



# Amazon-Web-Services

## Exam Questions CLF-C02

AWS Certified Cloud Practitioner

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#### NEW QUESTION 1

- (Topic 3)

A company wants to monitor for misconfigured security groups that are allowing unrestricted access to specific ports. Which AWS service will meet this requirement?

- A. AWS Trusted Advisor
- B. Amazon CloudWatch
- C. Amazon GuardDuty
- D. AWS Health Dashboard

**Answer:** A

#### Explanation:

AWS Trusted Advisor is an online tool that provides you real time guidance to help you provision your resources following AWS best practices, including security and performance. It can help you monitor for misconfigured security groups that are allowing unrestricted access to specific ports. Amazon CloudWatch is a service that monitors your AWS resources and the applications you run on AWS. Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior. AWS Health Dashboard provides relevant and timely information to help you manage events in progress, and provides proactive notification to help you plan for scheduled activities.

#### NEW QUESTION 2

- (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 3

- (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 4

- (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 task. References: AWS Identity and Access Management (IAM) - AWS Documentation

#### NEW QUESTION 5

- (Topic 3)

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

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

**Answer:** BE

**Explanation:**

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

Multiple AWS accounts is a feature of AWS Organizations that enables customers to create and manage multiple AWS accounts from a central location. With multiple AWS accounts, customers can isolate workloads for different departments, projects, or environments, and apply granular access controls and policies to each account. Multiple AWS accounts also helps customers improve security, compliance, and governance of their AWS resources<sup>56</sup>. References: 5:

Consolidated billing for AWS Organizations - AWS

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

**NEW QUESTION 6**

- (Topic 3)

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

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

**Answer:** A

**Explanation:**

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

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

**NEW QUESTION 7**

- (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 more<sup>1234</sup>. 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 organization<sup>2</sup>. 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 8**

- (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 replication<sup>12</sup>

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 requirements<sup>3</sup>

? 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 required<sup>4</sup>

? 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 9

- (Topic 3)

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

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

**Answer:** AB

### Explanation:

AWS Marketplace is a digital catalog that offers thousands of software products and solutions from independent software vendors (ISVs) and AWS partners. Customers can use AWS Marketplace to find, buy, and deploy software on AWS. Some of the benefits of using AWS Marketplace are:

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

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

## NEW QUESTION 10

- (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 disruption<sup>3</sup>. 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 10

- (Topic 3)

A company needs to run a workload for several batch image rendering applications. It is acceptable for the workload to experience downtime. Which Amazon EC2 pricing model would be MOST cost-effective in this situation?

- A. On-Demand Instances
- B. Reserved Instances



- C. Dedicated Instances
- D. Spot Instances

**Answer:** D

**Explanation:**

Amazon EC2 Spot Instances are instances that use spare EC2 capacity that is available at up to a 90% discount compared to On-Demand prices. You can use Spot Instances for various stateless, fault-tolerant, or flexible applications such as big data, containerized workloads, high-performance computing (HPC), and test & development workloads. Spot Instances are ideal for workloads that can be interrupted, such as batch image rendering applications<sup>1</sup>. On-Demand Instances are instances that let you pay for compute capacity by the hour or second (minimum of 60 seconds) with no long-term commitments. This frees you from the costs and complexities of planning, purchasing, and maintaining hardware and transforms what are commonly large fixed costs into much smaller variable costs<sup>2</sup>. Reserved Instances are instances that provide you with a significant discount (up to 75%) compared to On-Demand Instance pricing. In exchange, you select a term and make an upfront payment to reserve a certain amount of compute capacity for that term<sup>3</sup>. Dedicated Instances are instances that run in a VPC on hardware that's dedicated to a single customer. Your Dedicated Instances are physically isolated at the host hardware level from instances that belong to other AWS accounts<sup>4</sup>.

**NEW QUESTION 14**

- (Topic 3)

Which AWS service or feature is associated with a subnet in a VPC and is used to control inbound and outbound traffic?

- A. Amazon Inspector
- B. Network ACLs
- C. AWS Shield
- D. VPC Flow Logs

**Answer:** B

**Explanation:**

Network ACLs (network access control lists) are an optional layer of security for your VPC that act as a firewall for controlling traffic in and out of one or more subnets. You 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, you must create rules for both inbound and outbound traffic.

**NEW QUESTION 17**

- (Topic 3)

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

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

**Answer:** D

**Explanation:**

The AWS shared responsibility model describes the division of responsibilities between AWS and the customer for security and compliance. AWS is responsible for the security of the cloud, which includes the hardware, software, networking, and facilities that run AWS services. The customer is responsible for security in the cloud, which includes the customer data, applications, operating systems, and network and firewall configurations. Therefore, updating the guest operating system on Amazon EC2 instances is the customer's responsibility<sup>2</sup>.

**NEW QUESTION 22**

- (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 visualizations<sup>1</sup>. Amazon Macie is a data security and data privacy service that uses machine learning and pattern matching to discover and protect sensitive data in AWS<sup>2</sup>. Amazon Rekognition is a computer vision service that can analyze images and videos for faces, objects, scenes, text, and more<sup>3</sup>. Amazon Lex is a service for building conversational interfaces using voice and text<sup>4</sup>.

**NEW QUESTION 25**

- (Topic 3)

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

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 28**

- (Topic 3)

A company wants to migrate its database to a managed AWS service that is compatible with PostgreSQL.

Which AWS services will meet these requirements? (Select TWO)

- A. Amazon Athena
- B. Amazon RDS
- C. Amazon EC2
- D. Amazon DynamoDB
- E. Amazon Aurora

**Answer:** BE

**Explanation:**

Amazon RDS and Amazon Aurora are both managed AWS services that support the PostgreSQL database engine. Amazon RDS makes it easier to set up, operate, and scale PostgreSQL deployments on the cloud, while Amazon Aurora is a cloud-native database engine that is compatible with PostgreSQL and offers higher performance and availability. Amazon Athena is a serverless query service that does not support PostgreSQL, but can analyze data in Amazon S3 using standard SQL. Amazon EC2 is a compute service that allows users to launch virtual machines, but does not provide any database management features. Amazon DynamoDB is a NoSQL database service that is not compatible with PostgreSQL, but offers fast and consistent performance at any scale. References: Hosted PostgreSQL - Amazon RDS for PostgreSQL - AWS, Amazon RDS for PostgreSQL - Amazon Relational Database Service, AWS PostgreSQL: Managed or Self-Managed? - NetApp, AWS Announces Amazon Aurora Supports PostgreSQL 12 - InfoQ, Amazon Aurora vs PostgreSQL | What are the differences? - StackShare

**NEW QUESTION 30**

- (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 connectors<sup>1</sup>.

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 data<sup>2</sup>.

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 Streams<sup>3</sup>.

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 availability<sup>4</sup>.

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 32**

- (Topic 3)

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

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

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

**Answer:** B

**Explanation:**

A security group is a virtual firewall that can be associated with an Amazon EC2 instance to control the inbound and outbound traffic for the instance. You can specify which protocols, ports, and source or destination IP ranges are allowed or denied by the security group. A network ACL is a stateless filter that can be associated with a subnet to control the traffic to and from the subnet, but it is not associated with an EC2 instance<sup>4</sup>. AWS WAF is a web application firewall that helps protect your web applications or APIs against common web exploits that may affect availability, compromise security, or consume excessive resources. VPC route tables are used to determine where network traffic is directed within a VPC or to an internet gateway, virtual private gateway, NAT device, VPC peering connection, or VPC endpoint.

#### NEW QUESTION 37

- (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 users<sup>2</sup>. 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 41

- (Topic 3)

A company needs to implement identity management for a fleet of mobile apps that are running in the AWS Cloud. Which AWS service will meet this requirement?

- A. Amazon Cognito
- B. AWS Security Hub
- C. AWS Shield
- D. AWS WAF

**Answer:** A

#### Explanation:

Amazon Cognito is a service that provides identity management for mobile and web applications, allowing users to sign up, sign in, and access AWS resources with different identity providers. AWS Security Hub is a service that provides a comprehensive view of the security posture of AWS accounts and resources. AWS Shield is a service that provides protection against distributed denial of service (DDoS) attacks. AWS WAF is a web application firewall that helps protect web applications from common web exploits.

#### NEW QUESTION 43

- (Topic 3)

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

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

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 45

- (Topic 3)

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

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

**Answer:** D

#### Explanation:

The AWS Well-Architected Framework is a set of best practices and guidelines for designing and operating workloads on AWS. It helps customers achieve operational excellence, security, reliability, performance efficiency, cost optimization, and sustainability. The framework is based on six pillars, each with its own design principles, best practices, and questions. Customers can use the framework to assess their current state, identify gaps, and implement improvements<sup>12</sup>. AWS Support is a service that provides technical assistance, guidance, and resources for AWS customers. It offers different plans with varying levels of access to AWS experts, response times, and features<sup>3</sup>. AWS Support does not provide a comprehensive framework for operational support. AWS Cloud Adoption Framework (AWS CAF) is a guidance tool that helps customers plan and execute their cloud migration journey. It provides a set of perspectives, capabilities, and best practices to align the business and technical aspects of cloud adoption<sup>4</sup>. AWS CAF does not focus on operational support for existing workloads on AWS. AWS Managed Services (AMS) is a service that operates AWS infrastructure on behalf of customers. It provides a secure and compliant environment, automates common activities, and applies best practices for provisioning, patching, backup, recovery, and monitoring<sup>5</sup>. AMS does not provide a framework for customers to operate their own workloads on AWS.

#### NEW QUESTION 48



- (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 stakeholders<sup>12</sup>.

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 risks<sup>12</sup>.

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 application<sup>12</sup>.

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 performance<sup>12</sup>. References:

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

**NEW QUESTION 52**

- (Topic 3)

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

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

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

**Answer:** B

**Explanation:**

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

**NEW QUESTION 55**

- (Topic 3)

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 60**

- (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 65**

- (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 69**

- (Topic 3)

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

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

**Answer:** D

**Explanation:**

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

**NEW QUESTION 73**

- (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 74**

- (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 75**

- (Topic 3)

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 80**

- (Topic 3)

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

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

**Answer:** AB

**Explanation:**

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

? Envision phase: This phase focuses on demonstrating how cloud will help accelerate the business outcomes of the customer. It involves identifying and prioritizing transformation opportunities across four domains: business, people, governance, and platform. It also involves associating the transformation initiatives with key stakeholders and measurable business outcomes<sup>1</sup>.

? Align phase: This phase focuses on identifying capability gaps across six perspectives: business, people, governance, platform, security, and operations. It also involves identifying cross-organizational dependencies and surfacing stakeholder concerns and challenges. The goal of this phase is to create strategies for improving the cloud readiness, ensure stakeholder alignment, and facilitate relevant organizational change management activities<sup>1</sup>.

? Launch phase: This phase focuses on delivering pilot initiatives in production and demonstrating incremental business value. Pilots should be highly impactful and influence future direction. The customer should learn from the pilots and adjust their approach before scaling to full production<sup>1</sup>.

? Scale phase: This phase focuses on expanding production pilots and business value to the desired scale and ensuring that the business benefits associated with the cloud investments are realized and sustained<sup>1</sup>.

**NEW QUESTION 81**

- (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 83**

- (Topic 3)

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

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

**Answer:** B

**Explanation:**

AWS Enterprise Support plan is the highest level of support that AWS offers to its customers. One of the exclusive benefits of this plan is the access to a technical account manager (TAM), who is a dedicated point of contact for guidance, advocacy, and support<sup>2</sup>. A technical project manager, a cloud support engineer, and a solutions architect are not exclusive benefits of the AWS Enterprise Support plan, as they are also available to customers with lower-tier support plans or through other AWS services or programs<sup>3,4,5</sup>.

**NEW QUESTION 86**

- (Topic 3)

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

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

**Answer:** A

**Explanation:**

AWS CloudTrail is a service that provides a record of actions taken by a user, role, or an AWS service in your AWS account. CloudTrail captures all API calls for AWS services as events, including calls from the AWS Management Console, AWS SDKs, command line tools, and higher-level AWS services. You can use CloudTrail to monitor, audit, and troubleshoot your AWS account activity<sup>3,4</sup>. AWS Trusted Advisor is a service that provides best practices recommendations for cost optimization, performance, security, and fault tolerance in your AWS account<sup>5</sup>. 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<sup>6</sup>. AWS X-Ray is a service that helps you analyze and debug your applications by collecting data about the requests that your application serves, and providing tools to view, filter, and gain insights into that data<sup>7</sup>. References: Logging AWS Audit Manager API calls with CloudTrail, Logging AWS Account Management API calls using AWS CloudTrail, Review API calls in your AWS account using CloudTrail, Monitor the usage of AWS API calls using Amazon CloudWatch, Which service enables customers to audit API calls in their AWS ...

**NEW QUESTION 91**

- (Topic 3)

A company wants to establish a private network connection between AWS and its corporate network.

Which AWS service or feature will meet this requirement?

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

**Answer:** C

**Explanation:**

AWS Direct Connect is a cloud service solution that makes it easy to establish a dedicated network connection from your premises to AWS. Using AWS Direct Connect, you can establish private connectivity between AWS and your datacenter, office, or colocation environment, which in many cases can reduce your network costs, increase bandwidth throughput, and provide a more consistent network experience than internet- based connections<sup>1,2</sup>. References: 1: Dedicated Network Connection - AWS Direct Connect - AWS, 2: What is AWS Direct Connect? - AWS Direct Connect

**NEW QUESTION 92**

- (Topic 3)

Which AWS service is a continuous delivery and deployment solution?

- A. AWSAppSync
- B. AWS CodePipeline
- C. AWS Cloud9
- D. AWS CodeCommit

**Answer:** B

**Explanation:**

AWS CodePipeline is a continuous delivery and deployment service that automates the release process of software applications across different stages, such as source code, build, test, and deploy<sup>2</sup>. AWSAppSync, AWS Cloud9, and AWS CodeCommit are other AWS services related to application development, but they do not provide continuous delivery and deployment solutions<sup>3,4</sup>.

**NEW QUESTION 97**

- (Topic 3)

Which of the following is a fully managed graph database service on AWS?

- A. Amazon Aurora
- B. Amazon FSx
- C. Amazon DynamoDB
- D. Amazon Neptune

**Answer:** D



**Explanation:**

Amazon Neptune is a fully managed graph database service on AWS. A graph database is a type of database that stores and queries data as a network of nodes and edges, representing entities and relationships. Graph databases are useful for applications that deal with highly connected data, such as social networks, recommendation engines, fraud detection, and knowledge graphs<sup>45</sup>. Amazon Neptune is a fast, reliable, and scalable graph database service that supports two popular graph models: property graphs and RDF. Amazon Neptune also supports two open standards for querying graphs: Apache TinkerPop Gremlin and SPARQL. Amazon Neptune handles the heavy lifting of managing the database, such as provisioning, patching, backup, recovery, encryption, and replication<sup>456</sup>. References: 4: Managed Graph Database - Amazon Neptune - AWS, 5: Amazon Neptune – A Fully Managed Graph Database Service, 6: Working with AWS Neptune. Neptune is a fully-managed graph ... - Medium

**NEW QUESTION 101**

- (Topic 3)

A company is expecting a short-term spike in internet traffic for its application. During the traffic increase, the application cannot be interrupted. The company also needs to minimize cost and maximize flexibility.

A company needs to use a serverless interactive query service to analyze data in Amazon S3. The query service must support standard SQL.

Which AWS service will meet these requirements?

- A. Amazon Redshift
- B. AWS Glue
- C. Amazon Athena
- D. Amazon Kinesis Data Streams

**Answer: C**

**Explanation:**

Amazon Athena is a serverless interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is ideal for quick, ad-hoc querying but it can also handle complex analysis, including large joins, window functions, and arrays. Athena scales automatically—executing queries in parallel—so results are fast, even with large datasets and complex queries. Amazon Redshift is a fully managed, petabyte-scale data warehouse service that can run complex analytic queries against structured and semi-structured data using standard SQL. However, it is not a serverless service and requires provisioning and managing clusters of nodes. AWS Glue is a fully managed extract, transform, and load (ETL) service that makes it easy to prepare and load your data for analytics. However, it is not a query service and does not support standard SQL. Amazon Kinesis Data Streams is a service that enables you to build custom applications that process or analyze streaming data for specialized needs. However, it is not a query service and does not support standard SQL.

**NEW QUESTION 103**

- (Topic 3)

An ecommerce company wants to provide relevant product recommendations to its customers. The recommendations will include products that are frequently purchased with other products that the customer already purchased. The recommendations also will include products of a specific color and products from the customer's favorite brand.

Which AWS service or feature should the company use to meet these requirements with the LEAST development effort?

- A. Amazon Comprehend
- B. Amazon Forecast
- C. Amazon Personalize
- D. Amazon SageMaker Studio

**Answer: C**

**Explanation:**

Amazon Personalize is a service that provides real-time personalized recommendations based on the user's behavior, preferences, and context. It can also incorporate metadata such as product color and brand to generate more relevant recommendations. Amazon Comprehend is a natural language processing (NLP) service that can analyze text for entities, sentiments, topics, and more. Amazon Forecast is a service that provides accurate time-series forecasting based on machine learning. Amazon SageMaker Studio is a web-based integrated development environment (IDE) for machine learning.

**NEW QUESTION 105**

- (Topic 3)

A company's headquarters is located on a different continent from where the majority of the company's customers live. The company wants an AWS Cloud environment setup that will provide the lowest latency to the customers.

A company wants to automate the creation of new AWS accounts and automatically prevent all users from creating Amazon EC2 instances.

Which AWS service provides this functionality?

- A. AWS Service Catalog
- B. AWS Organizations
- C. EC2 Image Builder
- D. AWS Systems Manager

**Answer: B**

**Explanation:**

AWS Organizations is a service that enables you to create and manage multiple AWS accounts centrally. You can use AWS Organizations to automate account creation, apply policies to control access and permissions, and consolidate billing across your accounts. You can also use AWS Organizations to prevent users from creating Amazon EC2 instances in certain regions or with certain configurations<sup>2</sup>

**NEW QUESTION 110**

- (Topic 3)

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

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



**Answer:** C

**Explanation:**

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

**NEW QUESTION 111**

- (Topic 3)

A company wants a key-value NoSQL database that is fully managed and serverless. Which AWS service will meet these requirements?

- A. Amazon DynamoDB
- B. Amazon RDS
- C. Amazon Aurora
- D. Amazon Memory DB for Redis

**Answer:** A

**Explanation:**

Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. It is a fully managed, serverless database that does not require provisioning, patching, or backup. It offers built-in security, backup and restore, and in-memory caching<sup>3</sup>. Amazon RDS is a relational database service that makes it easy 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. However, it is not a key-value NoSQL database, and it is not serverless, as it requires you to choose an instance type and size<sup>4</sup>. Amazon Aurora is a MySQL and PostgreSQL-compatible relational database built for the cloud, that combines the performance and availability of traditional enterprise databases with the simplicity and cost-effectiveness of open source databases. However, it is also not a key-value NoSQL database, and it is not serverless, as it requires you to choose an instance type and size. Amazon MemoryDB for Redis is a Redis-compatible, durable, in-memory database service that delivers ultra-fast performance and multi-AZ reliability for the most demanding applications. However, it is also not a key-value NoSQL database, and it is not serverless, as it requires you to choose a node type and size.

**NEW QUESTION 112**

- (Topic 3)

A company is planning to host its workloads on AWS.

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 116**

- (Topic 3)

Which AWS service supports a hybrid architecture that gives users the ability to extend AWS infrastructure, AWS services, APIs, and tools to data centers, co-location environments, or on-premises facilities?

- A. AWS Snowmobile
- B. AWS Local Zones
- C. AWS Outposts
- D. AWS Fargate

**Answer:** C

**Explanation:**

AWS Outposts is a service that delivers AWS infrastructure and services to virtually any on-premises or edge location for a truly consistent hybrid experience. AWS Outposts allows you to extend and run native AWS services on premises, and is available in a variety of form factors, from 1U and 2U Outposts servers to 42U Outposts racks, and multiple rack deployments. With AWS Outposts, you can run some AWS services locally and connect to a broad range of services available in the local AWS Region. Run applications and workloads on premises using familiar AWS services, tools, and APIs<sup>2</sup>. AWS Outposts is the only AWS service that supports a hybrid architecture that gives users the ability to extend AWS infrastructure, AWS services, APIs, and tools to data centers, co-location environments, or on-premises facilities. References: On-Premises Infrastructure - AWS Outposts Family

**NEW QUESTION 121**

- (Topic 3)

Which task can only an AWS account root user perform?

- A. Changing the AWS Support plan
- B. Deleting AWS resources
- C. Creating an Amazon EC2 instance key pair
- D. Configuring AWS WAF

**Answer:** A

**Explanation:**

The AWS account root user is the email address that you use to sign up for AWS. The root user has complete access to all AWS services and resources in the account. The root user can perform tasks that only the root user can do, such as changing the AWS Support plan, closing the account, and restoring IAM user permissions<sup>34</sup>

**NEW QUESTION 126**

- (Topic 3)

A company wants to migrate its workloads to AWS, but it lacks expertise in AWS Cloud computing. Which AWS service or feature will help the company with its migration?

- A. AWS Trusted Advisor
- B. AWS Consulting Partners
- C. AWS Artifacts
- D. AWS Managed Services

**Answer:** D

**Explanation:**

AWS Managed Services is a service that provides operational management for AWS infrastructure and applications. It helps users migrate their workloads to AWS and provides ongoing support, security, compliance, and automation. AWS Trusted Advisor is a service that provides best practices and recommendations for cost optimization, performance, security, and fault tolerance. AWS Consulting Partners are professional services firms that help customers design, architect, build, migrate, and manage their workloads and applications on AWS. AWS Artifacts is a service that provides on-demand access to AWS compliance reports and select online agreements.

**NEW QUESTION 127**

- (Topic 3)

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

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

**Answer:** B

**Explanation:**

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

**NEW QUESTION 132**

- (Topic 3)

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

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

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

**Answer:** C

**Explanation:**

The additional benefit that the company will receive with AWS Enterprise Support is C. A designated technical account manager (TAM) to assist in monitoring and optimization.

A TAM is a dedicated point of contact who works with the customer to understand their use cases, applications, and goals, and provides proactive guidance and best practices to help them optimize their AWS environment. A TAM also helps the customer with case management, escalations, service updates, and feature requests<sup>12</sup>.

A full set of AWS Trusted Advisor checks is available for customers with Business, Enterprise On-Ramp, or Enterprise Support plans<sup>1</sup>. Phone, email, and chat access to cloud support engineers 24/7 is available for customers with Business, Enterprise On-Ramp, or Enterprise Support plans<sup>1</sup>. A consultative review and architecture guidance for the company's applications is available for customers with Enterprise On-Ramp or Enterprise Support plans<sup>1</sup>. Therefore, these benefits are not exclusive to AWS Enterprise Support.

Reference:

1: AWS Support Plan Comparison | Developer, Business, Enterprise ...

**NEW QUESTION 136**

- (Topic 2)

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

- A. Patch management
- B. Cost optimization
- C. Business technology strategy
- D. Physical and environmental controls

**Answer:** B

**Explanation:**

The AWS Well-Architected Framework helps you understand the pros and cons of decisions you make while building systems on AWS. By using the Framework, you will learn architectural best practices for designing and operating reliable, secure, efficient, and cost-effective systems in the cloud. The Framework consists of five pillars: operational excellence, security, reliability, performance efficiency, and cost optimization<sup>2</sup>.

**NEW QUESTION 138**

- (Topic 2)

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

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

**Answer:** BC

**Explanation:**

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

**NEW QUESTION 141**

- (Topic 2)

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

Which AWS feature or purchasing option will meet these requirements?

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

**Answer:** B

**Explanation:**

Consolidated billing is an AWS feature that allows users to combine the usage and costs of multiple AWS accounts into a single bill. This enables users to obtain billing discounts that are based on the company's use of AWS services, such as volume pricing tiers, Reserved Instance discounts, and Savings Plans discounts<sup>5</sup>. Resource tagging is an AWS feature that allows users to assign metadata to AWS resources, such as EC2 instances, S3 buckets, and Lambda functions. This enables users to organize, track, and manage their AWS resources, such as filtering, grouping, and reporting. Pay-as-you-go pricing is an AWS pricing model that allows users to pay only for the resources and services they use, without any upfront or long-term commitments. This enables users to lower their costs by scaling up or down as needed, and avoiding over-provisioning or under-utilization. Spot Instances are spare EC2 instances that are available at up to 90% discount compared to On-Demand prices. They are suitable for workloads that can tolerate interruptions, such as batch processing, data analysis, and testing. Spot Instances are allocated based on the current supply and demand, and can be reclaimed by AWS with a two-minute notice when the demand exceeds the supply.

**NEW QUESTION 144**

- (Topic 2)

A company does not want to rely on elaborate forecasting to determine its usage of compute resources. Instead, the company wants to pay only for the resources that it uses. The company also needs the ability to increase or decrease its resource usage to meet business requirements.

Which pillar of the AWS Well-Architected Framework aligns with these requirements?

- A. Operational excellence
- B. Security
- C. Reliability
- D. Cost optimization

**Answer:** D

**Explanation:**

Cost optimization is the pillar of the AWS Well-Architected Framework that aligns with the requirements of not relying on elaborate forecasting and paying only for the resources that are used. The cost optimization pillar focuses on the ability of a system to deliver business value at the lowest price point. Cost optimization involves using the right AWS services and resources for the workload, measuring and monitoring the cost and usage, and continuously improving the cost efficiency. Cost optimization also leverages the benefits of the AWS Cloud, such as pay-as-you-go pricing, elasticity, and scalability. For more information, see [Cost Optimization Pillar] and [Cost Optimization].

**NEW QUESTION 146**

- (Topic 2)

A company wants to use Amazon EC2 instances to run a stateless and restartable process after business hours. Which AWS service provides DNS resolution?

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

**Answer:** C

**Explanation:**

Amazon Route 53 is the AWS service that provides DNS resolution. DNS (Domain Name System) is a service that translates domain names into IP addresses. Amazon Route 53 is a highly available and scalable cloud DNS service that offers domain name registration, DNS routing, and health checking. Amazon Route 53 can route the traffic to various AWS services, such as Amazon EC2, Amazon S3, and Amazon CloudFront. Amazon Route 53 can also integrate with other AWS services, such as AWS Certificate Manager, AWS Shield, and AWS WAF. For more information, see [What is Amazon Route 53?] and [Amazon Route 53 Features].

**NEW QUESTION 147**

- (Topic 2)

Which of the following is entirely the responsibility of AWS, according to the AWS shared responsibility model?

- A. Security awareness and training
- B. Development of an IAM password policy
- C. Patching of the guest operating system
- D. Physical and environmental controls

**Answer:** D

**Explanation:**

Physical and environmental controls are entirely the responsibility of AWS, according to the AWS shared responsibility model. The AWS shared responsibility model defines the division of responsibilities between AWS and the customer for security and compliance. AWS is responsible for the security of the cloud, which includes the physical and environmental controls of the AWS global infrastructure, such as power, cooling, fire suppression, and physical access. The customer is responsible for the security in the cloud, which includes the configuration and management of the AWS resources and applications. For more information, see [AWS Shared Responsibility Model] and [AWS Cloud Security].

**NEW QUESTION 151**

- (Topic 2)

Which credential allows programmatic access to AWS resources for use from the AWS CLI or the AWS API?

- A. User name and password
- B. Access keys
- C. SSH public keys
- D. AWS Key Management Service (AWS KMS) keys

**Answer:** B

**Explanation:**

Access keys are long-term credentials that consist of an access key ID and a secret access key. You use access keys to sign programmatic requests that you make to AWS using the AWS CLI or AWS API<sup>1</sup>. User name and password are credentials that you use to sign in to the AWS Management Console or the AWS Management Console mobile app<sup>2</sup>. SSH public keys are credentials that you use to authenticate with EC2 instances that are launched from certain Linux AMIs<sup>3</sup>. AWS Key Management Service (AWS KMS) keys are customer master keys (CMKs) that you use to encrypt and decrypt your data and to control access to your data across AWS services and in your applications<sup>4</sup>.

**NEW QUESTION 153**

- (Topic 2)

An application runs on multiple Amazon EC2 instances that access a shared file system simultaneously. Which AWS storage service should be used?

- A. Amazon EBS
- B. Amazon EFS
- C. Amazon S3
- D. AWS Artifact

**Answer:** B

**Explanation:**

Amazon Elastic File System (Amazon EFS) is the AWS storage service that should be used for an application that runs on multiple Amazon EC2 instances that access a shared file system simultaneously. Amazon EFS is a fully managed service that provides a scalable, elastic, and highly available file system for Linux-based workloads. Amazon EFS supports the Network File System version 4 (NFSv4) protocol and allows multiple EC2 instances to read and write data to the same file system concurrently. Amazon EFS also integrates with other AWS services, such as AWS Backup, AWS CloudFormation, and AWS CloudTrail. For more information, see What is Amazon Elastic File System? and [Amazon EFS Use Cases].

**NEW QUESTION 156**

- (Topic 2)

A user is moving a workload from a local data center to an architecture that is distributed between the local data center and the AWS Cloud. Which type of migration is this?

- A. On-premises to cloud native



- B. Hybrid to cloud native
- C. On-premises to hybrid
- D. Cloud native to hybrid

**Answer:** C

**Explanation:**

C is correct because moving a workload from a local data center to an architecture that is distributed between the local data center and the AWS Cloud is an example of an on-premises to hybrid migration. A hybrid cloud is a cloud computing environment that uses a mix of on-premises, private cloud, and public cloud services with orchestration between the platforms. A is incorrect because on-premises to cloud native migration is the process of moving a workload from a local data center to an architecture that is fully hosted and managed on the AWS Cloud. B is incorrect because hybrid to cloud native migration is the process of moving a workload from an architecture that is distributed between the local data center and the AWS Cloud to an architecture that is fully hosted and managed on the AWS Cloud. D is incorrect because cloud native to hybrid migration is the process of moving a workload from an architecture that is fully hosted and managed on the AWS Cloud to an architecture that is distributed between the local data center and the AWS Cloud.

**NEW QUESTION 157**

- (Topic 2)

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

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

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

**Answer:** D

**Explanation:**

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

**NEW QUESTION 162**

- (Topic 2)

A company is planning a migration to the AWS Cloud and wants to examine the costs that are associated with different workloads.

Which AWS tool will meet these requirements?

- A. AWS Budgets
- B. AWS Cost Explorer
- C. AWS Pricing Calculator
- D. AWS Cost and Usage Report

**Answer:** C

**Explanation:**

The AWS tool that will meet the requirements of the company that is planning a migration to the AWS Cloud and wants to examine the costs that are associated with different workloads is AWS Pricing Calculator. AWS Pricing Calculator is a tool that helps customers estimate the cost of using AWS services based on their requirements and preferences. The company can use AWS Pricing Calculator to compare the costs of different AWS services and configurations, such as Amazon EC2, Amazon S3, Amazon RDS, and more. AWS Pricing Calculator also provides detailed breakdowns of the cost components, such as compute, storage, network, and data transfer. AWS Pricing Calculator helps customers plan and optimize their cloud budget and migration strategy. AWS Budgets, AWS Cost Explorer, and AWS Cost and Usage Report are not the best tools to use for this purpose. AWS Budgets is a tool that helps customers monitor and manage their AWS spending and usage against predefined budget limits and thresholds. AWS Cost Explorer is a tool that helps customers analyze and visualize their AWS spending and usage trends over time. AWS Cost and Usage Report is a tool that helps customers access comprehensive and granular information about their AWS costs and usage in a CSV or Parquet file. These tools are more useful for tracking and optimizing the existing AWS costs and usage, rather than estimating the costs of different workloads34

**NEW QUESTION 164**

- (Topic 2)

A company has developed a distributed application that recovers gracefully from interruptions. The application periodically processes large volumes of data by using multiple Amazon EC2 instances. The application is sometimes idle for months.

Which EC2 instance purchasing option is MOST cost-effective for this use case?

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

**Answer:** B

**Explanation:**

Spot Instances are instances that use spare EC2 capacity that is available for up to 90% off the On-Demand price. Because Spot Instances can be interrupted by EC2 with two minutes of notification when EC2 needs the capacity back, you can use them for applications that have flexible start and end times, or that can withstand interruptions5. This option is most cost-effective for the use case described in the question. Reserved Instances are instances that you purchase for a one-year or three-year term, and pay a lower hourly rate compared to On-Demand Instances. This option is suitable for applications that have steady state or predictable usage. Dedicated Instances are instances that run on hardware that's dedicated to a single customer within an Amazon VPC. This option is suitable for applications that have stringent regulatory or compliance requirements. On-Demand Instances are instances that you pay for by the second, with no long-term



commitments or upfront payments. This option is suitable for applications that have unpredictable or intermittent workloads.

#### NEW QUESTION 167

- (Topic 2)

A company wants guidance to optimize the cost and performance of its current AWS environment. Which AWS service or tool should the company use to identify areas for optimization?

- A. Amazon QuickSight
- B. AWS Trusted Advisor
- C. AWS Organizations
- D. AWS Budgets

**Answer: B**

#### Explanation:

AWS Trusted Advisor is the AWS service or tool that the company should use to identify areas for optimization. According to the AWS Trusted Advisor User Guide, "AWS Trusted Advisor is an online tool that provides you real time guidance to help you provision your resources following AWS best practices. AWS Trusted Advisor checks help optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits." Amazon QuickSight, AWS Organizations, and AWS Budgets are not designed to provide optimization recommendations for the current AWS environment.

#### NEW QUESTION 168

- (Topic 2)

Which group shares responsibility with AWS for security and compliance of AWS accounts and resources?

- A. Third-party vendors
- B. Customers
- C. Reseller partners
- D. Internet providers

**Answer: B**

#### Explanation:

Customers share responsibility with AWS for security and compliance of AWS accounts and resources. This is part of the AWS shared responsibility model, which defines the division of responsibilities between AWS and the customer for security and compliance. AWS is responsible for the security of the cloud, which includes the physical and environmental controls of the AWS global infrastructure, such as power, cooling, fire suppression, and physical access. The customer is responsible for the security in the cloud, which includes the configuration and management of the AWS resources and applications, such as identity and access management, encryption, firewall, and backup.

For more information, see AWS Shared Responsibility Model and AWS Cloud Security.

#### NEW QUESTION 170

- (Topic 2)

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

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

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

**Answer: B**

#### Explanation:

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

#### NEW QUESTION 173

- (Topic 2)

Which perspective of the AWS Cloud Adoption Framework (AWS CAF) connects technology and business?

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

**Answer: D**

#### Explanation:

The perspective of the AWS Cloud Adoption Framework (AWS CAF) that connects technology and business is governance. The governance perspective focuses on the alignment of the IT strategy and processes with the business strategy and goals, as well as the management of the IT budget, risk, and compliance. The governance perspective capabilities are portfolio management, business performance management, and IT governance. The governance perspective helps organizations ensure that their cloud adoption delivers the expected business value and outcomes, and that their cloud solutions are secure, reliable, and compliant. Operations, people, and security are other perspectives of the AWS CAF, but they do not directly connect technology and business. The operations perspective focuses on the management and monitoring of the cloud resources and applications, as well as the automation and optimization of the operational processes. The people perspective focuses on the development and empowerment of the human resources, as well as the transformation of the organizational culture and structure. The security perspective focuses on the protection of the information assets and systems in the cloud, as well as the implementation of the security policies and controls.

#### NEW QUESTION 178

- (Topic 2)

Which statements explain the business value of migration to the AWS Cloud? (Select TWO.)

- A. The migration of enterprise applications to the AWS Cloud makes these applications automatically available on mobile devices.S
- B. AWS availability and security provide the ability to improve service level agreements (SLAs) while reducing risk and unplanned downtime.
- C. Companies that migrate to the AWS Cloud eliminate the need to plan for high availability and disaster recovery.
- D. Companies that migrate to the AWS Cloud reduce IT costs related to infrastructure, freeing budget for reinvestment in other areas.
- E. Applications are modernized because migration to the AWS Cloud requires companies to rearchitect and rewrite all enterprise applications.

**Answer:** BD

#### Explanation:

B and D are correct because AWS availability and security enable customers to improve their SLAs while reducing risk and unplanned downtime<sup>1</sup>, and AWS reduces IT costs related to infrastructure, allowing customers to reinvest in other areas<sup>2</sup>. A is incorrect because migrating to the AWS Cloud does not automatically make applications available on mobile devices, as it depends on the application design and compatibility. C is incorrect because companies that migrate to the AWS Cloud still need to plan for high availability and disaster recovery, as AWS is a shared responsibility model<sup>3</sup>. E is incorrect because migrating to the AWS Cloud does not require companies to rearchitect and rewrite all enterprise applications, as AWS offers different migration strategies depending on the application complexity and business objectives<sup>4</sup>.

#### NEW QUESTION 180

- (Topic 2)

What is a characteristic of Convertible Reserved Instances (RIs)?

- A. Users can exchange Convertible RIs for other Convertible RIs from a different instance family.
- B. Users can exchange Convertible RIs for other Convertible RIs in different AWS Regions.
- C. Users can sell and buy Convertible RIs on the AWS Marketplace.
- D. Users can shorten the term of their Convertible RIs by merging them with other Convertible RIs.

**Answer:** A

#### Explanation:

Convertible Reserved Instances (RIs) are a type of Reserved Instance that allow you to change the attributes of the RI as long as the exchange results in the creation of Reserved Instances of equal or greater value. You can exchange Convertible RIs for other Convertible RIs from a different instance family, size, platform, tenancy, or scope (Region or Availability Zone)<sup>3</sup>.

#### NEW QUESTION 185

- (Topic 2)

A company has an AWS-hosted website located behind an Application Load Balancer. The company wants to safeguard the website from SQL injection or cross-site scripting.

Which AWS service should the company use?

- A. Amazon GuardDuty
- B. AWS WAF
- C. AWS Trusted Advisor
- D. Amazon Inspector

**Answer:** B

#### Explanation:

The company should use AWS WAF to safeguard the website from SQL injection or cross-site scripting. AWS WAF is a web application firewall that helps protect web applications from common web exploits that could affect availability, compromise security, or consume excessive resources. The company can use AWS WAF to create custom rules that block malicious requests that match certain patterns, such as SQL injection or cross-site scripting. AWS WAF can be applied to web applications that are behind an Application Load Balancer, Amazon CloudFront, or Amazon API Gateway. Amazon GuardDuty, AWS Trusted Advisor, and Amazon Inspector are not the best services to use for this purpose. Amazon GuardDuty is a threat detection service that monitors for malicious activity and unauthorized behavior across the AWS accounts and resources. AWS Trusted Advisor is a service that provides best practice recommendations for cost optimization, performance, security, and fault tolerance. Amazon Inspector is a service that assesses the security and compliance of applications running on Amazon EC2 instances<sup>12</sup>.

#### NEW QUESTION 187

- (Topic 2)

A company is hosting a web application on Amazon EC2 instances. The company wants to implement custom conditions to filter and control inbound web traffic. Which AWS service will meet these requirements?

- A. Amazon GuardDuty
- B. AWS WAF
- C. Amazon Macie
- D. AWS Shield

**Answer:** B

#### Explanation:

The AWS service that will meet the requirements of the company that is hosting a web application on Amazon EC2 instances and wants to implement custom conditions to filter and control inbound web traffic is AWS WAF. AWS WAF is a web application firewall that helps protect web applications from common web exploits that could affect availability, compromise security, or consume excessive resources. The company can use AWS WAF to create custom rules that block malicious requests that match certain patterns, such as SQL injection or cross-site scripting. AWS WAF can be applied to web applications that are behind an Application Load Balancer, Amazon CloudFront, or Amazon API Gateway. Amazon GuardDuty, Amazon Macie, and AWS Shield are not the best services to use for this purpose. Amazon GuardDuty is a threat detection service that monitors for malicious activity and unauthorized behavior across the AWS accounts and resources. Amazon Macie is a data security and data privacy service that uses machine learning and pattern matching to discover, classify, and protect sensitive

data stored in Amazon S3. AWS Shield is a managed distributed denial of service (DDoS) protection service that safeguards web applications running on AWS. These services are more useful for detecting and preventing different types of threats and attacks, rather than filtering and controlling inbound web traffic based on custom conditions.

#### NEW QUESTION 192

- (Topic 2)

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

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

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

**Answer:** AB

#### Explanation:

AWS Config and service control policies (SCPs) are AWS services or features that the company can use to create and define controls (guardrails) in a newly created AWS Control Tower landing zone. AWS Config is a service that enables users to assess, audit, and evaluate the configurations of their AWS resources. It can be used to create rules that check for compliance with the desired configurations and report any deviations. AWS Control Tower provides a set of predefined AWS Config rules that can be enabled as guardrails to enforce compliance across the landing zone<sup>1</sup>. Service control policies (SCPs) are a type of policy that can be used to manage permissions in AWS Organizations. They can be used to restrict the actions that the users and roles in the member accounts can perform on the AWS resources. AWS Control Tower provides a set of predefined SCPs that can be enabled as guardrails to prevent access to certain services or regions across the landing zone<sup>2</sup>. Amazon GuardDuty is a service that provides intelligent threat detection and continuous monitoring for AWS accounts and resources. It is not a feature that can be used to create and define controls (guardrails) in a landing zone. AWS Identity and Access Management (IAM) is a service that allows users to manage access to AWS resources and services. It can be used to create users, groups, roles, and policies that control who can do what in AWS. It is not a feature that can be used to create and define controls (guardrails) in a landing zone. Security groups are virtual firewalls that control the inbound and outbound traffic for Amazon EC2 instances. They can be used to allow or deny access to an EC2 instance based on the port, protocol, and source or destination. They are not a feature that can be used to create and define controls (guardrails) in a landing zone.

#### NEW QUESTION 193

- (Topic 2)

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

- A. AWS Config
- B. AWS software development kits (SDKs)
- C. AWS Service Catalog
- D. AWS AppSync

**Answer:** C

#### Explanation:

AWS Service Catalog is a service that allows you to create and manage catalogs of IT services that are approved for use on AWS. You can use AWS Service Catalog to centrally manage commonly deployed IT services and help your organization achieve consistent governance and meet your compliance requirements, while enabling users to quickly deploy only the approved IT services they need<sup>1</sup>. AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. AWS software development kits (SDKs) are tools that enable you to easily integrate your applications with AWS services using your preferred programming language. AWS AppSync is a service that simplifies application development by letting you create a flexible API to securely access, manipulate, and combine data from one or more data sources. None of these services can help you limit your employees' AWS access to a portfolio of predefined AWS resources.

#### NEW QUESTION 198

- (Topic 2)

A company is running an application that is hosted on Amazon EC2 instances. The usage of the EC2 instances is higher during daytime hours than nighttime hours. The company wants to optimize the number of EC2 instances based on this usage pattern.

Which AWS service or instance purchasing option should the company use to meet these requirements?

- A. Spot Instances
- B. Reserved Instances
- C. AWS CloudFormation
- D. AWS Auto Scaling

**Answer:** D

#### Explanation:

AWS Auto Scaling is the AWS service that allows users to optimize the number of EC2 instances based on the usage pattern, as it automatically adjusts the capacity to maintain steady and predictable performance at the lowest possible cost. Spot Instances are a way to reduce the cost of EC2 instances by bidding on unused EC2 capacity, but they are not suitable for applications that require steady and reliable performance. Reserved Instances are a way to reduce the cost of EC2 instances by committing to a certain amount of usage for a period of time, but they are not flexible to adjust to the usage pattern. AWS CloudFormation is a way to automate the creation and management of AWS resources, but it does not optimize the number of EC2 instances based on the usage pattern. These concepts are explained in the AWS Cloud Practitioner Essentials course<sup>3</sup>.

#### NEW QUESTION 199

- (Topic 2)

Which AWS service or tool offers consolidated billing?

- A. AWS Artifact
- B. AWS Budgets
- C. AWS Organizations

D. AWS Trusted Advisor A company wants to limit its employees' AWS access to a portfolio of predefined AWS resources.

**Answer:** C

**Explanation:**

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

**NEW QUESTION 202**

- (Topic 2)

Which benefit of the AWS Cloud helps companies achieve lower usage costs because of the aggregate usage of all AWS users?

- A. No need to guess capacity
- B. Ability to go global in minutes
- C. Economies of scale
- D. Increased speed and agility

**Answer:** C

**Explanation:**

The benefit of the AWS Cloud that helps companies achieve lower usage costs because of the aggregate usage of all AWS users is economies of scale. Economies of scale means that AWS can achieve lower costs and higher efficiency by operating at a massive scale and passing the savings to the customers. AWS leverages the aggregate usage of all AWS users to negotiate better prices with hardware vendors, optimize power consumption, and improve operational processes. As a result, AWS can offer lower and more flexible pricing options to the customers, such as pay-as-you-go, reserved, and spot pricing models. No need to guess capacity, ability to go global in minutes, and increased speed and agility are other benefits of the AWS Cloud, but they are not directly related to the aggregate usage of all AWS users. No need to guess capacity means that AWS customers can avoid the risk of over-provisioning or under-provisioning resources, and scale up or down as needed. Ability to go global in minutes means that AWS customers can deploy their applications and data in multiple regions around the world, and deliver them to users with high performance and availability. Increased speed and agility means that AWS customers can quickly and easily provision and access AWS resources, and accelerate their innovation and time to market.

**NEW QUESTION 204**

- (Topic 2)

A company suspects that its AWS resources are being used for illegal activities. Which AWS group or team should the company notify?

- A. AWS Abuse team
- B. AWS Support team
- C. AWS technical account managers
- D. AWS Professional Services team

**Answer:** A

**Explanation:**

AWS Abuse team is the AWS group or team that the company should notify if it suspects that its AWS resources are being used for illegal activities. AWS Abuse team is a dedicated team that handles reports of abuse, such as spam, phishing, malware, denial-of-service attacks, and unauthorized access, involving AWS resources. The company can contact the AWS Abuse team by filling out the [Report Abuse of AWS Resources form] or sending an email to [abuse@amazonaws.com](mailto:abuse@amazonaws.com). The company should provide as much information as possible, such as the source and destination IP addresses, timestamps, log files, and screenshots, to help the AWS Abuse team investigate and take appropriate actions. For more information, see [Reporting Abuse] and [AWS Acceptable Use Policy].

**NEW QUESTION 207**

- (Topic 2)

A company is using Amazon RDS.

A company is launching a critical business application in an AWS Region. How can the company increase resilience for this application?

- A. Deploy a copy of the application in another AWS account.
- B. Deploy the application by using multiple VPCs.
- C. Deploy the application by using multiple subnets.
- D. Deploy the application by using multiple Availability Zones.

**Answer:** D

**Explanation:**

Deploying the application by using multiple Availability Zones is the best way to increase resilience for the application. According to the Amazon RDS User Guide, "Amazon RDS provides high availability and failover support for DB instances using Multi-AZ deployments. In a Multi-AZ deployment, Amazon RDS automatically provisions and maintains a synchronous standby replica in a different Availability Zone. The primary DB instance is synchronously replicated across Availability Zones to a standby replica to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups."4 Deploying a copy of the application in another AWS account, using multiple VPCs, or using multiple subnets do not provide the same level of resilience as using multiple Availability Zones.

**NEW QUESTION 211**

- (Topic 2)

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

What should the company do to meet this requirement?

- A. Change the S3 storage class to S3 Intelligent-Tiering.



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

**Answer:** B

**Explanation:**

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

**NEW QUESTION 214**

- (Topic 2)

A company wants to create a chatbot and integrate the chatbot with its current web application. Which AWS service will meet these requirements?

- A. AmazonKendra
- B. Amazon Lex
- C. AmazonTextract
- D. AmazonPolly

**Answer:** B

**Explanation:**

The AWS service that will meet the requirements of the company that wants to create a chatbot and integrate the chatbot with its current web application is Amazon Lex. Amazon Lex is a service that helps customers build conversational interfaces using voice and text. The company can use Amazon Lex to create a chatbot that can understand natural language and respond to user requests, using the same deep learning technologies that power Amazon Alexa. Amazon Lex also provides easy integration with other AWS services, such as Amazon Comprehend, Amazon Polly, and AWS Lambda, as well as popular platforms, such as Facebook Messenger, Slack, and Twilio. Amazon Lex helps customers create engaging and interactive chatbots for their web applications. Amazon Kendra, Amazon Textract, and Amazon Polly are not the best services to use for this purpose. Amazon Kendra is a service that helps customers provide accurate and natural answers to natural language queries using machine learning. Amazon Textract is a service that helps customers extract text and data from scanned documents using optical character recognition (OCR) and machine learning. Amazon Polly is a service that helps customers convert text into lifelike speech using deep learning. These services are more useful for different types of natural language processing and generation tasks, rather than creating and integrating chatbots.

**NEW QUESTION 215**

- (Topic 2)

A company manages factory machines in real time. The company wants to use AWS technology to deploy its monitoring applications as close to the factory machines as possible. Which AWS solution will meet these requirements with the LEAST latency?

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 216**

- (Topic 2)

A company is collecting user behavior patterns to identify how to meet goals for sustainability impact. Which guidelines are best practices for the company to implement to meet these goals? (Select TWO.)

- A. Scale infrastructure with user load.
- B. Maximize the geographic distance between workloads and user locations.
- C. Eliminate creation and maintenance of unused assets.
- D. Scale resources with excess capacity and remove auto scaling.
- E. Scale infrastructure based on the number of users.

**Answer:** AC

**Explanation:**

To meet the goals for sustainability impact, the company should follow the best practices of scaling infrastructure with user load and eliminating creation and maintenance of unused assets. Scaling infrastructure with user load means adjusting the capacity of the infrastructure to match the demand of the users, which can reduce the energy consumption and carbon footprint of the system. Eliminating creation and maintenance of unused assets means avoiding the waste of resources and money on assets that are not needed or used, which can also improve the environmental and economic efficiency of the system3.

**NEW QUESTION 218**

- (Topic 2)

A company wants to develop a shopping application that records customer orders. The application needs to use an AWS managed database service to store data. Which AWS service should the company use to meet these requirements?

- A. Amazon RDS
- B. Amazon Redshift
- C. Amazon ElastiCache



D. Amazon Neptune

**Answer:** A

**Explanation:**

A is correct because Amazon RDS is the AWS service that provides a managed relational database service that supports various database engines, such as MySQL, PostgreSQL, Oracle, and SQL Server. B is incorrect because Amazon Redshift is the AWS service that provides a managed data warehouse service that is optimized for analytical queries. C is incorrect because Amazon ElastiCache is the AWS service that provides a managed in-memory data store service that supports Redis and Memcached. D is incorrect because Amazon Neptune is the AWS service that provides a managed graph database service that supports property graph and RDF models.

**NEW QUESTION 220**

- (Topic 2)

What does "security of the cloud" refer to in the AWS shared responsibility model?

- A. Availability of AWS services such as Amazon EC2
- B. Security of the cloud infrastructure that runs all the AWS services
- C. Implementation of password policies for IAM users
- D. Security of customer environments by using AWS Network Firewall partners

**Answer:** B

**Explanation:**

Security of the cloud refers to the security of the cloud infrastructure that runs all the AWS services. This includes the hardware, software, networking, and facilities that AWS operates and manages. AWS is responsible for protecting the security of the cloud as part of the AWS shared responsibility model. Availability of AWS services such as Amazon EC2 refers to the ability of the services to be up and running and to meet the expected performance. Availability is part of the reliability pillar of the AWS Well-Architected Framework and is a shared responsibility between AWS and the customer. Implementation of password policies for IAM users refers to the security of the customer data and applications in the cloud. This includes the configuration and management of IAM user permissions, encryption keys, security group rules, network ACLs, and other aspects of access management. The customer is responsible for protecting the security in the cloud as part of the AWS shared responsibility model. Security of customer environments by using AWS Network Firewall partners refers to the security of the customer data and applications in the cloud. AWS Network Firewall is a managed service that provides network protection for Amazon VPCs. It allows customers to use AWS Marketplace partners to implement firewall rules and policies. The customer is responsible for protecting the security in the cloud as part of the AWS shared responsibility model.

**NEW QUESTION 222**

- (Topic 2)

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

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

**Answer:** CD

**Explanation:**

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

**NEW QUESTION 224**

- (Topic 2)

A company wants to access a report about the estimated environmental impact of the company's AWS usage. Which AWS service or feature should the company use to meet this requirement?

- A. AWS Organizations
- B. IAM policy
- C. AWS Billing console
- D. Amazon Simple Notification Service (Amazon SNS)

**Answer:** C

**Explanation:**

The company should use the AWS Billing console to access a report about the estimated environmental impact of the company's AWS usage. The AWS Billing console provides customers with various tools and reports to manage and monitor their AWS costs and usage. One of the reports available in the AWS Billing console is the AWS Sustainability Dashboard, which shows the estimated carbon footprint and energy mix of the customer's AWS usage. The company can use this dashboard to measure and improve the sustainability of their cloud workloads. AWS Organizations, IAM policy, and Amazon Simple Notification Service (Amazon SNS) are not services or features that can provide a report about the estimated environmental impact of the company's AWS usage. AWS Organizations is a service that enables customers to centrally manage and govern their AWS accounts. IAM policy is a document that defines the permissions for an IAM identity (user, group, or role) or an AWS resource. Amazon SNS is a fully managed pub/sub messaging service that enables customers to send messages to subscribers.

or other AWS services.

#### NEW QUESTION 225

- (Topic 1)

Which AWS service or tool does AWS Control Tower use to create resources?

- A. AWS CloudFormation
- B. AWS Trusted Advisor
- C. AWS Directory Service
- D. AWS Cost Explorer

**Answer:** A

#### Explanation:

AWS Control Tower uses AWS CloudFormation to create resources in your landing zone. AWS CloudFormation is a service that helps you model and set up your AWS resources using templates. AWS Control Tower supports creating `AWS::ControlTower::EnabledControl` resources in AWS CloudFormation. Therefore, the correct answer is A. You can learn more about AWS Control Tower and AWS CloudFormation from this page.

#### NEW QUESTION 230

- (Topic 1)

Which AWS features will meet these requirements? (Select TWO.)

- A. Security groups
- B. Network ACLs
- C. S3 bucket policies
- D. IAM user policies
- E. S3 bucket versioning

**Answer:** CD

#### Explanation:

The correct answers are C and D because S3 bucket policies and IAM user policies are AWS features that will meet the requirements. S3 bucket policies are access policies that can be attached to Amazon S3 buckets to grant or deny permissions to the bucket and the objects it contains. S3 bucket policies can be used to control who has permission to read, write, or delete objects that the company stores in the S3 bucket. IAM user policies are access policies that can be attached to IAM users to grant or deny permissions to AWS resources and actions. IAM user policies can be used to control who has permission to read, write, or delete objects that the company stores in the S3 bucket. The other options are incorrect because they are not AWS features that will meet the requirements. Security groups and network ACLs are AWS features that act as firewalls to control inbound and outbound traffic to and from Amazon EC2 instances and subnets. Security groups and network ACLs do not control who has permission to read, write, or delete objects that the company stores in the S3 bucket. S3 bucket versioning is an AWS feature that enables users to keep multiple versions of the same object in the same bucket. S3 bucket versioning can be used to recover from accidental overwrites or deletions of objects, but it does not control who has permission to read, write, or delete objects that the company stores in the S3 bucket. Reference: Using Bucket Policies and User Policies, Security Groups for Your VPC, Network ACLs, [Using Versioning]

#### NEW QUESTION 233

- (Topic 1)

A company uses Amazon Aurora as its database service. The company wants to encrypt its databases and database backups.

Which party manages the encryption of the database clusters and database snapshots, according to the AWS shared responsibility model?

- A. AWS
- B. The company
- C. AWS Marketplace partners
- D. Third-party partners

**Answer:** A

#### Explanation:

AWS manages the encryption of the database clusters and database snapshots for Amazon Aurora, as well as the encryption keys. This is part of the AWS shared responsibility model, where AWS is responsible for the security of the cloud, and the customer is responsible for the security in the cloud. Encryption is one of the security features that AWS provides to protect the data at rest and in transit. For more information, see Amazon Aurora FAQs and AWS Shared Responsibility Model.

#### NEW QUESTION 238

- (Topic 1)

A company needs to run its existing custom, nonproduction workloads in the AWS Cloud quickly and cost-effectively.

The workloads can recover from interruptions easily. Which pricing model should the company use?

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

**Answer:** C

#### Explanation:

The correct answer is C because Spot Instances are the pricing model that enables the company to run its existing custom, nonproduction workloads in the AWS Cloud quickly and cost-effectively. Spot Instances are spare Amazon EC2 instances that are available at up to 90% discount compared to On-Demand prices. Spot Instances are suitable for stateless, fault-tolerant, and flexible workloads that can recover from interruptions easily. The other options are incorrect because they are not the pricing model that enables the company to run its existing custom, nonproduction workloads in the AWS Cloud quickly and cost-effectively. Reserved Instances are Amazon EC2 instances that are reserved for a specific period of time (one or three years) in exchange for a lower hourly rate. Reserved Instances

are suitable for steady-state or predictable workloads that run for a long duration. On-Demand Instances are Amazon EC2 instances that are launched and billed at a fixed hourly rate. On-Demand Instances are suitable for short-term, irregular, or unpredictable workloads that cannot be interrupted. Dedicated Hosts are physical servers that are dedicated to a single customer. Dedicated Hosts are suitable for workloads that require regulatory compliance or data isolation. Reference: Amazon EC2 Instance Purchasing Options

#### NEW QUESTION 243

- (Topic 1)

Which of the following is available to a company that has an AWS Business Support plan?

- A. AWS Support concierge
- B. AWS DDoS Response Team (DRT)
- C. AWS technical account manager (TAM)
- D. AWS Health API

**Answer:** D

#### Explanation:

AWS Health API is available to a company that has an AWS Business Support plan. The AWS Health API provides programmatic access to the AWS Health information that is presented in the AWS Personal Health Dashboard. The AWS Health API can help users get timely and personalized information about events that can affect the availability and performance of their AWS resources, such as scheduled maintenance, network issues, or service disruptions. The AWS Health API can also integrate with other AWS services, such as Amazon CloudWatch Events and AWS Lambda, to enable automated actions and notifications. AWS Health API OverviewAWS Support Plans

#### NEW QUESTION 246

- (Topic 1)

A company has an online shopping website and wants to store customers' credit card data. The company must meet Payment Card Industry (PCI) standards. Which service can the company use to access AWS compliance documentation?

- A. Amazon Cloud Directory
- B. AWS Artifact
- C. AWS Trusted Advisor
- D. Amazon Inspector

**Answer:** B

#### Explanation:

The correct answer is B because AWS Artifact is a service that provides access to AWS compliance documentation, such as audit reports, security certifications, and agreements. AWS Artifact allows customers to download, review, and accept the documents that are relevant to their use of AWS services. The other options are incorrect because they are not services that provide access to AWS compliance documentation. Amazon Cloud Directory is a service that enables customers to create flexible cloud-native directories for organizing hierarchies of data. AWS Trusted Advisor is a service that provides real-time guidance to help customers follow AWS best practices for security, performance, cost optimization, and fault tolerance. Amazon Inspector is a service that helps customers find security vulnerabilities and deviations from best practices in their Amazon EC2 instances. Reference: [AWS Artifact FAQs]

#### NEW QUESTION 250

- (Topic 1)

A company needs to store data across multiple Availability Zones in an AWS Region. The data will not be accessed regularly but must be immediately retrievable.

Which Amazon Elastic File System (Amazon EFS) storage class meets these requirements MOST cost effectively?

- A. EFS Standard
- B. EFS Standard-Infrequent Access(EFS Standard-IA)
- C. EFS One Zone
- D. EFS One Zone-Infrequent Access (EFS One Zone-IA)

**Answer:** B

#### Explanation:

EFS Standard-Infrequent Access (EFS Standard-IA) is the storage class that meets the requirements of storing data across multiple Availability Zones in an AWS Region, that will not be accessed regularly but must be immediately retrievable, most cost- effectively. EFS Standard-IA is designed for files that are accessed less frequently, but still require the same high performance, low latency, and high availability as EFS Standard. EFS Standard-IA has a lower storage cost than EFS Standard, but charges a small additional fee for each access. EFS One Zone and EFS One Zone-IA store data in a single Availability Zone, which reduces the availability and durability compared to EFS Standard and EFS Standard-IA.

#### NEW QUESTION 251

- (Topic 1)

A company hosts an application on an Amazon EC2 instance. The EC2 instance needs to access several AWS resources, including Amazon S3 and Amazon DynamoDB.

What is the MOST operationally efficient solution to delegate permissions?

- A. Create an IAM role with the required permission
- B. Attach the role to the EC2 instance.
- C. Create an IAM user and use its access key and secret access key in the application.
- D. Create an IAM user and use its access key and secret access key to create a CLI profile in the EC2 instance.
- E. Create an IAM role with the required permission
- F. Attach the role to the administrativeIAM user.

**Answer:** A

#### Explanation:

Creating an IAM role with the required permissions and attaching the role to the EC2 instance is the most operationally efficient solution to delegate permissions. An IAM role is an entity that defines a set of permissions for making AWS service requests. An IAM role can be assumed by an EC2 instance to access other AWS resources, such as Amazon S3 and Amazon DynamoDB, without having to store any credentials on the instance. This solution is more secure and scalable than using IAM users and their access keys. For more information, see [IAM Roles for Amazon EC2] and [Using an IAM Role to Grant Permissions to Applications Running on Amazon EC2 Instances].

#### NEW QUESTION 252

- (Topic 1)

Which AWS service or feature is used to send both text and email messages from distributed applications?

- A. Amazon Simple Notification Service (Amazon SNS)
- B. Amazon Simple Email Service (Amazon SES)
- C. Amazon CloudWatch alerts
- D. Amazon Simple Queue Service (Amazon SQS)

**Answer:** A

#### Explanation:

Amazon Simple Notification Service (Amazon SNS) is the AWS service or feature that is used to send both text and email messages from distributed applications. Amazon SNS is a fully managed pub/sub messaging service that enables the user to send messages to multiple subscribers or endpoints, such as email addresses, phone numbers, HTTP endpoints, AWS Lambda functions, and more. Amazon SNS can be used to send notifications, alerts, confirmations, and reminders from applications to users or other applications4.

#### NEW QUESTION 255

- (Topic 1)

A company needs to run code in response to an event notification that occurs when objects are uploaded to an Amazon S3 bucket.

Which AWS service will integrate directly with the event notification?

- A. AWS Lambda
- B. Amazon EC2
- C. Amazon Elastic Container Registry (Amazon ECR)
- D. AWS Elastic Beanstalk

**Answer:** A

#### Explanation:

AWS Lambda is a service that lets you run code without provisioning or managing servers. You can use Lambda to process event notifications from Amazon S3 when objects are uploaded or deleted. Lambda integrates directly with the event notification and invokes your code automatically. Therefore, the correct answer is A.

#### NEW QUESTION 259

- (Topic 1)

Which AWS Well-Architected Framework concept represents a system's ability to remain functional when the system encounters operational problems?

- A. Consistency
- B. Elasticity
- C. Durability
- D. Latency

**Answer:** B

#### Explanation:

The AWS Well-Architected Framework is a set of best practices and guidelines for designing and operating systems in the cloud. The framework consists of five pillars: operational excellence, security, reliability, performance efficiency, and cost optimization. The concept of elasticity represents a system's ability to adapt to changes in demand by scaling resources up or down automatically. Therefore, the correct answer is B. You can learn more about the AWS Well-Architected Framework and its pillars from this page.

#### NEW QUESTION 262

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