



**Amazon**

## **Exam Questions AWS-Certified-Cloud-Practitioner**

Amazon AWS Certified Cloud Practitioner

#### NEW QUESTION 1

- (Topic 2)

A company migrated its core application onto multiple workloads in the AWS Cloud. The company wants to improve the application's reliability. Which cloud design principle should the company implement to achieve this goal?

- A. Maximize utilization.
- B. Decouple the components.
- C. Rightsize the resources.
- D. Adopt a consumption model.

**Answer: B**

#### Explanation:

Decoupling the components of an application means reducing the dependencies and interactions between them, which can improve the application's reliability, scalability, and performance. Decoupling can be achieved by using services such as Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), and AWS Lambda.

#### NEW QUESTION 2

- (Topic 2)

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

- A. Configure AWS Identity and Access Management (IAM).
- B. Configure security groups on Amazon EC2 instances.
- C. Secure the access of physical AWS facilities.
- D. Patch applications that run on Amazon EC2 instances.
- E. Perform infrastructure patching and maintenance.

**Answer: CE**

#### Explanation:

The tasks that are the responsibility of AWS according to the AWS shared responsibility model are securing the access of physical AWS facilities and performing infrastructure patching and maintenance. 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 security of the hardware, software, networking, and facilities that run the AWS services. AWS is also responsible for the maintenance and patching of the infrastructure that supports the AWS services. The customer is responsible for the security in the cloud, which includes the configuration and management of the AWS resources and applications that they use. Configuring AWS Identity and Access Management (IAM), configuring security groups on Amazon EC2 instances, and patching applications that run on Amazon EC2 instances are tasks that are the responsibility of the customer, not AWS.

#### NEW QUESTION 3

- (Topic 2)

A company wants to migrate its Microsoft SQL Server database management system from on premises to the AWS Cloud. Which AWS service should the company use to reduce management overhead for this environment?

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

**Answer: C**

#### Explanation:

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

#### NEW QUESTION 4

- (Topic 2)

A company is preparing to launch a redesigned website on AWS. Users from around the world will download digital handbooks from the website. Which AWS solution should the company use to provide these static files securely?

- A. Amazon Kinesis Data Streams
- B. Amazon CloudFront with Amazon S3
- C. Amazon EC2 instances with an Application Load Balancer
- D. Amazon Elastic File System (Amazon EFS)

**Answer: B**

#### Explanation:

Amazon CloudFront with Amazon S3 is a solution that allows you to provide static files securely to users from around the world. 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. Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance. You can use Amazon S3 to store and retrieve any amount of data from anywhere. You can also configure Amazon S3 to work with Amazon CloudFront to distribute your content to edge locations near your users for faster delivery and lower latency. Amazon Kinesis Data Streams is a service that enables you to build custom applications that process or analyze streaming data for specialized needs. This option is not relevant for providing static files securely. Amazon EC2 instances with an Application Load Balancer is a solution that allows you to distribute incoming traffic across multiple targets, such as EC2 instances, in multiple Availability Zones. This option is suitable for dynamic web applications, but not necessary for static files. Amazon Elastic File System (Amazon EFS) is a service

that provides a simple, scalable, fully managed elastic NFS file system for use with AWS Cloud services and on-premises resources. This option is not relevant for providing static files securely.

#### NEW QUESTION 5

- (Topic 2)

A company wants an in-memory data store that is compatible with open source in the cloud. Which AWS service should the company use?

- A. Amazon DynamoDB
- B. Amazon ElastiCache
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon Redshift

**Answer:** B

#### Explanation:

Amazon ElastiCache is a fully managed in-memory data store service that is compatible with open source engines such as Redis and Memcached<sup>1</sup>. It provides fast and scalable performance for applications that require high throughput and low latency<sup>1</sup>. Amazon DynamoDB is a fully managed NoSQL database service that provides consistent and single-digit millisecond latency at any scale<sup>2</sup>. Amazon EBS is a block storage service that provides persistent and durable storage volumes for Amazon EC2 instances<sup>3</sup>. Amazon Redshift is a fully managed data warehouse service that allows users to run complex analytic queries using SQL<sup>4</sup>.

#### NEW QUESTION 6

- (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 7

- (Topic 1)

Which of the following is an AWS value proposition that describes a user's ability to scale infrastructure based on demand?

- A. Speed of innovation
- B. Resource elasticity
- C. Decoupled architecture
- D. Global deployment

**Answer:** B

#### Explanation:

Resource elasticity is an AWS value proposition that describes a user's ability to scale infrastructure based on demand. Resource elasticity means that the user can provision or deprovision resources quickly and easily, without any upfront commitment or long-term contract. Resource elasticity can help the user optimize the cost and performance of the application, as well as respond to changing business needs and customer expectations. Resource elasticity can be achieved by using services such as Amazon EC2, Amazon S3, Amazon RDS, Amazon DynamoDB, Amazon ECS, and AWS Lambda. [AWS Cloud Value Framework] AWS Certified Cloud Practitioner - [aws.amazon.com](https://aws.amazon.com)

#### NEW QUESTION 8

- (Topic 1)

A company recently migrated to the AWS Cloud. The company needs to determine whether its newly imported Amazon EC2 instances are the appropriate size and type.

Which AWS services can provide this information to the company? (Select TWO.)

- A. AWS Auto Scaling
- B. AWS Control Tower
- C. AWS Trusted Advisor
- D. AWS Compute Optimizer
- E. Amazon Forecast

**Answer:** CD

#### Explanation:

AWS Trusted Advisor and AWS Compute Optimizer are the AWS services that can provide information to the company about whether its newly imported Amazon EC2 instances are the appropriate size and type. AWS Trusted Advisor is an online tool that provides best practices recommendations in five categories: cost optimization, performance, security, fault tolerance, and service limits. AWS Trusted Advisor can help users identify underutilized or idle EC2 instances, and suggest ways to reduce costs and improve performance. AWS Compute Optimizer is a service that analyzes the configuration and utilization metrics of EC2 instances and delivers recommendations for optimal instance types, sizes, and configurations. AWS Compute Optimizer helps users improve performance, reduce costs, and eliminate underutilized resources

#### NEW QUESTION 9

- (Topic 1)

A company wants to establish a security layer in its VPC that will act as a firewall to control subnet traffic. Which AWS service or feature will meet this requirement?

- A. Routing tables
- B. Network access control lists (network ACLs)
- C. Security groups
- D. Amazon GuardDuty

**Answer: C**

**Explanation:**

Security groups are the service or feature that meets the requirement of establishing a security layer in a VPC that will act as a firewall to control subnet traffic. Security groups are stateful firewalls that control the inbound and outbound traffic at the instance level. You can assign one or more security groups to each instance in a VPC, and specify the rules that allow or deny traffic based on the protocol, port, and source or destination. Security groups are associated with network interfaces, and therefore apply to all the instances in the subnets that use those network interfaces. Routing tables are used to direct traffic between subnets and gateways, not to filter traffic. Network ACLs are stateless firewalls that control the inbound and outbound traffic at the subnet level, but they are less granular and more cumbersome to manage than security groups. Amazon GuardDuty is a threat detection service that monitors your AWS account and workloads for malicious or unauthorized activity, not a firewall service.

**NEW QUESTION 10**

- (Topic 1)

A cloud engineer needs to download AWS security and compliance documents for an upcoming audit. Which AWS service can provide the documents?

- A. AWS Trusted Advisor
- B. AWS Artifact
- C. AWS Well-Architected Tool
- D. AWS Systems Manager

**Answer: B**

**Explanation:**

AWS Artifact is the AWS service that can provide security and compliance documents for an upcoming audit. AWS Artifact is a self-service portal that allows users to access and download AWS compliance reports and agreements. These documents provide evidence of AWS's compliance with global, regional, and industry-specific security standards and regulations

**NEW QUESTION 10**

- (Topic 1)

Which AWS service or tool provides users with the ability to monitor AWS service quotas?

- A. AWS CloudTrail
- B. AWS Cost and Usage Reports
- C. AWS Trusted Advisor
- D. AWS Budgets

**Answer: C**

**Explanation:**

The correct answer is C because AWS Trusted Advisor is an AWS service or tool that provides users with the ability to monitor AWS service quotas. AWS Trusted Advisor is an online tool that provides users with real-time guidance to help them provision their resources following AWS best practices. One of the categories of checks that AWS Trusted Advisor performs is service limits, which monitors the usage of each AWS service and alerts users when they are close to reaching the default limit. The other options are incorrect because they are not AWS services or tools that provide users with the ability to monitor AWS service quotas. AWS CloudTrail is a service that enables users to track user activity and API usage across their AWS account. AWS Cost and Usage Reports is a tool that enables users to access comprehensive information about their AWS costs and usage. AWS Budgets is a tool that enables users to plan their service usage, costs, and reservations. Reference: [AWS Trusted Advisor FAQs]

**NEW QUESTION 11**

- (Topic 1)

Which design principle is achieved by following the reliability pillar of the AWS Well-Architected Framework?

- A. Vertical scaling
- B. Manual failure recovery
- C. Testing recovery procedures
- D. Changing infrastructure manually

**Answer: C**

**Explanation:**

Testing recovery procedures is the design principle that is achieved by following the reliability pillar of the AWS Well-Architected Framework. The reliability pillar focuses on the ability of a system to recover from failures and prevent disruptions. Testing recovery procedures helps to ensure that the system can handle different failure scenarios and restore normal operations as quickly as possible. Testing recovery procedures also helps to identify and mitigate any risks or gaps in the system design and implementation. For more information, see [Reliability Pillar] and [Testing for Reliability].

**NEW QUESTION 13**

- (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 administrative IAM 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 15**

- (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 20**

- (Topic 1)

A company needs to identify the last time that a specific user accessed the AWS Management Console. Which AWS service will provide this information?

- A. Amazon Cognito
- B. AWS CloudTrail
- C. Amazon Inspector
- D. Amazon GuardDuty

**Answer:** B

**Explanation:**

AWS CloudTrail is the service that will provide the information about the last time that a specific user accessed the AWS Management Console. AWS CloudTrail is a service that records the API calls and events made by or on behalf of your AWS account. You can use AWS CloudTrail to view, search, and download the history of AWS console sign-in events, which include the user name, date, time, source IP address, and other details of the sign-in activity. Amazon Cognito, Amazon Inspector, and Amazon GuardDuty are not services that will provide this information. Amazon Cognito is a service that provides user authentication and authorization for web and mobile applications. Amazon Inspector is a service that assesses the security and compliance of your applications running on AWS. Amazon GuardDuty is a service that monitors your AWS account and workloads for malicious or unauthorized activity.

**NEW QUESTION 25**

- (Topic 1)

What are the characteristics of Availability Zones? (Select TWO.)

- A. All Availability Zones in an AWS Region are interconnected with high-bandwidth, low-latency networking
- B. Availability Zones are physically separated by a minimum of distance of 150 km (100 miles).
- C. All traffic between Availability Zones is encrypted.
- D. Availability Zones within an AWS Region share redundant power, networking, and connectivity.
- E. Every Availability Zone contains a single data center.

**Answer:** AD

**Explanation:**

Availability Zones are physically separate locations within an AWS Region that are engineered to be isolated from failures. Each Availability Zone has independent power, cooling, and physical security, and is connected to other Availability Zones in the same Region by a low-latency network. Therefore, the correct answers are A and D. You can learn more about Availability Zones and their characteristics from this page.

**NEW QUESTION 26**

- (Topic 1)

A company has two AWS accounts in an organization in AWS Organizations for consolidated billing. All of the company's AWS resources are hosted in one AWS Region.

Account A has purchased five Amazon EC2 Standard Reserved Instances (RIs) and has four EC2 instances running. Account B has not purchased any RIs and also has four EC2 instances running. Which statement is true regarding pricing for these eight instances?

- A. The eight instances will be charged as regular instances.
- B. Four instances will be charged as RIs, and four will be charged as regular instances.

- C. Five instances will be charged as RIs, and three will be charged as regular instances.
- D. The eight instances will be charged as RIs.

**Answer:** B

**Explanation:**

The statement that is true regarding pricing for these eight instances is: four instances will be charged as RIs, and four will be charged as regular instances. Amazon EC2 Reserved Instances (RIs) are a pricing model that allows users to reserve EC2 instances for a specific term and benefit from discounted hourly rates and capacity reservation. RIs are purchased for a specific AWS Region, and can be shared across multiple accounts in an organization in AWS Organizations for consolidated billing. However, RIs are applied on a first-come, first-served basis, and there is no guarantee that all instances in the organization will be charged at the RI rate. In this case, Account A has purchased five RIs and has four instances running, so all four instances will be charged at the RI rate. Account B has not purchased any RIs and also has four instances running, so all four instances will be charged at the regular rate. The remaining RI in Account A will not be applied to any instance in Account B, and will be wasted.

**NEW QUESTION 28**

- (Topic 1)

A company needs to use dashboards and charts to analyze insights from business data. Which AWS service will provide the dashboards and charts for these insights?

- A. Amazon Macie
- B. Amazon Aurora
- C. Amazon QuickSight
- D. AWS CloudTrail

**Answer:** C

**Explanation:**

The correct answer is C because Amazon QuickSight is an AWS service that will provide the dashboards and charts for the insights from business data. Amazon QuickSight is a fully managed, scalable, and serverless business intelligence service that enables users to create and share interactive dashboards and charts. Amazon QuickSight can connect to various data sources, such as Amazon S3, Amazon RDS, Amazon Redshift, and more. Amazon QuickSight also provides users with machine learning insights, such as anomaly detection, forecasting, and natural language narratives. The other options are incorrect because they are not AWS services that will provide the dashboards and charts for the insights from business data. Amazon Macie is an AWS service that helps users discover, classify, and protect sensitive data stored in Amazon S3. Amazon Aurora is an AWS service that provides a relational database that is compatible with MySQL and PostgreSQL. AWS CloudTrail is an AWS service that enables users to track user activity and API usage across their AWS account. Reference: Amazon QuickSight FAQs

**NEW QUESTION 33**

- (Topic 1)

An ecommerce company has migrated its IT infrastructure from an on-premises data center to the AWS Cloud. Which AWS service is used to track, record, and audit configuration changes made to AWS resources?

- A. AWS Shield
- B. AWS Config
- C. AWS IAM
- D. Amazon Inspector

**Answer:** B

**Explanation:**

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. AWS Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. With AWS Config, you can review changes in configurations and relationships between AWS resources, dive into detailed resource configuration histories, and determine your overall compliance against the configurations specified in your internal guidelines.

**NEW QUESTION 38**

- (Topic 1)

Which AWS database service provides in-memory data storage?

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

**Answer:** B

**Explanation:**

The correct answer is B because Amazon ElastiCache is a service that provides in-memory data storage. Amazon ElastiCache is a fully managed, scalable, and high-performance service that supports two popular open-source in-memory engines: Redis and Memcached. Amazon ElastiCache allows users to store and retrieve data from fast, low-latency, and high-throughput in-memory systems. Users can use Amazon ElastiCache to improve the performance of their applications by caching frequently accessed data, reducing database load, and enabling real-time data processing. The other options are incorrect because they are not services that provide in-memory data storage. Amazon DynamoDB is a service that provides key-value and document data storage. Amazon RDS is a service that provides relational data storage. Amazon Timestream is a service that provides time series data storage. Reference: Amazon ElastiCache FAQs

**NEW QUESTION 39**

- (Topic 1)

Which of the following is a recommended design principle of the AWS Well-Architected Framework?

- A. Reduce downtime by making infrastructure changes infrequently and in large increments.

- B. Invest the time to configure infrastructure manually.
- C. Learn to improve from operational failures.
- D. Use monolithic application design for centralization.

**Answer:** C

**Explanation:**

The correct answer is C because learning to improve from operational failures is a recommended design principle of the AWS Well-Architected Framework. The AWS Well-Architected Framework is a set of best practices and guidelines for designing and operating reliable, secure, efficient, and cost-effective systems in the cloud. The AWS Well-Architected Framework consists of five pillars: operational excellence, security, reliability, performance efficiency, and cost optimization. Each pillar has a set of design principles that describe the characteristics of a well-architected system. Learning to improve from operational failures is a design principle of the operational excellence pillar, which focuses on running and monitoring systems to deliver business value and continually improve supporting processes and procedures. The other options are incorrect because they are not recommended design principles of the AWS Well-Architected Framework. Reducing downtime by making infrastructure changes infrequently and in large increments is not a design principle of the AWS Well-Architected Framework, but rather a source of risk and inefficiency. A well-architected system should implement changes frequently and in small increments to minimize the impact and scope of failures. Investing the time to configure infrastructure manually is not a design principle of the AWS Well-Architected Framework, but rather a source of human error and inconsistency. A well-architected system should automate manual tasks to improve the speed and accuracy of operations. Using monolithic application design for centralization is not a design principle of the AWS Well-Architected Framework, but rather a source of complexity and rigidity. A well-architected system should use loosely coupled and distributed components to enable scalability and resilience. Reference: [AWS Well-Architected Framework]

**NEW QUESTION 43**

- (Topic 1)

Which task is a customer's responsibility, according to the AWS shared responsibility model?

- A. Management of the guest operating systems
  - B. Maintenance of the configuration of infrastructure devices
  - C. Management of the host operating systems and virtualization
  - D. Maintenance of the software that powers Availability Zones
- A company has refined its workload to use specific AWS services to improve efficiency and reduce cost.

**Answer:** A

**Explanation:**

Management of the guest operating systems is a customer's responsibility, according to the AWS shared responsibility model. The AWS shared responsibility model defines the different security and compliance responsibilities of AWS and the customer. AWS is responsible for the security of the cloud, which includes the physical infrastructure, hardware, software, and facilities that run the AWS Cloud. The customer is responsible for security in the cloud, which includes the configuration and management of the guest operating systems, applications, data, and network traffic protection

**NEW QUESTION 44**

- (Topic 1)

A company is migrating an application that includes an Oracle database to AWS. The company cannot rewrite the application. To which AWS service could the company migrate the database?

- A. Amazon Athena
- B. Amazon DynamoDB
- C. Amazon RDS
- D. Amazon DocumentDB (with MongoDB compatibility)

**Answer:** C

**Explanation:**

Amazon Relational Database Service (Amazon RDS) is a service that provides fully managed relational database engines. Amazon RDS supports several database engines, including Oracle, MySQL, PostgreSQL, MariaDB, SQL Server, and Amazon Aurora. Amazon RDS can be used to migrate an application that includes an Oracle database to AWS without rewriting the application, as long as the application is compatible with the Oracle version and edition supported by Amazon RDS. Amazon RDS can also provide benefits such as high availability, scalability, security, backup and restore, and performance optimization. [Amazon RDS Overview] AWS Certified Cloud Practitioner - aws.amazon.com

**NEW QUESTION 46**

- (Topic 1)

Which AWS service should a cloud practitioner use to receive real-time guidance for provisioning resources, based on AWS best practices related to security, cost optimization, and service limits?

- A. AWS Trusted Advisor
- B. AWS Config
- C. AWS Security Hub
- D. AWS Systems Manager

**Answer:** A

**Explanation:**

AWS Trusted Advisor is the AWS service that provides real-time guidance for provisioning resources, based on AWS best practices related to security, cost optimization, and service limits. AWS Trusted Advisor inspects the user's AWS environment and provides recommendations for improving performance, security, and reliability, reducing costs, and following best practices. AWS Trusted Advisor also alerts the user when they are approaching or exceeding their service limits, and helps them request limit increases.

**NEW QUESTION 48**

- (Topic 1)

Which AWS service provides the ability to host a NoSQL database in the AWS Cloud?

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

**Answer:** B

**Explanation:**

Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. It supports both key-value and document data models, and allows you to create tables that can store and retrieve any amount of data, and serve any level of request traffic. You can also use DynamoDB Streams to capture data modification events in DynamoDB tables.

**NEW QUESTION 51**

- (Topic 1)

A company deploys its application to multiple AWS Regions and configures automatic failover between those Regions. Which cloud concept does this architecture represent?

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

**Answer:** B

**Explanation:**

Reliability is the cloud concept that this architecture represents. Reliability is the ability of a system to recover from infrastructure or service disruptions, dynamically acquire computing resources to meet demand, and mitigate disruptions such as misconfigurations or transient network issues. Deploying an application to multiple AWS Regions and configuring automatic failover between those Regions enhances the reliability of the application by reducing the impact of regional failures and increasing the availability of the application.

**NEW QUESTION 55**

- (Topic 1)

Which statements represent the cost-effectiveness of the AWS Cloud? (Select TWO.)

- A. Users can trade fixed expenses for variable expenses.
- B. Users can deploy all over the world in minutes.
- C. AWS offers increased speed and agility.
- D. AWS is responsible for patching the infrastructure.
- E. Users benefit from economies of scale.

**Answer:** AE

**Explanation:**

The statements that represent the cost-effectiveness of the AWS Cloud are:

? Users can trade fixed expenses for variable expenses. By using the AWS Cloud, users can pay only for the resources they use, instead of investing in fixed and upfront costs for hardware and software. This can lower the total cost of ownership and increase the return on investment.

? Users benefit from economies of scale. By using the AWS Cloud, users can leverage the massive scale and efficiency of AWS to access lower prices and higher performance. AWS passes the cost savings to the users through price reductions and innovations. AWS Cloud Value Framework

**NEW QUESTION 60**

- (Topic 3)

Which AWS service or tool helps users visualize, understand, and manage spending and usage over time?

- A. AWS Organizations
- B. AWS Pricing Calculator
- C. AWS Cost Explorer
- D. AWS Service Catalog

**Answer:** C

**Explanation:**

AWS Cost Explorer is the AWS service or tool that helps users visualize, understand, and manage spending and usage over time. AWS Cost Explorer is a web-based interface that allows users to access interactive graphs and tables that display their AWS costs and usage data. Users can create custom reports that analyze cost and usage data by various dimensions, such as service, region, account, tag, and more. Users can also view historical data for up to the last 12 months, forecast future costs for up to the next 12 months, and get recommendations for cost optimization. AWS Cost Explorer also provides preconfigured views that show common cost and usage scenarios, such as monthly spend by service, daily spend by linked account, and Reserved Instance utilization. Users can use AWS Cost Explorer to monitor their AWS spending and usage trends, identify cost drivers and anomalies, and optimize their resource allocation and budget planning. References: Cloud Cost Analysis - AWS Cost Explorer - AWS, Analyzing your costs with AWS Cost Explorer

**NEW QUESTION 62**

- (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: <sup>2</sup>: AWS Documentation - AWS Well-Architected Framework - Operational Excellence Pillar

**NEW QUESTION 65**

- (Topic 3)

Which AWS Cloud benefit describes the ability to acquire resources as they are needed and release resources when they are no longer needed?

- A. Economies of scale
- B. Elasticity
- C. Agility
- D. Security

**Answer: B**

**Explanation:**

The AWS Cloud benefit that describes the ability to acquire resources as they are needed and release resources when they are no longer needed is elasticity. Elasticity means that users can quickly add and remove resources to match the demand of their applications, and only pay for what they use. Elasticity enables users to handle unpredictable workloads, reduce costs, and improve performance<sup>1</sup>. Economies of scale, agility, and security are other benefits of the AWS Cloud, but they do not describe the specific ability of acquiring and releasing resources on demand.

**NEW QUESTION 70**

- (Topic 3)

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

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

**Answer: D**

**Explanation:**

AWS Outposts is a fully managed service that extends AWS infrastructure, services, APIs, and tools to customer premises. By providing local access to AWS managed infrastructure, AWS Outposts enables customers to build and run applications on premises using the same programming interfaces as in AWS Regions, while using local compute and storage resources for lower latency and local data processing needs. An Outpost is a pool of AWS compute and storage capacity deployed at a customer site. AWS operates, monitors, and manages this capacity as part of an AWS Region. You can create subnets on your Outpost and specify them when you create AWS resources such as EC2 instances, EBS volumes, ECS clusters, and RDS instances. Instances in Outpost subnets communicate with other instances in the AWS Region using private IP addresses, all within the same VPC. Outposts solutions allow you to extend and run native AWS services on premises, and is available in a variety of form factors, from 1U and 2U Outposts servers to 42U Outposts racks, and multiple rack deployments. With AWS Outposts, you can run some AWS services locally and connect to a broad range of services available in the local AWS Region<sup>2</sup>. AWS Outposts is a hybrid cloud deployment model that uses AWS Outposts as part of the application deployment infrastructure. Hybrid cloud is a cloud computing environment that uses a mix of on-premises, private cloud, and public cloud services with orchestration between the platforms. Hybrid cloud provides businesses with greater flexibility, more deployment options, and optimized costs. By using AWS Outposts, customers can benefit from the fully managed infrastructure, services, APIs, and tools of AWS on premises, while still having access to the full range of AWS services available in the Region for a truly consistent hybrid experience<sup>3</sup>. References: On-Premises Private Cloud - AWS Outposts Family - AWS, What is AWS Outposts? - AWS Outposts

**NEW QUESTION 72**

- (Topic 2)

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

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

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

**Answer: B**

**Explanation:**

Amazon EC2 On-Demand Instances are instances that you pay for by the second, with no long-term commitments or upfront payments<sup>4</sup>. This option is suitable for applications that have unpredictable or intermittent workloads, such as the one described in the question. Amazon EC2 Standard Reserved Instances are instances that you purchase for a one-year or three-year term, and pay a lower hourly rate compared to On-Demand Instances. This option is suitable for applications that have steady state or predictable usage. AWS Wavelength is a service that enables developers to build applications that deliver ultra-low latency to mobile devices and users by deploying AWS compute and storage at the edge of the 5G network. This option is not relevant for the application described in the question. Application Load Balancer is a type of load balancer that operates at the application layer and distributes traffic based on the content of the request. This option is not a service or feature to host the application, but rather to balance the traffic among multiple instances.

**NEW QUESTION 75**

- (Topic 2)

A company wants to securely store Amazon RDS database credentials and automatically rotate user passwords periodically. Which AWS service or capability will meet these requirements?

- A. Amazon S3
- B. AWS Systems Manager Parameter Store

- C. AWS Secrets Manager
- D. AWS CloudTrail

**Answer:** C

**Explanation:**

AWS Secrets Manager is a service that helps you protect access to your applications, services, and IT resources. This service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle<sup>1</sup>. Amazon S3 is a storage service that does not offer automatic rotation of credentials. AWS Systems Manager Parameter Store is a service that provides secure, hierarchical storage for configuration data management and secrets management<sup>2</sup>, but it does not offer automatic rotation of credentials. AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account<sup>3</sup>, but it does not store or rotate credentials.

**NEW QUESTION 80**

- (Topic 2)

Which AWS service can a company use to securely store and encrypt passwords for a database?

- A. AWS Shield
- B. AWS Secrets Manager
- C. AWS Identity and Access Management (IAM)
- D. Amazon Cognito

**Answer:** B

**Explanation:**

AWS Secrets Manager is an AWS service that can be used to securely store and encrypt passwords for a database. It allows users to manage secrets, such as database credentials, API keys, and tokens, in a centralized and secure way. It also provides features such as automatic rotation, fine-grained access control, and auditing. AWS Shield is an AWS service that provides protection against Distributed Denial of Service (DDoS) attacks for AWS resources and services. It does not store or encrypt passwords for a database. AWS Identity and Access Management (IAM) is an AWS 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 does not store or encrypt passwords for a database. Amazon Cognito is an AWS service that provides user identity and data synchronization for web and mobile applications. It can be used to authenticate and authorize users, manage user profiles, and sync user data across devices. It does not store or encrypt passwords for a database.

**NEW QUESTION 81**

- (Topic 2)

Which AWS service is always available free of charge to users?

- A. Amazon Athena
  - B. AWS Identity and Access Management (IAM)
  - C. AWS Secrets Manager
  - D. Amazon ElastiCache
- A company has only basic knowledge of AWS technologies.

**Answer:** B

**Explanation:**

AWS Identity and Access Management (IAM) is a web 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 is always available free of charge to users<sup>4</sup>.

**NEW QUESTION 82**

- (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 84**

- (Topic 2)

A retail company has recently migrated its website to AWS. The company wants to ensure that it is protected from SQL injection attacks. The website uses an Application Load Balancer to distribute traffic to multiple Amazon EC2 instances.

Which AWS service or feature can be used to create a custom rule that blocks SQL injection attacks?

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

**Answer:** B

**Explanation:**

AWS WAF is a web application firewall that helps protect your web applications or APIs against common web exploits that may affect availability, compromise security, or consume excessive resources. AWS WAF gives you control over how traffic reaches your applications by enabling you to create security rules that block common attack patterns, such as SQL injection or cross-site scripting, and rules that filter out specific traffic patterns you define<sup>2</sup>. You can use AWS WAF to create a custom rule that blocks SQL injection attacks on your website.

**NEW QUESTION 86**

- (Topic 2)

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

(Select TWO.)

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

**Answer:** AB

**Explanation:**

Amazon CloudWatch and AWS CloudTrail are the AWS services that allow users to monitor and retain records of account activities that include governance, compliance, and auditing. Amazon CloudWatch is a service that collects and tracks metrics, collects and monitors log files, and sets alarms. AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. Amazon GuardDuty, AWS Shield, and AWS WAF are AWS services that provide security and protection for AWS resources, but they do not monitor and retain records of account activities. These concepts are explained in the AWS Cloud Practitioner Essentials course<sup>3</sup>.

**NEW QUESTION 87**

- (Topic 2)

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

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

**Answer:** B

**Explanation:**

The AWS service or tool that provides recommendations to help users get rightsized Amazon EC2 instances based on historical workload usage data is AWS Compute Optimizer. AWS Compute Optimizer is a service that analyzes the configuration and performance of the AWS resources, such as Amazon EC2 instances, and provides recommendations for optimal resource types and sizes based on the workload patterns and metrics. AWS Compute Optimizer helps users improve the performance, availability, and cost efficiency of their AWS resources. AWS Pricing Calculator, AWS App Runner, and AWS Systems Manager are not the best services or tools to use for this purpose. AWS Pricing Calculator is a tool that helps users estimate the cost of using AWS services based on their requirements and preferences. AWS App Runner is a service that helps users easily and quickly deploy web applications and APIs without managing any infrastructure. AWS Systems Manager is a service that helps users automate and manage the configuration and operation of their AWS resources and applications<sup>4</sup>.

**NEW QUESTION 92**

- (Topic 2)

A company is reviewing the design of an application that will be migrated from on premises to a single Amazon EC2 instance.

What should the company do to make the application highly available?

- A. Provision additional EC2 instances in other Availability Zones.
- B. Configure an Application Load Balancer (ALB). Assign the EC2 instance as the ALB's target.
- C. Use an Amazon Machine Image (AMI) to create the EC2 instance.
- D. Provision the application by using an EC2 Spot Instance.

**Answer:** A

**Explanation:**

Provisioning additional EC2 instances in other Availability Zones is a way to make the application highly available, as it reduces the impact of failures and increases fault tolerance. Configuring an Application Load Balancer and assigning the EC2 instance as the ALB's target is a way to distribute traffic among multiple instances, but it does not make the application highly available if there is only one instance. Using an Amazon Machine Image to create the EC2 instance is a way to launch a virtual server with a preconfigured operating system and software, but it does not make the application highly available by itself. Provisioning the application by using an EC2 Spot Instance is a way to use spare EC2 capacity at up to 90% off the On-Demand price, but it does not make the application highly available, as Spot Instances can be interrupted by EC2 with a two-minute notification.

**NEW QUESTION 93**

- (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 94**

- (Topic 2)

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

Which AWS service will provide this information?

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

**Answer: A**

**Explanation:**

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

**NEW QUESTION 95**

- (Topic 2)

A large company has multiple departments. Each department has its own AWS account. Each department has purchased Amazon EC2 Reserved Instances. Some departments do not use all the Reserved Instances that they purchased, and other departments need more Reserved Instances than they purchased. The company needs to manage the AWS accounts for all the departments so that the departments can share the Reserved Instances.

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

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

**Answer: D**

**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 apply service control policies (SCPs) across multiple AWS accounts to restrict what services and actions users and roles can access. You can also use AWS Organizations to enable features such as consolidated billing, AWS Config rules and conformance packs, and AWS CloudFormation StackSets across multiple accounts<sup>3</sup>. One of the benefits of using AWS Organizations is that you can share your Reserved Instances (RIs) with all of the accounts in your organization. This enables you to take advantage of the billing benefits of RIs without having to specify which account will use them<sup>4</sup>. AWS Systems Manager is a service that gives you visibility and control of your infrastructure on AWS. Cost Explorer is a tool that enables you to visualize, understand, and manage your AWS costs and usage over time. 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 can help you manage the AWS accounts for all the departments so that the departments can share the Reserved Instances.

**NEW QUESTION 97**

- (Topic 2)

Which benefit of AWS Cloud computing provides lower latency between users and applications?

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

**Answer: C**

**Explanation:**

Global reach is the benefit of AWS Cloud computing that provides lower latency between users and applications. Global reach 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. AWS has the largest global infrastructure of any cloud provider, with 25 geographic regions and 81 Availability Zones, as well as 216 Points of Presence in 84 cities across 42 countries. Customers can choose the optimal locations for their applications and data based on their business requirements, such as compliance, data sovereignty, and

customer proximity. Agility, economies of scale, and pay-as-you-go pricing are other benefits of AWS Cloud computing, but they do not directly provide lower latency between users and applications. Agility means that AWS customers can quickly and easily provision and scale up or down AWS resources as needed, without upfront costs or long-term commitments. Economies of scale means that AWS customers can benefit from the lower costs and higher efficiency that AWS achieves by operating at a massive scale and passing the savings to the customers. Pay-as-you-go pricing means that AWS customers only pay for the AWS resources they use, without any upfront costs or long-term contracts.

#### NEW QUESTION 101

- (Topic 2)

A company is running an order processing system on Amazon EC2 instances. The company wants to migrate microservices-based application. Which combination of AWS services can the application use to meet these requirements? (Select TWO.)

- A. Amazon Simple Queue Service (Amazon SQS)
- B. AWS Lambda
- C. AWS Migration Hub
- D. AWS AppSync
- E. AWS Application Migration Service

**Answer:** AB

#### Explanation:

The combination of AWS services that the application can use to migrate to a microservices-based application are Amazon Simple Queue Service (Amazon SQS) and AWS Lambda. Amazon SQS is a fully managed message queuing service that enables customers to decouple and scale microservices, distributed systems, and serverless applications. The application can use Amazon SQS to send, store, and receive messages between the microservices, ensuring that each message is processed only once and in the right order. AWS Lambda is a serverless compute service that allows customers to run code without provisioning or managing servers. The application can use AWS Lambda to create and deploy microservices as functions that are triggered by events, such as messages from Amazon SQS. AWS Migration Hub, AWS AppSync, and AWS Application Migration Service are not the best services to use for migrating to a microservices-based application. AWS Migration Hub is a service that provides a single location to track the progress of application migrations across multiple AWS and partner solutions. AWS AppSync is a service that simplifies the development of GraphQL APIs for real-time and offline data synchronization. AWS Application Migration Service is a service that enables customers to migrate their on-premises applications to AWS without making any changes to the applications, servers, or databases.

#### NEW QUESTION 103

- (Topic 2)

A new AWS user who has little cloud experience wants to build an application by using AWS services. The user wants to learn how to implement specific AWS services from other customer examples. The user also wants to ask questions to AWS experts. Which AWS service or resource will meet these requirements?

- A. AWS Online Tech Talks
- B. AWS documentation
- C. AWS Marketplace
- D. AWS Health Dashboard

**Answer:** A

#### Explanation:

AWS Online Tech Talks are online presentations that cover a broad range of topics at varying technical levels and provide a live Q&A session with AWS experts. They are a great resource for new AWS users who want to learn how to implement specific AWS services from other customer examples and ask questions to AWS experts. AWS documentation, AWS Marketplace, and AWS Health Dashboard do not offer the same level of interactivity and guidance as AWS Online Tech Talks. Source: AWS Online Tech Talks

#### NEW QUESTION 105

- (Topic 2)

Which of the following is the customer's responsibility, according to the AWS shared responsibility model?

- A. Identity and access management
- B. Hard drive initialization
- C. Protection of data center hardware
- D. Security of Availability Zones

**Answer:** A

#### Explanation:

Identity and access management is the customer's responsibility, according to the AWS shared responsibility model. This means that the customer is responsible for managing user access to the AWS resources, using tools such as AWS Identity and Access Management (IAM), AWS Single Sign-On (SSO), and AWS Organizations. The customer is also responsible for securing their data in transit and at rest, using encryption, key management, and other methods. Hard drive initialization, protection of data center hardware, and security of Availability Zones are AWS's responsibility, as they are part of the infrastructure, physical security, and network security that AWS provides to the customer<sup>12</sup>

#### NEW QUESTION 106

- (Topic 2)

A company provides a software as a service (SaaS) application. The company has a new customer that is based in a different country. The new customer's data needs to be hosted in that country. Which AWS service or infrastructure component should the company use to meet this requirement?

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 111**

- (Topic 2)

A company wants to create multiple isolated networks in the same AWS account. Which AWS service or component will provide this functionality?

- A. AWS Transit Gateway
- B. Internet gateway
- C. Amazon VPC
- D. Amazon EC2

**Answer:** C

**Explanation:**

Amazon Virtual Private Cloud (Amazon VPC) is the AWS service that allows customers to create multiple isolated networks in the same AWS account. A VPC is a logically isolated section of the AWS Cloud where customers can launch AWS resources in a virtual network that they define. Customers can create multiple VPCs within an AWS account, each with its own IP address range, subnets, route tables, security groups, network access control lists, gateways, and other components. AWS Transit Gateway, Internet gateway, and Amazon EC2 are not services or components that provide the functionality of creating multiple isolated networks in the same AWS account. AWS Transit Gateway is a service that enables customers to connect their Amazon VPCs and their on-premises networks to a single gateway. An Internet gateway is a component that enables communication between instances in a VPC and the Internet. Amazon EC2 is a service that provides scalable compute capacity in the cloud<sup>34</sup>

**NEW QUESTION 112**

- (Topic 2)

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

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

**Answer:** AD

**Explanation:**

Amazon RDS and Amazon EC2 are two AWS services that you can use to host and run a MySQL database. Amazon RDS is a service that makes it easy to set up, operate, and scale a relational database in the cloud. You can use Amazon RDS to launch a MySQL database instance and let Amazon RDS manage common database tasks such as backups, patching, scaling, and replication<sup>6</sup>. Amazon EC2 is a service that provides secure, resizable compute capacity in the cloud. You can use Amazon EC2 to launch a virtual server and install MySQL software on it. You have complete control over your database configuration, but you are responsible for managing and maintaining the database software and the underlying infrastructure<sup>7</sup>. Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance. Amazon MQ is a managed message broker service for Apache ActiveMQ. None of these services can help you host and run a MySQL database.

**NEW QUESTION 117**

- (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 122**

- (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 126**

- (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 127**

- (Topic 2)

Which AWS service is always free of charge for users?

- A. Amazon S3
- B. Amazon Aurora
- C. Amazon EC2
- D. AWS Identity and Access Management (IAM)

**Answer:** D

**Explanation:**

AWS Identity and Access Management (IAM) is a service that allows users to manage access to AWS resources and services. It enables users to create and manage users, groups, roles, and policies that control who can do what in AWS. IAM is always free of charge for users, as there is no additional cost for using IAM with any AWS service<sup>1</sup>. Amazon S3 is a storage service that provides scalable, durable, and secure object storage. Amazon S3 has a free tier that offers 5 GB of storage, 20,000 GET requests, and 2,000 PUT requests per month for one year. However, users are charged for any additional usage beyond the free tier limits<sup>2</sup>. Amazon Aurora is a relational database service that is compatible with MySQL and PostgreSQL. Amazon Aurora has a free tier that offers 750 hours of Aurora Single-AZ db.t2.small database usage and 20 GB of storage per month for one year. However, users are charged for any additional usage beyond the free tier limits<sup>3</sup>. Amazon EC2 is a compute service that provides resizable virtual servers. Amazon EC2 has a free tier that offers 750 hours of Linux and Windows t2.micro instances per month for one year. However, users are charged for any additional usage beyond the free tier limits<sup>4</sup>.

**NEW QUESTION 128**

- (Topic 1)

Which options does AWS make available for customers who want to learn about security in the cloud in an instructor-led setting? (Select TWO.)

- A. AWS Trusted Advisor
- B. AWS Online Tech Talks
- C. AWS Blog
- D. AWS Forums
- E. AWS Classroom Training

**Answer:** BE

**Explanation:**

The correct answers are B and E because AWS Online Tech Talks and AWS Classroom Training are options that AWS makes available for customers who want to learn about security in the cloud in an instructor-led setting. AWS Online Tech Talks are live, online presentations that cover a broad range of topics at varying technical levels. AWS Online Tech Talks are delivered by AWS experts and feature live Q&A sessions with the audience. AWS Classroom Training are in-person

or virtual courses that are led by accredited AWS instructors. AWS Classroom Training offer hands-on labs, exercises, and best practices to help customers gain confidence and skills on AWS. The other options are incorrect because they are not options that AWS makes available for customers who want to learn about security in the cloud in an instructor-led setting. AWS Trusted Advisor is an AWS service that provides real-time guidance to help customers follow AWS best practices for security, performance, cost optimization, and fault tolerance. AWS Blog is an AWS resource that provides news, announcements, and insights from AWS experts and customers. AWS Forums are AWS resources that enable customers to interact with other AWS users and get feedback and support. Reference: AWS Online Tech Talks, AWS Classroom Training

#### NEW QUESTION 132

- (Topic 1)

A company wants to track its AWS account's service costs. The company also wants to receive notifications when costs are forecasted to reach a specific level. Which AWS service or tool provides this functionality?

- A. AWS Budgets
- B. AWS Cost Explorer
- C. Savings Plans
- D. AWS Billing Conductor

**Answer:** A

#### Explanation:

AWS Budgets gives you the ability to set custom budgets that alert you when your costs or usage exceed (or are forecasted to exceed) your budgeted amount. You can also use AWS Budgets to set reservation utilization or coverage targets and receive alerts when your utilization drops below the threshold you define.

#### NEW QUESTION 133

- (Topic 1)

A security engineer wants a single-tenant AWS solution to create, control, and manage their own cryptographic keys to meet regulatory compliance requirements for data security.

Which AWS service should the engineer use?

- A. AWS Key Management Service (AWS KMS)
- B. AWS Certificate Manager (ACM)
- C. AWS CloudHSM
- D. AWS Systems Manager

**Answer:** C

#### Explanation:

The correct answer is C because AWS CloudHSM is an AWS service that enables the security engineer to meet the requirements. AWS CloudHSM is a service that provides customers with dedicated hardware security modules (HSMs) to create, control, and manage their own cryptographic keys in the AWS Cloud. AWS CloudHSM allows customers to meet strict regulatory compliance requirements for data security, such as FIPS 140-2 Level 3, PCI-DSS, and HIPAA. The other options are incorrect because they are not AWS services that enable the security engineer to meet the requirements. AWS Key Management Service (AWS KMS) is a service that provides customers with a fully managed, scalable, and integrated key management system to create and control encryption keys for AWS services and applications. AWS KMS does not provide customers with single-tenant or dedicated HSMs. AWS Certificate Manager (ACM) is a service that provides customers with a simple and secure way to provision, manage, and deploy public and private Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for use with AWS services and internal connected resources. ACM does not provide customers with HSMs or cryptographic keys. AWS Systems Manager is a service that provides customers with a unified user interface to view operational data from multiple AWS services and automate operational tasks across their AWS resources. AWS Systems Manager does not provide customers with HSMs or cryptographic keys. Reference: AWS CloudHSM FAQs

#### NEW QUESTION 138

- (Topic 1)

A company's information security manager is supervising a move to AWS and wants to ensure that AWS best practices are followed. The manager has concerns about the potential misuse of AWS account root user credentials.

Which of the following is an AWS best practice for using the AWS account root user credentials?

- A. Allow only the manager to use the account root user credentials for normal activities.
- B. Use the account root user credentials only for Amazon EC2 instances from the AWS Free Tier.
- C. Use the account root user credentials only when they alone must be used to perform a required function.
- D. Use the account root user credentials only for the creation of private VPC subnets.

**Answer:** C

#### Explanation:

The AWS best practice for using the AWS account root user credentials is to use them only when they alone must be used to perform a required function. The AWS account root user credentials have full access to all the resources in the account, and therefore pose a security risk if compromised or misused. You should create individual IAM users with the minimum necessary permissions for everyday tasks, and use AWS Organizations to manage multiple accounts. You should also enable multi-factor authentication (MFA) and rotate the password for the root user regularly. Some of the functions that require the root user credentials are changing the account name, closing the account, changing the support plan, and restoring an IAM user's access.

#### NEW QUESTION 141

- (Topic 1)

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

- A. Set up multi-factor authentication (MFA) for each Workspaces user account.
- B. Ensure the environmental safety and security of the AWS infrastructure that hosts Workspaces.
- C. Provide security for Workspaces user accounts through AWS Identity and Access Management (IAM).
- D. Configure AWS CloudTrail to log API calls and user activity.
- E. The company must control who has permission to read, write, or delete objects that the company stores in the S3 bucket.

**Answer:** B

**Explanation:**

The correct answer is B because ensuring the environmental safety and security of the AWS infrastructure that hosts Workspaces is the responsibility of AWS, according to the AWS shared responsibility model. The AWS shared responsibility model is a framework that 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 global infrastructure, such as the regions, availability zones, and edge locations; the hardware, software, networking, and facilities that run the AWS services; and the virtualization layer that separates the customer instances and storage. The customer is responsible for the security in the cloud, which includes the customer data, the guest operating systems, the applications, the identity and access management, the firewall configuration, and the encryption. The other options are incorrect because they are the responsibility of the customer, according to the AWS shared responsibility model. Setting up multi-factor authentication (MFA) for each Workspaces user account, providing security for Workspaces user accounts through AWS Identity and Access Management (IAM), configuring AWS CloudTrail to log API calls and user activity, and encrypting data at rest and in transit are all tasks that the customer has to perform to secure their Workspaces environment. Reference: AWS Shared Responsibility Model, Amazon WorkSpaces Security

**NEW QUESTION 143**

- (Topic 1)

A company wants to use a managed service to simplify the setup, operation, and scaling of its MySQL database in the AWS Cloud. Which AWS service will meet these requirements?

- A. Amazon EMR
- B. Amazon RDS
- C. Amazon Redshift
- D. Amazon DynamoDB

**Answer: B**

**Explanation:**

Amazon RDS is the AWS service that will meet the requirements of using a managed service to simplify the setup, operation, and scaling of a MySQL database in the AWS Cloud. Amazon RDS is a relational database service that supports MySQL and other popular database engines. Amazon RDS handles routine database tasks such as provisioning, patching, backup, recovery, and scaling. Amazon RDS also offers high availability, security, and compatibility features<sup>3</sup>

**NEW QUESTION 145**

- (Topic 1)

Which of the following are user authentication services managed by AWS? (Select TWO.)

- A. Amazon Cognito
- B. AWS Lambda
- C. AWS License Manager
- D. AWS Identity and Access Management (IAM)
- E. AWS CodeStar

**Answer: AD**

**Explanation:**

The user authentication services managed by AWS are: Amazon Cognito and AWS Identity and Access Management (IAM). These services help users securely manage and control access to their AWS resources and applications. Amazon Cognito is a service that provides user sign-up, sign-in, and access control for web and mobile applications. Amazon Cognito supports various identity providers, such as Facebook, Google, and Amazon, as well as custom user pools. AWS IAM is a service that enables users to create and manage users, groups, roles, and permissions for AWS services and resources. AWS IAM supports various authentication methods, such as passwords, access keys, and multi-factor authentication (MFA)

**NEW QUESTION 147**

- (Topic 1)

What does the Amazon S3 Intelligent-Tiering storage class offer?

- A. Payment flexibility by reserving storage capacity
- B. Long-term retention of data by copying the data to an encrypted Amazon Elastic Block Store (AmazonEBS) volume
- C. Automatic cost savings by moving objects between tiers based on access pattern changes
- D. Secure, durable, and lowest cost storage for data archival

**Answer: C**

**Explanation:**

The Amazon S3 Intelligent-Tiering storage class offers automatic cost savings by moving objects between tiers based on access pattern changes. This storage class is designed for data with unknown or changing access patterns. It has two access tiers: frequent access and infrequent access. Objects are stored in the frequent access tier by default, and are moved to the infrequent access tier after 30 consecutive days of no access. If an object in the infrequent access tier is accessed, it is moved back to the frequent access tier. There are no retrieval fees in S3 Intelligent-Tiering, and no additional tiering fees when objects are moved between access tiers within the S3 Intelligent-Tiering storage class<sup>1</sup>.

**NEW QUESTION 152**

- (Topic 1)

Which of the following promotes AWS Cloud architectural best practices for designing and operating reliable, secure, efficient, and cost-effective systems?

- A. AWS Serverless Application Model framework
- B. AWS Business Support
- C. Principle of least privilege
- D. AWS Well-Architected Framework

**Answer: D**

**Explanation:**

AWS Well-Architected Framework promotes AWS Cloud architectural best practices for designing and operating reliable, secure, efficient, and cost-effective

systems. AWS Well-Architected Framework is a set of guidelines and best practices that help the user to evaluate and improve the architecture of their applications and workloads on AWS. AWS Well-Architected Framework consists of five pillars: operational excellence, security, reliability, performance efficiency, and cost optimization. Each pillar provides a set of design principles, questions, and best practices that help the user to achieve the desired outcomes for their systems.

#### NEW QUESTION 157

- (Topic 1)

Which of the following are advantages of the AWS Cloud? (Select TWO.)

- A. Trade variable expenses for capital expenses
- B. High economies of scale
- C. Launch globally in minutes
- D. Focus on managing hardware infrastructure
- E. Overprovision to ensure capacity

**Answer:** BC

#### Explanation:

The correct answers are B and C because they are advantages of the AWS Cloud. High economies of scale means that AWS can achieve lower variable costs than customers can get on their own. Launch globally in minutes means that AWS has a global infrastructure that allows customers to deploy their applications and data across multiple regions and availability zones. The other options are incorrect because they are not advantages of the AWS Cloud. Trade variable expenses for capital expenses means that customers have to invest heavily in data centers and servers before they know how they will use them. Focus on managing hardware infrastructure means that customers have to spend time and money on maintaining and upgrading their physical resources. Overprovision to ensure capacity means that customers have to pay for more resources than they actually need to avoid performance issues. Reference: What is Cloud Computing?

#### NEW QUESTION 162

- (Topic 1)

A company is building a serverless architecture that connects application data from multiple data sources. The company needs a solution that does not require additional code.

Which AWS service meets these requirements?

- A. AWS Lambda
- B. Amazon Simple Queue Service (Amazon SQS)
- C. Amazon CloudWatch
- D. Amazon EventBridge

**Answer:** D

#### Explanation:

Amazon EventBridge is the service that meets the requirements of building a serverless architecture that connects application data from multiple data sources without requiring additional code. Amazon EventBridge is a serverless event bus service that allows you to easily connect your applications with data from AWS services, SaaS applications, and your own applications. You can use Amazon EventBridge to create rules that match events and route them to targets such as AWS Lambda functions, Amazon SNS topics, Amazon SQS queues, or other AWS services. Amazon EventBridge handles the event ingestion, delivery, security, authorization, and error handling for you.

#### NEW QUESTION 167

- (Topic 1)

Which of the following are AWS Cloud design principles? (Select TWO.)

- A. Pay for compute resources in advance.
- B. Make data-driven decisions to determine cloud architectural design.
- C. Emphasize manual processes to allow for changes.
- D. Test systems at production scale.
- E. Refine operational procedures infrequently.

**Answer:** BD

#### Explanation:

The correct answers are B and D because making data-driven decisions to determine cloud architectural design and testing systems at production scale are AWS Cloud design principles. Making data-driven decisions to determine cloud architectural design means that users should collect and analyze data from their AWS resources and applications to optimize their performance, availability, security, and cost. Testing systems at production scale means that users should simulate real-world scenarios and load conditions to validate the functionality, reliability, and scalability of their systems. The other options are incorrect because they are not AWS Cloud design principles. Paying for compute resources in advance means that users have to invest heavily in data centers and servers before they know how they will use them. This is not a cloud design principle, but rather a traditional IT model. Emphasizing manual processes to allow for changes means that users have to rely on human intervention and coordination to perform operational tasks and updates. This is not a cloud design principle, but rather a source of inefficiency and error. Refining operational procedures infrequently means that users have to stick to the same methods and practices without adapting to the changing needs and feedback. This is not a cloud design principle, but rather a hindrance to innovation and improvement. Reference: AWS Well-Architected Framework

#### NEW QUESTION 171

- (Topic 1)

An Availability Zone consists of:

- A. one or more data centers in a single location.
- B. two or more data centers in multiple locations.
- C. one or more physical hosts in a single data center.
- D. two or more physical hosts in multiple data centers.

**Answer:** A

**Explanation:**

The correct answer is A because an Availability Zone consists of one or more data centers in a single location. An Availability Zone is an isolated location within an AWS Region that has independent power, cooling, and networking. Each Availability Zone has one or more data centers that host the physical servers and storage devices that run the AWS services. The other options are incorrect because they are not accurate descriptions of an Availability Zone. Two or more data centers in multiple locations are not an Availability Zone, but rather multiple Availability Zones within an AWS Region. One or more physical hosts in a single data center are not an Availability Zone, but rather the components of a data center within an Availability Zone. Two or more physical hosts in multiple data centers are not an Availability Zone, but rather the components of multiple data centers within one or more Availability Zones. Reference: [Regions, Availability Zones, and Local Zones]

**NEW QUESTION 175**

- (Topic 1)

Which of the following acts as an instance-level firewall to control inbound and outbound access?

- A. Network access control list
- B. Security groups
- C. AWS Trusted Advisor
- D. Virtual private gateways

**Answer: B**

**Explanation:**

The correct answer is B because security groups are AWS features that act as instance-level firewalls to control inbound and outbound access. Security groups are virtual firewalls that can be attached to one or more Amazon EC2 instances. Users can configure rules for security groups to allow or deny traffic based on protocols, ports, and source or destination IP addresses. The other options are incorrect because they are not AWS features that act as instance-level firewalls to control inbound and outbound access. Network access control list is an AWS feature that acts as a subnet-level firewall to control inbound and outbound access. AWS Trusted Advisor is an AWS service that provides real-time guidance to help users follow AWS best practices for security, performance, cost optimization, and fault tolerance. Virtual private gateways are AWS features that enable users to create a secure and encrypted connection between their VPC and their on-premises network. Reference: Security Groups for Your VPC

**NEW QUESTION 176**

- (Topic 1)

A company needs a content delivery network that provides secure delivery of data, videos, applications, and APIs to users globally with low latency and high transfer speeds.

Which AWS service meets these requirements?

- A. Amazon CloudFront
- B. Elastic Load Balancing
- C. Amazon S3
- D. Amazon Elastic Transcoder

**Answer: A**

**Explanation:**

The correct answer is A because Amazon CloudFront is an AWS service that provides secure delivery of data, videos, applications, and APIs to users globally with low latency and high transfer speeds. Amazon CloudFront is a fast content delivery network (CDN) that integrates with other AWS services, such as Amazon S3, Amazon EC2, AWS Lambda, and AWS Shield. Amazon CloudFront delivers content through a worldwide network of edge locations that are located close to the end users. The other options are incorrect because they are not AWS services that provide secure delivery of data, videos, applications, and APIs to users globally with low latency and high transfer speeds. Elastic Load Balancing is an AWS service that distributes incoming traffic across multiple targets, such as Amazon EC2 instances, containers, and IP addresses. Amazon S3 is an AWS service that provides object storage for data of any size and type. Amazon Elastic Transcoder is an AWS service that converts media files from their original source format into different formats that will play on various devices. Reference: Amazon CloudFront FAQs

**NEW QUESTION 181**

- (Topic 1)

A developer needs to build an application for a retail company. The application must provide real-time product recommendations that are based on machine learning.

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

- A. AWS Health Dashboard
- B. Amazon Personalize
- C. Amazon Forecast
- D. Amazon Transcribe

**Answer: B**

**Explanation:**

Amazon Personalize is a fully managed machine learning service that customers can use to generate personalized recommendations for their users. It can also generate user segments based on the users' affinity for certain items or item metadata. Amazon Personalize uses the customers' data to train and deploy custom recommendation models that can be integrated into their applications. Therefore, the correct answer is B. You can learn more about Amazon Personalize and its use cases from this page.

**NEW QUESTION 186**

- (Topic 3)

A company wants to build a new web application by using AWS services. The application must meet the on-demand load for periods of heavy activity.

Which AWS services or resources provide the necessary workload adjustments to meet these requirements? (Select TWO.)

- A. Amazon Machine Image (AMI)
- B. Amazon EC2 Auto Scaling
- C. Amazon EC2 instance

- D. AWS Lambda
- E. EC2 Image Builder

**Answer:** BD

**Explanation:**

Amazon EC2 Auto Scaling helps you ensure that you have the correct number of Amazon EC2 instances available to handle the load for your application. You create collections of EC2 instances, called Auto Scaling groups. You can specify the minimum number of instances in each Auto Scaling group, and Amazon EC2 Auto Scaling ensures that your group never goes below this size. You can specify the maximum number of instances in each Auto Scaling group, and Amazon EC2 Auto Scaling ensures that your group never goes above this size<sup>4</sup>. AWS Lambda lets you run code without provisioning or managing servers. You pay only for the compute time you consume. With Lambda, you can run code for virtually any type of application or backend service - all with zero administration. Just upload your code and Lambda takes care of everything required to run and scale your code with high availability. You can set up your code to automatically trigger from other AWS services or call it directly from any web or mobile app.

**NEW QUESTION 191**

- (Topic 3)

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

- A. Elastic Load Balancing
- B. Amazon Simple Notification Service (Amazon SNS)
- C. Amazon CloudFront
- D. Amazon Simple Queue Service (Amazon SQS)

**Answer:** D

**Explanation:**

Amazon Simple Queue Service (Amazon SQS) is a service that provides fully managed message queues for asynchronous communication between microservices. It helps developers use loose coupling and reliable messaging by allowing them to send, store, and receive messages between distributed components without losing them or requiring each component to be always available<sup>1</sup>. Elastic Load Balancing is a service that distributes incoming traffic across multiple targets, such as Amazon EC2 instances, containers, and IP addresses. Amazon Simple Notification Service (Amazon SNS) is a service that provides fully managed pub/sub messaging for event-driven and push-based communication between microservices. Amazon CloudFront is a service that provides a fast and secure content delivery network (CDN) for web applications.

**NEW QUESTION 192**

- (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 196**

- (Topic 3)

Which AWS service converts text to lifelike voices?

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

**Answer:** C

**Explanation:**

Amazon Polly is a service that turns text into lifelike speech, allowing you to create applications that talk, and build entirely new categories of speech-enabled products. Polly's Text-to-Speech (TTS) service uses advanced deep learning technologies to synthesize natural sounding human speech<sup>1</sup>. Amazon Polly supports dozens of languages and a wide range of natural-sounding voices. You can customize and control the speech output by using lexicons and SSML tags. You can also store and redistribute the speech output in standard audio formats like MP3 and OGG<sup>2</sup>.

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

Amazon Rekognition is a service that provides image and video analysis using computer vision and deep learning. It can detect objects, faces, text, scenes, activities, and emotions in images and videos. It can also perform face recognition, face comparison, face search, celebrity recognition, and facial analysis. Amazon Rekognition is useful for applications such as security, social media, e-commerce, and media and entertainment.

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

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

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

#### NEW QUESTION 201

- (Topic 3)

A company is using Amazon DynamoDB.

Which task is the company's responsibility, according to the AWS shared responsibility model?

- A. Patch the operating system
- B. Provision hosts
- C. Manage database access permissions.
- D. Secure the operating system

**Answer: C**

#### Explanation:

According to the AWS shared responsibility model, AWS is responsible for the security of the cloud, while customers are responsible for the security in the cloud. This means that AWS is responsible for the physical servers, networking, and operating system that run DynamoDB, while customers are responsible for the security of their data and access to the database. Customers need to manage database access permissions, such as creating and managing AWS Identity and Access Management (IAM) policies and roles, and using encryption and key management options to protect their data<sup>123</sup>. References: 1: Shared Responsibility Model - Amazon Web Services (AWS), 2: Security in Amazon DynamoDB - Amazon DynamoDB, 3: AWS Shared Responsibility Model - Introduction to DevOps ...

#### NEW QUESTION 202

- (Topic 3)

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

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

**Answer: D**

#### Explanation:

The correct answer is D. Platform.

The Platform perspective in the AWS Cloud Adoption Framework (AWS CAF) includes a capability for well-designed data and analytics architecture. This capability helps you design, implement, and optimize your data and analytics solutions on AWS, using services such as Amazon S3, Amazon Redshift, Amazon EMR, Amazon Kinesis, Amazon Athena, and Amazon QuickSight. A well-designed data and analytics architecture enables you to collect, store, process, analyze, and visualize data from various sources, and derive insights that can drive your business decisions<sup>12</sup>.

The Security perspective does not include a capability for data and analytics architecture, but it does include a capability for data protection, which helps you secure your data at rest and in transit using encryption, key management, access control, and auditing<sup>13</sup>.

The Governance perspective does not include a capability for data and analytics architecture, but it does include a capability for data governance, which helps you manage the quality, availability, usability, integrity, and security of your data assets<sup>14</sup>.

The Operations perspective does not include a capability for data and analytics architecture, but it does include a capability for data operations, which helps you monitor, troubleshoot, and optimize the performance and availability of your data pipelines and workloads<sup>1</sup>.

References:

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

#### NEW QUESTION 207

- (Topic 3)

Which option is an AWS Cloud Adoption Framework (AWS CAF) foundational capability for the operations perspective?

- A. Performance and capacity management
- B. Application portfolio management
- C. Identity and access management
- D. Product management

**Answer: C**

#### Explanation:

Identity and access management is one of the foundational capabilities for the operations perspective of the AWS Cloud Adoption Framework (AWS CAF). It involves managing the identities, roles, permissions, and credentials of users and systems that interact with AWS resources. Performance and capacity management is a capability for the platform perspective. Application portfolio management is a capability for the business perspective. Product management is a capability for the governance perspective.

#### NEW QUESTION 208

- (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>12</sup>. References: 1: Dedicated Network Connection - AWS Direct Connect - AWS, 2: What is AWS Direct Connect? - AWS Direct Connect

**NEW QUESTION 209**

- (Topic 3)

A company wants to define a central data protection policy that works across AWS services for compute, storage, and database resources. Which AWS service will meet this requirement?

- A. AWS Batch
- B. AWS Elastic Disaster Recovery
- C. AWS Backup
- D. Amazon FSx

**Answer:** C

**Explanation:**

The AWS service that will meet this requirement is C. AWS Backup.

AWS Backup is a service that allows you to define a central data protection policy that works across AWS services for compute, storage, and database resources. You can use AWS Backup to create backup plans that specify the frequency, retention, and lifecycle of your backups, and apply them to your AWS resources using tags or resource IDs. AWS Backup supports various AWS services, such as Amazon EC2, Amazon EBS, Amazon RDS, Amazon DynamoDB, Amazon EFS, Amazon FSx, and AWS Storage Gateway<sup>12</sup>. AWS Batch is a service that allows you to run batch computing workloads on AWS. AWS Batch does not provide a central data protection policy, but rather enables you to optimize the allocation and utilization of your compute resources<sup>3</sup>.

AWS Elastic Disaster Recovery is a service that allows you to prepare for and recover from disasters using AWS. AWS Elastic Disaster Recovery does not provide a central data protection policy, but rather helps you minimize downtime and data loss by replicating your applications and data to AWS<sup>4</sup>.

Amazon FSx is a service that provides fully managed file storage for Windows and Linux applications. Amazon FSx does not provide a central data protection policy, but rather offers features such as encryption, snapshots, backups, and replication to protect your file systems<sup>5</sup>.

References:

1: AWS Backup – Centralized backup across AWS services 3: AWS Batch – Run Batch Computing Jobs on AWS 2: Data Protection Reference Architectures with AWS Backup 4: AWS Elastic Disaster Recovery – Prepare for and recover from disasters using AWS 5: Amazon FSx – Fully managed file storage for Windows and Linux applications

**NEW QUESTION 213**

- (Topic 3)

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

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

**Answer:** A

**Explanation:**

Amazon CloudWatch is a service that provides monitoring and observability for AWS resources and applications. Users can create custom dashboards to collect and visualize metrics, logs, alarms, and events from different sources<sup>5</sup>. AWS X-Ray is a service that provides distributed tracing and analysis for applications.

AWS Systems Manager is a service that provides operational management for AWS resources and applications. AWS CloudTrail is a service that provides governance, compliance, and auditing for AWS account activity.

**NEW QUESTION 216**

- (Topic 3)

A company wants to use the latest technologies and wants to minimize its capital investment. Instead of upgrading on-premises infrastructure, the company wants to move to the AWS Cloud.

Which AWS Cloud benefit does this scenario describe?

- A. Increased speed to market
- B. The trade of infrastructure expenses for operating expenses
- C. Massive economies of scale
- D. The ability to go global in minutes

**Answer:** B

**Explanation:**

The trade of infrastructure expenses for operating expenses is one of the benefits of the AWS Cloud. By moving to the AWS Cloud, the company can avoid the upfront costs of purchasing and maintaining on-premises infrastructure, such as servers, storage, network, and software. Instead, the company can pay only for the AWS resources and services that they use, as they use them. This reduces the risk and complexity of planning and managing IT infrastructure, and allows the company to focus on innovation and growth. Increased speed to market, massive economies of scale, and the ability to go global in minutes are also benefits of the AWS Cloud, but they are not the best ones to describe this scenario. Increased speed to market means that the company can launch new products and services faster by using AWS services and tools. Massive economies of scale means that the company can benefit from the lower costs and higher performance that AWS achieves by operating at a large scale. The ability to go global in minutes means that the company can deploy their applications and data in multiple regions and availability zones around the world to reach their customers faster and improve performance and reliability<sup>5</sup>

#### NEW QUESTION 219

- (Topic 3)

A company has deployed an Amazon EC2 instance.

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

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

**Answer: C**

#### Explanation:

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

#### NEW QUESTION 222

- (Topic 3)

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

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

**Answer: CD**

#### Explanation:

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

#### NEW QUESTION 225

- (Topic 3)

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

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

**Answer: C**

#### Explanation:

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

#### NEW QUESTION 226

- (Topic 3)

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

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

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

**Answer: C**

#### Explanation:

AWS Enterprise Support provides customers with a designated technical account manager (TAM) who is a single point of contact for all technical and operational issues. The TAM provides consultative architectural and operational guidance delivered in the context of the customer's applications and use-cases to help them achieve the greatest value from AWS. The TAM also helps customers with proactive services, such as strategic business reviews, security improvement programs, guided Well-Architected reviews, cost optimization workshops, and more<sup>1</sup>.

A full set of AWS Trusted Advisor checks is not an additional benefit of AWS Enterprise Support, as it is also included in the AWS Business Support plan2. AWS Trusted Advisor is a tool that provides best practice recommendations for cost optimization, performance, security, fault tolerance, and service limits. Phone, email, and chat access to cloud support engineers 24 hours a day, 7 days a week is not an additional benefit of AWS Enterprise Support, as it is also included in the AWS Business Support plan2. Cloud support engineers can help customers with technical issues, such as troubleshooting, configuration, usage, and service features.

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

#### NEW QUESTION 228

- (Topic 3)

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

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

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

**Answer: C**

#### Explanation:

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

#### NEW QUESTION 233

- (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 238

- (Topic 3)

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

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

**Answer: D**

#### Explanation:

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

#### NEW QUESTION 241

- (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 246**

- (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 249**

- (Topic 3)

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

Which AWS CAF governance perspective capability will meet these requirements?

- A. Benefits management
- B. Risk management
- C. Application portfolio management
- D. Cloud financial management

**Answer: A**

**Explanation:**

The correct answer is A. Benefits management.

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

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

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

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

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

**NEW QUESTION 251**

- (Topic 3)

Which pillar of the AWS Well-Architected Framework includes the AWS shared responsibility model?

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

**Answer: D**

**Explanation:**

The AWS Well-Architected Framework is a set of best practices and guidelines for designing and operating reliable, secure, efficient, and cost-effective systems in the cloud. The framework consists of five pillars: operational excellence, performance efficiency, reliability, security, and cost optimization. The security pillar covers the AWS shared responsibility model, which defines the security and compliance responsibilities of AWS and the customers. You can learn more about the AWS Well-Architected Framework from [this whitepaper] or [this digital course].

**NEW QUESTION 255**

- (Topic 3)

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

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

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 256**

- (Topic 3)

A company must be able to develop, test, and launch an application in the AWS Cloud quickly. Which advantage of cloud computing will meet these requirements?

- A. Stop guessing capacity
- B. Trade fixed expense for variable expense
- C. Achieve economies of scale
- D. Increase speed and agility

**Answer:** D

**Explanation:**

One of the benefits of cloud computing is that it enables customers to increase speed and agility in developing, testing, and launching applications. Cloud computing provides on-demand access to a variety of IT resources, such as compute, storage, networking, databases, and analytics, without requiring upfront investments or long-term commitments. Customers can provision and release resources in minutes, scale up and down as needed, and experiment with new technologies and features. This allows customers to accelerate their innovation cycles, deliver faster time-to-market, and respond to changing customer needs and demands

**NEW QUESTION 261**

- (Topic 3)

A company is migrating its data center to AWS. The company needs an AWS Support plan that provides chat access to a cloud sup engineer 24 hours a day, 7 days a week. The company does not require access to infrastructure event management. What is the MOST cost-effective AWS Support plan that meets these requirements?

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

**Answer:** B

**Explanation:**

AWS Business Support is the most cost-effective AWS Support plan that provides chat access to a cloud support engineer 24/7. AWS Business Support also offers phone and email support, as well as a response time of less than one hour for urgent issues. AWS Business Support does not include access to infrastructure event management, which is a feature of AWS Enterprise Support. AWS Enterprise Support is more expensive and provides additional benefits, such as a technical account manager, a support concierge, and a response time of less than 15 minutes for critical issues. AWS Developer Support and AWS Basic Support do not provide chat access to a cloud support engineer. AWS Developer Support provides email support and a response time of less than 12 hours for general guidance issues. AWS Basic Support provides customer service and account support, as well as access to forums and documentation<sup>1</sup>

**NEW QUESTION 266**

- (Topic 3)

A company hosts a large amount of data in AWS. The company wants to identify if any of the data should be considered sensitive. Which AWS service will meet the requirement?

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

**Answer:** B

**Explanation:**

Amazon Macie is a fully managed service that uses machine learning and pattern matching to help you detect, classify, and better protect your sensitive data stored in the AWS Cloud<sup>1</sup>. Macie can automatically discover and scan your Amazon S3 buckets for sensitive data such as personally identifiable information (PII), financial information, healthcare information, intellectual property, and credentials<sup>1</sup>. Macie also provides you with a dashboard that shows the type, location, and volume of sensitive data in your AWS environment, as well as alerts and findings on potential security issues<sup>1</sup>.

The other options are not suitable for identifying sensitive data in AWS. Amazon Inspector is a service that helps you find security vulnerabilities and deviations from best practices in your Amazon EC2 instances<sup>2</sup>. AWS Identity and Access Management (IAM) is a service that helps you manage access to your AWS resources by creating users, groups, roles, and policies<sup>3</sup>. Amazon CloudWatch is a service that helps you monitor and troubleshoot your AWS resources and applications by collecting metrics, logs, events, and alarms<sup>4</sup>. References:

? 1: What Is Amazon Macie? - Amazon Macie

? 2: What Is Amazon Inspector? - Amazon Inspector

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

? 4: What Is Amazon CloudWatch? - Amazon CloudWatch

**NEW QUESTION 270**

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