Exam set A Feb 1

Total points 94/130



0 of 0 points

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All Questions are compulsory

94 of 130 points

✓ Historically, IT departments had to over-provision for peak demand. IT professionals may bring this legacy mindset to the table when they build their cloud infrastructure leading to over-provisioned resources and unnecessary costs. Right-sizing of resources is necessary to reduce infrastructure costs while still using cloud functionality optimally. Which feature of the AWS Cloud refers to right-sizing the resources?	*1/1
Reliability	
Horizontal scaling	
Resiliency	
Elasticity	✓
Feedback	
Explanation Correct option: Elasticity Most people, when thinking of cloud computing, think of the ease with which they can procure resources when needed. This is only one aspect of elasticity. The other aspect is	S

to contract when they no longer need resources. Scale-out and scale in. Scale up and scale down.

The ability to acquire resources as you need them and release resources when you no longer need them. In the cloud, you want to do this automatically.

Some AWS services do this as part of their service: Amazon Simple Storage Service (Amazon S3), Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), Amazon Simple Email Service (Amazon SES), Amazon Aurora, etc. Some require vertical scaling, like Amazon Relational Database Service (Amazon RDS). Others integrate with AWS Auto Scaling, like Amazon EC2, Amazon ECS, AWS Fargate, Amazon EKS, and Amazon DynamoDB. Amazon Aurora Serverless and Amazon Athena also qualify as elastic.

Incorrect options:

Reliability - The ability of a workload to perform its intended function correctly and consistently when it's expected to. This includes the ability to operate and test the workload through its total lifecycle.

Resiliency - The ability of a workload to recover from infrastructure or service disruptions, dynamically acquire computing resources to meet demand, and mitigate disruptions, such as misconfigurations or transient network issues.

Horizontal scaling - A "horizontally scalable" system can increase capacity by adding more computers to the system. This is in contrast to a "vertically scalable" system, which is constrained to running its processes on only one computer; in such systems, the only way to increase performance is to add more resources into one computer in the form of faster (or more) CPUs, memory or storage.

✓	Which of the following entities applies patches to the underlying OS for *1/1 Amazon Aurora?
C	The AWS customer by using AWS Systems Manager
	The AWS Support after receiving a request from the customer
	The AWS customer by SSHing on the instances
•	The AWS Product Team automatically
С Т А с и d	Sorrect option: The AWS Product Team automatically Time away and PostgreSQL-compatible relational database built for the Iloud. Amazon Aurora is fully managed by Amazon Relational Database Service (RDS), Which automates time-consuming administration tasks like hardware provisioning, Ilatabase setup, patching, and backups. The AWS Product team is responsible for applying Interest of the underlying OS for AWS Aurora.
T v u y c u ir	The AWS customer by using AWS Systems Manager - AWS Systems Manager gives you isibility and control of your infrastructure on AWS. Systems Manager provides a unified ser interface so you can view operational data from multiple AWS services and allows ou to automate operational tasks such as running commands, managing patches and onfiguring servers across AWS Cloud as well as on-premises infrastructure. You can only see AWS Systems Manager to apply patches to your EC2 instances or on-premises instances. You cannot use Systems Manager to apply patches to the underlying OS for two Aurora.
s p	The AWS Support after receiving a request from the customer - AWS Support handles upport tickets regarding AWS services. AWS Support is not responsible for applying atches to the underlying OS for AWS Aurora.

The AWS customer by SSHing on the instances - AWS customers are only responsible for patching their own EC2 instances.

Reference:

✓	Which of the following statements are true about AWS Regions and Availability Zones (AZ)? (Select two)	* 1/1
	AWS calls each group of logical data centers as AWS Regions	
	An Availability Zone (AZ) is a physical location where AWS clusters the data cen	ters
	Each AWS Region consists of multiple, isolated, and physically separate Availability Zones (AZ) within a geographic area	✓
	Traffic between Availability Zones (AZ) is not encrypted by default, but can be configured from AWS console	
	All traffic between Availability Zones (AZ) is encrypted	✓

✓	A medical research startup wants to understand the compliance of AWS services concerning HIPAA guidelines. Which AWS service can be used to review the HIPAA compliance and governance-related documents on AWS?	
0	AWS Systems Manager	
0	AWS Secrets Manager	
0	AWS Trusted Advisor	
•	AWS Artifact	✓

Feedback

Explanation
Correct option:
AWS Artifact

AWS Artifact is your go-to, central resource for compliance-related information that matters to your organization. It provides on-demand access to AWS security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Different types of agreements are available in AWS Artifact Agreements to address the needs of customers subject to specific regulations. For example, the Business Associate Addendum (BAA) is available for customers that need to comply with the Health Insurance Portability and Accountability Act (HIPAA). It is not a service, it's a no-cost, self-service portal for on-demand access to AWS compliance reports. Incorrect options:

AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices. Whether establishing new workflows, developing applications, or as part of ongoing improvement, recommendations provided by Trusted Advisor regularly help keep your solutions provisioned optimally.

AWS Secrets Manager - AWS Secrets Manager helps you protect secrets needed to access your applications, services, and IT resources. The service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. Users and applications retrieve secrets with a call to Secrets Manager APIs, eliminating the need to hardcode sensitive information in plain text.

AWS Systems Manager - AWS Systems Manager gives you visibility and control of your infrastructure on AWS. Systems Manager provides a unified user interface so you can view operational data from multiple AWS services and allows you to automate operational tasks across your AWS resources. With Systems Manager, you can group resources, like Amazon EC2 instances, Amazon S3 buckets, or Amazon RDS instances, by application, view operational data for monitoring and troubleshooting, and take action on your groups of resources.

Reference:

	A company wants to have control over creating and using its own keys for a encryption on AWS services. Which of the following can be used for this use-case?	1/1
\bigcirc	AWS owned key	
	customer managed key (CMK)	/
\bigcirc	AWS Secrets Manager	
\bigcirc	AWS managed key	

Feedback

Explanation

Correct option:

customer managed key (CMK)

An AWS KMS key is a logical representation of a cryptographic key. A KMS key contains metadata, such as the key ID, key spec, key usage, creation date, description, and key state. Most importantly, it contains a reference to the key material that is used when you perform cryptographic operations with the KMS key.

The KMS keys that you create are customer managed keys. Customer managed keys are KMS keys in your AWS account that you create, own, and manage. You have full control over these KMS keys, including establishing and maintaining their key policies, IAM policies, and grants, enabling and disabling them, rotating their cryptographic material, adding tags, creating aliases that refer to the KMS keys, and scheduling the KMS keys for deletion.

Incorrect options:

AWS Secrets Manager - AWS Secrets Manager helps you protect secrets needed to access your applications, services, and IT resources. The service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. You cannot use AWS Secrets Manager for creating and using your own keys for encryption on AWS services.

AWS managed key - AWS managed keys are KMS keys in your account that are created, managed, and used on your behalf by an AWS service integrated with AWS KMS.

AWS owned key - AWS owned keys are a collection of KMS keys that an AWS service owns and manages for use in multiple AWS accounts. Although AWS owned keys are not in your AWS account, an AWS service can use an AWS owned key to protect the resources in your account.

Which tool/service will help you access AWS services using programm language-specific APIs?	ing * 1/1
AWS Management Console	
Integrated Development Environments (IDE)	
AWS Command Line Interface (CLI)	
AWS Software Developer Kit (SDK)	✓

Feedback

Correct option:

AWS Software Developer Kit (SDK) - SDKs take the complexity out of coding by providing language-specific APIs for AWS services. For example, the AWS SDK for JavaScript simplifies the use of AWS Services by providing a set of libraries that are consistent and familiar for JavaScript developers. It provides support for API lifecycle considerations such as credential management, retries, data marshaling, serialization, and deserialization. AWS SDKs are offered in several programming languages to make it simple for developers working on different programming and scripting languages. So, AWS SDK can help with using AWS services from within an application using language-specific APIs. Incorrect options:

AWS Management Console - The AWS Management Console is a web application that comprises and refers to a broad collection of service consoles for managing Amazon Web Services. When you first sign in, you see the console home page. The home page provides access to each service console as well as an intuitive user interface for exploring AWS and getting helpful tips.

AWS Command Line Interface (CLI) - The AWS Command Line Interface (CLI) is a unified tool to manage your AWS services. With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts. CLI cannot be used with language-specific APIs.

Integrated Development Environments (IDE) - An integrated development environment (IDE) provides a set of coding productivity tools such as a source code editor, a debugger, and build tools. Cloud9 IDE is an offering from AWS under IDEs. References:

https://aws.amazon.com/tools/ https://aws.amazon.com/cli/

✓ As part of log analysis, you have realized that one or more AWS-owned IP *1/1 addresses are being used for port scanning your on-premises server. Which service/team should you connect to resolve this issue?
Use AWS Trusted Advisor to log a complaint with AWS
Contact AWS Abuse team
Contact AWS Support
Reach out to Werner Vogels, the CTO of Amazon, with the details of the incident
Feedback
Explanation Correct option:
Contact AWS Abuse team
If you suspect that AWS resources are being used for abusive purposes, you need to
contact the AWS Abuse team using the Report Amazon AWS abuse form, or by contacting abuse@amazonaws.com .
The AWS Abuse team can assist you when AWS resources are used to engage in the

The AWS Abuse team can assist you when AWS resources are used to engage in the following types of abusive behavior: spam from AWS-owned IP addresses or AWS resources, port scanning, Denial-of-service (DoS) or DDoS from AWS-owned IP addresses, intrusion attempts, hosting objectionable or copyrighted content, distributing malware. List of activities that fall under abusive behavior: via -

<u>https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/</u> Incorrect options:

Contact AWS Support - AWS Support can't assist with reports of abuse or questions about notifications from the AWS Abuse team. AWS Abuse team is the right contact point for raising voice on abusive behavior using AWS resources.

Use AWS Trusted Advisor to log a complaint with AWS - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices. Trusted Advisor checks help optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits. Whether establishing new workflows, developing applications, or as part of ongoing improvement, take advantage of the recommendations provided by Trusted Advisor on a regular basis to help keep your solutions provisioned optimally.

Reach out to Werner Vogels, the CTO of Amazon, with the details of the incident - This has been added as a distractor. For the record, please let us know if you do get a shout out from Mr. Vogels.

✓ Which of the following is CORRECT regarding removing an AWS account *1/1 from AWS Organizations?
The AWS account must not have any Service Control Policies (SCPs) attached to it. Only then it can be removed from AWS organizations
Raise a support ticket with AWS Support to remove the account
The AWS account must be able to operate as a standalone account. Only then it can be removed from AWS organizations
The AWS account can be removed from AWS Systems Manager
Feedback

Explanation

Correct option:

The AWS account must be able to operate as a standalone account. Only then it can be removed from AWS organizations

You can remove an account from your organization only if the account has the information that is required for it to operate as a standalone account. For each account that you want to make standalone, you must accept the AWS Customer Agreement, choose a support plan, provide and verify the required contact information, and provide a current payment method. AWS uses the payment method to charge for any billable (not AWS Free Tier) AWS activity that occurs while the account isn't attached to an organization. Incorrect options:

Raise a support ticket with AWS Support to remove the account - AWS Support does not need to help you in removing an AWS account from AWS Organizations.

The AWS account can be removed from AWS Systems Manager - AWS Systems Manager gives you visibility and control of your infrastructure on AWS. Systems Manager provides a unified user interface so you can view operational data from multiple AWS services and allows you to automate operational tasks such as running commands, managing patches, and configuring servers across AWS Cloud as well as on-premises infrastructure. Systems Manager cannot be used to remove an AWS account from AWS Organizations. The AWS account must not have any Service Control Policies (SCPs) attached to it. Only then it can be removed from AWS organizations - This is not a pre-requisite to remove the

AWS account. The principals in the AWS account are no longer affected by any service control policies (SCPs) that were defined in the organization. This means that restrictions imposed by those SCPs are gone, and the users and roles in the account might have more permissions than they had before.

✓	A startup wants to provision an EC2 instance for the lowest possible cost for a long-term duration but needs to make sure that the instance would never be interrupted. As a Cloud Practitioner, which of the following options would you recommend?	*1/1
0	EC2 Spot Instance	
0	EC2 On-Demand Instance	
0	EC2 Dedicated Host	
•	EC2 Reserved Instance (RI)	✓

Feedback

Correct option:

EC2 Reserved Instance (RI)

An EC2 Reserved Instance (RI) provides you with significant savings (up to 75%) on your Amazon EC2 costs compared to On-Demand Instance pricing. A Reserved Instance (RI) is not a physical instance, but rather a billing discount applied to the use of On-Demand Instances in your account. You can purchase a Reserved Instance (RI) for a one-year or three-year commitment, with the three-year commitment offering a bigger discount. A reserved instance (RI) cannot be interrupted. So this is the correct option. EC2 Pricing Options Overview: via - https://aws.amazon.com/ec2/pricing/ Options incorrectes:

EC2 On-Demand Instance - An EC2 On-Demand Instance is an instance that you use ondemand. You have full control over its lifecycle — you decide when to launch, stop, hibernate, start, reboot, or terminate it. There is no long-term commitment required when you purchase On-Demand Instances. There is no upfront payment and you pay only for the seconds that your On-Demand Instances are running. The price per second for running an On-Demand Instance is fixed. On-demand instances cannot be interrupted. However, Ondemand instances are not as cost-effective as Reserved instances, so this option is not

EC2 Spot Instance - An EC2 Spot Instance is an unused EC2 instance that is available for less than the On-Demand price. Because Spot Instances enable you to request unused EC2 instances at steep discounts (up to 90%), you can lower your Amazon EC2 costs significantly. Spot Instances are well-suited for data analysis, batch jobs, background processing, and optional tasks. These can be terminated at short notice, so these are not suitable for critical workloads that need to run at a specific point in time. So this option is not correct for the given use-case.

EC2 Dedicated Host - An Amazon EC2 Dedicated Host allows you to use your eligible software licenses from vendors such as Microsoft and Oracle on Amazon EC2 so that you get the flexibility and cost-effectiveness of using your licenses, but with the resiliency, simplicity, and elasticity of AWS. An Amazon EC2 Dedicated Host is a physical server fully dedicated for your use, so you can help address corporate compliance requirement. It is not cost-efficient compared to an On-Demand instance. So this option is not correct.

✓	A company wants to identify the optimal AWS resource configuration for its workloads so that the company can reduce costs and increase workload performance. Which of the following services can be used to meet this requirement?	*1/1
0	AWS Cost Explorer	
•	AWS Compute Optimizer	✓
0	AWS Budgets	
0	AWS Systems Manager	

Feedback

Correct option: AWS Compute Optimizer

AWS Compute Optimizer recommends optimal AWS resources for your workloads to reduce costs and improve performance by using machine learning to analyze historical utilization metrics. Over-provisioning resources can lead to unnecessary infrastructure costs, and under-provisioning resources can lead to poor application performance. Compute Optimizer helps you choose optimal configurations for three types of AWS resources: Amazon EC2 instances, Amazon EBS volumes, and AWS Lambda functions, based on your utilization data.

Compute Optimizer recommends up to 3 options from 140+ EC2 instance types, as well as a wide range of EBS volume and Lambda function configuration options, to right-size your workloads. Compute Optimizer also projects what the CPU utilization, memory utilization, and run time of your workload would have been on recommended AWS resource options. This helps you understand how your workload would have performed on the recommended options before implementing the recommendations.

How Compute Optimizer works: via - https://aws.amazon.com/compute-optimizer/ Incorrect options:

AWS Systems Manager - AWS Systems Manager is the operations hub for AWS. Systems Manager provides a unified user interface so you can track and resolve operational issues across your AWS applications and resources from a central place. With Systems Manager, you can automate operational tasks for Amazon EC2 instances or Amazon RDS instances. You can also group resources by application, view operational data for monitoring and troubleshooting, implement pre-approved change workflows, and audit operational changes for your groups of resources. Systems Manager simplifies resource and application management, shortens the time to detect and resolve operational problems, and makes it easier to operate and manage your infrastructure at scale. Systems Manager cannot be used to identify the optimal resource configuration for workloads running on AWS.

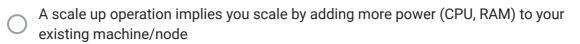
AWS Budgets - AWS Budgets allows you to set custom budgets to track your cost and usage from the simplest to the most complex use cases. With AWS Budgets, you can choose to be alerted by email or SNS notification when actual or forecasted cost and usage exceed your budget threshold, or when your actual RI and Savings Plans' utilization or coverage drops below your desired threshold. With AWS Budget Actions, you can also configure specific actions to respond to cost and usage status in your accounts, so that if your cost or usage exceeds or is forecasted to exceed your threshold, actions can be executed automatically or with your approval to reduce unintentional over-spending. AWS Cost Explorer - AWS Cost Explorer has an easy-to-use interface that lets you visualize, understand, and manage your AWS costs and usage over time. Cost Explorer Resource Rightsizing Recommendations and Compute Optimizer use the same

recommendation engine. The Compute Optimizer recommendation engine delivers recommendations to help customers identify optimal EC2 instance types for their workloads. The Cost Explorer console and API surface a subset of these recommendations that may lead to cost savings, and augments them with customer-specific cost and savings information (e.g. billing information, available credits, RI, and Savings Plans) to help Cost Management owners quickly identify savings opportunities through infrastructure rightsizing. Compute Optimizer console and its API delivers all recommendations regardless of the cost implications.

which of the following is an incorrect statement about Scaling, a
design principle of Reliability pillar of the AWS Well-Architected
Framework?

A scale out operation implies you scale by adding more instances to your existin
pool of resources

F	Fault tolerance is achieved by a scale up	operation
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(Fault toleran	ce is achi	eved by a	scale out	operation
٦	. /	i dait toiciaii	oc io doiii	crea by a	oouic out	operation

Feedback

Explanation

Correct option: Fault tolerance is achieved by a scale up operation

A scale up operation is constrained to be running its processes on only one computer. In such systems, the only way to increase performance is to add more resources into one computer in the form of faster CPUs, memory or storage. Fault tolerance is not possible for such scaling operations since a single instance is prone to failure. Incorrect options:

A scale up operation implies you scale by adding more power (CPU, RAM) to your existing machine/node - A scale up operation runs on a single instance. Adding power is only possible through the addition of resources in the form of CPU, RAM, or storage to enhance performance.

A scale out operation implies you scale by adding more instances to your existing pool of resources - A scale out operation is one that can increase capacity by adding more computers to the system. Scale out systems are oftentimes able to outperform scale up systems by enabling parallel execution of workloads and distributing those across many different computers.

Fault tolerance is achieved by a scale out operation - A scale out operation adds more instances to an existing pool of instances. This implies, there is no single point of failure. If an instance is down, the workload is taken up by other healthy instances. Distributed systems are an example of such scaling.

*****1/1

✓ Which of the following use-cases can be solved using the Amazon Forecast service?	*1/1
Predict the web traffic of a website for the next few weeks	✓
O Document search service that can extract answers from text within document	:s
To develop and test fully functional machine learning models	
To recommend personalized products for users based on their previous purch	iases

Feedback

Explanation

Correct option:

Predict the web traffic of a website for the next few weeks

Amazon Forecast is a fully managed service that uses machine learning to deliver highly accurate forecasts. Based on the same technology used at Amazon.com, Amazon Forecast uses machine learning to combine time series data with additional variables to build forecasts. Amazon Forecast requires no machine learning experience to get started. You only need to provide historical data, plus any additional data that you believe may impact your forecasts.

Amazon Forecast can be used to forecast any time-series data, such as retail demand, manufacturing demand, travel demand, revenue, IT capacity, logistics, and web traffic. Incorrect options:

To develop and test fully functional machine learning models - Amazon SageMaker is the correct service for this requirement. Amazon SageMaker is a fully managed service that provides every developer and data scientist with the ability to build, train, and deploy machine learning (ML) models quickly. SageMaker removes the heavy lifting from each step of the machine learning process to make it easier to develop high-quality models. Document search service that can extract answers from text within documents - Amazon Kendra is the best fit for this use case. Amazon Kendra is an intelligent search service powered by machine learning. Kendra reimagines enterprise search for your websites and applications so your employees and customers can easily find the content they are looking for, even when it's scattered across multiple locations and content repositories within your organization.

To recommend personalized products for users based on their previous purchases - Amazon Personalize is useful in creating recommendations. Amazon Personalize makes it easy for developers to build applications capable of delivering a wide array of personalization experiences, including specific product recommendations, personalized product re-ranking, and customized direct marketing.

✓	Which of the following AWS services should be used to automatically distribute incoming traffic across multiple targets?	*1/1
\bigcirc	AWS Auto Scaling	
	AWS Elastic Load Balancing (ELB)	✓
\bigcirc	AWS Elastic Beanstalk	
\bigcirc	Amazon OpenSearch Service	

Feedback

Explanation

Correct option:

AWS Elastic Load Balancing (ELB)

Elastic Load Balancing (ELB) is used to automatically distribute your incoming application traffic across all the EC2 instances that you are running. You can use Elastic Load Balancing to manage incoming requests by optimally routing traffic so that no one instance is overwhelmed. Your load balancer acts as a single point of contact for all incoming web traffic to your application. When an instance is added, it needs to register with the load balancer or no traffic is routed to it. When an instance is removed, it must deregister from the load balancer or traffic continues to be routed to it. Incorrect options:

AWS Elastic Beanstalk - AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed in a variety of programming languages. You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. You cannot use Beanstalk to distribute incoming traffic across multiple targets.

Amazon OpenSearch Service - Amazon OpenSearch Service makes it easy for you to perform interactive log analytics, real-time application monitoring, website search, and more. OpenSearch is an open source, distributed search and analytics suite derived from Elasticsearch.

AWS Auto Scaling - AWS Auto Scaling monitors your applications and automatically adjusts capacity to maintain steady, predictable performance at the lowest possible cost. Using AWS Auto Scaling, it's easy to setup application scaling for multiple resources across multiple services in minutes. This is a scaling service that helps you spin up resources as and when you need them and scale down when the high demand reduces. Auto Scaling can be used with Elastic Load Balacing to build high performance applications.

✓ Which of the following AWS services support VPC Endpoint Gateway for a private connection from a VPC? (Select two)	* 1/1
Amazon Simple Queue Service (SQS)	
Amazon DynamoDB	/
Amazon Simple Notification Service (SNS)	
Amazon Elastic Compute Cloud (Amazon EC2)	
Amazon Simple Storage Service (Amazon S3)	/
Correct options: Amazon Simple Storage Service (Amazon S3) Amazon DynamoDB A VPC endpoint enables you to privately connect your VPC to supported AWS services and VPC endpoint services powered by AWS PrivateLink without requiring an internet gateway, NAT device, VPN connection, or AWS Direct Connect connection. Instances in your VPC do not require public IP addresses to communicate with resources in the service. Traffic between your VPC and the other service does not leave the Amazon network. There are two types of VPC endpoints: interface endpoints and gateway endpoints. An interface endpoint is an elastic network interface with a private IP address from the IP address range of your subnet that serves as an entry point for traffic destined to a supported service. Interface endpoints are powered by AWS PrivateLink, a technology that enables you to privately access services by using private IP addresses. A gateway endpoint is a gateway that you specify as a target for a route in your route table for traffic destined to a supported AWS service. The following AWS services are supported: Amazon Simple Storage Service (Amazon S3) Amazon DynamoDB Exam Alert:	t
You may see a question around this concept in the exam. Just remember that only Amazon S3 and Amazon DynamoDB support VPC gateway endpoint. All other services that support VPC Endpoints use a VPC interface endpoint (note that Amazon S3 supports the VPC interface endpoint as well). Incorrect options: Amazon Elastic Compute Cloud (Amazon EC2) Amazon Simple Queue Service (SQS) Amazon Simple Notification Service (SNS) As explained earlier, these services support VPC Endpoint Interfaces. Reference: https://docs.aws.amazon.com/vpc/latest/userguide/vpc-endpoints.html	

✓

Feedback

Explanation

Correct option:

Use Access Key ID and Secret Access Key to access AWS resources programmatically Access keys are long-term credentials for an IAM user or the AWS account root user. You can use access keys to sign programmatic requests to the AWS CLI or AWS API (directly or using the AWS SDK). Access keys consist of two parts: an access key ID and a secret access key. As a user name and password, you must use both the access key ID and secret access key together to authenticate your requests. When you create an access key pair, save the access key ID and secret access key in a secure location. The secret access key is available only at the time you create it. If you lose your secret access key, you must delete the access key and create a new one.

Incorrect options:

Create a new IAM user and share the username and password - This is not a viable option, IAM user credentials are not needed to access resources programmatically. Use AWS Multi-Factor Authentication (AWS MFA) to access AWS resources programmatically - For increased security, AWS recommends that you configure AWS Multi-Factor Authentication (AWS MFA) to help protect your AWS resources. You can enable MFA for IAM users or the AWS account root user. MFA adds extra security because it requires users to provide unique authentication from an AWS supported MFA mechanism in addition to their regular sign-in credentials when they access AWS websites or services. MFA cannot be used for programmatic access to AWS resources. Use IAM user group to access AWS resources programmatically - An IAM user group is a collection of IAM users. An IAM user group lets you specify permissions for multiple users, which can make it easier to manage the permissions for those users. IAM user group is for managing users and not for programmatic access to AWS resources

✓ A company is looking at real-time processing of streaming big data for their ad-tech platform. Which of the following AWS services is the right choice for this requirement?	*1/1
Amazon EMR	
Amazon Simple Queue Service (Amazon SQS)	
Amazon Redshift	
Amazon Kinesis Data Streams	✓

Feedback

Explanation

Correct option:

Amazon Kinesis Data Streams

Amazon Kinesis Data Streams enables you to build custom applications that process or analyze streaming data for specialized needs. You can continuously add various types of data such as clickstreams, application logs, and social media to an Amazon Kinesis data stream from hundreds of thousands of sources. Within seconds, the data will be available for your Amazon Kinesis Applications to read and process from the stream.

Amazon Kinesis Data Streams is useful to rapidly move the data off data producers and then continuously process the data, be it to transform the data before emitting it to a data store, run real-time metrics and analytics, or derive more complex data streams for further processing. The following are typical scenarios for using Amazon Kinesis Data Streams: accelerated log and data feed intake, real-time metrics and reporting, real-time data analytics, complex stream processing.

How Amazon Kinesis Data Streams Work: via - https://aws.amazon.com/kinesis/data-streams/

Incorrect options:

Amazon Simple Queue Service (Amazon SQS) - Amazon Simple Queue Service (Amazon SQS) offers a reliable, highly scalable hosted queue for storing messages as they travel between computers. Amazon SQS lets you easily move data between distributed application components and helps you build applications in which messages are processed independently (with message-level ack/fail semantics), such as automated workflows.

Amazon Redshift - With Amazon Redshift, you can query and combine exabytes of structured and semi-structured data across your data warehouse, operational database, and data lake using standard SQL. Redshift lets you easily save the results of your queries back to your S3 data lake using open formats, like Apache Parquet, so that you can do additional analytics from other analytics services like Amazon EMR, Amazon Athena, and Amazon SageMaker. Redshift is a data warehousing solution and not a real-time streaming service.

Amazon EMR - Amazon EMR makes it easy to set up, operate, and scale your big data environments by automating time-consuming tasks like provisioning capacity and tuning clusters. EMR is not suitable as a real-time streaming service.

✓ Which feature/functionality will help you organize your AWS resources, manage and automate tasks on large numbers of resources at a time?	*1/1
AWS Organizations	
Amazon WorkSpaces	
AWS Resource Groups	~

Feedback

Explanation
Correct option:

AWS Resource Groups

In AWS, a resource is an entity that you can work with. Examples include an Amazon EC2 instance, an AWS CloudFormation stack, or an Amazon S3 bucket. If you work with multiple resources, you might find it useful to manage them as a group rather than move from one AWS service to another for each task. If you manage large numbers of related resources, such as EC2 instances that make up an application layer, you likely need to perform bulk actions on these resources at one time.

You can use AWS Resource Groups to organize your AWS resources. Resource groups make it easier to manage and automate tasks on large numbers of resources at a time. Resource Groups feature permissions are at the account level. As long as users who are sharing your account have the correct IAM permissions, they can work with the resource groups that you create.

Incorrect options:

AWS Organizations - AWS Organizations helps you centrally manage and govern your environment as you grow and scale your AWS resources. Using AWS Organizations, you can programmatically create new AWS accounts and allocate resources, group accounts to organize your workflows, apply policies to accounts or groups for governance, and simplify billing by using a single payment method for all of your accounts.

Tags - To help you manage your instances, images, and other Amazon EC2 resources, you can assign your own metadata to each resource in the form of tags. Tags enable you to categorize your AWS resources in different ways, for example, by purpose, owner, or environment. Tags are properties of a resource. Resource Groups allow you to easily create, maintain, and view a collection of resources that share common tags.

Amazon WorkSpaces - Amazon WorkSpaces enables you to provision virtual, cloud-based Microsoft Windows or Amazon Linux desktops for your users, known as WorkSpaces.

Amazon WorkSpaces eliminates the need to procure and deploy hardware or install complex software. You can quickly add or remove users as your needs change. Users can access their virtual desktops from multiple devices or web browsers.

|--|

	Amazon Quantum Ledger Database	(Amazon QLDB)
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	Amazon	Timestream
\ .		I III I Cott Carr

Amazon Neptune

Amazon Managed Blockchain

Feedback

Explanation

Correct option:

Amazon Quantum Ledger Database (Amazon QLDB)

Amazon Quantum Ledger Database (Amazon QLDB) is a fully managed ledger database that provides a transparent, immutable, and cryptographically verifiable transaction log owned by a central trusted authority. Amazon QLDB can be used to track each and every application data change and maintains a complete and verifiable history of changes over time.

Ledgers are typically used to record a history of economic and financial activity in an organization. Many organizations build applications with ledger-like functionality because they want to maintain an accurate history of their applications' data, for example, tracking the history of credits and debits in banking transactions, verifying the data lineage of an insurance claim, or tracing the movement of an item in a supply chain network. Ledger applications are often implemented using custom audit tables or audit trails created in relational databases.

Amazon QLDB is a new class of databases that eliminates the need to engage in the complex development effort of building your own ledger-like applications. With QLDB, your data's change history is immutable – it cannot be altered or deleted – and using cryptography, you can easily verify that there have been no unintended modifications to your application's data. QLDB uses an immutable transactional log, known as a journal, that tracks each application data change and maintains a complete and verifiable history of changes over time. QLDB is easy to use because it provides developers with a familiar SQL-like API, a flexible document data model, and full support for transactions. QLDB's streaming capability provides a near real-time flow of your data stored within QLDB, allowing you to develop event-driven workflows, and real-time analytics, and to replicate data to other AWS services to support advanced analytical processing. QLDB is also serverless, so it automatically scales to support the demands of your application. There are no servers to manage and no read or write limits to configure. With QLDB, you only pay for what you use.

How Amazon Quantum Ledger Database (Amazon QLDB) Works: via - https://aws.amazon.com/gldb/

Incorrect options:

Amazon Neptune - Amazon Neptune is a fast, reliable, fully-managed graph database service that makes it easy to build and run applications that work with highly connected datasets. The core of Amazon Neptune is a purpose-built, high-performance graph

database engine optimized for storing billions of relationships and querying the graph with milliseconds latency. Amazon Neptune is tailor-built for use cases like Knowledge Graphs, Identity Graphs, Fraud Detection, Recommendation Engines, Social Networking, Life Sciences, and so on.

Amazon Timestream - Amazon Timestream is a fast, scalable, and serverless time series database service for IoT and operational applications that makes it easy to store and analyze trillions of events per day up to 1,000 times faster and at as little as 1/10th the cost of relational databases. Amazon Timestream saves you time and costs in managing the lifecycle of time series data by keeping recent data in memory and moving historical data to a cost-optimized storage tier based upon user-defined policies.

Amazon Managed Blockchain - Amazon Managed Blockchain is a fully managed service that allows you to join public networks or set up and manage scalable private networks using popular open-source frameworks. Amazon Managed Blockchain eliminates the overhead required to create the network or join a public network and automatically scales to meet the demands of thousands of applications running millions of transactions. While QLDB is a ledger database purpose-built for customers who need to maintain a complete and verifiable history of data changes in an application that they own and manage in a centralized way, QLDB is not a blockchain technology. Instead, blockchain technologies focus on enabling multiple parties to transact and share data securely in a decentralized way; without a trusted, central authority. Every member in a network has an independently verifiable copy of an immutable ledger, and members can create and endorse transactions in the network.

9/5/24. 1:24

4 PM	Exam set A Feb 1
✓	By default, which of the following events are logged by AWS CloudTrail? * 1/1
\bigcirc	Data events
\bigcirc	AWS CloudTrail Insights events
	Management events
\bigcirc	Data events and Insights events
Ex Co M An ar ev M TI ev On us M	eedback cyplanation correct option: canagement events in event in AWS CloudTrail is the record of activity in an AWS account. This activity can be in action taken by a user, role, or service that is monitorable by CloudTrail. CloudTrail events provide a history of both API and non-API account activity made through the AWS clanagement Console, AWS SDKs, command line tools, and other AWS services. There are three types of events that can be logged in CloudTrail: management events, data events, and AWS CloudTrail Insights events. Y default, AWS CloudTrail logs all management events and does not include data events Insights events. Additional charges apply for data and Insights events. All event types see the same CloudTrail JSON log format. Islanagement events provide information about management operations that are experiormed on resources in your AWS account. These are also known as control plane

operations. Examples include registering devices, configuring rules for routing data, setting up logging etc.

Incorrect options:

Data events - Data events provide information about the resource operations performed on or in a resource. These are also known as data plane operations. Data events are often high-volume activities. The following data types are recorded: Amazon S3 object-level API activity, AWS Lambda function execution activity, Amazon S3 object-level API activity on AWS Outposts.

Data events are not logged by default when you create a trail. To record AWS CloudTrail data events, you must explicitly add to a trail the supported resources or resource types for which you want to collect activity. Additional charges apply for logging data events. AWS CloudTrail Insights events - AWS CloudTrail Insights events capture unusual activity in your AWS account. If you have Insights events enabled, and CloudTrail detects unusual activity, Insights events are logged to a different folder or prefix in the destination S3 bucket for your trail. You can also see the type of insight and the incident time period when you view Insights events on the CloudTrail console.

Insights events are disabled by default when you create a trail. To record AWS CloudTrail Insights events, you must explicitly enable Insights event collection on a new or existing trail. Additional charges apply for logging CloudTrail Insights events.

Data events and Insights events - As mentioned above, this option is incorrect.

✓ Which typ (EC2) repr	e of cloud computing does Amazon Elastic Compute Cloud resent?	*1/1
Infrastruct	ture as a Service (laaS)	✓
O Platform a	as a Service (PaaS)	
Network a	as a Service (NaaS)	
Software a	as a Service (SaaS)	
Feedback		

Explanation

Correct option:

Infrastructure as a Service (IaaS)

Cloud Computing can be broadly divided into three types - Infrastructure as a Service (laaS), Platform as a Service (PaaS), Software as a Service (SaaS).

laaS contains the basic building blocks for cloud IT. It typically provides access to networking features, computers (virtual or on dedicated hardware), and data storage space. IaaS gives the highest level of flexibility and management control over IT resources. EC2 gives you full control over managing the underlying OS, virtual network configurations, storage, data and applications. So EC2 is an example of an laaS service.

Please review this overview of the types of Cloud Computing: via -

https://aws.amazon.com/types-of-cloud-computing/

Incorrect options:

Platform as a Service (PaaS) - PaaS removes the need to manage underlying infrastructure (usually hardware and operating systems), and allows you to focus on the deployment and management of your applications. You don't need to worry about resource procurement, capacity planning, software maintenance, patching, or any of the other undifferentiated heavy lifting involved in running your application.

Elastic Beanstalk is an example of a PaaS service. You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring.

Software as a Service (SaaS) - SaaS provides you with a complete product that is run and managed by the service provider. With a SaaS offering, you don't have to think about how the service is maintained or how the underlying infrastructure is managed. You only need to think about how you will use that particular software. AWS Rekognition is an example of a SaaS service.

Network as a Service (NaaS) - This is a made-up option

✓	AWS Web Application Firewall (AWS WAF) can be deployed on which of the following services?	*1/1
•	Amazon CloudFront, Application Load Balancer, Amazon API Gateway, AWS AppSync	✓
0	Amazon CloudFront, Amazon Elastic Compute Cloud (Amazon EC2), Amazon A Gateway, Application Load Balancer	PI
0	AWS AppSync, Amazon CloudFront, Application Load Balancer, Amazon Elastic Compute Cloud (Amazon EC2)	
0	Application Load Balancer, Amazon Elastic Compute Cloud (Amazon EC2), Ama API Gateway	azon

Feedback

Explanation

Correct option:

Amazon CloudFront, Application Load Balancer, Amazon API Gateway, AWS AppSync AWS Web Application Firewall (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.

You can deploy AWS WAF on Amazon CloudFront as part of your CDN solution, the Application Load Balancer that fronts your web servers or origin servers running on EC2, Amazon API Gateway for your REST APIs, or AWS AppSync for your GraphQL APIs. AWS WAF is tightly integrated with Amazon CloudFront, the Application Load Balancer, Amazon API Gateway, and AWS AppSync – services that AWS customers commonly use to deliver content for their websites and applications. When you use AWS WAF on Amazon CloudFront, your rules run in all AWS Edge Locations, located around the world close to your end-users. This means security doesn't come at the expense of performance. Blocked requests are stopped before they reach your web servers. When you use AWS WAF on regional services, such as Application Load Balancer, Amazon API Gateway, and AWS AppSync, your rules run in the region and can be used to protect internet-facing resources as well as internal resources.

How AWS WAF Works: via - https://aws.amazon.com/waf/ Incorrect options:

Amazon CloudFront, Amazon Elastic Compute Cloud (Amazon EC2), Amazon API Gateway, Application Load Balancer

Application Load Balancer, Amazon Elastic Compute Cloud (Amazon EC2), Amazon API Gateway

AWS AppSync, Amazon CloudFront, Application Load Balancer, Amazon Elastic Compute Cloud (Amazon EC2)

AWS WAF cannot be deployed on Amazon EC2 instances directly, so these three options are incorrect. Application Load Balancer should be configured in front of EC2 instances to deploy AWS WAF.

	ZAMI OSTATOS I	
×	Which of the following are correct statements regarding the AWS Global Infrastructure? (Select two)	*0/1
~	Each Availability Zone (AZ) consists of one or more discrete data centers	✓
	Each Availability Zone (AZ) consists of two or more discrete data centers	
	Each AWS Region consists of a minimum of two Availability Zones (AZ)	×
	Each AWS Region consists of a minimum of three Availability Zones (AZ)	
	Each AWS Region consists of two or more Edge Locations	
Cor	rect answer	
~	Each Availability Zone (AZ) consists of one or more discrete data centers	
	Each AWS Region consists of a minimum of three Availability Zones (AZ)	
E C E E A Z Z S S F A n iii	Explanation Correct options: Each AWS Region consists of a minimum of three Availability Zones (AZ) Each Availability Zone (AZ) consists of one or more discrete data centers AWS has the concept of a Region, which is a physical location around the world where AWS clusters its data centers. AWS calls each group of logical data centers an Availability Cone (AZ). Each AWS Region consists of a minimum of three, isolated, and physically reparate AZs within a geographic area. Each AZ has independent power, cooling, and onlysical security and is connected via redundant, ultra-low-latency networks. An Availability Zone (AZ) is one or more discrete data centers with redundant power, retworking, and connectivity in an AWS Region. All AZs in an AWS Region are interconnected with high-bandwidth, low-latency networking, over fully redundant, reducated metro fiber providing high-throughput, low-latency networking between AZs.	ty
	AWS Regions and Availability Zones Overview: via - https://aws.amazon.com/about-nws/global-infrastructure/regions az/	

Incorrect options:

Each AWS Region consists of a minimum of two Availability Zones (AZ)
Each Availability Zone (AZ) consists of two or more discrete data centers
Each AWS Region consists of two or more Edge Locations
These three options contradict the details provided earlier in the explanation, so these options are incorrect.

~	A company wants to move to AWS cloud and release new features with quick iterations by utilizing relevant AWS services whenever required. Which of the following characteristics of AWS Cloud does it want to leverage?	*1/1
\circ	Reliability	
\circ	Scalability	
	Agility	✓
\bigcirc	Elasticity	
Ex Co Ag In lau AV ex ins Ind Ela the dis So	replanation orrect option: gility the world of cloud computing, "Agility" refers to the ability to rapidly develop, test and unch software applications that drive business growth Another way to explain "Agility" - NS provides a massive global cloud infrastructure that allows you to quickly innovate, reperiment and iterate. Instead of waiting weeks or months for hardware, you can stantly deploy new applications. This ability is called Agility. correct options: asticity - This refers to the ability to acquire resources as you need and release when ey are no longer needed is termed as Elasticity of the Cloud. eliability - This refers to the ability of a system to recover from infrastructure or service suptions, by dynamically acquiring computing resources to meet demand, and mitigate suptions. calability - Scalability is the measurement of a system's ability to grow to accommodate in increase in demand, or shrink down to a diminishing demand.	e

✓	Which of the following statements are true about AWS Elastic Beanstalk? *1/1 (Select two)
~	There is no additional charge for AWS Elastic Beanstalk. You pay only for the underlying AWS resources that your application consumes
	AWS Elastic Beanstalk supports Java, .NET, PHP, but does not support Docker web applications
	AWS Elastic Beanstalk supports web applications built on different languages. But, AWS Elastic Beanstalk cannot be used for deploying non-web applications
~	With AWS Elastic Beanstalk, you can quickly deploy and manage applications in the AWS Cloud without having to learn about the infrastructure that runs those applications
	AWS Elastic Beanstalk automates the details of capacity provisioning, load balancing, and application deployment, creating an environment that runs a version of your application. However, auto-scaling functionality cannot be automated using AWS Elastic Beanstalk

Feedback

Explanation

Correct options:

With AWS Elastic Beanstalk, you can quickly deploy and manage applications in the AWS Cloud without having to learn about the infrastructure that runs those applications There is no additional charge for AWS Elastic Beanstalk. You pay only for the underlying AWS resources that your application consumes

With AWS Elastic Beanstalk, you can quickly deploy and manage applications in the AWS Cloud without having to learn about the infrastructure that runs those applications. Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and AWS Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring. AWS Elastic Beanstalk supports applications developed in Go, Java, .NET, Node.js, PHP, Python, and Ruby. When you deploy your application, AWS Elastic Beanstalk builds the selected supported platform version and provisions one or more AWS resources, such as Amazon EC2 instances, to run your application.

There is no additional charge for AWS Elastic Beanstalk. You pay only for the underlying AWS resources that your application consumes.

Incorrect options:

AWS Elastic Beanstalk supports Java, .NET, PHP, but does not support Docker web applications - AWS Elastic Beanstalk supports Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker web applications.

AWS Elastic Beanstalk automates the details of capacity provisioning, load balancing, and application deployment, creating an environment that runs a version of your application. However, auto-scaling functionality cannot be automated using AWS Elastic Beanstalk - AWS Elastic Beanstalk automates the details of capacity provisioning, load balancing, auto-scaling, and application deployment, creating an environment that runs a version of your application. You can simply upload your deployable code (e.g., WAR file), and AWS Elastic Beanstalk does the rest.

AWS Elastic Beanstalk supports web applications built on different languages. But, AWS Elastic Beanstalk cannot be used for deploying non-web applications - AWS Elastic

Beanstalk supports Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker, and is ideal for web applications. However, due to Elastic Beanstalk's open architecture, non-web applications can also be deployed using AWS Elastic Beanstalk.

✓	A multi-national corporation wants to get expert professional advice on migrating to AWS and managing their applications on AWS Cloud. Which of the following entities would you recommend for this engagement?	*1/1
0	APN Technology Partner	
0	AWS Trusted Advisor	
0	Concierge Support Team	
•	APN Consulting Partner	✓

Feedback

Explanation

Correct option:

APN Consulting Partner

The AWS Partner Network (APN) is the global partner program for technology and consulting businesses that leverage Amazon Web Services to build solutions and services for customers.

APN Consulting Partners are professional services firms that help customers of all types and sizes design, architect, build, migrate, and manage their workloads and applications on AWS, accelerating their migration to AWS cloud.

APN Partner Types Overview: via - https://aws.amazon.com/partners/ Incorrect options:

APN Technology Partner - APN Technology Partners provide hardware, connectivity services, or software solutions that are either hosted on or integrated with, the AWS Cloud. APN Technology Partners cannot help in migrating to AWS and managing applications on AWS Cloud.

AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices on cost optimization, security, fault tolerance, service limits, and performance improvement. Whether establishing new workflows, developing applications, or as part of ongoing improvement, recommendations provided by Trusted Advisor regularly help keep your solutions provisioned optimally. All AWS customers get access to the seven core Trusted Advisor checks to help increase the security and performance of the AWS environment. Trusted Advisor cannot be used to migrate to AWS and manage applications on AWS Cloud.

Concierge Support Team - The Concierge Support Team are AWS billing and account experts that specialize in working with enterprise accounts. They will quickly and efficiently assist you with your billing and account inquiries. The Concierge Support Team is only available for the Enterprise Support plan. Concierge Support Team cannot help in migrating to AWS and managing applications on AWS Cloud.

✓ A cyber forensics team has detected that AWS owned IP-addresses are being used to carry out malicious attacks. As this constitutes prohibited use of AWS services, which of the following is the correct solution to address this issue?
Contact AWS Developer Forum moderators
Contact AWS Support
Write an email to Jeff Bezos, the founder of Amazon, with the details of the incident
Contact AWS Abuse Team
Feedback
Explanation

Correct option:

Contact AWS Abuse Team

The AWS Abuse team can assist you when AWS resources are used to engage in abusive behavior.

Please see details of the various scenarios that the AWS Abuse team can address: via https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/ Incorrect options:

Contact AWS Support - You need to contact the AWS Abuse team for prohibited use of AWS services.

Contact AWS Developer Forum moderators - You need to contact the AWS Abuse team for prohibited use of AWS services.

Write an email to Jeff Bezos, the CEO of Amazon, with the details of the incident - This has been added as a distractor. For the record, please let us know if you do get a reply from Mr. Bezos.

~	A company wants to improve the resiliency of its flagship application so it wants to move from its traditional database system to a managed AWS database service to support active-active configuration in both the East and West US AWS regions. The active-active configuration with cross-region support is the prime criteria for any database solution that the company considers.	*1/1
\bigcirc	Amazon DynamoDB with DynamoDB Accelerator	
•	Amazon DynamoDB with global tables	✓
0	Amazon Relational Database Service (Amazon RDS) for MYSQL	
0	Amazon Aurora with multi-master clusters	

Feedback

Explanation

Correct option: Amazon DynamoDB with global tables

Amazon DynamoDB is a fully managed, serverless, key-value NoSQL database designed to run high-performance applications at any scale. DynamoDB offers built-in security, continuous backups, automated multi-region replication, in-memory caching, and data export tools.

DynamoDB global tables replicate data automatically across your choice of AWS Regions and automatically scale capacity to accommodate your workloads. With global tables, your globally distributed applications can access data locally in the selected regions to get single-digit millisecond read and write performance. DynamoDB offers active-active cross-region support that is needed for the company. Incorrect options:

Amazon DynamoDB with DynamoDB Accelerator - DynamoDB Accelerator (DAX) is an inmemory cache that delivers fast read performance for your tables at scale by enabling you to use a fully managed in-memory cache. Using DAX, you can improve the read performance of your DynamoDB tables by up to 10 times—taking the time required for reads from milliseconds to microseconds, even at millions of requests per second. DAX

does not offer active-active cross-Region configuration.

Amazon Aurora with multi-master cluster - Amazon Aurora (Aurora) is a fully managed relational database engine that's compatible with MySQL and PostgreSQL. With some workloads, Aurora can deliver up to five times the throughput of MySQL and up to three times the throughput of PostgreSQL without requiring changes to most of your existing applications. In a multi-master cluster, all DB instances have read/write capability. Currently, all DB instances in a multi-master cluster must be in the same AWS Region. You can't enable cross-Region replicas from multi-master clusters.

Amazon Relational Database Service (Amazon RDS) for MYSQL - Amazon Relational Database Service (Amazon RDS) 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. It frees you to focus on your applications so you can give them the fast performance, high availability, security and compatibility they need. RDS does not support active-active configuration with cross-region support.

References:

	Which of the following is the MOST cost-effective option to purchase an EC2 Reserved Instance (RI)?	*0/1
\circ	All upfront payment option with the standard 1-year term	
	No upfront payment option with standard 3-years term	×
\bigcirc	No upfront payment option with standard 1-year term	
\bigcirc	Partial upfront payment option with standard 3-years term	
Corre	ect answer	
	Partial upfront payment option with standard 3-years term	
Exp Co Pa Yo dis dis pre Ple htt So "No "A! "Pa Exa Foi ren The No No No No	planation prect option: privation payment option with standard 3-years term planation privation to the payment option with standard 3-years term planation privation to a power option with standard 3-years term planation on your instance usage compared to running On-Demand instances. The secounted usage price is reserved for the duration of your contract, allowing you to redict compute costs over the term of the Reserved Instance (RI). Provided the percentage comparison for EC2 Reserved Instances (RI): via - Provided the percentage savings for each option is as follows: Provided the percentage savings for each option is as follows: Provided the percentage savings for each option is as follows: Provided the percentage savings for each option is as follows: Provided the percentage savings for each option is as follows: Provided the percentage savings for each option is as follows: Provided the percentage savings for each option is as follows: Provided the percentage savings for each option with the standard 1-year term" - 36% Provided the percentage savings of each option with the standard 3-years term" - 56% Provided the percentage savings of each option with the standard 3-years term" - 59% Provided the payment option with the standard 3-years term of the exam, there is no need to memorize these savings numbers. All you need to member is that a 3 years term would always be more cost-effective than a 1-year term. Provided the exam, there is no need to memorize these savings numbers. All you need to member is that a 3 years term would always be more cost-effective than a 1-year term. Provided the exam, there is no need to memorize these savings numbers. All you need to member is that a 3 years term would always be more cost-effective than a 1-year term. Provided the exam, there is no need to memorize these savings numbers. All you need to member is that a 3 years term would always be more cost-effective than a 1-year term. Provided the example of the example of the provided earlier in the explanation, so these tho	

×	A company has defined a baseline that mentions the number of AWS resources to be used for different stages of application testing. However, the company realized that employees are not adhering to the guidelines and provisioning additional resources via API calls, resulting in higher testing costs.		
	Which AWS service will help the company raise alarms whenever the baseline resource numbers are crossed?		
\bigcirc	AWS CloudTrail Insights		

\bigcirc	AWS	CloudTrail	Insights
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>

() Amazon Detective	
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AWS	X-Ray
AVVS	∧-nay

Correct answer

AWS CloudTrail Insights

Feedback

Explanation

Correct option:

AWS CloudTrail Insights

AWS CloudTrail Insights helps AWS users identify and respond to unusual activity associated with write API calls by continuously analyzing CloudTrail management events. Insights events are logged when AWS CloudTrail detects unusual write management API activity in your account. If you have CloudTrail Insights enabled, and CloudTrail detects unusual activity, Insights events are delivered to the destination S3 bucket for your trail. You can also see the type of insight and the incident time period when you view Insights events on the CloudTrail console. Unlike other types of events captured in a CloudTrail trail, Insights events are logged only when CloudTrail detects changes in your account's API usage that differ significantly from the account's typical usage patterns. AWS CloudTrail Insights can help you detect unusual API activity in your AWS account by raising Insights events. CloudTrail Insights measures your normal patterns of API call volume, also called the baseline, and generates Insights events when the volume is outside normal patterns.

AWS CloudTrail Insights continuously monitors CloudTrail write management events, and uses mathematical models to determine the normal levels of API and service event activity for an account. CloudTrail Insights identifies behavior that is outside normal patterns, generates Insights events, and delivers those events to a /CloudTrail-Insight folder in the chosen destination S3 bucket for your trail. You can also access and view Insights events in the AWS Management Console for CloudTrail.

Identify and Respond to Unusual API Activity using AWS CloudTrail Insights: via https://aws.amazon.com/blogs/aws/announcing-cloudtrail-insights-identify-and-respondto-unusual-api-activity/

Incorrect options:

AWS X-Ray - AWS X-Ray helps developers analyze and debug production, distributed applications, such as those built using a microservices architecture. With X-Ray, you can

understand how your application and its underlying services are performing to identify and troubleshoot the root cause of performance issues and errors. X-Ray provides an end-to-end view of requests as they travel through your application, and shows a map of your application's underlying components. X-Ray is not for tracking user actions when interacting with the AWS systems.

Amazon Detective - Amazon Detective simplifies the process of investigating security findings and identifying the root cause. Amazon Detective analyzes trillions of events from multiple data sources such as VPC Flow Logs, AWS CloudTrail logs, and Amazon GuardDuty findings and automatically creates a graph model that provides you with a unified, interactive view of your resources, users, and the interactions between them over time.

AWS Config - AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. With 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. This enables you to simplify compliance auditing, security analysis, change management, and operational troubleshooting.

reserved EC2 instances amongst all units

✓	A company uses reserved EC2 instances across multiple units with each unit having its own AWS account. However, some of the units underutilize their reserved instances while other units need more reserved instances. As a Cloud Practitioner, which of the following would you recommend as the most cost-optimal solution?
0	Use AWS Cost Explorer to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units
0	Use AWS Systems Manager to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units
•	Use AWS Organizations to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units
	Use AWS Trusted Advisor to manage AWS accounts of all units and then share the

Feedback

Explanation

Correct option:

Use AWS Organizations to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units

AWS Organizations helps you to centrally manage billing; control access, compliance, and security; and share resources across your AWS accounts. Using AWS Organizations, you can automate account creation, create groups of accounts to reflect your business needs, and apply policies for these groups for governance. You can also simplify billing by setting up a single payment method for all of your AWS accounts. AWS Organizations is available to all AWS customers at no additional charge.

Key Features of AWS Organizations: via - https://aws.amazon.com/organizations/ Incorrect options:

Use AWS Trusted Advisor to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices on cost optimization, security, fault tolerance, service limits, and performance improvement. You cannot use Trusted Advisor to share the reserved EC2 instances amongst multiple AWS accounts.

How Trusted Advisor Works: via -

https://aws.amazon.com/premiumsupport/technology/trusted-advisor/

Use AWS Cost Explorer to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units - AWS Cost Explorer lets you explore your AWS costs and usage at both a high level and at a detailed level of analysis, and empowering you to dive deeper using several filtering dimensions (e.g., AWS Service, Region, Linked Account). You cannot use Cost Explorer to share the reserved EC2 instances amongst multiple AWS accounts.

Use AWS Systems Manager to manage AWS accounts of all units and then share the reserved EC2 instances amongst all units - Systems Manager provides a unified user interface so you can view operational data from multiple AWS services and allows you to automate operational tasks across your AWS resources. With Systems Manager, you can group resources, like Amazon EC2 instances, Amazon S3 buckets, or Amazon RDS instances, by application, view operational data for monitoring and troubleshooting, and

take action on your groups of resources. You cannot use Systems Manager to share the reserved EC2 instances amongst multiple AWS accounts.

How AWS Systems Manager Works: via - https://aws.amazon.com/systems-manager/ References:

https://aws.amazon.com/organizations/

https://aws.amazon.com/premiumsupport/technology/trusted-advisor/

https://aws.amazon.com/systems-manager/

✓ Which of the following is an AWS database service? *	1/1
Amazon Redshift	~
AWS Glue	
AWS Database Migration Service (AWS DMS)	
AWS Storage Gateway	
Feedback	

Correct option:

Amazon Redshift - Amazon Redshift is a fully-managed petabyte-scale cloud-based data warehouse product designed for large scale data set storage and analysis. Incorrect options:

Glue - AWS Glue is a fully managed extract, transform, and load (ETL) service that makes it easy for customers to prepare and load their data for analytics.

AWS Storage Gateway - AWS Storage Gateway is a hybrid cloud storage service that connects your existing on-premises environments with the AWS Cloud. Customers use AWS Storage Gateway to simplify storage management and reduce costs for key hybrid cloud storage use cases.

AWS Database Migration Service (AWS DMS) - AWS Database Migration Service (AWS DMS) helps you migrate databases to AWS quickly and securely. The source database remains fully operational during the migration, minimizing downtime to applications that rely on the database. The AWS Database Migration Service (AWS DMS) can migrate your data to and from the most widely used commercial and open-source databases.

According to the AWS Shared Responsibility Model, which of the following are responsibilities of AWS? (Select two)	<mark>*</mark> 1/1
Enabling Multi Factor Authentication on AWS accounts in your organization	
Creating S3 bucket policies for appropriate user access	
Maintaining Amazon S3 data in different availability zones to keep it durable	✓
Replacing faulty hardware of Amazon EC2 instances	✓
Creating IAM role for accessing Amazon EC2 instances	
Explanation Correct option: According to the AWS Shared Responsibility Model, AWS is responsible for "Security of to Cloud". This includes protecting the infrastructure that runs all of the services offered in the AWS Cloud. This infrastructure is composed of the hardware, software, networking, and facilities that run AWS Cloud services. Replacing faulty hardware of Amazon EC2 instances - Replacing faulty hardware of Amazon EC2 instances comes under the infrastructure maintenance "of" the cloud. This the responsibility of AWS. Maintaining Amazon S3 data in different availability zones to keep it durable - AWS is responsible for keeping data on AWS Cloud Secure, Durable, Available and Reliable. Keeping data infrastructure safe from failures is the responsibility of AWS. Shared Responsibility Model Overview: via - https://aws.amazon.com/compliance/shareresponsibility-model/ Incorrect options: Enabling Multi Factor Authentication on AWS accounts in your organization - Enabling Multi Factor Authentication for AWS accounts in your organization is your responsibility. On the other hand, AWS is responsible for making sure that the user data created and the relationships and policies are stored on fail-proof infrastructure. Creating IAM role for accessing Amazon EC2 instances - Creating user roles, policies is the responsibility of the customer. Customers will decide "which" resources get "what" access.	ed-
Creating S3 bucket policies for appropriate user access - Creating bucket policies for Amazon S3 data access is the responsibility of the customer. The customer decides wh gets access to the data he stores on S3 and will use AWS tools to implement these requirements. AWS on the other hand is responsible for keeping the data safe from hardware and software failure.	0

Reference:

https://aws.amazon.com/compliance/shared-responsibility-model/

\	Which of the following is the least effort way to encrypt data for AWS services only in your AWS account using AWS Key Management Service (KMS)?	*1/1
0	Create your own customer managed keys (CMKs) in AWS KMS	
0	Use AWS KMS APIs to encrypt data within your own application by using the AW Encryption SDK	IS
•	Use AWS managed master keys that are automatically created in your account for each service	✓
\bigcirc	Use AWS owned CMK in the service you wish to use encryption	

Feedback

Explanation

Correct option:

Use AWS managed master keys that are automatically created in your account for each service

AWS KMS keys (KMS keys) are the primary resource in AWS KMS. You can use a KMS key to encrypt, decrypt, and re-encrypt data. It can also generate data keys that you can use outside of AWS KMS. AWS KMS is replacing the term customer master key (CMK) with AWS KMS key and KMS key.

AWS managed CMKs are CMKs in your account that are created, managed, and used on your behalf by an AWS service that is integrated with AWS KMS. Some AWS services support only an AWS managed CMK. Others use an AWS owned CMK or offer you a choice of CMKs. AWS managed CMK can be used only for your AWS account.

You can view the AWS managed CMKs in your account, view their key policies, and audit their use in AWS CloudTrail logs. However, you cannot manage these CMKs, rotate them, or change their key policies. And, you cannot use AWS managed CMKs in cryptographic operations directly; the service that creates them uses them on your behalf.

AWS managed CMKs appear on the AWS managed keys page of the AWS Management Console for AWS KMS. You can also identify most AWS managed CMKs by their aliases, which have the format aws/service-name, such as aws/redshift.

You do not pay a monthly fee for AWS managed CMKs. They can be subject to fees for use in excess of the free tier, but some AWS services cover these costs for you. Incorrect options:

Create your own customer managed keys (CMKs) in AWS KMS - The AWS KMS keys that you create are customer managed keys. Customer managed keys are KMS keys in your AWS account that you create, own, and manage. You have full control over these KMS keys, including establishing and maintaining their key policies, IAM policies, and grants, enabling and disabling them, rotating their cryptographic material, adding tags, creating aliases that refer to the KMS keys, and scheduling the KMS keys for deletion. customer managed key (CMK) incur a monthly fee and a fee for use in excess of the free tier. They are counted against the AWS KMS quotas for your account. Use AWS KMS APIs to encrypt data within your own application by using the AWS Encryption SDK - AWS KMS APIs can also be accessed directly through the AWS KMS Command Line Interface or AWS SDK for programmatic access. AWS KMS APIs can also be used indirectly to encrypt data within your own applications by using the AWS Encryption SDK. This requires code changes and is not the easiest way to achieve encryption.

Use AWS owned CMK in the service you wish to use encryption - AWS owned CMKs are a

collection of CMKs that an AWS service owns and manages for use in multiple AWS accounts. Although AWS owned CMKs are not in your AWS account, an AWS service can use its AWS owned CMKs to protect the resources in your account. AWS owned CMK can be used for multiple AWS accounts.

You do not need to create or manage the AWS owned CMKs. However, you cannot view, use, track, or audit them. You are not charged a monthly fee or usage fee for AWS owned CMKs and they do not count against the AWS KMS quotas for your account.

×	An e-commerce company needs to generate custom reports and graphs every week for analyzing the product sales data. The company is looking at a tool/service that will help them analyze this data using interactive dashboards with minimal effort. The dashboards also need to be accessible from any device. Which AWS tool/service will you recommend for this use-case?	*0/1
0	Amazon Quicksight	
•	Amazon SageMaker	X
0	AWS Glue	
0	Amazon Athena	
Corr	ect answer	
•	Amazon Quicksight	

Feedback

Explanation

Correct option:

Amazon Quicksight

Amazon QuickSight is a scalable, serverless, embeddable, machine learning-powered business intelligence (BI) service built for the cloud. QuickSight lets you easily create and publish interactive BI dashboards that include Machine Learning-powered insights. QuickSight dashboards can be accessed from any device, and seamlessly embedded into your applications, portals, and websites.

With Amazon QuickSight, you can quickly embed interactive dashboards into your applications, websites, and portals. QuickSight provides a rich set of APIs and SDKs that allow you to easily customize the look and feel of the dashboards to match applications. With Amazon QuickSight, you can manage your dashboard versions, grant dashboard authoring privileges, and share usage reports with your end-customers. If your application is used by customers that belong to different teams or organizations, QuickSight ensures that their data is always siloed and secure.

Amazon QuickSight has a serverless architecture that automatically scales to tens of thousands of users without the need to set up, configure, or manage your own servers. It also ensures that your users don't have to deal with slow dashboards during peak-hours when multiple BI users are accessing the same dashboards or datasets. And with pay-persession pricing, you only pay when your users access the dashboards or reports, which makes it cost-effective for deployments with lots of users. There are no upfront costs or annual commitments for using QuickSight.

How Amazon QuickSight Works: via - https://aws.amazon.com/quicksight/ Connecting QuickSight to your Data Lakes (e.g. Amazon S3): via - https://aws.amazon.com/quicksight/

Incorrect options:

AWS Glue - AWS Glue is a serverless data integration service that makes it easy to discover, prepare, and combine data for analytics, machine learning, and application development. AWS Glue provides all of the capabilities needed for data integration, so you can start analyzing your data and putting it to use in minutes instead of months. You

should use AWS Glue to discover properties of the data you own, transform it, and prepare it for analytics. Glue can automatically discover both structured and semi-structured data stored in your data lake on Amazon S3, data warehouse in Amazon Redshift, and various databases running on AWS.

Amazon SageMaker - Amazon SageMaker is a fully managed service that provides every developer and data scientist with the ability to build, train, and deploy machine learning (ML) models quickly. SageMaker removes the heavy lifting from each step of the machine learning process to make it easier to develop high-quality models. Amazon SageMaker ensures that ML model artifacts and other system artifacts are encrypted in transit and at rest.

Amazon Athena - Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is serverless, so there is no infrastructure to manage, and you pay only for the queries that you run. Athena is easy to use. Simply point to your data in Amazon S3, define the schema, and start querying using standard SQL. Most results are delivered within seconds. With Athena, there's no need for complex ETL jobs to prepare your data for analysis. This makes it easy for anyone with SQL skills to quickly analyze large-scale datasets.

Athena is integrated out-of-the-box with AWS Glue Data Catalog, allowing you to create a unified metadata repository across various services, crawl data sources to discover schemas, and populate your Catalog with new and modified table and partition definitions, and maintain schema versioning.

As discussed in the example above, Athena can be used to analyze data, while Quicksight can be used to visualize this data via advanced interactive dashboards.

~	analyze events and identify potential security issues?	1/1
0	Amazon CloudWatch Logs, Amazon VPC Flow Logs and Amazon GuardDuty findings	
0	Amazon CloudWatch Logs, AWS CloudTrail logs and Amazon Simple Storage Service (Amazon S3) Access Logs	
•	AWS CloudTrail logs, Amazon VPC Flow Logs, and Amazon GuardDuty findings	✓
0	Amazon CloudWatch Logs, AWS CloudTrail logs and Amazon Inspector logs	

Feedback

Explanation

Correct option:

AWS CloudTrail logs, Amazon VPC Flow Logs, and Amazon GuardDuty findings Amazon Detective can analyze trillions of events from multiple data sources such as Virtual Private Cloud (VPC) Flow Logs, AWS CloudTrail, and Amazon GuardDuty, and automatically creates a unified, interactive view of your resources, users, and the interactions between them over time.

Amazon Detective conforms to the AWS shared responsibility model, which includes regulations and guidelines for data protection. Once enabled, Amazon Detective will process data from AWS CloudTrail logs, VPC Flow Logs, and Amazon GuardDuty findings for any accounts where it has been turned on.

Amazon Detective requires that you have Amazon GuardDuty enabled on your accounts for at least 48 hours before you enable Detective on those accounts. However, you can use Detective to investigate more than just your GuardDuty findings. Amazon Detective provides detailed summaries, analyses, and visualizations of the behaviors and interactions amongst your AWS accounts, EC2 instances, AWS users, roles, and IP addresses. This information can be very useful in understanding security issues or operational account activity.

How Amazon Detective Works: via - https://aws.amazon.com/detective/ Incorrect options:

Amazon CloudWatch Logs, Amazon VPC Flow Logs and Amazon GuardDuty findings Amazon CloudWatch Logs, AWS CloudTrail logs and Amazon Simple Storage Service (Amazon S3) Access Logs

Amazon CloudWatch Logs, AWS CloudTrail logs and Amazon Inspector logs These three options contradict the explanation provided above, so these options are incorrect.

✓ Which of the following AWS services is delivered globally rather than regionally?	*1/1
Amazon Elastic File System (Amazon EFS)	
AWS Cloudfront	✓
AWS Snowmobile	
Amazon Simple Storage Service (Amazon S3) buckets	

Feedback

Explanation

Correct option:

Amazon WorkSpaces

AWS offers a broad set of global cloud-based products including compute, storage, database, analytics, networking, machine learning and AI, mobile, developer tools, IoT, security, enterprise applications, and much more.

Due to the nature of the service, some AWS services are delivered globally rather than regionally, such as Amazon Route 53, Amazon Chime, Amazon WorkDocs, Amazon WorkMail, Amazon WorkSpaces, Amazon WorkLink.

Amazon WorkSpaces is a managed, secure Desktop-as-a-Service (DaaS) solution. You can use Amazon WorkSpaces to provision either Windows or Linux desktops in just a few minutes and quickly scale to provide thousands of desktops to workers across the globe. Incorrect options:

Amazon Simple Storage Service (Amazon S3) buckets - You specify an AWS Region when you create your Amazon S3 bucket and hence the S3 buckets are region-specific. For S3 on AWS Outposts, your data is stored in your Outpost on-premises environment, unless you manually choose to transfer it to an AWS Region.

Amazon Elastic File System (Amazon EFS) - Amazon Elastic File System (Amazon EFS) is AWS region-based service. You can use AWS DataSync to copy files between different AWS regions.

AWS Snowmobile - AWS Snowmobile can be made available for use with AWS services in specific AWS regions and hence is a region-specific service. Once all the data is copied into Snowmobile, Snowmobile will be returned to your designated AWS region where your data will be uploaded into the AWS storage services you have selected, such as S3 or Glacier.

✓ Which of the following AWS services can be used to connect a on-premises environment to a VPC without using the public inter	
AWS Site-to-Site VPN	
○ VPC Endpoint	
Internet Gateway	
AWS Direct Connect	✓

Feedback

Correct option:

AWS Direct Connect

AWS Direct Connect is a cloud service solution that makes it easy to establish a dedicated network connection from your premises to AWS. You can use AWS Direct Connect to establish a private virtual interface from your on-premise network directly to your Amazon VPC, providing you with a private, high bandwidth network connection between your network and your VPC. This connection is private and does not go over the public internet. It takes at least a month to establish this physical connection.

How Direct Connect Works: via - https://aws.amazon.com/directconnect/ Incorrect options:

VPC Endpoint - A VPC endpoint enables you to privately connect your VPC to supported AWS services and VPC endpoint services powered by AWS PrivateLink without requiring an internet gateway, NAT device, VPN connection, or AWS Direct Connect connection. Instances in your VPC do not require public IP addresses to communicate with resources in the service. Traffic between your VPC and the other service does not leave the Amazon network. VPC Endpoint cannot be used to privately connect on-premises data center to AWS Cloud.

Internet Gateway - An Internet Gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between your VPC and the internet. An internet gateway serves two purposes: to provide a target in your VPC route tables for internet-routable traffic and to perform network address translation (NAT) for instances. Internet Gateway cannot be used to privately connect on-premises data center to AWS Cloud.

AWS Site-to-Site VPN - AWS Site-to-Site VPN creates a secure connection between your data center or branch office and your AWS cloud resources. This connection goes over the public internet.

×	Which of the following AWS services are offered free of cost? (Select two)	*0/1
	An Elastic IP address, which is chargeable as long as it is associated with an EC instance	2
	AWS Auto Scaling	✓
	Amazon CloudWatch facilitated detailed monitoring of EC2 instances	
	Amazon EC2 Spot Instances	×
	AWS Elastic Beanstalk	
Corr	rect answer	
	AWS Auto Scaling	
	AWS Elastic Beanstalk	
E.C A T E W A T no In A d d c o tr w a	eedback xplanation orrect options: WS Elastic Beanstalk here is no additional charge for AWS Elastic Beanstalk. You pay for AWS resources (e.g. C2 instances or S3 buckets) you create to store and run your application. You only pay for hat you use, as you use it; there are no minimum fees and no upfront commitments. WS Auto Scaling here is no additional charge for AWS Auto Scaling. You pay only for the AWS resources eeded to run your applications and Amazon CloudWatch monitoring fees. Incorrect options: mazon EC2 Spot Instances - Amazon EC2 Spot Instances let you take advantage of nused EC2 capacity in the AWS cloud. Spot Instances are available at up to a 90% iscount compared to On-Demand prices. Spot Instances are, however, not free. mazon CloudWatch facilitated detailed monitoring of EC2 instances - If you enable etailed monitoring, you are charged per metric that is sent to CloudWatch. You are not harged for data storage. Data is available in 1-minute periods, as opposed to 5-minute eriods at no charge, for basic monitoring. In Elastic IP address, which is chargeable as long as it is associated with an EC2 instance are rue: The Elastic IP address is associated with an EC2 instance, The instance associated with the Elastic IP address is running, The instance has only one Elastic IP address it and the Elastic IP address is associated with an attached network interface such as a Network Load Balancer or NAT gateway.	e

✓	Which of the following statements are correct regarding the health monitoring and reporting capabilities supported by AWS Elastic Beanstalk? (Select two)	*1/1
~	The AWS Elastic Beanstalk health monitoring can determine that the environment's Auto Scaling group is available and has a minimum of at least one instance	✓
	In a single instance environment, AWS Elastic Beanstalk determines the instanc health by monitoring the Elastic Load Balancing (ELB) health settings	e's
	AWS Elastic Beanstalk provides only basic health reporting system; Combined v Elastic Load Balancing (ELB), they provide advanced health check features	/ith
	The basic health reporting system that provides information about the health of instances in an AWS Elastic Beanstalk environment does not use health checks performed by Elastic Load Balancing (ELB)	
	With basic health reporting, the AWS Elastic Beanstalk service does not publish any metrics to Amazon CloudWatch	✓

Feedback

Explanation

Correct options:

The AWS Elastic Beanstalk health monitoring can determine that the environment's Auto Scaling group is available and has a minimum of at least one instance In addition to Elastic Load Balancing health checks, AWS Elastic Beanstalk monitors resources in your environment and changes health status to red if they fail to deploy, are not configured correctly, or become unavailable. These checks confirm that: 1. The environment's Auto Scaling group is available and has a minimum of at least one instance. 2. The environment's security group is available and is configured to allow incoming traffic on port 80. 3. The environment CNAME exists and is pointing to the right load balancer. 4. In a worker environment, the Amazon Simple Queue Service (Amazon SQS) queue is being polled at least once every three minutes.

With basic health reporting, the AWS Elastic Beanstalk service does not publish any metrics to Amazon CloudWatch

With basic health reporting, the AWS Elastic Beanstalk service does not publish any metrics to Amazon CloudWatch. The CloudWatch metrics used to produce graphs on the Monitoring page of the environment console are published by the resources in your environment.

Incorrect options:

AWS Elastic Beanstalk provides only basic health reporting system; Combined with Elastic Load Balancing (ELB), they provide advanced health check features - This option has been added as a distractor.

In a single instance environment, AWS Elastic Beanstalk determines the instance's health by monitoring the Elastic Load Balancing (ELB) health settings - In a single instance or worker tier environment, AWS Elastic Beanstalk determines the instance's health by monitoring its Amazon EC2 instance status. Elastic Load Balancing health settings, including HTTP health check URLs cannot be used in these environment types. The basic health reporting system that provides information about the health of instances in an AWS Elastic Beanstalk environment does not use health checks performed by Elastic Load Balancing (ELB) - The basic health reporting system provides information about the

health of instances in an AWS Elastic Beanstalk environment based on health checks performed by Elastic Load Balancing for load-balanced environments, or Amazon Elastic Compute Cloud (Amazon EC2) for single-instance environments.

✓ Which security service of AWS is enabled for all AWS customers, by default, at no additional cost?	* 1/*
AWS Shield Standard	✓
AWS Secrets Manager	
AWS Web Application Firewall (AWS WAF)	
AWS Shield Advanced	

Feedback

Explanation

Correct option:

AWS Shield Standard

AWS Shield Standard defends against most common, frequently occurring network and transport layer DDoS attacks that target your website or applications. While AWS Shield Standard helps protect all AWS customers, you get better protection if you are using Amazon CloudFront and Amazon Route 53. All AWS customers benefit from the automatic protections of AWS Shield Standard, at no additional charge. Incorrect options:

AWS Web Application Firewall (AWS WAF) - AWS WAF is a web application firewall that lets you monitor the HTTP(S) requests that are forwarded to an Amazon CloudFront distribution, an Amazon API Gateway API, or an Application Load Balancer. AWS WAF charges based on the number of web access control lists (web ACLs) that you create, the number of rules that you add per web ACL, and the number of web requests that you receive (it is not a free service).

AWS Secrets Manager - AWS Secrets Manager helps you protect secrets needed to access your applications, services, and IT resources. The service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. With Secrets Manager, you pay based on the number of secrets stored and API calls made.

AWS Shield Advanced - AWS Shield Advanced includes intelligent DDoS attack detection and mitigation for not only for network layer (layer 3) and transport layer (layer 4) attacks but also for application layer (layer 7) attacks. AWS Shield Advanced is a paid service that provides additional protections for internet-facing applications.

×	What are the advantages that AWS Cloud offers over a traditional on- premises IT infrastructure? (Select two)	*0/1
	Trade capital expense for variable expense	
	Make a capacity decision before deploying an application, to reduce costs	
✓	Increase speed and agility by keeping servers and other required resources ready before time in your data centers	×
	Provide lower latency to applications by maintaining servers on-premises	
~	Eliminate guessing on your infrastructure capacity needs	✓
Corre	ect answer	
~	Trade capital expense for variable expense	
✓	Eliminate guessing on your infrastructure capacity needs	

✓	Which of the following is a benefit of using AWS managed services such as Amazon Relational Database Service (Amazon RDS)	*1/1
0	The customer needs to patch the underlying OS	
•	The performance of AWS managed Amazon Relational Database Service (Amazon RDS) instance is better than a customer-managed database instance	✓
0	The customer needs to manage database backups	
0	There is no need to optimize database instance type and size	

Feedback

Explanation

Correct option:

The performance of AWS managed Amazon Relational Database Service (Amazon RDS) instance is better than a customer-managed database instance

Amazon Relational Database Service (Amazon RDS) 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.

Amazon RDS provides a selection of instance types optimized to fit different relational database use cases. Instance types comprise varying combinations of CPU, memory, storage, and networking capacity and give you the flexibility to choose the appropriate mix of resources for your database to optimize the database for your use-case by selecting the correct instance type and size.

As the RDS instances are optimized for memory, performance, or I/O, therefore the performance of AWS managed Amazon Relational Database Service (Amazon RDS) instance is better than a customer-managed database instance.

Incorrect options:

The customer needs to patch the underlying OS

The customer needs to manage database backups

There is no need to optimize database instance type and size

These three options contradict the details provided earlier in the explanation, so these options are incorrect.

✓	Which of the following AWS Support plans provide access to guidance, configuration, and troubleshooting of AWS interoperability with third-party software? (Select two)	*1/1
	AWS Corporate Support	
/	AWS Enterprise Support	✓
	AWS Basic Support	
	AWS Developer Support	
~	AWS Business Support	/

Feedback

Explanation

Correct options:

AWS Enterprise Support - AWS Enterprise Support provides customers with concierge-like service where the main focus is helping the customer achieve their outcomes and find success in the cloud. With Enterprise Support, you get 24x7 technical support from high-quality engineers, tools and technology to automatically manage the health of your environment, consultative architectural guidance delivered in the context of your applications and use-cases, and a designated Technical Account Manager (TAM) to coordinate access to proactive/preventative programs and AWS subject matter experts. You get access to guidance, configuration, and troubleshooting of AWS interoperability with many common operating systems, platforms, and application stack components. AWS Business Support - You should use AWS Business Support if you have production workloads on AWS and want 24x7 phone, email and chat access to technical support and architectural guidance in the context of your specific use-cases. You get full access to AWS Trusted Advisor Best Practice Checks. You get access to guidance, configuration, and troubleshooting of AWS interoperability with many common operating systems, platforms, and application stack components.

Exam Alert:

Please review the differences between the AWS Developer Support, AWS Business Support, AWS Enterprise On-Ramp Support and AWS Enterprise Support plans as you can expect at least a couple of questions on the exam:

via - https://aws.amazon.com/premiumsupport/plans/

Incorrect options:

AWS Basic Support - The AWS Basic Support only provides access to the following: Customer Service & Communities - 24x7 access to customer service, documentation, whitepapers, and support forums. AWS Trusted Advisor - Access to the core Trusted Advisor checks and guidance to provision your resources following best practices to increase performance and improve security. AWS Health - Your Account Health Dashboard: A personalized view of the health of your AWS services, and alerts when your resources are impacted.

AWS Developer Support - You should use AWS Developer Support plan if you are testing or doing early development on AWS and want the ability to get email-based technical support during business hours. This plan also supports general guidance on how services can be used for various use cases, workloads, or applications. You do not get access to Infrastructure Event Management with this plan.

Both these plans do not support access to guidance, configuration, and troubleshooting of AWS interoperability with third-party software.

AWS Corporate Support - This is a made-up option and has been added as a distractor.

/	A research group wants to use EC2 instances to run a scientific	* 1/1
	computation application that has a fault tolerant architecture. The	
	application needs high-performance hardware disks that provide fast I/O	
	performance. As a Cloud Practitioner, which of the following storage	
	options would you recommend as the MOST cost-effective solution?	

\bigcirc	Amazon S	Simple	Storage	Service	(Amazon	S3)
------------	----------	--------	---------	---------	---------	-----

Instance Ste



Amazon Elastic Block Store (EB)

Feedback

Explanation

Correct option:

Instance Store

An instance store provides temporary block-level storage for your instance. This storage is located on disks that are physically attached to the host computer. This is a good option when you need storage with very low latency, but you don't need the data to persist when the instance terminates or you can take advantage of fault-tolerant architectures. For this use-case, the computation application itself has a fault tolerant architecture, so it can automatically handle any failures of Instance Store volumes.

As the Instance Store volumes are included as part of the instance's usage cost, therefore this is the correct option.

EC2 Instances Store Overview: via -

<u>https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/InstanceStorage.html</u> Incorrect options:

Amazon Elastic File System (Amazon EFS) - Amazon Elastic File System (Amazon EFS) provides a simple, scalable, fully managed, elastic NFS file system. EFS is not available as a hardware disk on the instance, so this option is not correct.

Amazon Elastic Block Store (EBS) - Amazon Elastic Block Store (EBS) is an easy to use, high-performance block storage service designed for use with Amazon Elastic Compute Cloud (EC2) for both throughput and transaction-intensive workloads at any scale. EBS is not available as a hardware disk on the instance, so this option is not correct.

Amazon Simple Storage Service (Amazon S3) - Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. S3 is not available as a hardware disk on the instance, so this option is not correct.

✓	An e-learning company wants to build a knowledge graph by leveraging a fully managed database. Which of the following is the best fit for this requirement?	*1/1
0	Amazon DynamoDB	
0	Amazon Relational Database Service (Amazon RDS)	
•	Amazon Neptune	✓
0	Amazon DocumentDB	

Feedback

Explanation

Correct option:

Amazon Neptune

Amazon Neptune is a fast, reliable, fully-managed graph database service that makes it easy to build and run applications that work with highly connected datasets. The core of Amazon Neptune is a purpose-built, high-performance graph database engine optimized for storing billions of relationships and querying the graph with milliseconds latency. Amazon Neptune is tailor-built for use cases like Knowledge Graphs, Identity Graphs, Fraud Detection, Recommendation Engines, Social Networking, Life Sciences, and so on. Amazon Neptune supports popular graph models Property Graph and W3C's RDF, and their respective query languages Apache TinkerPop Gremlin and SPARQL, allowing you to easily build queries that efficiently navigate highly connected datasets. Neptune powers graph use cases such as recommendation engines, fraud detection, knowledge graphs, drug discovery, and network security.

Amazon Neptune is highly available, with read-replicas, point-in-time recovery, continuous backup to Amazon S3, and replication across Availability Zones. Neptune is secure with support for HTTPS encrypted client connections and encryption at rest. Neptune is fully managed, so you no longer need to worry about database management tasks such as hardware provisioning, software patching, setup, configuration, or backups. Fraud Detection with Amazon Neptune: via - https://aws.amazon.com/neptune/ Incorrect options:

Amazon DocumentDB - Amazon DocumentDB (with MongoDB compatibility) is a fast, scalable, highly available, and fully managed document database service that supports MongoDB workloads. As a document database, Amazon DocumentDB makes it easy to store, query, and index JSON data.

Amazon DocumentDB is a non-relational database service designed from the ground-up to give you the performance, scalability, and availability you need when operating mission-critical MongoDB workloads at scale. In Amazon DocumentDB, the storage and compute are decoupled, allowing each to scale independently, and you can increase the read capacity to millions of requests per second by adding up to 15 low latency read replicas in minutes, regardless of the size of your data.

Amazon DynamoDB - Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. It's a fully managed, multiregion, multi-active, durable database with built-in security, backup and restores, and inmemory caching for internet-scale applications. DynamoDB can handle more than 10 trillion requests per day and can support peaks of more than 20 million requests per second. For highly connected datasets Amazon Neptune is a better choice. Amazon Relational Database Service (Amazon RDS) - Amazon Relational Database Service (Amazon RDS) 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. It frees you to focus on your applications so you can give them the fast performance, high availability, security, and compatibility they need. Amazon RDS is available on several database instance types - optimized for memory, performance, or I/O - and provides you with six familiar database engines to choose from, including Amazon Aurora, PostgreSQL, MySQL, MariaDB, Oracle Database, and SQL Server.

✓ Which of the following will help you control the incoming traffic to an Amazon EC2 instance?	*1/1
Security Group	✓
AWS Resource Group	
Network access control list (network ACL)	
Route Table	
Feedback	

Explanation
Correct option:
Security Group

A security group acts as a virtual firewall for your Amazon EC2 instances to control incoming and outgoing traffic. Inbound rules control the incoming traffic to your instance, and outbound rules control the outgoing traffic from your instance. When you launch an instance, you can specify one or more security groups. If you don't specify a security group, Amazon EC2 uses the default security group. You can add rules to each security group that allows traffic to or from its associated instances. You can modify the rules for a security group at any time. New and modified rules are automatically applied to all instances that are associated with the security group. When Amazon EC2 decides whether to allow traffic to reach an instance, it evaluates all of the rules from all of the security groups that are associated with the instance.

Security is a shared responsibility between AWS and you. AWS provides security groups as one of the tools for securing your instances, and you need to configure them to meet your security needs. If you have requirements that aren't fully met by security groups, you can maintain your own firewall on any of your instances in addition to using security groups. Incorrect options:

AWS Resource Group - You can use AWS Resource Groups to organize your AWS resources. Resource groups make it easier to manage and automate tasks on large numbers of resources at one time. Resource Groups feature permissions are at the account level. As long as users who are sharing your account have the correct IAM permissions, they can work with the resource groups that you create. Resource Groups are for grouping resources for managing the resources. They do not provide access to Amazon EC2 instances.

Network access control list (network ACL) - A Network access control list (network ACL) is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets. You might set up network ACLs with rules similar to your security groups in order to add an additional layer of security to your VPC. Route Table - A Route table contains a set of rules, called routes, that are used to determine where network traffic from your VPC is directed. You can explicitly associate a subnet with a particular route table. Otherwise, the subnet is implicitly associated with the main route table.

Each route in a route table specifies the range of IP addresses where you want the traffic to go (the destination) and the gateway, network interface, or connection through which to send the traffic (the target).

✓ A company wants to establish a private, dedicated connection between AWS and its on-premises data center. Which AWS service is the right choice for this requirement?	*1/1
Amazon CloudFront	
AWS Site-to-Site VPN	
Amazon API Gateway	
AWS Direct Connect	✓

Feedback

Explanation Correct option:

AWS Direct Connect

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. AWS Direct Connect does not encrypt your traffic that is in transit. AWS Direct Connect lets you establish a dedicated network connection between your network and one of the AWS Direct Connect locations. Using industry-standard 802.1g VLANs, this dedicated connection can be partitioned into multiple virtual interfaces. This allows you to use the same connection to access public resources such as objects stored in Amazon S3 using public IP address space, and private resources such as Amazon EC2 instances running within an Amazon Virtual Private Cloud (VPC) using private IP space while maintaining network separation between the public and private environments. Virtual interfaces can be reconfigured at any time to meet your changing needs. How AWS Direct Connect works: via - https://aws.amazon.com/directconnect/ Incorrect options:

AWS Site-to-Site VPN - AWS virtual private network (VPN) solutions establish secure connections between your on-premises networks, remote offices, client devices, and the AWS global network. AWS VPN is comprised of two services: AWS Site-to-Site VPN and AWS Client VPN. AWS Site-to-Site VPN creates encrypted tunnels between your network and your Amazon Virtual Private Clouds or AWS Transit Gateway(s).

Amazon CloudFront - 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 CloudFront offers the most advanced security capabilities, including field-level encryption and HTTPS support, seamlessly integrated with AWS Shield, AWS web application firewall (AWS WAF), and Amazon Route 53 to protect against multiple types of attacks including network and application layer DDoS attacks.

Amazon API Gateway - Amazon API Gateway is a fully managed service that makes it easy for developers to create, publish, maintain, monitor, and secure APIs at any scale. APIs act as the "front door" for applications to access data, business logic, or functionality from your backend services. Using API Gateway, you can create RESTful APIs and WebSocket APIs that enable real-time two-way communication applications. API Gateway supports containerized and serverless workloads, as well as web applications.

✓	Which of the following AWS services will help provision a logically isolated network for your AWS resources?	*1/1
0	Amazon Route 53	
0	AWS PrivateLink	
•	Amazon Virtual Private Cloud (Amazon VPC)	✓
\bigcirc	AWS Firewall Manager	

Feedback

Explanation

Correct option:

Amazon Virtual Private Cloud (Amazon VPC)

Amazon Virtual Private Cloud (Amazon VPC) is a service that lets you launch AWS resources in a logically isolated virtual network that you define. You have complete control over your virtual networking environment, including the selection of your own IP address range, creation of subnets, and configuration of route tables and network gateways. You can use both IPv4 and IPv6 for most resources in your virtual private cloud, helping to ensure secure and easy access to resources and applications.

As one of AWS's foundational services, Amazon VPC makes it easy to customize your VPC's network configuration. You can create a public-facing subnet for your web servers that have access to the internet. It also lets you place your backend systems, such as databases or application servers, in a private-facing subnet with no internet access. Amazon VPC lets you use multiple layers of security, including security groups and network access control lists, to help control access to Amazon EC2 instances in each subnet.

Incorrect options:

AWS PrivateLink - AWS PrivateLink provides private connectivity between Amazon VPCs and services hosted on AWS or on-premises, securely on the Amazon network. By providing a private endpoint to access your services, AWS PrivateLink ensures your traffic is not exposed to the public internet.

Amazon Route 53 - Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like www.example.com into the numeric IP addresses like 192.0.2.1 that computers use to connect to each other. Amazon Route 53 is fully compliant with IPv6 as well.

AWS Firewall Manager - AWS Firewall Manager is a security management service that allows you to centrally configure and manage firewall rules across your accounts and applications in AWS Organizations. As new applications are created, Firewall Manager makes it easy to bring new applications and resources into compliance by enforcing a common set of security rules.

✓ A company is looking for ways to make its desktop applications available to the employees from browsers on their devices/laptops. Which AWS service will help achieve this requirement without having to procure servers or maintain infrastructure?	e *1/1
Amazon WorkSpaces	
AWS Snowball	
Amazon AppStream 2.0	✓
AWS Outposts	

Feedback

Explanation
Correct option:

Amazon AppStream 2.0

Amazon AppStream 2.0 is a fully managed non-persistent application and desktop streaming service. You centrally manage your desktop applications on AppStream 2.0 and securely deliver them to any computer. You can easily scale to any number of users across the globe without acquiring, provisioning, and operating hardware or infrastructure. AppStream 2.0 is built on AWS, so you benefit from a data center and network architecture designed for the most security-sensitive organizations. Each end-user has a fluid and responsive experience because your applications run on virtual machines optimized for specific use cases and each streaming session automatically adjusts to network conditions.

Users can access the desktop applications they need at any time. AppStream 2.0 streams your applications from AWS to any computer, including Chromebooks, Macs, and PCs. AppStream 2.0 connects to your Active Directory, network, cloud storage, and file shares. Users access applications using their existing credentials and your existing security policies manage access. Extensive APIs integrate AppStream 2.0 with your IT solutions. How Amazon AppStream 2.0 Works: via - https://aws.amazon.com/appstream2/ Incorrect options:

Amazon WorkSpaces - Amazon WorkSpaces is a managed, secure Desktop-as-a-Service (DaaS) solution. You can use Amazon WorkSpaces to provision either Windows or Linux desktops in just a few minutes and quickly scale to provide thousands of desktops to workers across the globe. Amazon WorkSpaces helps you eliminate the complexity in managing hardware inventory, OS versions and patches, and Virtual Desktop Infrastructure (VDI), which helps simplify your desktop delivery strategy. With Amazon WorkSpaces, your users get a fast, responsive desktop of their choice that they can access anywhere, anytime, from any supported device.

While Amazon AppStream 2.0 helps move desktop applications to AWS Cloud, so they can be accessed from anywhere; Workspaces provides the entire Desktop environment needed for the workforce.

AWS Outposts - AWS Outposts is a fully managed service that offers the same AWS infrastructure, AWS services, APIs, and tools to virtually any data center, co-location space, or on-premises facility for a truly consistent hybrid experience. AWS Outposts is ideal for workloads that require low latency access to on-premises systems, local data processing, data residency, and migration of applications with local system interdependencies. AWS Snowball - AWS Snowball, a part of the AWS Snow Family, is an edge computing, data migration, and edge storage device that comes in two options. Snowball Edge Storage

Optimized devices provide both block storage and Amazon S3-compatible object storage, and 40 vCPUs. They are well suited for local storage and large scale data transfer.

✓ Due to regulatory guidelines, a company needs to encrypt data as passes through the different layers of its AWS architecture. The co- is reviewing the capabilities of the various AWS services and their encryption options.	ompany
Which of the below services are encrypted by default and need no intervention to enable encryption?	user
Amazon CloudWatch logs, Application Load Balancer (ALB), Amazon S	3 Glacier
AWS Organizations, Amazon EC2, AWS CloudTrail Logs	
AWS CloudTrail Logs, Amazon S3 Glacier, AWS Storage Gateway	✓
AWS Storage Gateway, Application Load Balancer (ALB), Amazon Cloud	dFront

Feedback

Explanation

Correct option:

AWS CloudTrail Logs, Amazon S3 Glacier, AWS Storage Gateway
By default, all data stored by AWS Storage Gateway in S3 is encrypted server-side with
Amazon S3-Managed Encryption Keys (SSE-S3). Also, you can optionally configure
different gateway types to encrypt stored data with AWS Key Management Service (KMS)
via the Storage Gateway API.

Data at rest stored in S3 Glacier is automatically server-side encrypted using 256-bit Advanced Encryption Standard (AES-256) with keys maintained by AWS. If you prefer to manage your own keys, you can also use client-side encryption before storing data in S3 Glacier.

By default, the log files delivered by AWS CloudTrail to your bucket are encrypted by Amazon server-side encryption with Amazon S3-managed encryption keys (SSE-S3). To provide a security layer that is directly manageable, you can instead use server-side encryption with AWS KMS-managed keys (SSE-KMS) for your CloudTrail log files. To use SSE-KMS with CloudTrail, you create and manage a KMS key, also known as a customer master key (CMK).

Incorrect options:

Amazon CloudWatch logs, Application Load Balancer (ALB), Amazon S3 Glacier -Encryption at rest and Encryption in transit is a configurable feature in Application Load Balancer.

Data protection in Elastic Load Balancing: via -

https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/data-protection.html

AWS Organizations, Amazon EC2, AWS CloudTrail Logs - AWS Organizations helps you centrally manage and govern your environment as you grow and scale your AWS resources.

Instance storage provides temporary block-level storage for Amazon EC2 instances. This storage is located on disks attached physically to a host computer. By default, files stored on these disks are not encrypted. Amazon Elastic Block Store (Amazon EBS) volumes attached to EC2 instances are not encrypted by default either.

AWS Storage Gateway, Application Load Balancer (ALB), Amazon CloudFront - Amazon CloudFront does not encrypt data by default. But, encryption can be enabled if needed, by configuring encryption in transit and encryption at rest, for your distributions.

More information on data protection in Amazon CloudFront: via - https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/data-protection-summary.html

~	Scaling group's (ASG) predictive scaling can be effectively used to maintain the required number of AWS resources?	171
0	To help configure a CloudWatch Amazon Simple Queue Service (Amazon SQS) metric like ApproximateNumberOfMessagesVisible for scaling the group based o the value of the metric	n
•	To manage a workload that exhibits recurring load patterns that are specific to the day of the week or the time of day	/
0	To help configure a scaling policy to keep the average aggregate CPU utilization o your Auto Scaling group at 40 percent	f
0	To manage a fixed number of resources in the Auto Scaling group	

Feedback

Explanation

Correct option:

To manage a workload that exhibits recurring load patterns that are specific to the day of the week or the time of day

Predictive scaling uses machine learning to predict capacity requirements based on historical data from CloudWatch. The machine learning algorithm consumes the available historical data and calculates capacity that best fits the historical load pattern, and then continuously learns based on new data to make future forecasts more accurate. Predictive scaling is well suited for situations where you have:

- 1. Cyclical traffic, such as high use of resources during regular business hours and low use of resources during evenings and weekends
- 2. Recurring on-and-off workload patterns, such as batch processing, testing, or periodic data analysis
- 3. Applications that take a long time to initialize, causing a noticeable latency impact on application performance during scale-out events Incorrect options:

To help configure a scaling policy to keep the average aggregate CPU utilization of your Auto Scaling group at 40 percent - Target tracking scaling policy is the best fit for this use case. With target tracking scaling policies, you select a scaling metric and set a target value. Amazon EC2 Auto Scaling creates and manages the CloudWatch alarms that trigger the scaling policy and calculates the scaling adjustment based on the metric and the target value. The scaling policy adds or removes capacity as required to keep the metric at, or close to, the specified target value.

To help configure a CloudWatch Amazon Simple Queue Service (Amazon SQS) metric like ApproximateNumberOfMessagesVisible for scaling the group based on the value of the metric - Target tracking scaling policy with backlog per instance metric is the best fit for this use case. That's because the number of messages in your SQS queue does not solely define the number of instances needed. The number of instances in your Auto Scaling group can be driven by multiple factors, including how long it takes to process a message and the acceptable amount of latency (queue delay).

To manage a fixed number of resources in the Auto Scaling group - Maintaining current instance levels at all times to a fixed number is a basic way to configure an ASG. Predictive Scaling is not needed to maintain a fixed number of resources.

~	AWS Web Application Firewall (WAF) offers protection from common web exploits at which layer?	* 1/1
	Layer 4 and 7	
	Layer 4	
	Layer 3	
(Layer 7	✓
	Feedback	
	Explanation Correct option: Layer 7 AWS WAF is a web application firewall that lets you monitor the HTTP and HTTPS requests that are forwarded to an Amazon API Gateway API, Amazon CloudFront or an	
	Application Load Balancer. HTTP and HTTPS requests are part of the Application layer, which is layer 7. Incorrect options:	
	Layer 3 - Layer 3 is the Network layer and this layer decides which physical path data will take when it moves on the network. AWS Shield offers protection at this layer. WAF does	

Layer 4 - Layer 4 is the Transport layer and this layer data transmission occurs using TCP or UDP protocols. AWS Shield offers protection at this layer. WAF does not offer protection at this layer.

Layer 4 and 7 - This option has been added as a distractor.

✓	An e-commerce application sends out messages to a downstream application whenever an order is created. The downstream application processes the messages and updates its own systems. Currently, the two applications directly communicate with each other. Which service will you use to decouple this architecture, without any communication loss between the two systems?	*1/1
0	AWS Lambda	
•	Amazon Simple Queue Service (SQS)	✓
0	Amazon Kinesis Data Streams	
0	Amazon Simple Notification Service (Amazon SNS)	

Feedback

Explanation

Correct option:

Amazon Simple Queue Service (SQS)

Amazon Simple Queue Service (SQS) is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SQS eliminates the complexity and overhead associated with managing and operating message-oriented middleware and empowers developers to focus on differentiating work. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be available. Get started with SQS in minutes using the AWS console, Command Line Interface or SDK of your choice, and three simple commands.

Amazon SQS uses a pull mechanism, i.e. the messages in the queue are available till a registered process pulls the messages to process them. This decouples the architecture since the second application does not need to be available all the time to process messages coming from application one.

Incorrect options:

Amazon Simple Notification Service (Amazon SNS) - Amazon Simple Notification Service (Amazon SNS) is a fully managed messaging service for both application-to-application (A2A) and application-to-person (A2P) communication. The A2A pub/sub functionality provides topics for high-throughput, push-based, many-to-many messaging between distributed systems, microservices, and event-driven serverless applications. Amazon SNS allows applications to send time-critical messages to multiple subscribers through a "push" mechanism, which implies that the receiving applications have to be present and running to receive the messages. There is a scope for message loss in SNS and hence SQS is the right choice for this use case.

Amazon Kinesis Data Streams - Amazon Kinesis Data Streams enables you to build custom applications that process or analyze streaming data for specialized needs. You can continuously add various types of data such as clickstreams, application logs, and social media to an Amazon Kinesis data stream from hundreds of thousands of sources. Within seconds, the data will be available for your Amazon Kinesis Applications to read and process from the stream. Kinesis Data streams are overkill for this use-case since Kinesis Data Streams are meant for real-time processing of streaming big data. AWS Lambda - AWS Lambda is a serverless compute service that lets you run code without provisioning or managing servers, creating workload-aware cluster scaling logic,

maintaining event integrations, or managing runtimes. With Lambda, you can run code for virtually any type of application or backend service - all with zero administration. Just upload your code as a ZIP file or container image, and Lambda automatically and precisely allocates compute execution power and runs your code based on the incoming request or event, for any scale of traffic. Lambda functions cannot self invocate and need to be called. Also, Lambda functions cannot store data for later processing.

✓	A blogging company is looking at an easy to use solution to host WordPress blogs. The company needs a cost-effective, readily available solution without the need to manage the configurations for servers or the databases.	*1/1
	Which AWS service will help you achieve this functionality?	
0	Host the application directly on Amazon S3	
0	Amazon Elastic Compute Cloud (EC2) with Amazon S3 for storage	
0	AWS Fargate	
•	Amazon Lightsail	✓

Feedback

Explanation

Correct option:

Amazon Lightsail

Amazon Lightsail is the easiest way to get started with AWS for developers, small businesses, students, and other users who need a solution to build and host their applications on the cloud. Lightsail provides developers with compute, storage, and networking capacity and capabilities to deploy and manage websites and web applications in the cloud. Lightsail includes everything you need to launch your project quickly – virtual machines, containers, databases, CDN, load balancers, DNS management, etc. – for a low, predictable monthly price.

You can get preconfigured virtual private server (VPS) plans that include everything to easily deploy and manage your application. Amazon Lightsail is best suited to projects that require a few virtual private servers and users who prefer a simple management interface. Common use cases for Lightsail include running websites, web applications, blogs, e-commerce sites, simple software, and more.

Also referred to as a bundle, a Lightsail plan includes a virtual server with a fixed amount of memory (RAM) and compute (vCPUs), SSD-based storage (disks), and a free data transfer allowance. Amazon Lightsail plans also offer static IP addresses (5 per account) and DNS management (3 domain zones per account). Lightsail plans are charged on an hourly, on-demand basis, so you only pay for a plan when you're using it.

Amazon Lightsail offers a number of preconfigured, one-click-to-launch operating systems, development stacks, and web applications, including Linux and Windows OS, WordPress, LAMP, CentOS, and more.

Incorrect options:

AWS Fargate - AWS Fargate is a serverless compute engine for containers that work with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service (EKS). Fargate makes it easy for you to focus on building your applications. Fargate removes the need to provision and manage servers, lets you specify and pay for resources per application, and improves security through application isolation by design. Fargate is meant for container applications that you wish to host without having to manage the servers such as EC2 instances.

Amazon Elastic Compute Cloud (EC2) with Amazon S3 for storage - Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers. Amazon EC2's simple web service interface allows you to obtain and

configure capacity with minimal friction. It provides you with complete control of your computing resources and lets you run on Amazon's proven computing environment. Amazon EC2 instances need to be managed by the customers and hence is the wrong choice for the given scenario.

Host the application directly on Amazon S3 - Amazon S3 does not support compute capacity to generate dynamic content. Only static web applications can be hosted on Amazon S3.

×	Which member of the AWS Snow Family is used by the Edge computing applications for IoT use cases for facilitating the collection and processing of data to gain immediate insights and then transfer the data to AWS?	*0/1
0	AWS Snowposts	
•	AWS Snowmobile	×
0	AWS Snowcone	
0	AWS Snowball Edge Storage Optimized	
Corr	ect answer	
•	AWS Snowcone	

Feedback

Explanation
Correct option:
AWS Snowcone

AWS Snowcone is the smallest member of the AWS Snow Family of edge computing, edge storage, and data transfer devices, weighing in at 4.5 pounds (2.1 kg) with 8 terabytes of usable storage. Snowcone is ruggedized, secure, and purpose-built for use outside of a traditional data center. Its small form factor makes it a perfect fit for tight spaces or where portability is a necessity and network connectivity is unreliable. You can use Snowcone in backpacks on first responders, or for IoT, vehicular, and drone use cases. You can execute compute applications on the edge, and you can ship the device with data to AWS for offline data transfer, or you can transfer data online with AWS DataSync from edge locations.

Like AWS Snowball, Snowcone has multiple layers of security and encryption. You can use either of these services to run edge computing workloads, or to collect, process, and transfer data to AWS. Snowcone is designed for data migration needs up to 8 terabytes per device and from space-constrained environments where AWS Snowball devices will not fit.

How AWS Snowcone works: via - https://aws.amazon.com/snowcone/ Feature comparison in members of Snow Family: via - https://aws.amazon.com/snow/#Feature_comparison

Incorrect options:

AWS Snowball Edge Storage Optimized - AWS Snowball, a part of the AWS Snow Family, is an edge computing, data migration, and edge storage device that comes in two options. Snowball Edge Storage Optimized devices provide both block storage and Amazon S3-compatible object storage, and 40 vCPUs. They are well suited for local storage and large scale data transfer.

AWS Snowball Edge Compute Optimized devices provide 52 vCPUs, block and object storage, and an optional GPU for use cases like advanced machine learning and full-motion video analysis in disconnected environments. You can use these devices for data collection, machine learning and processing, and storage in environments with intermittent connectivity or in extremely remote locations before shipping them back to AWS. AWS Snowposts - This is a made-up option, used only as a distractor.

AWS Snowmobile- AWS Snowmobile is an Exabyte-scale data transfer service used to move extremely large amounts of data to AWS. You can transfer up to 100PB per

Snowmobile, a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck. Snowmobile makes it easy to move massive volumes of data to the cloud, including video libraries, image repositories, or even a complete data center migration. Transferring data with Snowmobile is more secure, fast and cost effective.

✓ A gaming company needs compute and storage services close to ed locations in order to ensure ultra-low latency for end-users and device that connect through mobile networks. Which AWS service is the befor this requirement?	ces
AWS Wavelength	✓
AWS Snowmobile	
AWS Outposts	
AWS Snowball Edge	

Feedback

Explanation
Correct option:
AWS Wavelength

AWS Wavelength is an AWS Infrastructure offering optimized for mobile edge computing applications. Wavelength Zones are AWS infrastructure deployments that embed AWS compute and storage services within cloud service provider (CSP) data centers at the edge of the 5G network, so application traffic from 5G devices can reach application servers running in Wavelength Zones without leaving the telecommunications network. This avoids the latency that would result from application traffic having to traverse multiple hops across the Internet to reach their destination, enabling customers to take full advantage of the latency and bandwidth benefits offered by modern 5G networks. AWS enterprise customers that build applications to serve their own use-cases such as IoT, live media production, and industrial automation can use Wavelength to deliver lowlatency solutions. Customers with edge data processing needs such as image and video recognition, inference, data aggregation, and responsive analytics can use Wavelength to perform low-latency operations and processing right where their data is generated, reducing the need to move large amounts of data to be processed in centralized locations. How AWS Wavelength works: via - https://aws.amazon.com/wavelength/ Incorrect options:

AWS Outposts - AWS Outposts is designed for workloads that need to remain on-premises due to latency requirements, where customers want that workload to run seamlessly with the rest of their other workloads in AWS. AWS Outposts are fully managed and configurable compute and storage racks built with AWS-designed hardware that allow customers to run compute and storage on-premises, while seamlessly connecting to AWS's broad array of services in the cloud.

You should also note another service called AWS Local Zones, which is a new type of AWS infrastructure designed to run workloads that require single-digit millisecond latency in more locations, like video rendering and graphics intensive, virtual desktop applications. Not every customer wants to operate their own on-premises data center, while others may be interested in getting rid of their local data center entirely. Local Zones allow customers to gain all the benefits of having compute and storage resources closer to end-users, without the need to own and operate their own data center infrastructure.

AWS Snowball Edge - AWS Snowball Edge is a type of Snowball device with on-board storage and compute power for select AWS capabilities. Snowball Edge can do local processing and edge-computing workloads in addition to transferring data between your local environment and the AWS Cloud. Snowball edge cannot be used to optimize connections through mobile networks.

AWS Snowmobile - AWS Snowmobile is an Exabyte-scale data transfer service used to

move extremely large amounts of data to AWS. You can transfer up to 100PB per Snowmobile, a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck. Snowmobile makes it easy to move massive volumes of data to the cloud, including video libraries, image repositories, or even a complete data center migration. Transferring data with Snowmobile is more secure, fast and cost effective. Snowmobile cannot be used to optimize connections through mobile networks

✓	According to the AWS Cloud Adoption Framework (AWS CAF), what are two tasks that a company should perform when planning to migrate to the AWS Cloud and aiming to become more responsive to customer inquiries and feedback as part of their organizational transformation? (Select two)	*1/1
	Create new analytical insights with existing products and services	
	Organize your teams around bureaucratic design principles	
	Leverage legacy infrastructure for cost efficiencies	
	Organize your teams around products and value streams	✓
/	Leverage agile methods to rapidly iterate and evolve	/

Feedback

Correct options:

The AWS Cloud Adoption Framework (AWS CAF) leverages AWS experience and best practices to help you digitally transform and accelerate your business outcomes through innovative use of AWS. AWS CAF identifies specific organizational capabilities that underpin successful cloud transformations. These capabilities provide best practice guidance that helps you improve your cloud readiness. AWS CAF groups its capabilities in six perspectives: Business, People, Governance, Platform, Security, and Operations. Organize your teams around products and value streams

Leverage agile methods to rapidly iterate and evolve

Using the AWS Cloud Adoption Framework (AWS CAF), you can reimagine how your business and technology teams create customer value and meet your strategic intent. Organizing your teams around products and value streams while leveraging agile methods to rapidly iterate and evolve will help you become more responsive and customer centric. Incorrect options:

Leverage legacy infrastructure for cost efficiencies

Create new analytical insights with existing products and services

Organize your teams around bureaucratic design principles

These three options are not in agreement with the tasks outlined by the AWS Cloud Adoption Framework (AWS CAF) to become more responsive to customer inquiries and feedback, hence these options are incorrect.

Reference:

https://aws.amazon.com/cloud-adoption-framework/

★ A company is planning to move their traditional CRM application running on MySQL to an AWS database service. Which database service is the right fit for this requirement?	*0/1
Amazon DynamoDB	
Amazon ElastiCache	×
Amazon Neptune	
Amazon Aurora	
Correct answer	
Amazon Aurora	

Feedback

Explanation
Correct option:

Amazon Aurora

Amazon Aurora is a relational database engine that combines the speed and reliability of high-end commercial databases with the simplicity and cost-effectiveness of open-source databases. Amazon Aurora MySQL delivers up to five times the performance of MySQL without requiring any changes to most MySQL applications; similarly, Amazon Aurora PostgreSQL delivers up to three times the performance of PostgreSQL. Amazon RDS manages your Amazon Aurora databases, handling time-consuming tasks such as provisioning, patching, backup, recovery, failure detection, and repair. You pay a simple monthly charge for each Amazon Aurora database instance you use. There are no upfront costs or long-term commitments required.

Amazon Aurora features a distributed, fault-tolerant, self-healing storage system that autoscales up to 128TB per database instance. It delivers high performance and availability with up to 15 low-latency read replicas, point-in-time recovery, continuous backup to Amazon S3, and replication across three Availability Zones (AZs).

You can use the standard "mysqldump" utility to export data from MySQL and "mysqlimport" utility to import data to Amazon Aurora, and vice-versa. You can also use Amazon RDS's DB Snapshot migration feature to migrate an RDS MySQL DB Snapshot to Amazon Aurora using the AWS Management Console. Migration completes for most customers in under an hour, though the duration depends on format and data set size. Incorrect options:

Amazon DynamoDB - Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. It's a fully managed, multi-region, multi-active, durable database with built-in security, backup and restore, and inmemory caching for internet-scale applications. DynamoDB can handle more than 10 trillion requests per day and can support peaks of more than 20 million requests per second. DynamoDB is not for relational databases.

Amazon Neptune - Amazon Neptune is a fast, reliable, fully-managed graph database service that makes it easy to build and run applications that work with highly connected datasets. The core of Amazon Neptune is a purpose-built, high-performance graph database engine optimized for storing billions of relationships and querying the graph with milliseconds latency. Amazon Neptune is tailor-built for use cases like Knowledge Graphs, Identity Graphs, Fraud Detection, Recommendation Engines, Social Networking, Life Sciences, and so on. Amazon Neptune is not for relational databases.

Amazon ElastiCache - Amazon ElastiCache allows you to seamlessly set up, run, and scale popular open-source compatible in-memory data stores in the cloud. Build data-intensive apps or boost the performance of your existing databases by retrieving data from high throughput and low latency in-memory data stores. ElastiCache however, is not a relational database solution.

X

Feedback

Explanation

Correct option:

AWS Business Support - You should use AWS Business Support if you have production workloads on AWS and want 24x7 phone, email and chat access to technical support and architectural guidance in the context of your specific use-cases. You get full access to AWS Trusted Advisor Best Practice Checks. You also get access to Infrastructure Event Management for an additional fee.

Incorrect options:

AWS Developer Support - You should use AWS Developer Support if you are testing or doing early development on AWS and want the ability to get email-based technical support during business hours as well as general architectural guidance as you build and test. This plan only supports general architectural guidance.

AWS Enterprise Support - AWS Enterprise Support provides customers with concierge-like service where the main focus is helping the customer achieve their outcomes and find success in the cloud. With Enterprise Support, you get 24x7 technical support from high-quality engineers, tools and technology to automatically manage the health of your environment, consultative review and guidance based on your applications, and a designated Technical Account Manager (TAM) to coordinate access to proactive/preventative programs and AWS subject matter experts. This plan supports architectural guidance contextual to your application.

AWS Enterprise On-Ramp Support - You should use the AWS Enterprise On-Ramp Support plan if you have production/business critical workloads in AWS and want 24x7 access to technical support and need expert guidance to grow and optimize in the Cloud. This plan supports architectural guidance contextual to your application (one per year). Reference:

★ Which tool/service will help you get a forecast of your spending for the next 12 months?	*0/1
AWS Cost Explorer	
AWS Pricing Calculator	
Consolidated Billing of AWS Organizations	×
AWS Marketplace	
Correct answer	
AWS Cost Explorer	

Feedback

Explanation

Correct option:

AWS Cost Explorer

AWS Cost Explorer lets you explore your AWS costs and usage at both a high level and at a detailed level of analysis, and empowering you to dive deeper using a number of filtering dimensions (e.g., AWS Service, Region, Member Account, etc.) AWS Cost Explorer also gives you access to a set of default reports to help you get started, while also allowing you to create custom reports from scratch.

You can explore your usage and costs using the main graph, the Cost Explorer cost, and usage reports, or the Cost Explorer RI report. You can view data for up to the last 12 months, forecast how much you're likely to spend for the next 12 months, and get recommendations for what Reserved Instances to purchase. You can use Cost Explorer to identify areas that need further inquiry and see trends that you can use to understand your costs.

You can view your costs and usage using the Cost Explorer user interface free of charge. You can also access your data programmatically using the Cost Explorer API. When you first sign up for Cost Explorer, AWS prepares the data about your costs for the current month and the last 12 months and then calculates the forecast for the next 12 months. The current month's data is available for viewing in about 24 hours. The rest of your data takes a few days longer. Cost Explorer updates your cost data at least once every 24 hours. After you sign up, Cost Explorer can display up to 12 months of historical data (if you have that much), the current month, and the forecasted costs for the next 12 months.

Incorrect options:

Consolidated Billing of AWS Organizations - AWS products and services are designed to accommodate every size of the company, from small start-ups to enterprises. If your company is large or likely to grow, you might want to set up multiple AWS accounts that reflect your company's structure. If you create multiple accounts, you can use the Consolidated Billing feature of AWS Organizations to combine all member accounts under a management account and receive a single bill.

AWS Pricing Calculator - AWS Pricing Calculator lets you explore AWS services and create an estimate for the cost of your use cases on AWS. You can model your solutions before building them, explore the price points and calculations behind your estimate, and find the available instance types and contract terms that meet your needs. This enables you to make informed decisions about using AWS. You cannot use this service to get a forecast of your spending for the next 12 months.

AWS Marketplace - AWS Marketplace is a digital catalog with thousands of software listings from independent software vendors that make it easy to find, test, buy, and deploy software that runs on AWS.

×	The DevOps team at an e-commerce company is trying to debug performance issues for its serverless application built using a microservices architecture. As a Cloud Practitioner, which AWS service would you recommend addressing this use-case?	*0/1
C) Amazon Pinpoint	
C	AWS X-Ray	
C) AWS CloudFormation	
•) Advisor	×
Cor	rect answer	
	AWS X-Ray	

Feedback

Explanation
Correct option:

AWS X-Ray

You can use AWS X-Ray to analyze and debug serverless and distributed applications such as those built using a microservices architecture. With X-Ray, you can understand how your application and its underlying services are performing to identify and troubleshoot the root cause of performance issues and errors.

How AWS X-Ray Works: via - https://aws.amazon.com/xray/ Incorrect options:

AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices on cost optimization, security, fault tolerance, service limits and performance improvement. Whether establishing new workflows, developing applications, or as part of ongoing improvement, recommendations provided by Trusted Advisor regularly help keep your solutions provisioned optimally. Trusted Advisor cannot be used to debug performance issues for this serverless application built using a microservices architecture. Amazon Pinpoint - Amazon Pinpoint allows marketers and developers to deliver customercentric engagement experiences by capturing customer usage data to draw real-time insights. Pinpoint cannot be used to debug performance issues for this serverless application built using a microservices architecture.

AWS CloudFormation - AWS CloudFormation allows you to use programming languages or a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across all Regions and accounts. Think infrastructure as code; think CloudFormation. CloudFormation cannot be used to debug performance issues for this serverless application built using a microservices architecture.

How Amazon Pinpoint Works: via - https://aws.amazon.com/pinpoint/

×	Which free tool helps to review the state of your workloads and compares them to the latest AWS architectural best practices after you have answered a series of questions about your workload?	*0/1
C	AWS Trusted Advisor AWS Technical Account Manager (TAM)	~
Cor	AWS Well-Architected Framework AWS Well-Architected Tool rect answer	X
) AWS Well-Architected Tool	

Feedback

Explanation

Correct option:

AWS Well-Architected Tool

The AWS Well-Architected Tool helps you review the state of your workloads and compares them to the latest AWS architectural best practices. The tool is based on the AWS Well-Architected Framework, developed to help cloud architects build secure, high-performing, resilient, and efficient application infrastructure.

To use this free tool, available in the AWS Management Console, just define your workload and answer a set of questions regarding operational excellence, security, reliability, performance efficiency, and cost optimization. The AWS Well-Architected Tool then provides a plan on how to architect for the cloud using established best practices. The AWS Well-Architected Tool gives you access to knowledge and best practices used by AWS architects, whenever you need it. You answer a series of questions about your workload, and the tool delivers an action plan with step-by-step guidance on how to build better workloads for the cloud.

How AWS Well-Architected Tool works: via - https://aws.amazon.com/well-architected-tool/

Incorrect options:

AWS Well-Architected Framework - AWS Well-Architected Framework helps cloud architects build secure, high-performing, resilient, and efficient infrastructure for their applications and workloads. Based on six pillars — operational excellence, security, reliability, performance efficiency, cost optimization and sustainability — AWS Well-Architected provides a consistent approach for customers and partners to evaluate architectures, and implement designs that can scale over time. This is a framework based on which Well-Architected Tool and AWS Trusted Advisor offer guidance, suggestions and improvements.

AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices. Trusted Advisor checks help optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits. Whether establishing new workflows, developing applications, or as part of ongoing improvement, take advantage of the recommendations provided by Trusted Advisor on a regular basis to help keep your solutions provisioned optimally.

While AWS Trusted advisor checks are based on the support plan the customer has. Both Basic and Developer support plans have access to the 7 core Trusted Advisor checks.

Unlike documentation-based guidance (like AWS Well-Architected Tool), this tool provides recommendations against AWS Well Architected Framework best practices and is able to track against your current AWS architecture.

AWS Technical Account Manager (TAM) - With AWS Enterprise Support, you get 24x7 technical support from high-quality engineers, tools, and technology to automatically manage the health of your environment, consultative architectural guidance delivered in the context of your applications and use-cases, and a designated Technical Account Manager (TAM).

A Technical Account Manager (TAM) is your designated technical point of contact who helps you onboard, provides advocacy and guidance to help plan and build solutions using best practices, coordinates access to subject matter experts, assists with case management, presents insights and recommendations on your AWS spend, workload optimization, and event management, and proactively keeps your AWS environment healthy.

×	A company is looking at a service/tool to automate and minimize the time spent on keeping the server images up-to-date. These server images are used by Amazon Elastic Compute Cloud (Amazon EC2) instances as well as the on-premises systems.	*0/1
	Which AWS service will help achieve the company's need?	
0	AWS Systems Manager (Amazon Simple Systems Manager (SSM))	
	AWS CloudFormation templates	

Amazon EC2 Image Builder

Amazon EC2 Amazon Machine Image (AMI)

Correct answer

Amazon EC2 Image Builder

Feedback

Explanation

Correct option:

Amazon EC2 Image Builder

Amazon EC2 Image Builder simplifies the building, testing, and deployment of Virtual Machine and container images for use on AWS or on-premises.

Keeping Virtual Machine (VM) and container images up-to-date can be time-consuming, resource-intensive, and error-prone. Currently, customers either manually update and snapshot VMs or have teams that build automation scripts to maintain images. Amazon EC2 Image Builder significantly reduces the effort of keeping images up-to-date and secure by providing a simple graphical interface, built-in automation, and AWS-provided security settings. With Image Builder, there are no manual steps for updating an image nor do you have to build your own automation pipeline.

How to use Amazon EC2 Image Builder to automate server image creation: via - https://aws.amazon.com/image-builder/

Incorrect options:

Amazon EC2 Amazon Machine Image (AMI) - An Amazon Machine Image (AMI) provides the information required to launch an instance. You must specify an AMI when you launch an EC2 instance. An Amazon Machine Image (AMI) is the basic unit of deployment in Amazon EC2 and is one of the types of images you can create with Image Builder. AWS CloudFormation templates - AWS CloudFormation simplifies provisioning and management on AWS. You can create templates for the service or application architectures you want and have AWS CloudFormation use those templates for quick and reliable provisioning of the services or applications.

AWS Systems Manager (Amazon Simple Systems Manager (SSM)) - AWS Systems Manager (formerly known as SSM) is an AWS service that you can use to view and control your infrastructure on AWS. Using the Systems Manager console, you can view operational data from multiple AWS services and automate operational tasks across your AWS resources.

Instances used to build images and run tests using Image Builder must have access to the Systems Manager service. All build activity is orchestrated by SSM Automation. The SSM Agent will be installed on the source image if it is not already present, and it will be

X

removed before the image is created. References:

✓	Which AWS Route 53 routing policy would you use to route traffic to multiple resources and also choose how much traffic is routed to each resource?	*1/1
•	Weighted routing	✓
0	latency-based routing	
0	Failover routing	

Feedback

Explanation

Correct option:

Weighted routing

Simple routing

Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like www.example.com into the numeric IP addresses like 192.0.2.1 that computers use to connect to each other.

Weighted routing lets you associate multiple resources with a single domain name (example.com) or subdomain name (acme.example.com) and choose how much traffic is routed to each resource. This can be useful for a variety of purposes, including load balancing and testing new versions of software. To configure weighted routing, you create records that have the same name and type for each of your resources. You assign each record a relative weight that corresponds with how much traffic you want to send to each resource. Amazon Route 53 sends traffic to a resource based on the weight that you assign to the record as a proportion of the total weight for all records in the group. Route 53 Routing Policy Overview: via -

<u>https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html</u> Incorrect options:

Failover routing - This routing policy is used when you want to configure active-passive failover.

Simple routing - With simple routing, you typically route traffic to a single resource, for example, to a web server for your website.

latency-based routing - This routing policy is used when you have resources in multiple AWS Regions and you want to route traffic to the region that provides the best latency.

★ Which of the following statements are CORRECT regarding the AWS VPC service? (Select two)	*0/1
A Security Group can have allow rules only	
A network access control list (network ACL) can have allow rules only	×
A Network Address Translation gateway (NAT gateway) is managed by AWS	✓
A Network Address Translation instance (NAT instance) is managed by AWS	
A Security Group can have both allow and deny rules	
Correct answer	
A Security Group can have allow rules only	
A Network Address Translation gateway (NAT gateway) is managed by AWS	

Feedback

Correct options:

A Security Group can have allow rules only

A Network Address Translation gateway (NAT gateway) is managed by AWS
A security group acts as a virtual firewall for your instance to control inbound and
outbound traffic. Security groups act at the instance level, not at the subnet level. You can
specify allow rules, but not deny rules. You can specify separate rules for inbound and
outbound traffic.

Security Group Overview: via -

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html

A network access control list (network ACL) is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets (i.e. it works at subnet level). A network ACL has separate inbound and outbound rules, and each rule can either allow or deny traffic.

network access control list (network ACL) Overview: via -

https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html

You can use a network address translation (NAT) gateway or a Network Address
Translation instance (NAT instance) to enable instances in a private subnet to connect to
the internet or other AWS services, but prevent the internet from initiating a connection
with those instances. Network Address Translation gateway (NAT gateway) is managed by
AWS but Network Address Translation instance (NAT instance) is managed by you.
Please see this comparison table for differences between Network Address Translation
gateway (NAT gateway) and Network Address Translation instance (NAT instance): via https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-comparison.html
Incorrect options:

A Security Group can have both allow and deny rules

A Network Address Translation instance (NAT instance) is managed by AWS

A network access control list (network ACL) can have allow rules only

These three options contradict the details provided earlier in the explanation, so these options are incorrect.

References:

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html

✓	Per the AWS Shared Responsibility Model, management of which of the	* 1/1
	following AWS services is the responsibility of the customer?	

A	mazon	Elastic	Compute	Cloud	(Amazon	EC2)
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/

\bigcirc	Amazon	DynamoDE	3
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- Amazon Simple Storage Service (Amazon S3)
- AWS Elastic Beanstalk

Feedback

Explanation

Correct option:

Amazon Elastic Compute Cloud (Amazon EC2)

Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages, and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates. "Security of the Cloud" is the responsibility of AWS - AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud. This infrastructure is composed of the hardware, software, networking, and facilities that run AWS Cloud services.

"Security in the Cloud" is the responsibility of the customer. Customer responsibility will be determined by the AWS Cloud services that a customer selects. This determines the amount of configuration work the customer must perform as part of their security responsibilities. For example, a service such as Amazon Elastic Compute Cloud (Amazon EC2) is categorized as Infrastructure as a Service (laaS) and, as such, requires the customer to perform all of the necessary security configuration and management tasks. Customers that deploy an Amazon EC2 instance are responsible for the management of the guest operating system (including updates and security patches), any application software or utilities installed by the customer on the instances, and the configuration of the AWS-provided firewall (called a security group) on each instance.

Incorrect options:

Amazon Simple Storage Service (Amazon S3)

Amazon DynamoDB

AWS Elastic Beanstalk

For abstracted services, such as Amazon S3, Amazon DynamoDB and for managed services such as AWS Elastic Beanstalk, AWS operates the infrastructure layer, the operating system, and platforms, and customers access the endpoints to store and retrieve data. Customers are responsible for managing their data (including encryption options), classifying their assets, and using IAM tools to apply the appropriate permissions.

✓ A silicon valley based healthcare startup stores anonymized patient health data on Amazon S3. The CTO further wants to ensure that any sensitive data on S3 is discovered and identified to prevent any sensi data leaks. As a Cloud Practitioner, which AWS service would you recommend addressing this use-case?	
AWS Glue	
Amazon Macie	✓
Polly	
AWS Secrets Manager	

Feedback

Explanation
Correct option:
Amazon Macie

Amazon Macie is a fully managed data security and data privacy service that uses machine learning and pattern matching to discover and protect your sensitive data in AWS. Macie automatically provides an inventory of Amazon S3 buckets including a list of unencrypted buckets, publicly accessible buckets, and buckets shared with AWS accounts outside those you have defined in AWS Organizations. Then, Macie applies machine learning and pattern matching techniques to the buckets you select to identify and alert you to sensitive data, such as personally identifiable information (PII).

How Macie Works: via - https://aws.amazon.com/macie/ Incorrect options:

AWS Glue - AWS Glue is a fully managed extract, transform, and load (ETL) service that makes it easy for customers to prepare and load their data for analytics. AWS Glue job is meant to be used for batch ETL data processing. It cannot be used to discover and protect your sensitive data in AWS.

Amazon Polly - 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. It cannot be used to discover and protect your sensitive data in AWS.

AWS Secrets Manager - AWS Secrets Manager helps you protect secrets needed to access your applications, services, and IT resources. The service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. Users and applications retrieve secrets with a call to Secrets Manager APIs, eliminating the need to hardcode sensitive information in plain text. It cannot be used to discover and protect your sensitive data in AWS.

✓ A company needs a storage solution for a project wherein the data is accessed less frequently but needs rapid access when required. Which S3 storage class is the MOST cost-effective for the given use-case?	*1/1
Amazon S3 Standard-Infrequent Access (S3 Standard-IA)	✓
Amazon S3 Standard	
Amazon S3 Glacier (S3 Glacier)	
Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering)	

Feedback

Explanation

Correct option:

Amazon S3 Standard-Infrequent Access (S3 Standard-IA)

Amazon S3 Standard-Infrequent Access (S3 Standard-IA) is for data that is accessed less frequently, but requires rapid access when needed. S3 Standard-IA offers the high durability, high throughput, and low latency of S3 Standard, with a low per GB storage price and per GB retrieval fee. This combination of low cost and high performance make S3 Standard-IA ideal for long-term storage, backups, and as a data store for disaster recovery files.

Incorrect options:

Amazon S3 Standard - The Amazon S3 Standard offers high durability, availability, and performance object storage for frequently accessed data. S3 standard would turn out to be costlier than S3 Standard-IA for the given use-case, so this option is not correct. Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering) - The Amazon S3 Intelligent-Tiering storage class is designed to optimize costs by automatically moving data to the most cost-effective access tier, without performance impact or operational overhead. It works by storing objects in two access tiers: one tier that is optimized for frequent access and another lower-cost tier that is optimized for infrequent access. S3 Intelligent-Tiering would turn out to be costlier than S3 Standard-IA for the given use-case, so this option is not correct.

✓ Which of the following points have to be considered when choosing an *1/1 AWS Region for a service? (Select two)
AWS Region chosen should be geographically closer to the user base that utilizes the hosted AWS services
The AWS Region should have 5G networks, to seamlessly access the breadth of AWS services in the region
Compliance and Data Residency guidelines of the AWS Region should match your business requirements
The AWS Region with high availability index should be considered for your business
The AWS Region chosen should have all its Availability Zones (AZ) within 100 Kms radius, to keep latency low for hosted applications

✓	AWS Support plans are designed to give the right mix of tools and access *1/1 to expertise for successfully running a business using AWS. Which support plan(s) offers the full set of checks for AWS Trusted Advisor best practices and also provides support for programmatic case management?
•	AWS Business Support, AWS Enterprise On-Ramp, and AWS Enterprise Support plans
0	AWS Enterprise On-Ramp Support plan after paying an additional fee and AWS Enterprise Support plan
0	AWS Developer Support, AWS Business Support and AWS Enterprise Support plans
0	Only AWS Enterprise Support plan

Feedback

Explanation

Correct option:

AWS Business Support, AWS Enterprise On-Ramp, and AWS Enterprise Support plans AWS Trusted Advisor provides you with real-time guidance to help you provision your resources following AWS best practices.

The full set of AWS Trusted Advisor checks are included with Business and Enterprise Support plans. These checks can help optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits.

AWS Support API provides programmatic access to AWS Support Center features to create, manage, and close your support cases, and operationally manage your Trusted Advisor check requests and status. AWS Support API is available for Business, Enterprise On-Ramp and Enterprise Support plans.

Comparing AWS Support Plans: via - https://aws.amazon.com/premiumsupport/plans/ Incorrect options:

Only AWS Enterprise Support plan

AWS Developer Support, AWS Business Support and AWS Enterprise Support plans AWS Enterprise On-Ramp Support plan after paying an additional fee and AWS Enterprise Support plan

These three options contradict the explanation provided above, so these options are incorrect.

×	A media company uses Amazon Simple Storage Service (Amazon S3) for storing all its data. Which storage class should it consider for cost-optimal storage of the data that has random access patterns?	*0/1
0	Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering)	
0	Amazon S3 Random Access (S3 Random-Access)	
•	Amazon S3 Standard (S3 Standard)	×
0	Amazon S3 Standard-Infrequent Access (S3 Standard-IA)	
Corr	ect answer	
	Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering)	

Feedback

Explanation

Correct option:

Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering)

Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering) is the only cloud storage class that delivers automatic cost savings by moving objects between four access tiers when access patterns change. The S3 Intelligent-Tiering storage class is designed to optimize costs by automatically moving data to the most cost-effective access tier, without operational overhead. It works by storing objects in four access tiers: two low latency access tiers optimized for frequent and infrequent access, and two optional archive access tiers designed for asynchronous access that are optimized for rare access.

Amazon S3 Intelligent-Tiering works by storing objects in four access tiers: two low latency access tiers optimized for frequent and infrequent access, and two opt-in archive access tiers designed for asynchronous access that are optimized for rare access. Objects uploaded or transitioned to S3 Intelligent-Tiering are automatically stored in the Frequent Access tier. S3 Intelligent-Tiering works by monitoring access patterns and then moving the objects that have not been accessed in 30 consecutive days to the Infrequent Access tier. Once you have activated one or both of the archive access tiers, Amazon S3 Intelligent-Tiering will automatically move objects that haven't been accessed for 90 consecutive days to the Archive Access tier and then after 180 consecutive days of no access to the Deep Archive Access tier. If the objects are accessed later, S3 Intelligent-Tiering moves the objects back to the Frequent Access tier.

There are no retrieval fees when using the S3 Intelligent-Tiering storage class, and no additional tiering fees when objects are moved between access tiers within S3 Intelligent-Tiering. It is the ideal storage class for data sets with unknown storage access patterns, like new applications, or unpredictable access patterns, like data lakes. Incorrect options:

Amazon S3 Standard (S3 Standard) - Amazon S3 Standard offers high durability, availability, and performance object storage for frequently accessed data. Because it delivers low latency and high throughput, S3 Standard is appropriate for a wide variety of use cases, including cloud applications, dynamic websites, content distribution, mobile and gaming applications, and big data analytics.

Amazon S3 Standard-Infrequent Access (S3 Standard-IA) - Amazon S3 Standard-Infrequent Access (S3 Standard-IA) is for data that is accessed less frequently but requires rapid access when needed. S3 Standard-IA offers the high durability, high throughput, and low latency of S3 Standard, with a low per GB storage price and per GB

retrieval fee. This combination of low cost and high performance makes S3 Standard-IA ideal for long-term storage, backups, and as a data store for disaster recovery files. Amazon S3 Random Access (S3 Random-Access) - This is a made-up option, given only as a distractor.

✓	Which of the following statements are CORRECT regarding the Availability *1/1 Zone (AZ) specific characteristics of Amazon Elastic Block Store (EBS) and Amazon Elastic File System (Amazon EFS) storage types?
•	EBS volume can be attached to a single instance in the same Availability Zone (AZ) whereas EFS file system can be mounted on instances across multiple Availability Zones (AZ)
0	EBS volume can be attached to one or more instances in multiple Availability Zones (AZ) and EFS file system can be mounted on instances across multiple Availability Zones (AZ)
0	EBS volume can be attached to a single instance in the same Availability Zone (AZ) and EFS file system can only be mounted on instances in the same Availability Zone (AZ)
0	EBS volume can be attached to one or more instances in multiple Availability Zones (AZ) and EFS file system can be mounted on instances in the same Availability Zone (AZ)

Feedback

Explanation

Correct options:

EBS volume can be attached to a single instance in the same Availability Zone (AZ) whereas EFS file system can be mounted on instances across multiple Availability Zones (AZ)

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

The service is designed to be highly scalable, highly available, and highly durable. Amazon EFS file systems store data and metadata across multiple Availability Zones (AZ) in an AWS Region. EFS file system can be mounted on instances across multiple Availability Zones (AZ).

Amazon Elastic Block Store (EBS) is an easy to use, high-performance block storage service designed for use with Amazon Elastic Compute Cloud (EC2) for both throughput and transaction-intensive workloads at any scale.

Designed for mission-critical systems, EBS volumes are replicated within an Availability Zone (AZ) and can easily scale to petabytes of data. You can attach an available EBS volume to one instance that is in the same Availability Zone (AZ) as the volume. Incorrect options:

EBS volume can be attached to one or more instances in multiple Availability Zones (AZ) and EFS file system can be mounted on instances in the same Availability Zone (AZ) EBS volume can be attached to a single instance in the same Availability Zone (AZ) and EFS file system can only be mounted on instances in the same Availability Zone (AZ) EBS volume can be attached to one or more instances in multiple Availability Zones (AZ) and EFS file system can be mounted on instances across multiple Availability Zones (AZ) These three options contradict the details provided earlier in the explanation, so these options are incorrect.

A web application stores all of its data on Amazon S3 buckets. A client has mandated that data be encrypted before sending it to Amazon S3.
 Which of the following is the right technique for encrypting data as needed by the customer?
 Enable client-side encryption using AWS encryption SDK
 Enable server-side encryption with Amazon S3 Managed Keys (SSE-S3)
 Enable server-side encryption with AWS Key Management Service (AWS KMS) keys (SSE-KMS)

Encryption is enabled by default for all the objects written to Amazon S3. Additional

Correct answer

Enable client-side encryption using AWS encryption SDK

configuration is not required

Feedback

Explanation

Correct option:

Enable client-side encryption using AWS encryption SDK

The act of encrypting data before sending it to Amazon S3 is termed as client-side encryption. The AWS encryption SDK is a client-side encryption library that is separate from the language-specific SDKs. You can use this encryption library to more easily implement encryption best practices in Amazon S3. Unlike the Amazon S3 encryption clients in the language-specific AWS SDKs, the AWS encryption SDK is not tied to Amazon S3 and can be used to encrypt or decrypt data to be stored anywhere. Incorrect options:

Enable server-side encryption with Amazon S3 Managed Keys (SSE-S3) - When you use server-side encryption with Amazon S3-Managed Keys (SSE-S3), each object is encrypted with a unique key. As an additional safeguard, it encrypts the key itself with a root key that it regularly rotates.

Enable server-side encryption with AWS Key Management Service (AWS KMS) keys (SSE-KMS) - Server-side encryption with AWS KMS keys (SSE-KMS) is similar to SSE-S3, but with some additional benefits and charges for using this service. There are separate permissions for the use of a KMS key that provides added protection against unauthorized access of your objects in Amazon S3. SSE-KMS also provides you with an audit trail that shows when your KMS key was used and by whom.

Server-side encryption is the encryption of data at its destination by the application or service that receives it. Amazon S3 encrypts your data at the object level as it writes it to disks in its data centers and decrypts it for you when you access it. Hence, server-side encryption is not the right answer for the current scenario. So both these options are incorrect.

Encryption is enabled by default for all the objects written to Amazon S3. Additional configuration is not required - Although it's correct that encryption is enabled by default for all the objects written to Amazon S3, however, the given use case mandates that data be encrypted before sending it to Amazon S3, which cannot be accomplished with the given option. So this option is incorrect.

Which of the following are NoSQL database services from AWS? (Selectivo)	t *0/1
Amazon DocumentDB	
AWS Storage Gateway	×
Amazon Aurora	×
Amazon Relational Database Service (Amazon RDS)	
Amazon Neptune	
Correct answer	
✓ Amazon DocumentDB	
Amazon Neptune	

Feedback

Explanation

Correct options:

Amazon Neptune

A graph database's purpose is to make it easy to build and run applications that work with highly connected datasets. Typical use cases for a graph database include social networking, recommendation engines, fraud detection, and knowledge graphs. Amazon Neptune is a fully-managed graph database service and it's also considered as a type of NoSOL database.

Amazon DocumentDB

In application code, data is represented often as an object or JSON-like document because it is an efficient and intuitive data model for developers. Document databases make it easier for developers to store and query data in a database by using the same document model format that they use in their application code. Amazon DocumentDB (with MongoDB compatibility) and MongoDB are popular document databases that provide powerful and intuitive APIs for flexible and iterative development. Incorrect options:

Amazon Relational Database Service (Amazon RDS) - Amazon Relational Database Service (Amazon RDS) 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. It frees you to focus on your applications so you can give them the fast performance, high availability, security and compatibility they need.

Amazon Aurora - 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. Amazon Aurora is fully managed by Amazon Relational Database Service (RDS), which automates time-consuming administration tasks like hardware provisioning, database setup, patching, and backups.

AWS Storage Gateway - AWS Storage Gateway is a hybrid cloud storage service that gives you on-premises access to virtually unlimited cloud storage. Customers use Storage Gateway to simplify storage management and reduce costs for key hybrid cloud storage use cases. These include moving backups to the cloud, using on-premises file shares

backed by cloud storage, and providing low latency access to data in AWS for on-premises applications. It is not a database service.

×	A unicorn startup is building an analytics application with support for a speech-based interface. The application will accept speech-based input from users and then convey results via speech. As a Cloud Practitioner, which solution would you recommend for the given use-case?	*0/1
0	Use Amazon Polly to convert speech to text for downstream analysis. Then use Amazon Transcribe to convey the text results via speech	
\bigcirc	Use Amazon Transcribe to convert speech to text for downstream analysis. The	n

use Amazon Polly to convey the text results via speech

Use Amazon Translate to convert speech to text for downstream analysis. Then use Amazon Polly to convey the text results via speech

Use Amazon Polly to convert speech to text for downstream analysis. Then use X Amazon Translate to convey the text results via speech

Correct answer

Use Amazon Transcribe to convert speech to text for downstream analysis. Then use Amazon Polly to convey the text results via speech

Feedback

Explanation

Correct option:

Use Amazon Transcribe to convert speech to text for downstream analysis. Then use Amazon Polly to convey the text results via speech

You can use Amazon Transcribe to add speech-to-text capability to your applications. Amazon Transcribe uses a deep learning process called automatic speech recognition (ASR) to convert speech to text quickly and accurately. Amazon Transcribe can be used to transcribe customer service calls, to automate closed captioning and subtitling, and to generate metadata for media assets.

Amazon Transcribe Use-Cases: via - https://aws.amazon.com/transcribe/

You can use Amazon Polly to turn text into lifelike speech thereby allowing you to create applications that talk. Polly's Text-to-Speech (TTS) service uses advanced deep learning technologies to synthesize natural sounding human speech.

Amazon Polly Benefits: via - https://aws.amazon.com/polly/

Amazon Translate is used for language translation. Amazon Translate uses neural machine translation via deep learning models to deliver more accurate and more naturalsounding translation than traditional statistical and rule-based translation algorithms. Incorrect options:

Use Amazon Polly to convert speech to text for downstream analysis. Then use Amazon Transcribe to convey the text results via speech - Amazon Polly cannot be used to convert speech to text, so this option is incorrect.

Use Amazon Translate to convert speech to text for downstream analysis. Then use Amazon Polly to convey the text results via speech - Amazon Translate cannot convert speech to text, so this option is incorrect.

Use Amazon Polly to convert speech to text for downstream analysis. Then use Amazon Translate to convey the text results via speech - Amazon Polly cannot be used to convert speech to text, so this option is incorrect.

✓	An e-commerce company has its on-premises data storage on an NFS file *1/1 system that is accessed in parallel by multiple applications. The company is looking at moving the applications and data stores to AWS Cloud.
	Which storage service should the company use to move their files to AWS Cloud seamlessly if the application is hosted on Amazon Elastic Compute Cloud (Amazon EC2) instances?

	\bigcirc	Amazon	Simple	Storage	Service	(Amazon	S3)
--	------------	--------	--------	---------	---------	---------	-----

AWS	Storage	Gateway
,,,,,	Otorage	Guterraj

	Amazon	Elastic	File	System	(Amazon	EFS)
--	--------	---------	------	--------	---------	------

\bigcirc A	Amazon	Elastic	Block	Store	(Amazon	EBS)
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Feedback

Explanation

Correct option:

Amazon Elastic File System (Amazon EFS)

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

Amazon EFS is designed to provide massively parallel shared access to thousands of Amazon EC2 instances, enabling your applications to achieve high levels of aggregate throughput and input/output operations per second (IOPS) with consistently low latencies. Amazon EFS is well suited to support a broad spectrum of use cases from home directories to business-critical applications. Customers can use EFS to lift and shift existing enterprise applications to the AWS Cloud. Other use cases include big data analytics, web serving and content management, application development, and testing, media and entertainment workflows, database backups, and container storage. Amazon EFS offers two storage classes: the Standard storage class, and the Infrequent Access storage class (EFS IA). EFS IA provides price/performance that's cost-optimized for files not accessed every day. By simply enabling EFS Lifecycle Management on your file system, files not accessed according to the lifecycle policy you choose will be automatically and transparently moved into EFS IA.

How Amazon EFS Works: via - https://aws.amazon.com/efs/ Incorrect options:

Amazon Elastic Block Store (Amazon EBS) - Amazon Elastic Block Store (Amazon EBS) is an easy-to-use, high-performance, block-storage service designed for use with Amazon Elastic Compute Cloud (EC2) for both throughput and transaction-intensive workloads at any scale. A broad range of workloads, such as relational and non-relational databases, enterprise applications, containerized applications, big data analytics engines, file systems, and media workflows are widely deployed on Amazon EBS. EBS is a block storage service and not a file storage service like EFS.

Amazon Simple Storage Service (Amazon S3) - Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. This means customers of all sizes and industries can use it to store and protect any amount of data for a range of use cases, such as data lakes,

websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics. Parallel access of NFS file systems is not a feature Amazon S3 is capable of and hence EFS is the right choice here.

AWS Storage Gateway - AWS Storage Gateway is a hybrid cloud storage service that gives you on-premises access to virtually unlimited cloud storage. Customers use Storage Gateway to simplify storage management and reduce costs for key hybrid cloud storage use cases. These include moving backups to the cloud, using on-premises file shares backed by cloud storage, and providing low latency access to data in AWS for on-premises applications.

Which AWS service allows you to connect any number of IoT devices to the cloud without requiring you to provision or manage servers?	*1/1
AWS IoT Gateway	
AWS IoT Core	✓
AWS Control Tower	
Amazon Connect	

Feedback

Explanation
Correct option:
AWS IoT Core

AWS IoT Core lets you connect IoT devices to the AWS cloud without the need to provision or manage servers. AWS IoT Core can support billions of devices and trillions of messages and can process and route those messages to AWS endpoints and to other devices reliably and securely. With AWS IoT Core, your applications can keep track of and communicate with all your devices, all the time, even when they aren't connected. AWS IoT Core also makes it easy to use AWS and Amazon services like AWS Lambda, Amazon Kinesis, Amazon S3, Amazon SageMaker, Amazon DynamoDB, Amazon CloudWatch, AWS CloudTrail, Amazon QuickSight, and Alexa Voice Service to build IoT applications that gather, process, analyze and act on data generated by connected devices, without having to manage any infrastructure.

AWS IoT Core lets you select the communication protocol most appropriate for your use case to connect and manage IoT devices. AWS IoT Core supports MQTT (Message Queuing and Telemetry Transport), HTTPS (Hypertext Transfer Protocol - Secure), MQTT over WSS (WebSockets Secure), and LoRaWAN (Iow-power long-range wide-area network). AWS IoT Core provides automated configuration and authentication upon a device's first connection to AWS IoT Core, as well as end-to-end encryption throughout all points of connection, so that data is never exchanged between devices and AWS IoT Core without proven identity. In addition, you can secure access to your devices and applications by applying policies with granular permissions.

AWS IoT Core capabilities: via - https://aws.amazon.com/iot-core/ Incorrect options:

Amazon Connect - Amazon Connect is an easy to use omnichannel cloud contact center that helps you provide superior customer service at a lower cost. Designed from the ground up to be omnichannel, Amazon Connect provides a seamless experience across voice and chat for your customers and agents. This includes one set of tools for skills-based routing, task management, powerful real-time and historical analytics, and intuitive management tools – all with pay-as-you-go pricing, which means Amazon Connect simplifies contact center operations, improves agent efficiency, and lowers costs.

AWS IoT Gateway - This is a made-up option and has been added as a distractor.

AWS Control Tower - AWS Control Tower provides the easiest way to set up and govern a new, secure, multi-account AWS environment based on best practices established through AWS' experience working with thousands of enterprises as they move to the cloud. Control Tower provides mandatory and strongly recommended high-level rules, called guardrails, that help enforce your policies using service control policies (SCPs), or detect policy violations using AWS Config rules.

×	A financial consulting company is looking for automated reference deployments, that will speed up the process of deploying its financial solutions on AWS Cloud. The reference deployment should be able to deploy most of the well-known functions of financial services and leave space for customizations, if necessary.	*0/1
	Which AWS service will help achieve this requirement?	

•	Amazon Quicksight	×
0	AWS CloudFormation	
\bigcirc	AWS Elastic Beanstalk	
\bigcirc	AWS Partner Solutions(formerly Quick Starts)	
Corre	ect answer	

AWS Partner Solutions(formerly Quick Starts)

Feedback

Explanation

Correct option:

AWS Partner Solutions(formerly Quick Starts)

AWS Partner Solutions are automated reference deployments for key workloads on the AWS Cloud. Each Partner Solution launches, configures, and runs the AWS compute, network, storage, and other services required to deploy a specific workload on AWS, using AWS best practices for security and availability.

Partner Solutions are accelerators that condense hundreds of manual procedures into just a few steps. They are customizable and designed for production.

Partner Solutions include: 1. A reference architecture for the deployment 2. AWS CloudFormation templates (JSON or YAML scripts) that automate and configure the deployment 3. A deployment guide, which explains the architecture and implementation in detail, and provides instructions for customizing the deployment

Partner Solutions also include integrations that extend the cloud-based contact center functionality provided by Amazon Connect with key services and solutions from APN Partners—for customer relationship management (CRM), workforce optimization (WFO), analytics, unified communications (UC), and other use cases. Incorrect options:

AWS CloudFormation - AWS CloudFormation gives you an easy way to model a collection of related AWS and third-party resources, provision them quickly and consistently, and manage them throughout their lifecycles, by treating infrastructure as code. A CloudFormation template describes your desired resources and their dependencies so you can launch and configure them together as a stack.

AWS Elastic Beanstalk - AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS. You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. At the same time, you retain full control over the AWS resources powering your application and can access the underlying resources at any time.

Amazon Quicksight - Amazon QuickSight is a scalable, serverless, embeddable, machine learning-powered business intelligence (BI) service built for the cloud. QuickSight lets you easily create and publish interactive BI dashboards that include Machine Learning-powered insights. With QuickSight, you can quickly embed interactive dashboards into your applications, websites, and portals.

ı	Which AWS services can be used to facilitate organizational change management, part of the Reliability pillar of AWS Well-Architected Framework? (Select three)	*0/1	
~	Amazon CloudWatch	✓	
	Amazon GuardDuty		
~	AWS Config	✓	
	AWS CloudTrail		
~	AWS Trusted Advisor	×	
	Amazon Inspector		
Correct answer			
	Amazon CloudWatch		
/	AWS Config		
✓	AWS CloudTrail		

Feedback

Correct options:

There are three best practice areas for Reliability in the cloud - Foundations, Change Management, Failure Management. Being aware of how change affects a system (change management) allows you to plan proactively, and monitoring allows you to quickly identify trends that could lead to capacity issues or SLA breaches.

AWS Config - AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations.

How AWS Config Works: via - https://aws.amazon.com/config/

AWS CloudTrail - AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command-line tools, and other AWS services.

How CloudTrail Works: via - https://aws.amazon.com/cloudtrail/

Amazon CloudWatch - Amazon CloudWatch is a monitoring and observability service built for DevOps engineers, developers, site reliability engineers (SREs), and IT managers. CloudWatch provides data and actionable insights to monitor applications, respond to system-wide performance changes, optimize resource utilization, and get a unified view of operational health.

Incorrect options:

AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices on cost optimization, security, fault tolerance, service limits, and performance improvement.

Amazon Inspector - Amazon Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on AWS. Amazon Inspector automatically assesses applications for exposure, vulnerabilities, and deviations from best practices.

Amazon GuardDuty - Amazon GuardDuty is a threat detection service that monitors malicious activity and unauthorized behavior to protect your AWS account. GuardDuty analyzes billions of events across your AWS accounts from AWS CloudTrail (AWS user and API activity in your accounts), Amazon VPC Flow Logs (network traffic data), and DNS Logs (name query patterns). This service is for AWS account level access, not for instance-level management like an EC2. GuardDuty cannot be used to check OS vulnerabilities.

References:

https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-

<u>Architected_Framework.pdf</u>

https://aws.amazon.com/config/

https://aws.amazon.com/cloudtrail/

~	An intern at an IT company provisioned a Linux based On-demand EC2 instance with per-second billing but terminated it within 30 seconds as he wanted to provision another instance type. What is the duration for which the instance would be charged?	*1/1
(300 seconds	
	60 seconds	✓
(30 seconds	
(600 seconds	
	Feedback	
	Explanation Correct option: 60 seconds - There is a one-minute minimum charge for Linux based EC2 instances, so this is the correct option. Incorrect options: 30 seconds 300 seconds 600 seconds These three options contradict the details provided earlier in the explanation, so these options are incorrect.	

✓ Which AWS service is used to store and commit code privately and also offer features for version control?	*1/1
AWS CodePipeline	
AWS CodeStar	
AWS CodeCommit	✓
AWS CodeBuild	

Feedback

Explanation

Correct option:

AWS CodeCommit

AWS CodeCommit is a fully-managed source control service that hosts secure Git-based repositories. It makes it easy for teams to collaborate on code in a secure and highly scalable ecosystem. CodeCommit eliminates the need to operate your own source control system or worry about scaling its infrastructure. You can use CodeCommit to securely store anything from source code to binaries, and it works seamlessly with your existing Git tools.

AWS CodeCommit eliminates the need to host, maintain, back up, and scale your own source control servers. The service automatically scales to meet the growing needs of your project. AWS CodeCommit automatically encrypts your files in transit and at rest. AWS CodeCommit is integrated with AWS Identity and Access Management (AWS IAM) allowing you to customize user-specific access to your repositories.

AWS CodeCommit supports all Git commands and works with your existing Git tools. You can keep using your preferred development environment plugins, continuous integration/continuous delivery systems, and graphical clients with CodeCommit. Incorrect options:

AWS CodePipeline - AWS CodePipeline is a fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. CodePipeline automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define. This enables you to rapidly and reliably deliver features and updates.

AWS CodeBuild - AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy. With CodeBuild, you don't need to provision, manage, and scale your own build servers. CodeBuild scales continuously and processes multiple builds concurrently, so your builds are not left waiting in a queue. You can get started quickly by using prepackaged build environments, or you can create custom build environments that use your own build tools. With CodeBuild, you are charged by the minute for the compute resources you use.

AWS CodeStar - AWS CodeStar is a cloud based development service that provides the tools you need to quickly develop, build, and deploy applications on AWS. With AWS CodeStar, you can set up your entire continuous delivery toolchain in minutes, allowing you to start releasing code faster. AWS CodeStar makes it easy for your whole team to work together securely, with built-in role-based policies that allow you to easily manage access and add owners, contributors, and viewers to your projects.

Each CodeStar project includes development tools, including AWS CodePipeline, AWS CodeCommit, AWS CodeBuild and AWS CodeDeploy, that can be used on their own and with existing AWS applications.

✓ Which of the following are the advantages of cloud computing? (Sel three)	lect *1/1
Benefit from massive economies of scale	✓
Trade variable expense for capital expense	
Allocate a few months of planning for your infrastructure capacity needs	
Trade capital expense for variable expense	✓
Go global in minutes and deploy applications in multiple regions around to world with just a few clicks	he 🗸
Spend money on building and maintaining data centers	
Feedback	

Explanation

Correct options:

Benefit from massive economies of scale

Trade capital expense for variable expense

Go global in minutes and deploy applications in multiple regions around the world with just a few clicks

Exam Alert:

Please check out the following six advantages of cloud computing. You would certainly be asked questions on the advantages of cloud computing compared to a traditional onpremises setup: via - https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html

Incorrect options:

Spend money on building and maintaining data centers - With cloud computing, you can focus on projects that differentiate your business, not the infrastructure. You don't need to spend money on building and maintaining data centers as the Cloud provider takes care of that.

Allocate a few months of planning for your infrastructure capacity needs - With cloud computing, you don't need to guess on your infrastructure capacity needs. You can access as much or as little capacity as you need, and scale up and down as required with only a few minutes' notice. There is no need to allocate a few months of infrastructure planning. Trade variable expense for capital expense - With cloud computing, you actually trade capital expense for variable expense.

✓ A financial services company needs to retain its data for 10 years to meet *1/1 compliance norms. Which Amazon Simple Storage Service (Amazon S3) storage class is the best fit for this use case considering that the data has to be stored at a minimal cost?

	Amazon S3	Glacier	Deep	Archive
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Amazon S3 Standard-Infrequent Access (S3 Standard-IA)

Amazon S3 Glacier Flexible Retrieval

Amazon S3 Intelligent-Tiering

Feedback

Explanation

Correct option:

Amazon S3 Glacier Deep Archive

Amazon S3 Glacier Deep Archive is Amazon S3's lowest-cost storage class and supports long-term retention and digital preservation for data that may be accessed once or twice a year. It is designed for customers — particularly those in highly-regulated industries, such as the Financial Services, Healthcare, and Public Sectors — that retain data sets for 7-10 years or longer to meet regulatory compliance requirements. S3 Glacier Deep Archive can also be used for backup and disaster recovery use cases, and is a cost-effective and easy-to-manage alternative to magnetic tape systems, whether they are on-premises libraries or off-premises services.

Incorrect options:

Amazon S3 Glacier Flexible Retrieval - Amazon S3 Glacier Flexible Retrieval delivers lowcost storage, up to 10% lower cost (than Amazon S3 Glacier Instant Retrieval), for archive data that is accessed 1-2 times per year and is retrieved asynchronously. For archive data that does not require immediate access but needs the flexibility to retrieve large sets of data at no cost, such as backup or disaster recovery use cases, Amazon S3 Glacier Flexible Retrieval (formerly Amazon S3 Glacier) is the ideal storage class. Amazon S3 Standard-Infrequent Access (S3 Standard-IA) - Amazon S3 Standard-Infrequent Access (S3 Standard-IA) is for data that is accessed less frequently, but requires rapid access when needed. S3 Standard-IA offers the high durability, high throughput, and low latency of S3 Standard, with a low per GB storage price and per GB retrieval fee. This combination of low cost and high performance makes S3 Standard-IA ideal for long-term storage, backups, and as a data store for disaster recovery files. S3 Storage Classes can be configured at the object level and a single bucket can contain objects stored across S3 Standard, S3 Intelligent-Tiering, S3 Standard-IA, and S3 One Zone-IA. You can also use S3 Lifecycle policies to automatically transition objects between storage classes without any application changes. Amazon S3 Intelligent-Tiering - Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering) is the

Amazon S3 Intelligent-Tiering - Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering) is the only cloud storage class that delivers automatic cost savings by moving objects between four access tiers when access patterns change. The S3 Intelligent-Tiering storage class is designed to optimize costs by automatically moving data to the most cost-effective access tier, without operational overhead. It works by storing objects in four access tiers:

two low latency access tiers optimized for frequent and infrequent access, and two optional archive access tiers designed for asynchronous access that are optimized for rare access.

Reference:

X AWS Support offers five support plans for its customers. Which of the following features are covered as part of the AWS Basic Support Plan? (Select two)	*0/1
One-on-one responses to account and billing questions	
Infrastructure event management	×
Service health checks	✓
Use-case guidance – What AWS products, features, and services to use for best supporting your specific needs	
Client-side diagnostic tools	
Correct answer	
One-on-one responses to account and billing questions	
Service health checks	
Feedback Explanation	
Correct options: One-on-one responses to account and billing questions	
Service health checks	
AWS Support offers five support plans: Basic support plan, AWS Developer support plan, AWS Business support plan, AWS Enterprise-On-Ramp support plan, and AWS Enterprise	
Support plan. The Basic plan offers support for account and billing questions and service quota increases. The other plans offer a number of technical support cases with pay-by-themonth pricing and no long-term contracts. All AWS customers automatically have 24/7 access to these features of the Basic support plan: 1. One-on-one responses to account and billing questions 2. Support forums 3. Service health checks 4. Documentation,	
technical papers, and best practice guides	
via - https://docs.aws.amazon.com/awssupport/latest/user/aws-support-plans.html Incorrect options:	
Client-side diagnostic tools - Customers with any of the Developer, Business, Enterprise-On-Ramp, Enterprise support plans have access to client-side diagnostic tools. Use-case guidance — What AWS products, features, and services to use for best supporting your specific needs - Customers with any of the Business, Enterprise-On-Ramp Enterprise support plans have access to use-case guidance. Infrastructure event management - Customers with AWS Enterprise-On-Ramp or Enterprise support plan have access to infrastructure event management which is a short-term engagement with AWS Support to get a deep understanding of customer use-cases. Afte	se
analysis, AWS provides architectural and scaling guidance for an event.	

×	The DevOps team at an IT company is moving 500 GB of data from an EC2 instance to an S3 bucket in the same region. Which of the following scenario captures the correct charges for this data transfer?	*0/1
0	The company would not be charged for this data transfer	
0	The company would be charged for both the outbound data transfer from EC2 instance as well as the inbound data transfer into the S3 bucket	
•	The company would only be charged for the outbound data transfer from EC2 instance	×
0	The company would only be charged for the inbound data transfer into the S3 bucket	
Corr	ect answer	
	The company would not be charged for this data transfer	

Feedback

Explanation

Correct option:

The company would not be charged for this data transfer

There are three fundamental drivers of cost with AWS: compute, storage, and outbound data transfer. In most cases, there is no charge for inbound data transfer or data transfer between other AWS services within the same region. Outbound data transfer is aggregated across services and then charged at the outbound data transfer rate.

Per AWS pricing, data transfer between S3 and EC2 instances within the same region is not charged, so there would be no data transfer charge for moving 500 GB of data from an EC2 instance to an S3 bucket in the same region.

Incorrect options:

The company would only be charged for the outbound data transfer from EC2 instance The company would only be charged for the inbound data transfer into the S3 bucket The company would be charged for both the outbound data transfer from EC2 instance as well as the inbound data transfer into the S3 bucket

These three options contradict the details provided earlier in the explanation, so these options are incorrect.

★ Which of the following Amazon S3 storage classes takes the most time to retrieve data (also known as first byte latency)?	*0/1
Amazon S3 Standard	×
Amazon S3 Glacier Flexible Retrieval	
Amazon S3 Glacier Deep Archive	
Amazon S3 Intelligent-Tiering	
Correct answer	
Amazon S3 Glacier Deep Archive	

Feedback

Explanation

Correct option:

Amazon S3 Glacier Deep Archive

Amazon S3 Glacier Deep Archive is Amazon S3's lowest-cost storage class and supports long-term retention and digital preservation for data that may be accessed once or twice in a year. It is designed for customers — particularly those in highly-regulated industries, such as the Financial Services, Healthcare, and Public Sectors — that retain data sets for 7-10 years or longer to meet regulatory compliance requirements. Amazon S3 Glacier Deep Archive can also be used for backup and disaster recovery use cases. It has a retrieval time (first byte latency) of 12 to 48 hours.

Please review this illustration for Amazon S3 Storage Classes data retrieval times. You don't need to memorize the actual numbers, just remember that Amazon S3 Glacier Deep Archive takes the most time to retrieve data: via - https://aws.amazon.com/s3/storage-classes/

Incorrect options:

Amazon S3 Standard - Amazon S3 Standard offers high durability, availability, and performance object storage for frequently accessed data. Amazon S3 Standard has a retrieval time (first byte latency) of milliseconds.

Amazon S3 Intelligent-Tiering - The Amazon S3 Intelligent-Tiering storage class is designed to optimize costs by automatically moving data to the most cost-effective access tier, without performance impact or operational overhead. It works by storing objects in two access tiers: one tier that is optimized for frequent access and another lower-cost tier that is optimized for infrequent access. Amazon S3 Intelligent-Tiering has a retrieval time (first byte latency) of milliseconds.

Amazon S3 Glacier Flexible Retrieval - Amazon S3 Glacier Flexible Retrieval delivers low-cost storage, up to 10% lower cost (than Amazon S3 Glacier Instant Retrieval), for archive data that is accessed 1—2 times per year and is retrieved asynchronously. For archive data that does not require immediate access but needs the flexibility to retrieve large sets of data at no cost, such as backup or disaster recovery use cases, Amazon S3 Glacier Flexible Retrieval (formerly Amazon S3 Glacier) is the ideal storage class.

✓ Which of the following AWS services can be used to continuously monitor * both malicious activities as well as unauthorized behavior to protect your AWS accounts and workloads?	1/1
Amazon Inspector	
AWS Security Hub	
Amazon Detective	
Amazon GuardDuty	/

Feedback

Explanation

Correct option:

Amazon GuardDuty

Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior to protect your AWS accounts, workloads, and data stored in Amazon Simple Storage Service (Amazon S3). With the cloud, the collection and aggregation of account and network activities are simplified, but it can be time-consuming for security teams to continuously analyze event log data for potential threats. With Amazon GuardDuty, you now have an intelligent and cost-effective option for continuous threat detection in AWS.

The service uses machine learning, anomaly detection, and integrated threat intelligence to identify and prioritize potential threats. GuardDuty analyzes tens of billions of events across multiple AWS data sources, such as AWS CloudTrail event logs, Amazon VPC Flow Logs, and DNS logs. With a few clicks in the AWS Management Console, GuardDuty can be enabled with no software or hardware to deploy or maintain.

Amazon GuardDuty makes it easy for you to enable continuous monitoring of your AWS accounts, workloads, and data stored in Amazon S3. It operates completely independently from your resources so there is no risk of performance or availability impacts to your workloads. It's fully managed with integrated threat intelligence, anomaly detection, and machine learning. Amazon GuardDuty delivers detailed and actionable alerts that are easy to integrate with existing event management and workflow systems. There are no upfront costs and you pay only for the events analyzed, with no additional software to deploy or subscriptions to threat intelligence feeds required.

How Amazon GuardDuty Works: via - https://aws.amazon.com/guardduty/ Incorrect options:

AWS Security Hub - AWS Security Hub gives you a comprehensive view of your security alerts and security posture across your AWS accounts. There is a range of powerful security tools at your disposal, from firewalls and endpoint protection to vulnerability and compliance scanners. With Security Hub, you have a single place that aggregates, organizes, and prioritizes your security alerts, or findings, from multiple AWS services, such as Amazon GuardDuty, Amazon Inspector, and Amazon Macie, as well as from AWS Partner solutions.

Amazon Detective - Amazon Detective simplifies the process of investigating security findings and identifying the root cause. Amazon Detective analyzes trillions of events from multiple data sources such as VPC Flow Logs, AWS CloudTrail logs, and Amazon GuardDuty findings and automatically creates a graph model that provides you with a unified, interactive view of your resources, users, and the interactions between them over time.

Amazon Inspector - Amazon Inspector is an automated security assessment service that

> helps you test the network accessibility of your Amazon EC2 instances and the security state of your applications running on the instances. Amazon Inspector allows you to automate security vulnerability assessments throughout your development and deployment pipeline or against static production systems. This allows you to make security testing a more regular occurrence as part of the development and IT operations.

X	A company stores all its media files in Amazon Simple Storage Service	* 0/1
	(Amazon S3) which is accessed by an application hosted on Amazon EC2	
	instances. The company wants to convert these media files into formats	
	that users can playback on mobile devices.	
	Which AWS service/tool helps you achieve this requirement?	
0	Amazon Comprehend	
\bigcirc	AWS Glue	

Correct answer

Amazon Elastic Transcoder

Amazon Transcribe

Amazon Elastic Transcoder

Feedback

Explanation

Correct option:

Amazon Elastic Transcoder

Amazon Elastic Transcoder lets you convert media files that you have stored in Amazon Simple Storage Service (Amazon S3) into media files in the formats required by consumer playback devices. For example, you can convert large, high-quality digital media files into formats that users can playback on mobile devices, tablets, web browsers, and connected televisions.

Amazon Elastic Transcoder manages all aspects of the media transcoding process for you transparently and automatically. There's no need to administer software, scale hardware, tune performance, or otherwise manage transcoding infrastructure. You simply create a transcoding "job" specifying the location of your source media file and how you want it transcoded. Amazon Elastic Transcoder also provides transcoding presets for popular output formats, which means that you don't need to guess about which settings work best on particular devices. All these features are available via service API, AWS SDKs and the AWS Management Console.

Incorrect options:

Amazon Transcribe - Amazon Transcribe makes it easy for developers to add speech to text capabilities to their applications. Audio data is virtually impossible for computers to search and analyze. Therefore, recorded speech needs to be converted to text before it can be used in applications.

Amazon Transcribe uses a deep learning process called automatic speech recognition (ASR) to convert speech to text quickly and accurately. Amazon Transcribe can be used to transcribe customer service calls, automate subtitling, and generate metadata for media assets to create a fully searchable archive.

Amazon Comprehend - Amazon Comprehend is a natural language processing (NLP) service that uses machine learning to find insights and relationships in a text. Amazon Comprehend uses machine learning to help you uncover the insights and relationships in your unstructured data. The service identifies the language of the text; extracts key phrases, places, people, brands, or events; understands how positive or negative the text is; analyzes text using tokenization and parts of speech, and automatically organizes a

collection of text files by topic.

AWS Glue - AWS Glue is a serverless data integration service that makes it easy to discover, prepare, and combine data for analytics, machine learning, and application development. AWS Glue provides all of the capabilities needed for data integration, so you can start analyzing your data and putting it to use in minutes instead of months. You should use AWS Glue to discover properties of the data you own, transform it, and prepare it for analytics. Glue can automatically discover both structured and semi-structured data stored in your data lake on Amazon S3, data warehouse in Amazon Redshift, and various databases running on AWS.

×	A university provides access to AWS services for its students to submit their research data for analysis. The university is looking at the most cost-effective approach for recovering from disasters and it can tolerate data loss of a few hours. Which disaster recovery strategy is well-suited for this use case?	*0/1
	Which disaster recovery strategy is well suited for this use case:	
0	Backup and restore strategy	
•	Pilot light strategy	X
0	Multi-site active/active strategy	
0	Warm standby strategy	
Corr	rect answer	
()	Backup and restore strategy	

Feedback

Explanation

Correct option:

Backup and restore strategy

When selecting your DR strategy, you must weigh the benefits of lower recovery time objective (RTO) and recovery point objective (RPO) vs the costs of implementing and operating a strategy. The Backup and restore strategy offers a good balance of benefits and cost for the current use case. This is the cheapest of all the disaster recovery options available with AWS.

Backup and restore is the most suitable approach for the given use case as the university can tolerate data loss of a few hours. This approach can be used to mitigate against a regional disaster by replicating data to other AWS Regions or to mitigate the lack of redundancy for workloads deployed to a single Availability Zone. In addition to data, you must redeploy the infrastructure, configuration, and application code in the recovery Region.

Comparing different disaster recovery strategies: via -

https://aws.amazon.com/blogs/architecture/disaster-recovery-dr-architecture-on-aws-part-iii-pilot-light-and-warm-standby/

Incorrect options:

Pilot light strategy - With the pilot light approach, you replicate your data from one Region to another and provision a copy of your core workload infrastructure. Resources required to support data replication and backup, such as databases and object storage, are always on. Other elements, such as application servers, are loaded with application code and configurations but are switched off and are only used during testing or when disaster recovery failover is invoked. Unlike the backup and restore approach, your core infrastructure is always available and you always have the option to quickly provision a full-scale production environment by switching on and scaling out your application servers. This also implies that the cost incurred is higher than what it is for the backup and restore approach.

Multi-site active/active strategy - You can run your workload simultaneously in multiple AWS Regions as part of a multi-site active/active strategy. Multi-site active/active serves traffic from all regions to which it is deployed. With a multi-site active/active approach,

users can access the workload in any of the Regions in which it is deployed. This approach is the most complex and costliest for disaster recovery.

Warm standby strategy - The warm standby approach involves ensuring that there is a scaled-down but fully functional copy of your production environment in another AWS Region. This approach extends the pilot light concept and decreases the time to recovery because your workload is always-on in another Region. This approach also allows you to more easily perform testing or implement continuous testing to increase confidence in your ability to recover from a disaster. This strategy is costly and is used only for business-critical applications.

✓ A startup wants to set up its IT infrastructure on AWS Cloud. The CTO would like to get an estimate of the monthly AWS bill based on the AWS services that the startup wants to use. As a Cloud Practitioner, which AWS service would you suggest for this use-case?	*1/1
AWS Cost & Usage Report (AWS CUR)	
AWS Budgets	
AWS Pricing Calculator	✓
AWS Cost Explorer	

Feedback

Explanation

Correct option:

AWS Pricing Calculator

AWS Pricing Calculator lets you explore AWS services and create an estimate for the cost of your use cases on AWS. You can model your solutions before building them, explore the price points and calculations behind your estimate, and find the available instance types and contract terms that meet your needs. This enables you to make informed decisions about using AWS. You can plan your AWS costs and usage or price out setting up a new set of instances and services. AWS Pricing Calculator can provide the estimate of the AWS service usage based on the list of AWS services.

via - https://calculator.aws/#/

The AWS Pricing Calculator is accessible on: https://calculator.aws/#/

You should also note AWS is in the process of deprecating a similar tool called the Simple Monthly Calculator. This calculator provides an estimate of usage charges for AWS services based on certain information you provide. It helps customers and prospects estimate their monthly AWS bill more efficiently. This tool can be accessed on: https://calculator.s3.amazonaws.com/index.html

Incorrect options:

AWS Cost & Usage Report (AWS CUR) - The AWS Cost & Usage Report (AWS CUR) contains the most comprehensive set of AWS cost and usage data available, including additional metadata about AWS services, pricing, credit, fees, taxes, discounts, cost categories, Reserved Instances, and Savings Plans. The AWS Cost & Usage Report (AWS CUR) itemizes usage at the account or Organization level by product code, usage type and operation. These costs can be further organized by Cost Allocation tags and Cost Categories. The AWS Cost & Usage Report (AWS CUR) is available at an hourly, daily, or monthly level of granularity, as well as at the management or member account level. The AWS Cost & Usage Report (AWS CUR) cannot provide the estimate of the monthly AWS bill based on the list of AWS services.

AWS Cost Explorer - AWS Cost Explorer has an easy-to-use interface that lets you visualize, understand, and manage your AWS costs and usage over time. AWS Cost Explorer includes a default report that helps you visualize the costs and usage associated with your top five cost-accruing AWS services, and gives you a detailed breakdown of all services in the table view. The reports let you adjust the time range to view historical data going back up to twelve months to gain an understanding of your cost trends. AWS Cost Explorer cannot provide the estimate of the monthly AWS bill based on the list of AWS services.

AWS Budgets - AWS Budgets gives 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. Budgets can be created at the monthly, quarterly, or yearly level, and you can customize the start and end dates. You can further refine your budget to track costs associated with multiple dimensions, such as AWS service, linked account, tag, and others. AWS Budgets cannot provide the estimate of the monthly AWS bill based on the list of AWS services.

\	A healthcare company wants to implement a continuous replication based disaster recovery mechanism and provide fast, reliable recovery of physical, virtual, and cloud-based servers into AWS Cloud. Which of the following represents the best-fit solution for this use case?	*1/1
0	CloudCover Disaster Recovery	
0	AWS Snowball Edge	
0	AWS Storage Gateway	
•	CloudEndure Disaster Recovery	✓

Feedback

Explanation

Correct option:

CloudEndure Disaster Recovery

CloudEndure Disaster Recovery, available from the AWS Marketplace, continuously replicates server-hosted applications and server-hosted databases from any source into AWS using block-level replication of the underlying server. CloudEndure Disaster Recovery enables you to use AWS Cloud as a disaster recovery Region for an on-premises workload and its environment. It can also be used for disaster recovery of AWS hosted workloads if they consist only of applications and databases hosted on EC2 (i.e. not RDS). Features of CloudEndure Disaster Recovery:

- 1. Continuous replication: CloudEndure Disaster Recovery provides continuous, asynchronous, block-level replication of your source machines into a staging area. This allows you to achieve sub-second Recovery Point Objectives (RPOs), since up-to-date applications are always ready to be spun up on AWS if a disaster strikes.
- 2. Low-cost staging area: Data is continually kept in sync in a lightweight staging area in your target AWS Region. The staging area contains low-cost resources that are automatically provisioned and managed by CloudEndure Disaster Recovery. This eliminates the need for duplicate resources and significantly reduces your disaster recovery total cost of ownership (TCO).
- 3. Automated machine conversion and orchestration: In the event of a disaster or drill, CloudEndure Disaster Recovery triggers a highly automated machine conversion process and a scalable orchestration engine that quickly spins up thousands of machines in your target AWS Region in parallel. This enables Recovery Time Objectives (RTOs) of minutes. Unlike application-level solutions, CloudEndure Disaster Recovery replicates entire machines, including OS, system state configuration, system disks, databases, applications, and files.
- 4. Point-in-time recovery: Granular point-in-time recovery allows you to recover applications and IT environments that have been corrupted as a result of accidental system changes, ransomware, or other malicious attacks. In such cases, you can launch applications from a previous consistent point in time rather than launching applications in their most up-to-date state. During the recovery, you can select either the latest state or an earlier state from a list of points in time.
- 5. Easy, non-disruptive drills: With CloudEndure Disaster Recovery, you can conduct disaster recovery drills without disrupting your source environment or risking data loss. During drills, CloudEndure Disaster Recovery spins up machines in your target AWS Region in complete isolation to avoid network conflicts and performance impact.
- 6. Wide application and infrastructure support: Because CloudEndure Disaster Recovery replicates data at the block level, you can use it for all applications and databases that run

on supported versions of Windows and Linux OS.

CloudEndure Disaster Recovery: via -

https://docs.aws.amazon.com/whitepapers/latest/disaster-recovery-workloads-onaws/disaster-recovery-options-in-the-cloud.html

Incorrect options:

AWS Snowball Edge - AWS Snowball Edge is a type of Snowball device with on-board storage and compute power for select AWS capabilities. Snowball Edge can do local processing and edge-computing workloads in addition to transferring data between your local environment and the AWS Cloud. AWS Snowball Edge cannot be used to optimize connections through mobile networks. It cannot be used for continuous replication based disaster recovery.

AWS Storage Gateway - AWS Storage Gateway is a hybrid cloud storage service that gives you on-premises access to virtually unlimited cloud storage. Storage Gateway provides a standard set of storage protocols such as iSCSI, SMB, and NFS, which allow you to use AWS storage without rewriting your existing applications. You can take point-in-time snapshots of your Volume Gateway volumes in the form of Amazon EBS snapshots. Using this approach, you can easily supply data from your on-premises applications to your applications running on Amazon EC2 if you require additional on-demand compute capacity for data processing or replacement capacity for disaster recovery purposes. However, Storage Gateways cannot be used for continuous replication based disaster

CloudCover Disaster Recovery - This is a made-up option and has been added as a distractor.

✓ A weather-tracking application is built using Amazon DynamoDB. The performance of the application has been consistently good. But lately, the team has realized that during holidays and travel seasons, the load on the application is high and the read requests consume most of the database.	е
resources, thereby drastically increasing the overall application latency. Which feature/service will help resolve this issue?	
Amazon DynamoDB Regulator	
Amazon DynamoDB Accelerator	✓
Amazon ElastiCache	
Amazon CloudFront	

Feedback

Explanation

Correct option:

Amazon DynamoDB Accelerator

Amazon DynamoDB is designed for scale and performance. In most cases, the DynamoDB response times can be measured in single-digit milliseconds. However, there are certain use cases that require response times in microseconds. For these use cases, Amazon DynamoDB Accelerator (DAX) delivers fast response times for accessing eventually consistent data.

DAX is a DynamoDB-compatible caching service that enables you to benefit from fast inmemory performance for demanding applications. DAX addresses three core scenarios:

- 1. As an in-memory cache, DAX reduces the response times of eventually consistent read workloads by an order of magnitude from single-digit milliseconds to microseconds.
- 2. DAX reduces operational and application complexity by providing a managed service that is API-compatible with DynamoDB. Therefore, it requires only minimal functional changes to use with an existing application.
- 3. For read-heavy or bursty workloads, DAX provides increased throughput and potential operational cost savings by reducing the need to overprovision read capacity units. This is especially beneficial for applications that require repeated reads for individual keys. How Amazon DynamoDB Accelerator (DAX) Works: via -

https://aws.amazon.com/dynamodb/dax/

Incorrect options:

Amazon DynamoDB Regulator - This is a made-up option, used only as a distractor. Amazon ElastiCache - Amazon ElastiCache is a web service that makes it easy to deploy, operate, and scale an in-memory data store and cache in the cloud. The service improves the performance of web applications by allowing you to retrieve information from fast, managed, in-memory data stores, instead of relying entirely on slower disk-based databases. Amazon ElastiCache supports two open-source in-memory engines: Amazon ElastiCache for Redis, and Amazon ElastiCache for Memcached. AWS recommends using Amazon DynamoDB Accelerator (DAX) for DynamoDB, which is an out-of-box caching solution for DynamoDB.

Amazon CloudFront - Amazon CloudFront is a global content delivery network (CDN) service that accelerates delivery of your websites, APIs, video content or other web assets. It integrates with other Amazon Web Services products to give developers and businesses

Availability Zone (AZ) infrastructure maintenance

an easy way to accelerate content to end-users with no minimum usage commitments. It is not a caching solution.

\	shared responsibility of both AWS and the customer?	*1/1
0	Infrastructure maintenance of Amazon Simple Storage Service (Amazon S3) storage servers	
0	Guarantee data separation among various AWS customers	
	Configuration Management	/

Feedback

Correct option:

Configuration Management

Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates. Controls that apply to both the infrastructure layer and customer layers, but in completely separate contexts or perspectives are called shared controls. In a shared control, AWS provides the requirements for the infrastructure and the customer must provide their own control implementation within their use of AWS services. Configuration Management forms a part of shared controls - AWS maintains the configuration of its infrastructure devices, but a customer is responsible for configuring their own guest operating systems, databases, and applications.

Shared Responsibility Model Overview: via - https://aws.amazon.com/compliance/shared-responsibility-model/

Incorrect options:

Infrastructure maintenance of Amazon Simple Storage Service (Amazon S3) storage servers - AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud.

Guarantee data separation among various AWS customers - AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud. This infrastructure is composed of the hardware, software, networking, and facilities that run AWS Cloud services.

Availability Zone (AZ) infrastructure maintenance - AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud.

Reference:

https://docs.aws.amazon.com/kms/latest/developerguide/concepts.html#master_keys

×	A team lead is reviewing the AWS services that can be used in the development workflow for his company. Which of the following statements are correct regarding the capabilities of these AWS services? (Select three)	*0/1
	AWS CodeCommit allows you to run builds and tests as part of your AWS CodePipeline	
~	AWS CodeBuild is directly integrated with both AWS CodePipeline and AWS CodeCommit	×
~	Each AWS CodeStar project includes development tools, including AWS CodePipeline, AWS CodeCommit, AWS CodeBuild, and AWS CodeDeploy, that can be used on their own and with existing AWS applications	✓
	AWS CodePipeline uses Amazon CloudWatch Events to detect changes in CodeCommit repositories used as a source for a pipeline	
	You can use AWS CodeStar and AWS Cloud9 to develop, build, and deploy a serverless web application	✓
	AWS CodeStar is a cloud-based integrated development environment that lets your telegrate, run, and debug your code with just a browser	ou
Corr	ect answer	
~	Each AWS CodeStar project includes development tools, including AWS CodePipeline, AWS CodeCommit, AWS CodeBuild, and AWS CodeDeploy, that cabe used on their own and with existing AWS applications	ın
~	AWS CodePipeline uses Amazon CloudWatch Events to detect changes in CodeCommit repositories used as a source for a pipeline	
	You can use AWS CodeStar and AWS Cloud9 to develop, build, and deploy a serverless web application	
F	eedback	
C Ea A aı A	orrect options: ach AWS CodeStar project includes development tools, including AWS CodePipeline, WS CodeCommit, AWS CodeBuild, and AWS CodeDeploy, that can be used on their own and with existing AWS applications WS CodeStar accelerates software release with the help of AWS CodePipeline, a continuous integration and continuous delivery (CI/CD) service. Each project comes pre-	

AWS CodePipeline uses Amazon CloudWatch Events to detect changes in CodeCommit

Amazon EC2 and AWS Lambda.

configured with an automated pipeline that continuously builds, tests, and deploys your code with each commit. AWS CodeStar integrates with AWS CodeDeploy and AWS CloudFormation so that you can easily update your application code and deploy to

More information on AWS CodeStar: via - https://aws.amazon.com/codestar/features/

repositories used as a source for a pipeline

AWS CodePipeline uses Amazon CloudWatch Events to detect changes in CodeCommit repositories used as a source for a pipeline. Each source action has a corresponding event rule. This event rule starts your pipeline when a change occurs in the repository. AWS CodePipeline integration with AWS CodeCommit: via -

<u>https://docs.aws.amazon.com/codepipeline/latest/userguide/integrations-action-type.html</u>

You can use AWS CodeStar and AWS Cloud9 to develop, build, and deploy a serverless web application

AWS CodeStar is a cloud based development service that provides the tools you need to quickly develop, build, and deploy applications on AWS. AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser. Together, the two services can be used to build serverless applications in very little time.

Incorrect options:

AWS CodeBuild is directly integrated with both AWS CodePipeline and AWS CodeCommit - AWS CodeCommit can trigger a Lambda function that in turns invokes a CodeBuild job, therefore CodeBuild has an indirect integration with CodeCommit. However, AWS CodePipeline is directly integrated with both AWS CodeBuild and AWS CodeCommit because CodePipeline can use source action integrations with CodeCommit and build action integrations with CodeBuild.

AWS CodeCommit allows you to run builds and tests as part of your AWS CodePipeline - AWS CodeCommit is a version control service that you can use to privately store and manage assets (such as documents, source code, and binary files) in the cloud. AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy. AWS CodeBuild allows you to run builds and tests as part of your pipeline.

AWS CodeStar is a cloud-based integrated development environment that lets you write, run, and debug your code with just a browser - AWS CodeStar is a cloud based development service that provides the tools you need to quickly develop, build, and deploy applications on AWS. AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser.

Here is an example to explain the collaboration between these services - You can use AWS CodeStar to build a new AWS Lambda based Node.js serverless web application. You will use AWS CodeStar to set up a continuous delivery mechanism using AWS CodeCommit for source control and AWS CodePipeline to automate your release process. You can then change some code in the Node.js project using Cloud9 and commit the change to trigger your continuous pipeline and redeploy your project.

Build a Serverless Application using AWS CodeStar and AWS Cloud9: via - https://aws.amazon.com/getting-started/hands-on/build-serverless-app-codestar-cloud9/

×	Which of the following statements are correct regarding Amazon API Gateway? (Select two)	* 0/1
~	Amazon API Gateway can call an AWS Lambda function to create the front door of a serverless application	✓
	Amazon API Gateway does not yet support API result caching	
	API Gateway can be configured to send data directly to Amazon Kinesis Data Stream	
	If an API response is served by the cached data, it is not considered an API call for billing purposes	×
	Amazon API Gateway creates RESTful APIs, Storage Gateway creates WebSocke APIs	t
Corr	rect answer	
~	Amazon API Gateway can call an AWS Lambda function to create the front door a serverless application	of
	API Gateway can be configured to send data directly to Amazon Kinesis Data Stream	

Feedback

Explanation

Correct options:

Amazon API Gateway can call an AWS Lambda function to create the front door of a serverless application

Amazon API Gateway is an AWS service for creating, publishing, maintaining, monitoring, and securing REST, HTTP, and WebSocket APIs at any scale. API developers can create APIs that access AWS or other web services, as well as data stored in the AWS Cloud. API Gateway acts as a "front door" for applications to access data, business logic, or functionality from your backend services, such as workloads running on Amazon Elastic Compute Cloud (Amazon EC2), code running on AWS Lambda, any web application, or real-time communication applications.

API Gateway can be configured to send data directly to Amazon Kinesis Data Stream Amazon API Gateway can execute AWS Lambda functions in your account, start AWS Step Functions state machines, or call HTTP endpoints hosted on AWS Elastic Beanstalk, Amazon EC2, and also non-AWS hosted HTTP based operations that are accessible via the public Internet.API Gateway also allows you to specify a mapping template to generate static content to be returned, helping you mock your APIs before the backend is ready. You can also integrate API Gateway with other AWS services directly – for example, you could expose an API method in API Gateway that sends data directly to Amazon Kinesis. How Amazon API Gateway Works: via - https://aws.amazon.com/api-gateway/ Incorrect options:

Amazon API Gateway creates RESTful APIs, Storage Gateway creates WebSocket APIs - Amazon API Gateway is an AWS service for creating, publishing, maintaining, monitoring, and securing REST, HTTP, and WebSocket APIs. AWS Storage Gateway is a hybrid storage solution offered by AWS.

Amazon API Gateway does not yet support API result caching - API Gateway supports

result caching. You can add caching to API calls by provisioning an API Gateway cache and specifying its size in gigabytes.

If an API response is served by the cached data, it is not considered an API call for billing purposes - API calls are counted equally for billing purposes whether the response is handled by your backend operations or by the Amazon API Gateway caching operation.

✓ A financial services company wants to ensure that its AWS account activity meets the governance, compliance and auditing norms. As a Cloud Practitioner, which AWS service would you recommend for this use-case?	*1/1
AWS CloudTrail	✓
AWS Config	
AWS Trusted Advisor	
Amazon CloudWatch	

Feedback

Explanation

Correct option:

AWS CloudTrail

You can use CloudTrail to log, monitor and retain account activity related to actions across your AWS infrastructure. CloudTrail provides an event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command-line tools, and other AWS services.

How CloudTrail Works: via - https://aws.amazon.com/cloudtrail/ Incorrect options:

AWS Config - AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations.

Amazon CloudWatch - Amazon CloudWatch is a monitoring and observability service built for DevOps engineers, developers, site reliability engineers (SREs), and IT managers. CloudWatch provides data and actionable insights to monitor applications, respond to system-wide performance changes, optimize resource utilization, and get a unified view of operational health. This is an excellent service for building Resilient systems. AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices on cost optimization, security, fault tolerance, service limits and performance improvement.

Exam Alert:

You may see use-cases asking you to select one of CloudWatch vs CloudTrail vs Config. Just remember this thumb rule -

Think resource performance monitoring, events, and alerts; think CloudWatch.

Think account-specific activity and audit; think CloudTrail.

Think resource-specific change history, audit, and compliance; think Config.

✓ A manufacturing company is looking at a service that can offer AWS infrastructure, AWS services, APIs, and tools to its on-premises data center for running low latency applications.	*1/1
Which of the following service/tool is the best fit for the given requirement?	
AWS Snow Family	
AWS Outposts	✓
AWS Wavelength	
AWS Local Zones	

Feedback

Explanation
Correct option:

AWS Outposts

AWS Outposts is a fully managed service that offers the same AWS infrastructure, AWS services, APIs, and tools to virtually any data center, co-location space, or on-premises facility for a truly consistent hybrid experience. AWS Outposts is ideal for workloads that require low latency access to on-premises systems, local data processing, data residency, and migration of applications with local system interdependencies.

AWS compute, storage, database, and other services run locally on Outposts, and you can access the full range of AWS services available in the Region to build, manage, and scale your on-premises applications using familiar AWS services and tools.

You can use AWS Outposts to support your applications that have low latency or local data processing requirements. These applications may need to generate near real-time responses to end-user applications or need to communicate with other on-premises systems or control on-site equipment. These can include workloads running on factory floors for automated operations in manufacturing, real-time patient diagnosis or medical imaging, and content and media streaming. You can use Outposts to securely store and process customer data that needs to remain on-premises or in countries where there is no AWS region. You can run data-intensive workloads on Outposts and process data locally when transmitting data to the cloud is expensive and wasteful and for better control on data analysis, back-up, and restoration.

How AWS Outposts Works: via - https://aws.amazon.com/outposts/ Incorrect options:

AWS Snow Family - The AWS Snow Family is a collection of physical devices that help migrate large amounts of data into and out of the cloud without depending on networks. This helps you apply the wide variety of AWS services for analytics, file systems, and archives to your data. You can use AWS Snow Family services for data transfer and occasional pre-processing on location. Some large data transfer examples include cloud migration, disaster recovery, data center relocation, and/or remote data collection projects. These projects typically require you to migrate large amounts of data in the shortest, and most cost-effective, amount of time.

AWS Wavelength - AWS Wavelength is an AWS Infrastructure offering optimized for mobile edge computing applications. Wavelength Zones are AWS infrastructure deployments that embed AWS compute and storage services within communications service providers' (CSP) data centers at the edge of the 5G network, so application traffic from 5G devices

can reach application servers running in Wavelength Zones without leaving the telecommunications network.

AWS Local Zones - AWS Local Zones are a type of AWS infrastructure deployment that places AWS compute, storage, database, and other select services close to a large population, industry, and IT centers. With AWS Local Zones, you can easily run applications that need single-digit millisecond latency closer to end-users in a specific geography. AWS Local Zones are ideal for use cases such as media & entertainment content creation, real-time gaming, live video streaming, and machine learning inference.

✓ A data analytics company is running a proprietary batch analytics application on AWS and wants to use a storage service which would be accessed by hundreds of EC2 instances simultaneously to append data to existing files. As a Cloud Practitioner, which AWS service would you suggest for this use-case?	*1/1
Amazon Elastic File System (Amazon EFS)	✓
Amazon Simple Storage Service (Amazon S3)	
O Instance Store	
Amazon Elastic Block Store (Amazon EBS)	

Feedback

Correct option:

Amazon Elastic File System (Amazon EFS)

Amazon EFS is a file storage service for use with Amazon EC2. Amazon EFS provides a file system interface, file system access semantics, and concurrently-accessible storage for up to thousands of Amazon EC2 instances. Amazon EFS uses the Network File System protocol.

How EFS works: via - https://aws.amazon.com/efs/

Incorrect options:

Amazon Elastic Block Store (Amazon EBS) - Amazon Elastic Block Store (EBS) is an easy to use, high-performance block storage service designed for use with Amazon Elastic Compute Cloud (EC2) for both throughput and transaction-intensive workloads at any scale. EBS volumes cannot be accessed simultaneously by multiple EC2 instances, so this option is incorrect.

Instance Store - An instance store provides temporary block-level storage for your instance. This storage is located on disks that are physically attached to the host computer. Instance Store volumes cannot be accessed simultaneously by multiple EC2 instances, so this option is incorrect.

Amazon Simple Storage Service (Amazon S3) - Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. S3 is object storage and it does not support file append operations, so this option is incorrect.

Reference:

https://aws.amazon.com/efs/

✓	A big data analytics company is moving its IT infrastructure from an on- premises data center to AWS Cloud. The company has some server- bound software licenses that it wants to use on AWS. As a Cloud Practitioner, which of the following EC2 instance types would you recommend to the company?	*1/1
\bigcirc	On-Demand Instance	
•	Dedicated Host	✓
0	Reserved Instance (RI)	
0	Dedicated Instance	

Feedback

Explanation

Correct option:

Dedicated host

Amazon EC2 Dedicated Hosts allow you to use your eligible software licenses from vendors such as Microsoft and Oracle on Amazon EC2. An Amazon EC2 Dedicated Host is a physical server fully dedicated for your use, so you can help address corporate compliance requirements.

Exam Alert:

Please review the differences between Dedicated hosts and Dedicated instances: via - https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/dedicated-hosts-overview.html Incorrect options:

Dedicated instance - A Dedicated Instance is an Amazon EC2 instance that runs in a virtual private cloud (VPC) on hardware that's dedicated to a single customer. Dedicated Instances that belong to different AWS accounts are physically isolated at the hardware level. However, Dedicated Instances may share hardware with other instances from the same AWS account that are not Dedicated Instances. You cannot use Dedicated Instances for using server-bound software licenses.

Reserved Instance (RI) - A Reserved Instance (RI) provides you with significant savings (up to 75%) on your Amazon EC2 costs compared to On-Demand Instance pricing. A Reserved Instance (RI) is not a physical instance, but rather a billing discount applied to the use of an On-Demand Instance in your account. You can purchase a Reserved Instance (RI) for a one-year or three-year commitment, with the three-year commitment offering a bigger discount. You cannot use a Reserved Instance (RI) for using server-bound software licenses.

On-Demand Instance - An On-Demand Instance is an instance that you use on-demand. You have full control over its lifecycle — you decide when to launch, stop, hibernate, start, reboot, or terminate it. There is no long-term commitment required when you purchase On-Demand Instances. There is no upfront payment and you pay only for the seconds that your On-Demand Instances are running. The price per second for running an On-Demand Instance is fixed. On-demand instances cannot be interrupted. You cannot use On-demand Instances for using server-bound software licenses. Reference:

✓ Which AWS Service can be used to mitigate a Distributed Denial of Service (DDoS) attack?	*1/1
AWS Systems Manager	
AWS Shield	✓
Amazon CloudWatch	
AWS Key Management Service (AWS KMS)	

Feedback

Explanation

Correct option:

AWS Shield

AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection. There are two tiers of AWS Shield - Standard and Advanced.

All AWS customers benefit from the automatic protections of AWS Shield Standard, at no additional charge. AWS Shield Standard defends against most common, frequently occurring network and transport layer DDoS attacks that target your web site or applications. When you use AWS Shield Standard with Amazon CloudFront and Amazon Route 53, you receive comprehensive availability protection against all known infrastructure (Layer 3 and 4) attacks.

For higher levels of protection against attacks targeting your applications running on Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing (ELB), Amazon CloudFront, AWS Global Accelerator and Amazon Route 53 resources, you can subscribe to AWS Shield Advanced. In addition to the network and transport layer protections that come with Standard, AWS Shield Advanced provides additional detection and mitigation against large and sophisticated DDoS attacks, near real-time visibility into attacks, and integration with AWS WAF, a web application firewall.

Incorrect options:

Amazon CloudWatch - Amazon CloudWatch is a monitoring and observability service built for DevOps engineers, developers, site reliability engineers (SREs), and IT managers. CloudWatch provides data and actionable insights to monitor applications, respond to system-wide performance changes, optimize resource utilization, and get a unified view of operational health. This is an excellent service for building Resilient systems.

AWS Systems Manager - AWS Systems Manager gives you visibility and control of your infrastructure on AWS. Systems Manager provides a unified user interface so you can view operational data from multiple AWS services and allows you to automate operational tasks across your AWS resources. With Systems Manager, you can group resources, like Amazon EC2 instances, Amazon S3 buckets, or Amazon RDS instances, by application, view operational data for monitoring and troubleshooting, and take action on your groups of resources.

AWS Key Management Service (AWS KMS) - AWS Key Management Service (KMS) makes it easy for you to create and manage cryptographic keys and control their use across a wide range of AWS services and in your applications. AWS KMS is a secure and resilient service that uses hardware security modules that have been validated under FIPS 140-2, or are in the process of being validated, to protect your keys.

/	A company runs an application on a fleet of EC2 instances. The company *1/
	wants to automate the traditional maintenance job of running timely
	assessments and checking for OS vulnerabilities. As a Cloud Practitioner,
	which service will you suggest for this use case?

Amazon	Macie

\mazon	GuardDuty
Amazon	GuardDuty

Amazon	Inspector
,a=0	op coto.

) AWS	Shield
 , ,	

Feedback

Explanation

Correct option:

Amazon Inspector

Amazon Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on your Amazon EC2 instances. Amazon Inspector automatically assesses applications for exposure, vulnerabilities, and deviations from best practices. After performing an assessment, Amazon Inspector produces a detailed list of security findings prioritized by level of severity. These findings can be reviewed directly or as part of detailed assessment reports which are available via the Amazon Inspector console or API.

Incorrect options:

Amazon GuardDuty - Amazon GuardDuty is a threat detection service that monitors malicious activity and unauthorized behavior to protect your AWS account. GuardDuty analyzes billions of events across your AWS accounts from AWS CloudTrail (AWS user and API activity in your accounts), Amazon VPC Flow Logs (network traffic data), and DNS Logs (name query patterns). This service is for AWS account level access, not for instance-level management like an EC2. GuardDuty cannot be used to check OS vulnerabilities.

Amazon Macie - Amazon Macie is a fully managed data security and data privacy service that uses machine learning and pattern matching to discover and protect your sensitive data in AWS. Macie helps identify and alert you to sensitive data, such as personally identifiable information (PII). This service is for securing data and has nothing to do with an EC2 security assessment. Macie cannot be used to check OS vulnerabilities.

AWS Shield - AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection. Shield is general protection against DDos attacks for all resources in the AWS network, and not an instance-level security assessment service. Shield cannot be used to check OS vulnerabilities.

✓ A company is moving its on-premises application to AWS Cloud. The application uses in-memory caches for running custom workloads. Which Amazon Elastic Compute Cloud (Amazon EC2) instance type is the right choice for the given requirement?	/1
Accelerated computing instance types	
Compute Optimized instance types	
Memory Optimized instance types	•
Storage Optimized instance types	

Feedback

Explanation

Correct option:

Memory Optimized instance types

Memory optimized instances are designed to deliver fast performance for workloads that process large data sets in memory. Memory optimized instances offer large memory size for memory intensive applications including in-memory applications, in-memory databases, in-memory analytics solutions, High Performance Computing (HPC), scientific computing, and other memory-intensive applications.

Amazon EC2 R6g instances are the next-generation of memory-optimized instances powered by Arm-based AWS Graviton2 Processors.

Incorrect options:

Compute Optimized instance types - Compute Optimized instances are designed for applications that benefit from high compute power. These applications include compute-intensive applications like high-performance web servers, high-performance computing (HPC), scientific modelling, distributed analytics, and machine learning inference. Amazon EC2 C6g instances are the next-generation of compute-optimized instances powered by Arm-based AWS Graviton2 Processors.

Storage Optimized instance types - Dense-storage instances are designed for workloads that require high sequential read and write access to very large data sets, such as Hadoop distributed computing, massively parallel processing data warehousing, and log processing applications. The Dense-storage instances offer the best price/GB-storage and price/disk-throughput across other EC2 instances.

Accelerated computing instance types - Accelerated Computing instance family is a family of instances that use hardware accelerators, or co-processors, to perform some functions, such as floating-point number calculation and graphics processing, more efficiently than is possible in software running on CPUs. Amazon EC2 provides three types of Accelerated Computing instances – GPU compute instances for general-purpose computing, GPU graphics instances for graphics-intensive applications, and FPGA programmable hardware compute instances for advanced scientific workloads. Reference:

✓	Which of the following are the security best practices suggested by AWS *1/1 for Identity and Access Management (IAM)? (Select two)
	Enable AWS Multi-Factor Authentication (AWS MFA) on your AWS root user account. MFA helps give root access to multiple users without actually sharing the root user login credentials
~	When you create IAM policies, grant the least privileges required to perform a task
~	Do not share security credentials between accounts, use IAM roles instead
	Share your AWS account root user credentials only if absolutely necessary for performing an important billing operation
	Do not change passwords and access keys once created. This results in failure of connectivity in the application logic

Feedback

Explanation

Correct options:

When you create IAM policies, grant the least privileges required to perform a task When you create IAM policies, follow the standard security advice of granting the least privileges, or granting only the permissions required to perform a task. Determine what users (and roles) need to do and then craft policies that allow them to perform only those tasks.

Start with a minimum set of permissions and grant additional permissions as necessary. Doing so is more secure than starting with permissions that are too lenient and then trying to tighten them later.

Do not share security credentials between accounts, use IAM roles instead Don't share security credentials between accounts to allow users from another AWS account to access resources in your AWS account. Instead, use IAM roles. You can define a role that specifies what permissions the IAM users in the other account are allowed. You can also designate which AWS accounts have the IAM users that are allowed to assume the role.

Incorrect options:

Share your AWS account root user credentials only if absolutely necessary for performing an important billing operation - Never share your AWS account root user password or access keys with anyone. Don't use your AWS account root user credentials to access AWS, and don't give your credentials to anyone else. Instead, create individual users for anyone who needs access to your AWS account. Create an IAM user for yourself as well, give that user administrative permissions, and use that IAM user for all your work. Enable AWS Multi-Factor Authentication (AWS MFA) on your AWS root user account. MFA helps give root access to multiple users without actually sharing the root user login credentials - The given option just acts as a distractor. For extra security, AWS recommends that you use multi-factor authentication (MFA) for the root user in your account. With MFA, users have a device that generates a response to an authentication challenge. Both the user's credentials and the device-generated response are required to complete the sign-in process. If a user's password or access keys are compromised, your account resources are still secure because of the additional authentication requirement. Do not change passwords and access keys once created. This results in failure of connectivity in the application logic - The given option just acts as a distractor. You should change your own passwords and access keys regularly, and make sure that all IAM users

in your account do as well. That way, if a password or access key is compromised without your knowledge, you limit how long the credentials can be used to access your resources. You can apply a custom password policy to your account to require all your IAM users to rotate their AWS Management Console passwords. You can also choose how often they must do so.

~	A startup wants to migrate its data and applications from the on- premises data center to AWS Cloud. Which of the following options can be used by the startup to help with this migration? (Select two)	*1/1
	Raise a support ticket with AWS Support for further assistance	
	Use AWS Trusted Advisor to automate the infrastructure migration	
	Consult moderators on AWS Developer Forums	
	Leverage AWS Professional Services to accelerate the infrastructure migration	✓
	Utilize AWS Partner Network (APN) to build a custom solution for this infrastructure migration	✓

Feedback

Explanation

Correct options:

Leverage AWS Professional Services to accelerate the infrastructure migration
The AWS Professional Services organization is a global team of experts that can help you
realize your desired business outcomes when using the AWS Cloud. AWS Professional
Services consultants can supplement your team with specialized skills and experience
that can help you achieve quick results. Therefore, leveraging AWS Professional Services
can accelerate the infrastructure migration for the startup.

Utilize AWS Partner Network (APN) to build a custom solution for this infrastructure migration

The AWS Partner Network (APN) is the global partner program for technology and consulting businesses that leverage Amazon Web Services to build solutions and services for customers. The startup can work with experts from APN to build a custom solution for this infrastructure migration.

Incorrect options:

Raise a support ticket with AWS Support for further assistance - AWS Support cannot help with complex infrastructure migration of this nature. Hence this option is incorrect. Consult moderators on AWS Developer Forums - This is a made-up option and has been added as a distractor.

Use AWS Trusted Advisor to automate the infrastructure migration - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices on cost optimization, security, fault tolerance, service limits, and performance improvement. Trusted Advisor cannot automate the infrastructure migration.

✓ A multi-national company has just moved its infrastructure from its on- premises data center to AWS Cloud. As part of the shared responsibility model, AWS is responsible for which of the following?	
Configuring customer applications	
Service and Communications Protection or Zone Security	
O Patching guest OS	
Physical and Environmental controls	
Feedback Explanation Correct option: Physical and Environmental controls As part of the shared responsibility model, Physical and Environmental controls are part of the inherited controls and hence these are the responsibility of AWS. Shared Responsibility Model Overview: via - https://aws.amazon.com/compliance/shared-responsibility-model/ Incorrect options: Patching guest OS Configuring customer applications The customers must provide their own control implementation within their use of AWS services. Therefore, the customers are responsible for natching their guest OS as well as	

for configuring their applications.

Service and Communications Protection or Zone Security - Customers are responsible for Service and Communications Protection or Zone Security which may require the customers to route or zone data within specific security environments.

Please review the IT controls under the Shared Responsibility Model: via https://aws.amazon.com/compliance/shared-responsibility-model/

Which of the following AWS services support reservations to option costs? (Select three)	mize *0/1
Amazon Relational Database Service (Amazon RDS)	✓
Amazon Elastic Compute Cloud (Amazon EC2)	✓
Amazon DynamoDB	
Amazon DocumentDB	×
Amazon Simple Storage Service (Amazon S3)	
AWS Lambda	
Correct answer	
Amazon Relational Database Service (Amazon RDS)	
Amazon Elastic Compute Cloud (Amazon EC2)	
✓ Amazon DynamoDB	

Feedback

Explanation

Correct options:

Amazon Elastic Compute Cloud (Amazon EC2)

Amazon DynamoDB

Amazon Relational Database Service (Amazon RDS)

The following AWS services support reservations to optimize costs:

Amazon EC2 Reserved Instances (RI): You can use Amazon EC2 Reserved Instances (RI) to reserve capacity and receive a discount on your instance usage compared to running On-Demand instances.

Amazon DynamoDB Reserved Capacity: If you can predict your need for Amazon DynamoDB read-and-write throughput, Reserved Capacity offers significant savings over the normal price of DynamoDB provisioned throughput capacity.

Amazon ElastiCache Reserved Nodes: Amazon ElastiCache Reserved Nodes give you the option to make a low, one-time payment for each cache node you want to reserve and, in turn, receive a significant discount on the hourly charge for that node.

Amazon RDS RIs: Like Amazon EC2 RIs, Amazon RDS RIs can be purchased using No Upfront, Partial Upfront, or All Upfront terms. All Reserved Instance types are available for Aurora, MySQL, MariaDB, PostgreSQL, Oracle, and SQL Server database engines. Amazon Redshift Reserved Nodes: If you intend to keep an Amazon Redshift cluster running continuously for a prolonged period, you should consider purchasing reserved-node offerings. These offerings provide significant savings over on-demand pricing, but they require you to reserve compute nodes and commit to paying for those nodes for either a 1- or 3-year duration.

Incorrect options:

Amazon DocumentDB - Amazon DocumentDB (with MongoDB compatibility) is a fast, scalable, highly available, and fully managed document database service that supports MongoDB workloads. As a document database, Amazon DocumentDB makes it easy to store, query, and index JSON data.

AWS Lambda - AWS Lambda lets you run code without provisioning or managing servers. You pay only for the compute time you consume.

Amazon Simple Storage Service (Amazon S3) - Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance.

None of these AWS services support reservations to optimize costs.

✓	An e-commerce has deployed an RDS database in a single Availability Zone (AZ). The engineering team wants to ensure that in case of an AZ outage, the database should continue company working on the same endpoint without any manual administrative intervention. Which of the following solutions can address this use-case?	*1/1
0	Provision the database via AWS CloudFormation	
0	Deploy the database via AWS Elastic Beanstalk	
0	Configure the database in RDS read replica mode with automatic failover to the standby	
()	Configure the database in RDS Multi-AZ deployment with automatic failover to the standby	✓

Feedback

Correct option:

Configure the database in RDS Multi-AZ deployment with automatic failover to the standby When you provision a Multi-AZ DB Instance, Amazon RDS automatically creates a primary DB Instance and synchronously replicates the data to a standby instance in a different Availability Zone (AZ). In case of an infrastructure failure, Amazon RDS performs an automatic failover to the standby (or to a read replica in the case of Amazon Aurora), so that you can resume database operations as soon as the failover is complete. Since the endpoint for your DB Instance remains the same after a failover, your application can resume database operation without the need for manual administrative intervention. Incorrect options:

Deploy the database via AWS Elastic Beanstalk - You cannot deploy only a database via Elastic Beanstalk as its meant for automatic application deployment when you upload your code. Then Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. Hence this option is incorrect.

Configure the database in RDS read replica mode with automatic failover to the standby For RDS, Read replicas allow you to create read-only copies that are synchronized with your master database. There is no standby available while using read replicas. In case of infrastructure failure, you have to manually promote the read replica to be its own standalone DB Instance, which means that the database endpoint would change. Therefore, this option is incorrect.

Provision the database via AWS CloudFormation - You can provision the database via CloudFormation for sure, however, it does not provide any automatic recovery in case of a disaster.

References:

https://aws.amazon.com/rds/features/multi-az/

9/5/24, 1:24

PM	Exam set A Feb 1	
✓	A company provides you with a completed product that is run and managed by the company itself. As a customer, you only use the product without worrying about maintaining or managing the product.	*1/1
	Which cloud computing model does this kind of product belong to?	
	Product as a Service (Paas)	
•	Software as a Service (SaaS)	✓
\bigcirc	Infrastructure as a Service (IaaS)	
	Platform as a Service (PaaS)	
F	eedback	
C S S ti to s ti A ro n	Explanation Correct option: Coftware as a Service (SaaS) Coftware as a Service provides you with a completed product that is run and managed by the service provider. In most cases, people referring to Software as a Service are referring of end-user applications. With a SaaS offering, you do not have to think about how the service is maintained or how the underlying infrastructure is managed; you only need to hink about how you will use that particular piece of software. A common example of a SaaS application is the web-based email where you can send as eceive email without having to manage feature additions to the email product or maintaining the servers and operating systems that the email program is running on. Incorrect options: Infrastructure as a Service (laaS) - Infrastructure as a service (laaS), sometimes	g

abbreviated as laaS, contains the basic building blocks for cloud IT and typically provides access to networking features, computers (virtual or on dedicated hardware), and data storage space. Infrastructure as a Service provides you with the highest level of flexibility and management control over your IT resources and is most similar to existing IT resources that many IT departments and developers are familiar with today. Platform as a Service (PaaS) - Platform as a Service (PaaS) as a service removes the need for organizations to manage the underlying infrastructure (usually hardware and operating systems) and allow you to focus on the deployment and management of your applications. This helps you be more efficient as you don't need to worry about resource procurement, capacity planning, software maintenance, patching, or any of the other undifferentiated heavy lifting involved in running your application.

Product as a Service (Paas) - This is a made-up option, given only as a distractor.

×	Compared to the on-demand instance prices, what is the highest possible *0/1 discount offered for spot instances?
0	90
•	50
\bigcirc	75
0	10
Corr	ect answer
•	90
Co 90 Ai cl in ap EC In 75 10	mazon EC2 spot instances let you take advantage of unused EC2 capacity in the AWS oud. Spot instances are available at up to a 90% discount compared to the on-demand stance prices. You can use spot instances for various stateless, fault-tolerant, or flexible oplications such as big data, containerized workloads, CI/CD, web servers, higherformance computing (HPC), and other test & development workloads. C2 Pricing Options Overview: via - https://aws.amazon.com/ec2/pricing/ correct options:

~	Which of the following are the storage services offered by the AWS Cloud? (Select two)	*1/1
~	Amazon Elastic File System (Amazon EFS)	✓
~	Amazon Simple Storage Service (Amazon S3)	✓
	Amazon Simple Queue Service (SQS)	
	Amazon Simple Notification Service (SNS)	
	Amazon Elastic Compute Cloud (Amazon EC2)	
	Explanation Correct options: Amazon Simple Storage Service (Amazon S3) - Amazon Simple Storage Service (Amazos S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. Amazon Elastic File System (Amazon EFS) - Amazon Elastic File System (Amazon EFS) provides a simple, scalable, fully managed elastic NFS file system for use with AWS Closervices and on-premises resources. It is built to scale on-demand to petabytes without disrupting applications, growing and shrinking automatically as you add and remove file eliminating the need to provision and manage capacity to accommodate growth. Incorrect options: Amazon Elastic Compute Cloud (Amazon EC2) - Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the AWS cloud You can use EC2 to provision virtual servers on AWS Cloud. Amazon Simple Queue Service (SQS) - Amazon Simple Queue Service (SQS) is a fully managed message queuing service that enables you to decouple and scale microservic distributed systems, and serverless applications. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messagor requiring other services to be available. Amazon Simple Notification Service (SNS) - Amazon Simple Notification Service (SNS) highly available, durable, secure, fully managed pub/sub messaging service that enable, you to decouple microservices, distributed systems, and serverless applications. Using	oud t es, con d. ces, ges is a
	Amazon SNS topics, your publisher systems can fan-out messages to a large number o subscriber endpoints for parallel processing, including Amazon SQS queues, AWS Lamb	

functions, and HTTP/S webhooks. Additionally, SNS can be used to fan out notifications to

end users using mobile push, SMS, and email.

9/5/24, 1:24

PM	Exam set A Feb 1	
comp	h pillar of AWS Well-Architected Framework focuses on using IT and outing resources efficiently, while considering the right resource and sizes based on workload requirements?	*0/1
O Perfo	ormance Efficiency Pillar	
Cost	Optimization Pillar	
Opera	ational Excellence Pillar	×
Relial	bility Pillar	
Correct ans	swer	
Perfo	rmance Efficiency Pillar	
The performent of the performant of the performa	ion option: ance Efficiency Pillar ormance efficiency pillar focuses on using IT and computing resources efficiently. os include selecting the right resource types and sizes based on workload ents, monitoring performance, and making informed decisions to maintain by as business needs evolve. ance Efficiency uses the following design principles to help achieve and maintain workloads in the cloud: Democratize advanced technologies, Go global in Use serverless architectures, Experiment more often and Consider mechanical y. ormation on the Design principles of the Performance Efficiency pillar: via - 1.awsstatic.com/whitepapers/architecture/AWS-Performance-Efficiency-Pillar.pd	

Cost Optimization Pillar - The cost optimization pillar focuses on avoiding unnecessary costs. Key topics include understanding and controlling where the 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.

Reliability Pillar - The reliability pillar focuses on ensuring a workload performs its intended function correctly and consistently when it's expected to. A resilient workload quickly recovers from failures to meet business and customer demand. Key topics include distributed system design, recovery planning, and how to handle change.

As a Cloud Practitioner, which of the following credentials would y recommend for signing in to the AWS Management Console to me security best practices? (Select two)	•
Secret Access Key	
X.509 certificate	
✓ IAM Username and password	~
Access Key ID	
Multi Factor Authentication (MFA)	~
Explanation Correct option: IAM Username and password An AWS Identity and Access Management (IAM) user is an entity that you creat The IAM user represents the human user or workload who uses the IAM user to with AWS. A user in AWS consists of a name and credentials. You also need a p that the IAM user can type to sign in to interactive sessions using the AWS Man Console. Multi Factor Authentication (MFA) AWS multi-factor authentication (MFA) is an AWS Identity and Access Managen best practice that requires a second authentication factor in addition to user na password sign-in credentials. You can enable MFA at the AWS account level and and IAM users you have created in your account. Incorrect options: Secret Access Key	o interact password nagement ment (IAM) nme and
Access Keys are long-term credentials for an IAM user or the AWS account root can use access keys to sign programmatic requests to the AWS CLI or AWS AP or using the AWS SDK). Access keys consist of two parts: an access key ID (for AKIAIOSFODNN7EXAMPLE) and a secret access key (for example, wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY). You must use both the accent access key together to authenticate your requests. X.509 certificate X.509 certificates are used by the AWS Certificate Manager (ACM). ACM certificates X.509 SSL/TLS certificates that bind the identity of your website and the details organization to the public key that is contained in the certificate. One of the key and is typically made available in the X.509 certificate. The other key is private a stored securely. The X.509 certificate binds the identity of a user, computer, or cresource (the certificate subject) to the public key.	el (directly r example, r example, cess key ID cates are s of your ex is public and is

×	Which of the following statements are correct regarding the AWS Support *0/1 Plans? (Select two)			
	AWS Concierge service is available for the AWS Business Support and AWS Enterprise Support plans			
	A designated Technical Account Manager is available only for AWS Enterprise Support plan			
	Contextual guidance based on customer use-case, is available only for the AWS Enterprise support plan			
	Both Basic and AWS Developer Support plans have access to the core Trusted Advisor checks only			
	Infrastructure Event Management is included for free for AWS Business Support and AWS Enterprise Support plans and can be extended to AWS Developer Support plan for an additional fee			
Corr	Correct answer			
	A designated Technical Account Manager is available only for AWS Enterprise Support plan			
~	Both Basic and AWS Developer Support plans have access to the core Trusted Advisor checks only			

Feedback

Explanation

Correct options:

A designated Technical Account Manager is available only for AWS Enterprise Support plan

A designated Technical Account Manager (TAM) is the primary point of contact who provides guidance, architectural review, and ongoing communication to keep the customer informed and well prepared as they plan, deploy, and proactively optimize their AWS solutions. As the cornerstone of the Enterprise Support plan, your TAM serves as your guide and advocate, focused on delivering the right resources to support the success and ongoing operational health of your AWS infrastructure.

Both Basic and AWS Developer Support plans have access to the core Trusted Advisor checks only

AWS Trusted Advisor draws upon best practices learned from the aggregated operational history of serving hundreds of thousands of AWS customers. Trusted Advisor inspects your AWS environment and alerts you to opportunities to save money, improve system availability and performance, or help close security gaps. Access to the core Trusted Advisor checks, and guidance to provision your resources following best practices to increase performance and improve security are only part of the Basic and Developer support plans.

Incorrect options:

AWS Concierge service is available for the AWS Business Support and AWS Enterprise Support plans - AWS Concierge is a senior customer service agent who is assigned to your account when you subscribe to an Enterprise or qualified Reseller Support plan. This Concierge agent is your primary point of contact for billing or account inquiries; when you

don't know whom to call, they will find the right people to help. In most cases, the AWS Concierge is available during regular business hours in your headquarters' geography. Contextual guidance based on customer use-case, is available only for the AWS Enterprise support plan - Contextual quidance on how services fit together to meet your specific usecase, workload, or application is part of the Business support plan. Infrastructure Event Management is included for free for AWS Business Support and AWS Enterprise Support plans and can be extended to AWS Developer Support plan for an additional fee - AWS Infrastructure Event Management is a short-term engagement with AWS Support, available as part of the Enterprise-level Support product offering (also available to the AWS Enterprise On-Ramp Support plan subject to a cap of one per year), and available for additional purchase for AWS Business Support plan users. AWS Infrastructure Event Management partners with your technical and project resources to gain a deep understanding of your use case and provide architectural and scaling guidance for an event. Common use-case examples for AWS Event Management include advertising launches, new product launches, and infrastructure migrations to AWS. Infrastructure Event Management cannot be extended to a AWS Developer Support plan for an additional fee.

Reference:

✓	Which AWS service will help you receive alerts when the reservation utilization falls below the defined threshold?	*1/1
C) AWS CloudTrail	
C	AWS Trusted Advisor	
•) AWS Budgets	✓
C	AWS Pricing Calculator	
C	Feedback Correct option: AWS Budgets	
μ ν r ε	AWS Budgets gives you the ability to set custom budgets that alert you when your costs usage exceed (or are forecasted to exceed) your budgeted amount. You can also use AWS Budgets to set reservation utilization or coverage targets and eceive alerts when your utilization drops below the threshold you define. Reservation alerts are supported for Amazon EC2, Amazon RDS, Amazon Redshift, Amazon Elasticsearch reservations.	; or
a b a n	ncorrect options: AWS Pricing Calculator - AWS Pricing Calculator lets you explore AWS services and creating extinuity the cost of your use cases on AWS. You can model your solutions before building them, explore the price points and calculations behind your estimate, and find the available instance types and contract terms that meet your needs. This enables you to make informed decisions about using AWS. You cannot use this service to receive alert when the reservation utilization falls below the defined threshold.	e he
A C Id ii ii t	AWS CloudTrail - AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With AWS CloudTrail, you cog, continuously monitor, and retain account activity related to actions across your AWS infrastructure. AWS CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command-lools, and other AWS services. You cannot use this service to receive alerts when the deservation utilization falls below the defined threshold.	S
g e r	AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides real-time quidance to help provision your resources following AWS best practices. Whether establishing new workflows, developing applications, or as part of ongoing improvement ecommendations provided by AWS Trusted Advisor regularly help keep your solutions provisioned optimally. AWS Trusted Advisor analyzes your AWS environment and provided	

best practice recommendations in five categories: Cost Optimization, Performance, Security, Fault Tolerance, Service Limits. You cannot use this service to receive alerts

when the reservation utilization falls below the defined threshold.

✓ Which of the following is a repository service that helps in maintaining application dependencies via integration with commonly used package managers and build tools like Maven, Gradle, npm, etc?	*1/1
AWS CodeBuild	
AWS CodeCommit	
AWS CodeArtifact	✓
AWS CodeStar	

Feedback

Explanation

Correct option:

AWS CodeArtifact

AWS CodeArtifact is a fully managed artifact repository service that makes it easy for organizations of any size to securely store, publish, and share software packages used in their software development process. CodeArtifact can be configured to automatically fetch software packages and dependencies from public artifact repositories so developers have access to the latest versions. CodeArtifact works with commonly used package managers and build tools like Maven, Gradle, npm, yarn, twine, pip, and NuGet making it easy to integrate into existing development workflows.

Development teams often rely on both open-source software packages and those packages built within their organization. IT leaders need to be able to control access to and validate the safety of these software packages. Teams need a way to find up-to-date packages that have been approved for use by their IT leaders. To address these challenges, IT leaders turn to central artifact repository services to store and share packages. However, existing solutions often require teams to purchase licenses for software solutions that are complex to set up, scale, and operate.

AWS CodeArtifact is a pay-as-you-go artifact repository service that scales based on the needs of the organization. With CodeArtifact there is no software to update or servers to manage. In just a few clicks, IT leaders can set-up central repositories that make it easy for development teams to find and use the software packages they need. IT leaders can also approve packages and control distribution across the organization, ensuring development teams consume software packages that are safe for use.

How AWS CodeArtifact works: via - https://aws.amazon.com/codeartifact/ Incorrect options:

AWS CodeCommit - AWS CodeCommit is a fully-managed source control service that hosts secure Git-based repositories. It makes it easy for teams to collaborate on code in a secure and highly scalable ecosystem. CodeCommit eliminates the need to operate your own source control system or worry about scaling its infrastructure. You can use CodeCommit to securely store anything from source code to binaries, and it works seamlessly with your existing Git tools.

AWS CodeBuild - AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy. With CodeBuild, you don't need to provision, manage, and scale your own build servers. CodeBuild scales continuously and processes multiple builds concurrently, so your builds are not left waiting in a queue. You can get started quickly by using prepackaged build environments, or you can create custom build environments that use your own build tools.

AWS CodeStar - AWS CodeStar is a cloud based development service that provides the

tools you need to quickly develop, build, and deploy applications on AWS. With AWS CodeStar, you can set up your entire continuous delivery toolchain in minutes, allowing you to start releasing code faster. AWS CodeStar makes it easy for your whole team to work together securely, with built-in role-based policies that allow you to easily manage access and add owners, contributors, and viewers to your projects.

Each CodeStar project includes development tools, including AWS CodePipeline, AWS CodeCommit, AWS CodeBuild, and AWS CodeDeploy, that can be used on their own and with existing AWS applications.

✓ Which AWS services can be used to decouple components of a microservices based application on AWS Cloud? (Select two)	*1/1
Amazon Simple Notification Service (SNS)	✓
Amazon Elastic Compute Cloud (Amazon EC2)	
AWS Lambda	
AWS Step Functions	
Amazon Simple Queue Service (SQS)	✓

Feedback

Explanation

Correct option:

Amazon Simple Queue Service (SQS) - Amazon Simple Queue Service (SQS) is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be available.

Amazon Simple Notification Service (SNS) - Amazon Simple Notification Service (SNS) is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and serverless applications. Using Amazon SNS topics, your publisher systems can fan-out messages to a large number of subscriber endpoints for parallel processing, including Amazon SQS queues, AWS Lambda functions, and HTTP/S webhooks. Additionally, SNS can be used to fan out notifications to end users using mobile push, SMS, and email.

Therefore, both SNS and SQS can be used to decouple components of a microservices-based application.

Please review this reference architecture for building a decoupled order processing system using SNS and SQS: via - https://aws.amazon.com/blogs/compute/building-loosely-coupled-scalable-c-applications-with-amazon-sqs-and-amazon-sns/ Incorrect options:

Amazon Elastic Compute Cloud (Amazon EC2) - Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud with support for per-second billing. It is the easiest way to provision servers on AWS Cloud and access the underlying OS. EC2 cannot be used to decouple components of a microservices-based application.

AWS Lambda - AWS Lambda lets you run code without provisioning or managing servers. You pay only for the compute time you consume. Lambda cannot be used to decouple components of a microservices-based application.

AWS Step Functions - AWS Step Functions lets you coordinate multiple AWS services into serverless workflows. You can design and run workflows that stitch together services such as AWS Lambda, AWS Glue and Amazon SageMaker. AWS Step Functions cannot be used to decouple components of a microservices-based application.

✓	Which of the following services/tools offers a user-friendly graphical user interface to manage AWS Snowball devices without a need for command-line interface or REST APIs?	*1/1
0	AppStream 2.0	
•	AWS OpsHub	✓
0	AWS Transfer Family	
0	AWS OpsWorks	

Feedback

Explanation

Correct option:

AWS OpsHub

AWS OpsHub is a graphical user interface you can use to manage your AWS Snowball devices, enabling you to rapidly deploy edge computing workloads and simplify data migration to the cloud. With just a few clicks in AWS OpsHub, you have the full functionality of the Snowball devices at your fingertips; you can unlock and configure devices, drag-and-drop data to devices, launch applications, and monitor device metrics. Previously, customers operated Snowball devices by either entering commands into a command-line interface or by using REST APIs. Now with AWS OpsHub, you have an easier way to deploy and manage even large fleets of Snowball devices, all while operating without an internet connection.

AWS OpsHub takes all the existing operations available in the Snowball API and presents them as a simple graphical user interface. This interface helps you quickly and easily migrate data to the AWS Cloud and deploy edge computing applications on Snow Family Devices.

AWS OpsHub provides a unified view of AWS services that are running on Snow Family Devices and automates operational tasks through AWS Systems Manager. With AWS OpsHub, users with different levels of technical expertise can easily manage a large number of Snow Family Devices. With just a few clicks, you can unlock devices, transfer files, manage Amazon EC2 instances, and monitor device metrics.

When your Snow device arrives at your site, you download, install, and launch the AWS OpsHub application on a client machine, such as a laptop. After installation, you can unlock the device and start managing it and using supported AWS services locally. AWS OpsHub provides a dashboard that summarizes key metrics such as storage capacity and active instances on your device. It also provides a selection of the AWS services that are supported on the Snow Family Devices. Within minutes, you can begin transferring files to the device.

Incorrect options:

AppStream 2.0 - Amazon AppStream 2.0 is a fully managed non-persistent application and desktop streaming service. You centrally manage your desktop applications on AppStream 2.0 and securely deliver them to any computer. You can easily scale to any number of users across the globe without acquiring, provisioning, and operating hardware or infrastructure. AppStream 2.0 is built on AWS, so you benefit from a data center and network architecture designed for the most security-sensitive organizations. This is not a tool for AWS Snowball devices.

AWS OpsWorks - AWS OpsWorks is a configuration management service that provides managed instances of Chef and Puppet. Chef and Puppet are automation platforms that allow you to use code to automate the configurations of your servers. OpsWorks lets you

use Chef and Puppet to automate how servers are configured, deployed, and managed across your Amazon EC2 instances or on-premises compute environments.

AWS Transfer Family - The AWS Transfer Family is the aggregated name of AWS Transfer for SFTP, AWS Transfer for FTPS, and AWS Transfer for FTP. The AWS Transfer Family offers fully managed support for the transfer of files over SFTP, FTPS, and FTP directly into and out of Amazon S3 or Amazon EFS.

✓	Which of the following statements are true about AWS Shared Responsibility Model? (Select two)	*1/1
✓	AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest operating system and applications	✓
	Amazon Elastic Compute Cloud (Amazon EC2) is categorized as Infrastructure a Service (IaaS) and hence AWS will perform all of the necessary security configuration and management tasks	is a
	For abstracted services, such as Amazon S3, AWS operates the infrastructure la the operating system, platforms, encryption options, and appropriate permission for accessing the S3 resources	-
	AWS maintains the configuration of its infrastructure devices and is responsible configuring the guest operating systems, databases, and applications	for
~	AWS trains AWS employees, but a customer must train their own employees	✓

Feedback

Explanation

Correct options:

AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest operating system and applications AWS trains AWS employees, but a customer must train their own employees "Security of the Cloud" is the responsibility of AWS - AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud. This infrastructure is composed of the hardware, software, networking, and facilities that run AWS Cloud services. As part of Patch Management, a Shared Control responsibility of AWS Shared Responsibility Model, AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest OS and applications. "Security in the Cloud" is the responsibility of the customer. Customer responsibility will be determined by the AWS Cloud services that a customer selects. This determines the amount of configuration work the customer must perform as part of their security responsibilities.

As part of Awareness & Training, a Shared Control responsibility of the AWS Shared Responsibility Model, AWS trains AWS employees, but a customer must train their own employees.

AWS Shared Responsibility Model: via - https://aws.amazon.com/compliance/shared-responsibility-model/

Incorrect options:

AWS maintains the configuration of its infrastructure devices and is responsible for configuring the guest operating systems, databases, and applications - As part of Configuration Management, a Shared Control responsibility of the AWS Shared Responsibility Model, AWS maintains the configuration of its infrastructure devices, but a customer is responsible for configuring their own guest operating systems, databases, and applications.

Amazon Elastic Compute Cloud (Amazon EC2) is categorized as Infrastructure as a Service (IaaS) and hence AWS will perform all of the necessary security configuration and management tasks - A service such as Amazon Elastic Compute Cloud (Amazon EC2) is categorized as Infrastructure as a Service (IaaS) and, as such, requires the customer to

perform all of the necessary security configuration and management tasks. Customers that deploy an Amazon EC2 instance are responsible for the management of the guest operating system (including updates and security patches), any application software or utilities installed by the customer on the instances, and the configuration of the AWS-provided firewall (called a security group) on each instance.

For abstracted services, such as Amazon S3, AWS operates the infrastructure layer, the operating system, platforms, encryption options, and appropriate permissions for accessing the S3 resources - For abstracted services, such as Amazon S3 and Amazon DynamoDB, AWS operates the infrastructure layer, the operating system, and platforms, and customers access the endpoints to store and retrieve data. Customers are responsible for managing their data (including encryption options), classifying their assets, and using IAM tools to apply the appropriate permissions.

✓ A Security Group has been changed in an AWS account and the manage of the account has asked you to find out the details of the user who changed it. As a Cloud Practitioner, which AWS service will you use to fetch the necessary information?	r *1/1
AWS Trusted Advisor	
AWS CloudTrail	✓
Amazon Inspector	
AWS X-Ray	

Feedback

Explanation
Correct option:
AWS CloudTrail

AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor and retain account activity related to actions across your AWS infrastructure. CloudTrail provides the event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command-line tools, and other AWS services. This event history simplifies security analysis, resource change tracking, and troubleshooting. In addition, you can use AWS CloudTrail to detect unusual activity in your AWS accounts. These capabilities help simplify operational analysis and troubleshooting. AWS CloudTrail provides visibility into user activity by recording actions taken on your account. CloudTrail records important information about each action, including who made the request, the services used, the actions performed, parameters for the actions, and the response elements returned by the AWS service. This information helps you to track changes made to your AWS resources and to troubleshoot operational issues. CloudTrail makes it easier to ensure compliance with internal policies and regulatory standards. How AWS CloudTrail Works: via - https://aws.amazon.com/cloudtrail/ Incorrect options:

AWS X-Ray - AWS X-Ray helps developers analyze and debug production, distributed applications, such as those built using a microservices architecture. With X-Ray, you can understand how your application and its underlying services are performing to identify and troubleshoot the root cause of performance issues and errors. X-Ray provides an end-to-end view of requests as they travel through your application, and shows a map of your application's underlying components. X-Ray is not for tracking user actions when interacting with the AWS systems.

Amazon Inspector - Amazon Inspector is an automated security assessment service that helps you test the network accessibility of your Amazon EC2 instances and the security state of your applications running on the instances. Amazon Inspector allows you to automate security vulnerability assessments throughout your development and deployment pipeline or against static production systems. This allows you to make security testing a more regular occurrence as part of the development and IT operations. AWS Trusted Advisor - AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices. Trusted Advisor checks help optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits. Whether establishing new workflows, developing applications, or as part of ongoing improvement, take advantage of the

recommendations provided by Trusted Advisor on a regular basis to help keep your solutions provisioned optimally.

×	A Project Manager, working on AWS for the first time, is confused about how credits are used in AWS. There are two credits available in the	* 0/
	manager's account. Credit one is for \$100, expires July 2022, and can be used for either Amazon S3 or Amazon EC2. Credit two is for \$50, expires	
	December 2022, and can be used only for Amazon EC2. The manager's	
	AWS account has incurred two charges: \$1000 for Amazon EC2 and \$500	
	for Amazon S3.	
	What will be the outcome on the overall bill once the credits are used? (Select two)	
	Credit one is applied which expires in July to the Amazon FC2 charge which	

Only one credit can be used in one billing cycle and the customer has a choice choose from the available ones	~
	to
Then, credit two is applied to \$500 for Amazon S3 usage	
Credit one is applied, which expires in July, to Amazon S3 usage which leaves y with a \$1000 Amazon EC2 charge and a \$400 Amazon S3 charge	ou
Then, credit two is applied to the remaining \$900 of Amazon EC2 usage	

Correct answer

Credit one is applied, which expires in July, to the Amazon EC2 charge which leaves you with a \$900 Amazon EC2 charge and a \$500 Amazon S3 charge

Then, credit two is applied to the remaining \$900 of Amazon EC2 usage

Feedback

Explanation

Correct options:

Credit one is applied, which expires in July, to the Amazon EC2 charge which leaves you with a \$900 Amazon EC2 charge and a \$500 Amazon S3 charge

Then, credit two is applied to the remaining \$900 of Amazon EC2 usage

Credits are applied in the following order:

Soonest expiring

Least number of applicable products

Oldest credit

For the given use case, credit one is applied, which expires in July, to the Amazon EC2 charge which leaves you with a \$900 Amazon EC2 charge and a \$500 Amazon S3 charge. Then, credit two is applied to the remaining \$900 of Amazon EC2 usage. You need to pay \$850 for Amazon EC2 and \$500 for Amazon S3. All your credits are now exhausted. Incorrect options:

Credit one is applied, which expires in July, to Amazon S3 usage which leaves you with a \$1000 Amazon EC2 charge and a \$400 Amazon S3 charge

Only one credit can be used in one billing cycle and the customer has a choice to choose from the available ones

Then, credit two is applied to \$500 for Amazon S3 usage

These three options contradict the explanation provided above, so these options are incorrect.

Reference:

•	✓ A Cloud Practitioner wants to use CIDR block notation when providing an IP address range. Which of the following AWS network services/utilities allow this feature? (Select two)	*1/1
	AWS Cost Explorer	
	Security group	✓
	Amazon Simple Storage Service (Amazon S3)	
	AWS Lambda	
	Network access control list (network ACL)	✓
	A security group acts as a firewall that controls the traffic allowed to and from the resources in your virtual private cloud (VPC). You can choose the ports and protocols to allow for inbound traffic and for outbound traffic. For each security group, you add separate sets of rules for inbound traffic and outbound traffic. By default, new security groups start with only an outbound rule that allows all traffic to leave the resource. You must add rules to enable any inbound traffic or to restrict the outbound traffic. Security groups allow CIDR block notation when providing an IP address range. Network access control list (network ACL) A network access control list (ACL) allows or denies specific inbound or outbound traffic at the subnet level. You can use the default network ACL for your VPC, or you can create custom network ACL for your VPC with rules that are similar to the rules for your security groups in order to add an additional layer of security to your VPC. There is no additional charge for using network ACLs. Network access control lists (ACL) allow CIDR block notation when providing an IP address range. Incorrect options: AWS Lambda - AWS Lambda is a serverless, event-driven compute service that lets you	а
	run code for virtually any type of application or backend service without provisioning or managing servers. AWS Cost Explorer - AWS Cost Explorer has an easy-to-use interface that lets you	
	visualize understand and manage your AWS costs and usage over time	

AWS Cost Explorer - AWS Cost Explorer has an easy-to-use interface that lets you visualize, understand, and manage your AWS costs and usage over time.

Amazon Simple Storage Service (Amazon S3) - Amazon Simple Storage Service (Amazon S3) is an object storage built to store and retrieve any amount of data from anywhere.

✓ As part of a flexible pricing model, AWS offers two types of Savings Plans. Which of the following are the Savings Plans from AWS?	* 1/1
Reserved Instances (RI) Savings Plans, EC2 Instance Savings Plans	
Compute Savings Plans, EC2 Instance Savings Plans	✓
Instance Savings Plans, Storage Savings Plans	
Compute Savings Plans, Storage Savings Plans	
Feedback	

Explanation

Correct option:

Compute Savings Plans, EC2 Instance Savings Plans

Savings Plans is a flexible pricing model that provides savings of up to 72% on your AWS compute usage. This pricing model offers lower prices on Amazon EC2 instances usage, regardless of instance family, size, OS, tenancy or AWS Region, and also applies to AWS Fargate and AWS Lambda usage.

Savings Plans offer significant savings over On-Demand, just like EC2 Reserved Instances, in exchange for a commitment to use a specific amount of compute power (measured in \$/hour) for a one or three-year period. You can sign up for Savings Plans for a 1- or 3-year term and easily manage your plans by taking advantage of recommendations, performance reporting and budget alerts in the AWS Cost Explorer.

AWS offers two types of Savings Plans:

1. Compute Savings Plans provide the most flexibility and help to reduce your costs by up to 66%. These plans automatically apply to EC2 instance usage regardless of instance family, size, AZ, region, OS or tenancy, and also apply to Fargate and Lambda usage. For example, with Compute Savings Plans, you can change from C4 to M5 instances, shift a workload from EU (Ireland) to EU (London), or move a workload from EC2 to Fargate or Lambda at any time and automatically continue to pay the Savings Plans price.

2. EC2 Instance Savings Plans provide the lowest prices, offering savings up to 72% in exchange for a commitment to the usage of individual instance families in a region (e.g. M5 usage in N. Virginia). This automatically reduces your cost on the selected instance family in that region regardless of AZ, size, OS or tenancy. EC2 Instance Savings Plans give you the flexibility to change your usage between instances within a family in that region. For example, you can move from c5.xlarge running Windows to c5.2xlarge running Linux and automatically benefit from the Savings Plans prices.

How Savings Plans Work: via - https://aws.amazon.com/savingsplans/ Incorrect options:

Compute Savings Plans, Storage Savings Plans

Reserved Instances (RI) Savings Plans, EC2 Instance Savings Plans

Instance Savings Plans, Storage Savings Plans

These three options contradict the explanation above, so these options are incorrect.

★ Which of the following statements are correct regarding the AWS Control *0/1 Tower and Service Control Policies? (Select two) AWS Control Tower is an AWS native service providing a pre-defined set of blueprints and quardrails to help customers implement a landing zone for new AWS accounts Service Control Policies (SCPs), by default, affect all the users in the AWS Organization. They have to be configured to effect only the member accounts, if needed AWS Control Tower helps you deploy a multi-account AWS environment and operate it with day-to-day reminders and recommendations Service Control Policies (SCPs) can help grant permissions to the accounts in X your organization Service Control Policies (SCPs) are a type of organization policy that you can use to manage permissions in your organization Correct answer AWS Control Tower is an AWS native service providing a pre-defined set of ✓ blueprints and guardrails to help customers implement a landing zone for new AWS accounts Service Control Policies (SCPs) are a type of organization policy that you can use to manage permissions in your organization **Feedback** Explanation Correct options: AWS Control Tower is an AWS native service providing a pre-defined set of blueprints and guardrails to help customers implement a landing zone for new AWS accounts

AWS Control Tower is an AWS native service providing a pre-defined set of blueprints and guardrails to help customers implement a landing zone for new AWS accounts AWS Control Tower is an AWS native service providing a pre-defined set of blueprints and guardrails to help customers implement a landing zone for new AWS accounts. AWS Control Tower is designed to provide an easy, self-service setup experience and an interactive user interface for ongoing governance with guardrails. While Control Tower automates creation of a new landing zone with pre-configured blueprints (e.g., AWS IAM Identity Center for directory and access), the AWS Landing Zone solution provides a configurable setup of a landing zone with rich customization options through custom addons (e.g., Active Directory, Okta Directory) and ongoing modifications through a code deployment and configuration pipeline.

How AWS Control Tower Works: via - https://aws.amazon.com/controltower/ Service Control Policies (SCPs) are a type of organization policy that you can use to manage permissions in your organization

Service control policies (SCPs) are a type of organization policy that you can use to manage permissions in your organization. Service control policies (SCPs) offer central control over the maximum available permissions for all accounts in your organization. Service control policies (SCPs) help you to ensure your accounts stay within your organization's access control guidelines. SCPs are available only in an organization that

has all features enabled. SCPs aren't available if your organization has enabled only the consolidated billing features.

Incorrect options:

AWS Control Tower helps you deploy a multi-account AWS environment and operate it with day-to-day reminders and recommendations - AWS Control Tower helps you deploy a multi-account AWS environment based on best practices, however, the customer is still responsible for day-to-day operations and checking compliance status. Enterprises that need help operating regulated infrastructure in the cloud should consider a certified MSP partner or AWS Managed Services (AMS).

Service Control Policies (SCPs) can help grant permissions to the accounts in your organization - SCPs alone are not sufficient to grant permissions to the accounts in your organization. No permissions are granted by an SCP. An SCP defines a guardrail, or sets limits, on the actions that the account's administrator can delegate to the IAM users and roles in the affected accounts. The administrator must still attach identity-based or resource-based policies to IAM users or roles, or to the resources in your accounts to actually grant permissions. The effective permissions are the logical intersection between what is allowed by the SCP and what is allowed by the IAM and resource-based policies. Service Control Policies (SCPs), by default, affect all the users in the AWS Organization. They have to be configured to effect only the member accounts, if needed - SCPs don't affect users or roles in the management account. They affect only the member accounts in your organization.

★ Which of the following AWS services has encryption enabled by default? *	0/1
Amazon Relational Database Service (Amazon RDS)	
AWS CloudTrail Logs	
Amazon Elastic Block Store (Amazon EBS)	
Amazon Elastic File System (Amazon EFS)	×
Correct answer	
AWS CloudTrail Logs	

Feedback

Correct option:

AWS CloudTrail Logs

AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. AWS CloudTrail can be used to record AWS API calls and other activity for your AWS account and save the recorded information to log files in an Amazon Simple Storage Service (Amazon S3) bucket that you choose. By default, the log files delivered by CloudTrail to your S3 bucket are encrypted using server-side encryption with Amazon S3 managed keys (SSE-S3). Incorrect options:

Amazon Elastic File System (Amazon EFS) - Amazon Elastic File System (Amazon EFS) provides a simple, scalable, fully managed elastic NFS file system for use with AWS Cloud services and on-premises resources. Amazon EFS supports two forms of encryption for file systems, encryption of data in transit and encryption at rest. This is an optional feature and has to be enabled by user if needed.

Amazon Elastic Block Store (Amazon EBS) - Amazon Elastic Block Store (EBS) is an easy to use, high-performance block storage service designed for use with Amazon Elastic Compute Cloud (EC2) instances for both throughput and transaction-intensive workloads at any scale. Encryption (at rest and during transit) is an optional feature for EBS and has to be enabled by the user.

Amazon Relational Database Service (Amazon RDS) - Amazon Relational Database Service (Amazon RDS) can encrypt your Amazon RDS DB instances. Data that is encrypted at rest includes the underlying storage for DB instances, its automated backups, read replicas, and snapshots. Encryption for RDS is an additional feature and the user needs to enable it.

✓ Which of the following is a serverless AWS service? *	1/1
AWS Elastic Beanstalk	
Amazon Elastic Compute Cloud (Amazon EC2)	
Amazon EMR	
AWS Lambda	✓

Feedback

Explanation

Correct option:

AWS Lambda - 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.

How Lambda Works: via - https://aws.amazon.com/lambda/ Incorrect options:

Amazon Elastic Compute Cloud (Amazon EC2) - Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud with support for per-second billing. It is the easiest way to provision servers on AWS Cloud and access the underlying OS. EC2 is not a serverless service.

Amazon EMR - Amazon EMR is the industry-leading cloud big data platform for processing vast amounts of data using open source tools such as Hadoop, Apache Spark, Apache Hive, Apache HBase, Apache Flink, Apache Hudi, and Presto. Amazon EMR can be used to provision resources to run big data workloads on Hadoop clusters. Amazon EMR provisions EC2 instances to manage its workload. Amazon EMR is not a serverless service.

AWS Elastic Beanstalk - AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services. You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, autoscaling to application health monitoring. AWS Elastic Beanstalk provisions servers so it is not a serverless service.

X AWS Shield Advanced provides expanded DDoS attack protection fo applications running on which of the following resources? (Select two			
Amazon Route 53			
AWS CloudFormation			
AWS Elastic Beanstalk			
✓ AWS Global Accelerator	✓		
✓ Amazon API Gateway	×		
Correct answer			
✓ Amazon Route 53			
✓ AWS Global Accelerator			

Feedback

Explanation
Correct options:
Amazon Route 53
AWS Global Accelerator

AWS Shield Standard is activated for all AWS customers, by default. For higher levels of protection against attacks, you can subscribe to AWS Shield Advanced. With Shield Advanced, you also have exclusive access to advanced, real-time metrics and reports for extensive visibility into attacks on your AWS resources. With the assistance of the DRT (DDoS response team), AWS Shield Advanced includes intelligent DDoS attack detection and mitigation for not only for network layer (layer 3) and transport layer (layer 4) attacks but also for application layer (layer 7) attacks.

AWS Shield Advanced provides expanded DDoS attack protection for web applications running on the following resources: Amazon Elastic Compute Cloud, Elastic Load Balancing (ELB), Amazon CloudFront, Amazon Route 53, AWS Global Accelerator. Incorrect options:

Amazon API Gateway - Amazon API Gateway is a fully managed service that makes it easy for developers to create, publish, maintain, monitor, and secure APIs at any scale. APIs act as the "front door" for applications to access data, business logic, or functionality from your backend services. Amazon Web Application Firewall is used to monitor the HTTP and HTTPS requests that are forwarded to an Amazon API Gateway API. It is not covered under AWS Shield Advanced.

AWS CloudFormation - AWS CloudFormation allows you to use programming languages or a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across all regions and accounts. CloudFormation is not covered under AWS Shield Advanced.

AWS Elastic Beanstalk - AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with various programming languages. You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. Elastic Beanstalk is covered under AWS Shield Standard. Advanced coverage is not offered for this service.

✓ Which of the following AWS Support plans provides access to online training with self-paced labs?	*1/1
AWS Enterprise Support	✓
AWS Developer Support	
AWS Enterprise On-Ramp Support	
AWS Business Support	

Feedback

Explanation Correct option:

AWS Enterprise Support

AWS offers four different support plans to cater to each of its customers - AWS Developer Support, AWS Business Support, AWS Enterprise On-Ramp Support and AWS Enterprise Support plans. A basic support plan is included for all AWS customers.

AWS Enterprise Support plan provides customers with concierge-like service where the main focus is on helping the customer achieve their outcomes and find success in the cloud. With AWS Enterprise Support, you get access to online training with self-paced labs, 24x7 technical support from high-quality engineers, tools and technology to automatically manage the health of your environment, consultative architectural guidance, a designated Technical Account Manager (TAM) to coordinate access to proactive/preventative programs and AWS subject matter experts.

AWS Enterprise Support Plan Offerings: via -

https://aws.amazon.com/premiumsupport/plans/enterprise/

Incorrect options:

AWS Developer Support - You should use the AWS Developer Support plan if you are testing or doing early development on AWS and want the ability to get technical support during business hours as well as general architectural guidance as you build and test. AWS Business Support - You should use the AWS Business Support plan if you have production workloads on AWS and want 24x7 access to technical support and architectural guidance in the context of your specific use-cases.

AWS Enterprise On-Ramp Support - You should use the AWS Enterprise On-Ramp Support plan if you have production/business critical workloads in AWS and want 24x7 access to technical support and need expert guidance to grow and optimize in the Cloud. You get full access to AWS Trusted Advisor Best Practice Checks.

None of these three support plans provide access to online training with self-paced labs.

×	A team manager needs data about the changes that have taken place for AWS resources in his account during the past two weeks. Which AWS service can help get this data?	*0/1
0	Amazon Inspector	
0	AWS Config	
•	AWS CloudTrail	×
0	Amazon CloudWatch	
Corr	rect answer	
•	AWS Config	

Feedback

Explanation Correct option:

AWS Config

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. With 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. This enables you to simplify compliance auditing, security analysis, change management, and operational troubleshooting.

While AWS Config helps you answer questions like - "What did my AWS resource look like?" at a point in time. You can use AWS CloudTrail to answer "Who made an API call to modify this resource?"

Diagrammatic representation of how AWS Config works: via - https://aws.amazon.com/config/

Incorrect options:

Amazon CloudWatch - You can use Amazon CloudWatch to collect and track metrics, collect and monitor log files, and set alarms. Amazon CloudWatch can monitor AWS resources such as Amazon EC2 instances, Amazon DynamoDB tables, and Amazon RDS DB instances, as well as custom metrics generated by your applications and services, and any log files your applications generate. You can use Amazon CloudWatch to gain systemwide visibility into resource utilization, application performance, and operational health. You can use these insights to react and keep your application running smoothly. CloudWatch cannot however tell if the configuration of the resource has changed and what exactly changed.

Amazon Inspector - Amazon Inspector is an automated security assessment service that helps you test the network accessibility of your Amazon EC2 instances and the security state of your applications running on the instances. Amazon Inspector allows you to automate security vulnerability assessments throughout your development and deployment pipeline or against static production systems. This allows you to make security testing a more regular occurrence as part of the development and IT operations. AWS CloudTrail - AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS

infrastructure. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command-line tools, and other AWS services. This event history simplifies security analysis, resource change tracking, and troubleshooting. In addition, you can use CloudTrail to detect unusual activity in your AWS accounts. These capabilities help simplify operational analysis and troubleshooting.

✓ Which of the following AWS Support plans provide access to only core checks from the AWS Trusted Advisor Best Practice Checks? (Select two)	*1/1 o)
AWS Business Support	
AWS Basic Support	✓
AWS Enterprise On-Ramp Support	
AWS Enterprise Support	
✓ AWS Developer Support	✓

Feedback

Correct option:

AWS Basic Support

The AWS Basic Support plan only provides access to the following:

Customer Service & Communities - 24x7 access to customer service, documentation, whitepapers, and support forums. AWS Trusted Advisor - Access to the core Trusted Advisor checks and quidance to provision your resources following best practices to increase performance and improve security. AWS Health - Your Account Health Dashboard : A personalized view of the health of your AWS services, and alerts when your resources are impacted.

AWS Developer Support - You should use the AWS Developer Support plan if you are testing or doing early development on AWS and want the ability to get email-based technical support during business hours as well as general architectural quidance as you build and test. This plan provides access to just the core Trusted Advisor checks from the Service Quota and basic Security checks.

Exam Alert:

Please review the differences between the AWS Developer Support, AWS Business Support, AWS Enterprise On-Ramp Support and AWS Enterprise Support plans as you can expect at least a couple of questions on the exam:

via - https://aws.amazon.com/premiumsupport/plans/

Incorrect options:

AWS Enterprise Support - AWS Enterprise Support plan provides customers with concierge-like service where the main focus is helping the customer achieve their outcomes and find success in the cloud. With AWS Enterprise Support, you get 24x7 technical support from high-quality engineers, tools and technology to automatically manage the health of your environment, consultative architectural guidance and a designated Technical Account Manager (TAM) to coordinate access to proactive/preventative programs and AWS subject matter experts. You also get full access to AWS Trusted Advisor Best Practice Checks.

AWS Business Support - You should use the AWS Business Support plan if you have production workloads on AWS and want 24x7 phone, email and chat access to technical support and architectural guidance in the context of your specific use-cases. You also get full access to AWS Trusted Advisor Best Practice Checks.

AWS Enterprise On-Ramp Support - You should use the AWS Enterprise On-Ramp Support plan if you have production/business critical workloads in AWS and want 24x7 access to technical support and need expert guidance to grow and optimize in the Cloud. You get full access to AWS Trusted Advisor Best Practice Checks.

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