Explanation:

The AWS account root user is the identity that has complete access to all AWS services and resources in the account. It is accessed by signing in with the email address and password that were used to create the account¹. The root user should be protected and used only for a few account and service management tasks that require it¹. Therefore, the following actions are best practices for an AWS account root user:

? Enable multi-factor authentication (MFA) on the root user. MFA is a security feature that requires users to provide two or more pieces of information to authenticate themselves, such as a password and a code from a device. MFA adds an extra layer of protection for the root user credentials, which can access sensitive information and perform critical operations in the account².

? Create an IAM user with administrator privileges for daily administrative tasks, instead of using the root user. IAM is a service that helps customers manage access to AWS resources for users and groups. Customers can create IAM users and assign them permissions to perform specific tasks on specific resources. Customers can also create IAM roles and policies to delegate access to other AWS services or external entities³. By creating an IAM user with administrator privileges, customers can avoid using the root user for everyday tasks and reduce the risk of accidental or malicious changes to the account¹.

NEW QUESTION 236

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