Exam Jan 17 Set B

Total points 55/65



Time: 120 minutes Full Marks: 65 Pass Marks: 47

0 of 0 points

Full Name * Ira Chand

All Questions are compulsory

55 of 65 points

	of the following AWS services will help provision a logically d network for your AWS resources?	*1/1
Amazo	on Virtual Private Cloud (Amazon VPC)	✓
O AWS Pr	rivateLink	
Amazo	on Route 53	
O AWS Fi	irewall Manager	
Feedback		
Explanation	n	

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:

Correct option:

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.

Reference:

https://aws.amazon.com/vpc/

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

References:

https://aws.amazon.com/guardduty/

https://aws.amazon.com/detective/fags/

✓	Which of the following are the security best practices suggested by AWS for Identity and Access Management (IAM)? (Select two)	*1/1
	Do not share security credentials between accounts, use IAM roles instead	✓
	Enable AWS Multi-Factor Authentication (AWS MFA) on your AWS root user account. MFA helps give root access to multiple users without actually sharing throot user login credentials	ne
	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	
	When you create IAM policies, grant the least privileges required to perform a task	✓

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 (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.

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html

Exam Jan 17 Set B

*1/1
✓

Feedback

9/2/24. 1:18 PM

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).

References: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-

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

✓	Which of the following points have to be considered when choosing an AWS Region for a service? (Select two)	*1/1
/	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 busin	ess
~	AWS Region chosen should be geographically closer to the user base that utilizes the hosted AWS services	✓
	The AWS Region chosen should have all its Availability Zones (AZ) within 100 Kr radius, to keep latency low for hosted applications	ns
	The AWS Region should have 5G networks, to seamlessly access the breadth of AWS services in the region	

Feedback

Explanation
Correct options:

Compliance and Data Residency guidelines of the AWS Region should match your business requirements

If you have data residency requirements, you can choose the AWS Region that is in close proximity to your desired location. You retain complete control and ownership over the region in which your data is physically located, making it easy to meet regional compliance and data residency requirements.

AWS Region chosen should be geographically closer to the user base that utilizes the hosted AWS services

When deploying your applications and workloads to the cloud, you have the flexibility in selecting a technology infrastructure and AWS Region that is closest to your primary target of users.

Incorrect options:

The AWS Region with high availability index should be considered for your business - AWS delivers the highest network availability of any cloud provider. Each region is fully isolated and comprised of multiple Availability Zone (AZs), which are fully isolated partitions of our infrastructure. All AWS Regions are designed to be highly available.

The AWS Region should have 5G networks, to seamlessly access the breadth of AWS services in the region - AWS Local Zones and AWS Wavelength, with telco providers, provide performance for applications that require single-digit millisecond latencies by delivering AWS infrastructure and services closer to end-users and 5G connected devices. But, having a 5G network is not a factor for a customer to decide on an AWS Region.

The AWS Region chosen should have all its Availability Zones (AZ) within 100 Kms radius, to keep latency low for hosted applications - An Availability Zone (AZ) is one or more discrete data centers with redundant power, networking, and connectivity in an AWS Region. AZ's are physically separated by a meaningful distance, many kilometers, from any

other Availability Zone (AZ), although all are within 100 km (60 miles) of each other. This applies to all Availability Zones (AZ) and hence is not a criterion for choosing an AWS Region.

Reference:

https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

✓ Which AWS tool/service will help you define your cloud infrastructure using popular programming languages such as Python and JavaScript?	*1/1
AWS Cloud Development Kit (AWS CDK)	✓
AWS Elastic Beanstalk	
AWS CloudFormation	
AWS CodeBuild	
Feedback	
Explanation Correct option:	
AWS Cloud Development Kit (AWS CDK)	

The AWS Cloud Development Kit (AWS CDK) is an open-source software development framework to define your cloud application resources using familiar programming languages.

AWS Cloud Development Kit (AWS CDK) uses the familiarity and expressive power of programming languages for modeling your applications. It provides you with high-level components called constructs that preconfigure cloud resources with proven defaults, so you can build cloud applications without needing to be an expert. AWS CDK provisions your resources in a safe, repeatable manner through AWS CloudFormation. It also enables you to compose and share your own custom constructs that incorporate your organization's requirements, helping you start new projects faster.

In short, you use the AWS CDK framework to author AWS CDK projects which are executed to generate AWS CloudFormation templates.

How Cloud Development Kit (AWS CDK) works: via - https://aws.amazon.com/cdk/

Incorrect options:

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, etc. You can simply upload your code in a programming language of your choice and AWS Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and auto scaling to application health monitoring.

AWS CloudFormation - AWS CloudFormation is a service that gives developers and businesses an easy way to create a collection of related AWS and third-party resources, and provision and manage them in an orderly and predictable fashion. AWS CloudFormation is designed to allow resource lifecycles to be managed repeatably, predictably, and safely while allowing for automatic rollbacks, automated state management, and management of resources across accounts and regions. AWS Cloud Development Kit (AWS CDK) helps code the same in higher-level languages and converts them into AWS CloudFormation templates.

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 AWS CodeBuild, you don't need to provision, manage, and scale your own build servers. AWS CodeBuild scales continuously and processes multiple builds concurrently, so your builds are not left waiting in a queue.

Reference:

https://aws.amazon.com/cdk/

✓	Which of the following statements are true about AWS Elastic Beanstalk? *1/1 (Select two)
	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 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, but does not support 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
	There is no additional charge for AWS Elastic Beanstalk. You pay only for the underlying AWS resources that your application consumes

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. AWS 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 Elastic Beanstalk.

References:

https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/Welcome.html

https://aws.amazon.com/elasticbeanstalk/fags/

✓ Which of the following statements is INCORRECT regarding Amazon EBS *1/1 Elastic Volumes?	
Amazon EBS Elastic Volumes can persist data after their termination	
Amazon EBS Elastic Volumes can be bound to several Availability Zones (AZs)	
Amazon EBS Elastic Volumes can be mounted to one instance at a time	
Amazon EBS Elastic Volumes are bound to a specific Availability Zone (AZ)	
Feedback	
Explanation Correct option:	
Amazon EBS Elastic Volumes can be bound to several Availability Zones (AZs)	
An Amazon EBS Elastic Volume is a durable, block-level storage device that you can attach to your instances. After you attach a volume to an instance, you can use it as you would use a physical hard drive.	
When using Amazon EBS Elastic Volumes, the volume, and the instance must be in the same Availability Zone (AZ).	
Incorrect options:	
Amazon EBS Elastic Volumes can be mounted to one instance at a time - At the Certified Cloud Practitioner level, Amazon EBS Elastic Volumes can be mounted to one instance at a time. It is also possible that an Amazon EBS Elastic Volume is not mounted to an instance.	
Amazon EBS Elastic Volumes are bound to a specific Availability Zone (AZ) - As mentioned, when using Amazon EBS Elastic Volumes, the volume and the instance must be in the same Availability Zone(AZ).	
Amazon EBS Elastic Volumes can persist data after their termination - Unlike an Amazon EC2 instance store, an Amazon EBS Elastic Volume is off-instance storage that can persist independently from the life of an instance.	
Reference:	

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes.html

✓	Which pillar of AWS Well-Architected Framework focuses on using IT and computing resources efficiently, while considering the right resource types and sizes based on workload requirements?	*1/1
0	Operational Excellence Pillar	
•	Performance Efficiency Pillar	✓
0	Reliability Pillar	
0	Cost Optimization Pillar	
Fe	eedback	
	explanation orrect option:	
_	auforman a Efficiency Dillor	

Performance Efficiency Pillar

The performance efficiency pillar focuses on using IT and computing resources efficiently. Key topics include selecting the right resource types and sizes based on workload requirements, monitoring performance, and making informed decisions to maintain efficiency as business needs evolve.

Performance Efficiency uses the following design principles to help achieve and maintain efficient workloads in the cloud: Democratize advanced technologies, Go global in minutes, Use serverless architectures, Experiment more often and Consider mechanical sympathy.

More information on the Design principles of the Performance Efficiency pillar: via - https://d1.awsstatic.com/whitepapers/architecture/AWS-Performance-Efficiency-Pillar.pdf

Incorrect options:

Operational Excellence Pillar - The operational excellence pillar focuses on running and monitoring systems to deliver business value, and continually improving processes and procedures. Key topics include automating changes, responding to events, and defining standards to manage daily operations.

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.

Reference:

https://aws.amazon.com/architecture/well-architected/

An eCommerce company plans to use the AWS Cloud to quickly deliver new functionality in an iterative manner, minimizing the time to market. Which feature of the AWS Cloud provides this functionality?	/1
Agility	
Ocst effectiveness	
Fault tolerance	
Elasticity	
Feedback	
Explanation In a cloud computing environment, new IT resources are only a click away, which means that you reduce the time to make those resources available to your developers from weeks to just minutes.	
This results in a dramatic increase in agility for the organization, since the cost and time it takes to experiment and develop is significantly lower.	
CORRECT: "Agility" is the correct answer.	
INCORRECT: "Elasticity" is incorrect. Elasticity enables infrastructure to scale based on demand and helps applications perform and be cost effective. It does not reduce time to market.	
INCORRECT: "Fault tolerance" is incorrect as this is involved with ensuring applications stay available in the event of a fault.	
INCORRECT: "Cost effectiveness" is incorrect. The AWS Cloud can be cost effective but this is not the benefit that allows faster time to market.	
References:	
https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html	

✓	A Security Group has been changed in an AWS account and the manager 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?	*1/1
C) Amazon Inspector	
C	AWS Trusted Advisor	
•) AWS CloudTrail	✓
C	AWS X-Ray	
F	Feedback	
Е	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.

Reference:

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

✓ AWS are able to continue to reduce their pricing due to: *	1/1
Pay-as-you go pricing	
The AWS global infrastructure	
Reserved instance pricing	
Economies of scale	~

Feedback

Explanation

By using cloud computing, you can achieve a lower variable cost than you can get on your own. Because usage from hundreds of thousands of customers is aggregated in the cloud, providers such as AWS can achieve higher economies of scale, which translates into lower pay as-you-go prices.

CORRECT: "Economies of scale" is the correct answer.

INCORRECT: "The AWS global infrastructure" is incorrect. The global infrastructure is the basis of the AWS platform but it is not the reason prices continue to reduce.

INCORRECT: "Pay-as-you go pricing" is incorrect. This pricing model is a benefit but not the reason unit prices are reducing.

INCORRECT: "Reserved instance pricing" is incorrect. This pricing model results in savings for customers in specific areas but not the reason for the overall reduction in prices.

References:

https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html

✓ A multinational company has just moved its infrastructure to AWS Cloud *1/1 and has employees traveling to different offices around the world. How should the company set the AWS accounts?
As employees travel, they can use other employees' accounts
Create global permissions so users can access resources from all around the world
There is nothing to do, AWS Identity and Access Management (AWS IAM) is a global service
Create an IAM user for each user in each AWS region
Feedback
Explanation Correct option:
There is nothing to do, AWS Identity and Access Management (AWS IAM) is a global service
AWS Identity and Access Management (IAM) enables you to manage access to AWS services and resources securely. Using IAM, you can create and manage IAM users and IAM user groups, and use permissions to allow and deny their access to AWS resources.
AWS IAM is a global service. Users created within IAM can access their accounts all around the world, and deploy resources in every region.
Incorrect options:
Create an IAM user for each user in each AWS region - IAM users can access their accounts from different AWS regions.
Create global permissions so users can access resources from all around the world - AWS Identity and Access Management (AWS IAM) is a global service. You can use it globally without implementing anything.
As employees travel, they can use other employees' accounts - You should never share you IAM user credentials.
Reference:
https://aws.amazon.com/iam/

✓ Which AWS tool can provide best practice recommendations for performance, service limits, and cost optimization?	*1/1
Amazon CloudWatch	
AWS Health Dashboard - Service health	
Amazon Inspector	
AWS Trusted Advisor	✓
Feedback Explanation	
Correct option:	
AWS Trusted Advisor	
AWS Trusted Advisor is an online resource to help you reduce cost, increase perform and improve security by optimizing your AWS environment. AWS Trusted Advisor pro real-time guidance to help you provision your resources following AWS best practice	vides
How AWS Trusted Advisor works: via - https://aws.amazon.com/premiumsupport/technology/trusted-advisor/	
Incorrect options:	
Amazon Inspector - Amazon Inspector is an automated security assessment service helps improve the security and compliance of applications deployed on your Amazon instances. Amazon Inspector automatically assesses applications for exposure, vulnerabilities, and deviations from best practices. Nevertheless, it does not provide practice recommendations.	n EC2
AWS Health Dashboard - Service health - AWS Health Dashboard - Service health pubmost up-to-the-minute information on the status and availability of all AWS services tabular form for all Regions that AWS is present in. It does not provide best practice recommendations.	
Amazon CloudWatch - Amazon CloudWatch is a monitoring and observability service for DevOps engineers, developers, site reliability engineers (SREs), and IT managers. Amazon CloudWatch provides data and actionable insights to monitor applications, respond to system-wide performance changes, optimize resource utilization, and genunified view of operational health. This is an excellent service for building Resilient systems. Think resource performance monitoring, events, and alerts; think Amazon CloudWatch. Amazon CloudWatch does not provide best practice recommendations	t a
Reference:	
https://aws.amazon.com/premiumsupport/technology/trusted-advisor/	

Which types of monitoring can be provided by Amazon Clo (Select TWO)	udWatch? *0/1
Account management	
API access	
Resource utilization	✓
Performance and availability of AWS services	×
Application performance	
Correct answer	
Resource utilization	
Application performance	
Feedback Explanation Correct options: Application performance Resource utilization Amazon CloudWatch is a monitoring service for AWS cloud resources a	• •
you run on AWS. You can use Amazon CloudWatch to collect and track and monitor log files, and set alarms. Amazon CloudWatch can monitor such as Amazon Elastic Compute Cloud (Amazon EC2) instances, Ama tables, and Amazon Amazon Relational Database Service (Amazon RDS well as custom metrics generated by your applications and services, an applications generate.	r AWS resources zon DynamoDB S) DB instances, as
You can use Amazon CloudWatch to gain system-wide visibility into res application performance, and operational health. You can use these ins keep your application running smoothly.	
How Amazon CloudWatch works: via - https://aws.amazon.com/cloudv	vatch/
Incorrect options:	
API access - Recording API calls is a feature of AWS CloudTrail, not Am	azon CloudWatch.
Performance and availability of AWS services - The AWS Health - Your AD Dashboard gives you a personalized view of the performance and available services underlying your AWS resources, not Amazon CloudWatch.	
Account management - AWS Identity and Access Management (AWS IA to manage accounts, not Amazon CloudWatch.	\M) is usually used

References:

https://aws.amazon.com/cloudwatch/features/

https://aws.amazon.com/cloudwatch/

✓	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. Which AWS service will help achieve this requirement?	*1/1
0	AWS CloudFormation	
0	Amazon Quicksight	
•	AWS Partner Solutions(formerly Quick Starts)	✓
0	AWS Elastic Beanstalk	
_	andhank	

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.

Reference:

https://aws.amazon.com/solutions/partners/faq/

×	Which of the following data sources are used by Amazon Detective to analyze events and identify potential security issues?	*0/1
0	AWS CloudTrail logs, Amazon VPC Flow Logs, and Amazon GuardDuty findings	
0	Amazon CloudWatch Logs, AWS CloudTrail logs and Amazon Inspector logs	
•	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	
Corr	ect answer	
	AWS CloudTrail logs, Amazon VPC Flow Logs, and Amazon GuardDuty findings	

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.

Reference:

https://aws.amazon.com/detective/

9/2/24, 1:18 PM

PM	Exam Jan 17 Set B	
✓	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. Which cloud computing model does this kind of product belong to?	
•	Infrastructure as a Service (IaaS) Software as a Service (SaaS)	
0	Platform as a Service (PaaS)	
0	Product as a Service (Paas)	
E. C	eedback xplanation correct option:	
S	oftware as a Service (SaaS)	
th to se	oftware 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 to end-user applications. With a SaaS offering, you do not have to think about how the ervice is maintained or how the underlying infrastructure is managed; you only need to mink about how you will use that particular piece of software.	
re	common example of a SaaS application is the web-based email where you can send and eceive email without having to manage feature additions to the email product or naintaining the servers and operating systems that the email program is running on.	
In	acorrect options:	
a. a.	Infrastructure as a Service (laaS) - Infrastructure as a service (laaS), sometimes bbreviated as laaS, contains the basic building blocks for cloud IT and typically provides coess to networking features, computers (virtual or on dedicated hardware), and data torage 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.

Reference:

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

✓	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?	
	Host the application directly on Amazon S3 Amazon Lightsail AWS Fargate Amazon Elastic Compute Cloud (EC2) with Amazon S3 for storage	✓

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.

References:

https://aws.amazon.com/lightsail/

https://docs.aws.amazon.com/AmazonS3/latest/dev/WebsiteHosting.html

/	Which cloud architecture design principle is supported by deploying workloads across multiple Availability Zones?	*1/1
\bigcirc	Automate infrastructure.	
\bigcirc	Enable elasticity.	
\bigcirc	Design for agility.	
•	Design for failure.	✓
Ar Zc be ins ap CC IN ex	rplanation mazon EC2 instances can be deployed in an Amazon VPC across multiple Availability ones. You would then typically use an Elastic Load Balancer (ELB) to distribute load etween the available instances. This architecture enables high availability as if a single stance fails or if something fails that causes an outage in an entire Availability Zone, the oplication still has available instances to continue to service demand. ORRECT: "Design for failure" is the correct answer. CORRECT: "Design for agility" is incorrect. This is not an example of agility; it is an example of high availability and fault tolerance. CORRECT: "Automate infrastructure" is incorrect. This is not an example of automating	ı.
	CORRECT: "Enable elasticity" is incorrect. This is not an example of elasticity. Elasticity ould be enabled by using Amazon EC2 Auto Scaling.	′
Re	sala be chabled by doing hindzon Eoz hato ocaning.	
	eferences:	

✓	Which security control tool can be used to deny traffic from a specific IP address?	*1/1
•	Network Access Control List (network ACL)	✓
0	Security Group	
0	Amazon GuardDuty	
0	VPC Flow Logs	
F	eedback	
	Explanation Correct option:	
٨	letwork Access Control List (network ACL)	
v. n	Network Access Control List (network ACL) is an optional layer of security for your irtual private cloud (VPC) that acts as a firewall for controlling traffic in and out of one chore subnets (i.e. it works at the subnet level). A network ACL has separate inbound and outbound rules, and each rule can either allow or deny traffic.	
	letwork Access Control List (network ACL) Overview: via - ttps://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html	
Ir	ncorrect options:	
ir Ie	Recurity Group - A security group acts as a virtual firewall for your instance to control abound and outbound traffic. Security groups act at the instance level, not at the subnet evel. You can specify allow rules, but not deny rules. You can specify separate rules for abound and outbound traffic.	
m a u G	mazon GuardDuty - Amazon GuardDuty is a threat detection service that continuously nonitors for malicious or unauthorized behavior to help you protect your AWS accounts and workloads. It monitors for activity such as unusual API calls or potentially nauthorized deployments that indicate a possible account compromise. Amazon GuardDuty also detects potentially compromised instances or reconnaissance by ttackers. It cannot deny traffic from a specific IP address.	
tl p A	PC Flow Logs - VPC Flow Logs is a feature that enables you to capture information about the IP traffic going to and from network interfaces in your VPC. Flow log data can be sublished to Amazon CloudWatch Logs or Amazon Simple Storage Service (Amazon S3) after you've created a flow log, you can retrieve and view its data in the chosen lestination. However, it cannot deny traffic from a specific IP address.	
R	Peference:	
<u>h</u>	ttps://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html	

✓ Which tool/service will help you get a forecast of your spending for the next 12 months?	*1/1
AWS Pricing Calculator	
AWS Cost Explorer	✓
Consolidated Billing of AWS Organizations	
AWS Marketplace	
Feedback	
Explanation Correct option:	
AUO 0	

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.

References:

https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-what-is.html

https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/billing-what-is.html

https://aws.amazon.com/aws-cost-management/

★ 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
Contextual guidance based on customer use-case, is available only for the AWS Enterprise 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
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
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 guidance on how services fit together to meet your specific use-case, 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:

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

	Example 11 Gold
~	What can a Cloud Practitioner use the AWS Total Cost of Ownership *1/1 (TCO) Calculator for?
	Enable billing alerts to monitor actual AWS costs compared to estimated costs
(Estimate savings when comparing the AWS Cloud to an on-premises environment
	Estimate a monthly bill for the AWS Cloud resources that will be used
	Generate reports that break down AWS Cloud compute costs by duration, resource, or tags
	Feedback
	Explanation The TCO calculators allow you to estimate the cost savings when using AWS, compared to on-premises, and provide a detailed set of reports that can be used in executive presentations. The calculators also give you the option to modify assumptions that best meet your business needs.
	CORRECT: "Estimate savings when comparing the AWS Cloud to an on-premises environment" is the correct answer.
	INCORRECT: "Generate reports that break down AWS Cloud compute costs by duration, resource, or tags" is incorrect. This describes the AWS Cost & Usage Report.

INCORRECT: "Estimate a monthly bill for the AWS Cloud resources that will be used" is incorrect. This describes the AWS Pricing Calculator (or Simple Monthly Calculator).

INCORRECT: "Enable billing alerts to monitor actual AWS costs compared to estimated costs" is incorrect. Billing alerts can be enabled using Amazon CloudWatch.

References:

https://aws.amazon.com/tco-calculator/

fo	WS Support offers five support plans for its customers. Which of the bllowing features are covered as part of the AWS Basic Support Plan? Select two)	* 0/1
_ o	One-on-one responses to account and billing questions	
ir	nfrastructure event management	
	Jse-case guidance – What AWS products, features, and services to use for best upporting your specific needs	
✓ C	Client-side diagnostic tools	×
✓ S	Service health checks	/
Correct	t answer	
✓ 0	One-on-one responses to account and billing questions	
✓ S	Service health checks	
Feed	lback	
	anation ect options:	
One-	on-one responses to account and billing questions	
Servi	ice health checks	
AWS	Support offers five support plans: Basic support plan, AWS Developer support plan, Business support plan, AWS Enterprise oort plan.	
incre mont acce and l	Basic plan offers support for account and billing questions and service quota eases. The other plans offer a number of technical support cases with pay-by-the-th pricing and no long-term contracts. All AWS customers automatically have 24/7 eas to these features of the Basic support plan: 1. One-on-one responses to account billing questions 2. Support forums 3. Service health checks 4. Documentation, nical papers, and best practice guides	
via -	https://docs.aws.amazon.com/awssupport/latest/user/aws-support-plans.html	
Incor	rrect options:	
	nt-side diagnostic tools - Customers with any of the Developer, Business, Enterprise- Ramp, Enterprise support plans have access to client-side diagnostic tools.	
supp	case guidance – What AWS products, features, and services to use for best porting your specific needs - Customers with any of the Business, Enterprise-On-Ramp orprise 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. After analysis, AWS provides architectural and scaling guidance for an event.

References:

https://docs.aws.amazon.com/awssupport/latest/user/aws-support-plans.html

https://docs.aws.amazon.com/awssupport/latest/user/getting-started.html

×	Which of the following statements are true about AWS Regions and Availability Zones (AZ)? (Select two)	*0/1
	All traffic between Availability Zones (AZ) is encrypted	
	An Availability Zone (AZ) is a physical location where AWS clusters the data centers	×
	AWS calls each group of logical data centers as AWS Regions	
	Traffic between Availability Zones (AZ) is not encrypted by default, but can be configured from AWS console	
	Each AWS Region consists of multiple, isolated, and physically separate Availability Zones (AZ) within a geographic area	✓
Сс	prrect answer	
	All traffic between Availability Zones (AZ) is encrypted	
	Each AWS Region consists of multiple, isolated, and physically separate Availa Zones (AZ) within a geographic area	bility
	Feedback	
	Explanation Correct options:	
	Each AWS Region consists of multiple, isolated, and physically separate Availability Zor (AZ) within a geographic area	ies
	AWS has the concept of a Region, which is a physical location around the world where valueter data centers. AWS calls each group of logical data centers an Availability Zone (AZ). Each AWS Region consists of multiple, isolated, and physically separate Availability Zones (AZ) within a geographic area.	
	Each Availability Zone (AZ) has independent power, cooling, and physical security and is connected via redundant, ultra-low-latency networks. AWS customers focused on high availability can design their applications to run in multiple Availability Zones (AZ) to	5

achieve even greater fault tolerance. AWS infrastructure Regions meet the highest levels of security, compliance, and data protection.

All traffic between Availability Zones (AZ) is encrypted

All Availability Zones (AZ) in an AWS Region are interconnected with high-bandwidth, lowlatency networking, over fully redundant, dedicated metro fiber providing high-throughput, low-latency networking between Availability Zones (AZ). All traffic between Availability Zones (AZ) is encrypted.

Incorrect options:

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.

An Availability Zone (AZ) is a physical location where AWS clusters the data centers - AWS has the concept of a Region, which is a physical location around the world where AWS clusters the data centers.

AWS calls each group of logical data centers as AWS Regions - AWS has the concept of a Region, which is a physical location around the world where AWS clusters the data centers. AWS calls each group of logical data centers as an Availability Zone (AZ).

Reference:

https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

✓ Which Amazon EC2 tool acts as a virtual firewall to control inbound and outbound traffic to an EC2 instance?	*1/1
Network access control list (ACL)	
Security group	✓
O AWS WAF	
O AWS Shield	
Feedback	
Explanation A security group acts as a virtual firewall, controlling the traffic that is allowed to reach a	and
leave the resources that it is associated with. For example, after you associate a securit group with an EC2 instance, it controls the inbound and outbound traffic for the instance	-

CORRECT: "Security Group" is the correct answer (as explained above.)

INCORRECT: "AWS Shield" is incorrect. AWS Shield is a managed Distributed Denial of Service (DDoS) protection service and does not control traffic.

INCORRECT: "AWS WAF" is incorrect, as the WAF is a Web Application Firewall - something that is placed in front of your web applications outside of your VPC - whereas security groups live within your VPC, controlled instance specific inbound and outbound traffic.

INCORRECT: "Network access control list (ACL)" is incorrect. Although Network ACLs are virtual firewalls which control access within a VPC, Network ACLs exist on the subnet level, not on the instance level.

References:

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

\	A financial services company needs to retain its data for 10 years to meet 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?	*1/1
\bigcirc	Amazon S3 Intelligent-Tiering	
\bigcirc	Amazon S3 Glacier Flexible Retrieval	
•	Amazon S3 Glacier Deep Archive	✓
0	Amazon S3 Standard-Infrequent Access (S3 Standard-IA)	

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 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.

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 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:

https://aws.amazon.com/s3/storage-classes/

AWS CloudTrail Insights

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?	*1/1
AWS X-Ray	
Amazon Detective	
AWS CloudTrail Insights	/
AWS Config	
Feedback	
Explanation Correct option:	

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-respond-to-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.

Reference:

https://docs.aws.amazon.com/awscloudtrail/latest/userguide/logging-insights-events-with-cloudtrail.html

✓ Which of the following AWS services can be used to generate, use, and manage encryption keys on the AWS Cloud?
Amazon Inspector
AWS Secrets Manager
AWS CloudHSM
AWS GuardDuty
Feedback
Explanation Correct option:
AWS CloudHSM
The AWS CloudHSM service helps you meet corporate, contractual, and regulatory compliance requirements for data security by using dedicated Hardware Security Module (HSM) instances within the AWS cloud.
AWS CloudHSM allows you to securely generate, store, and manage cryptographic keys used for data encryption in a way that keys are accessible only to you.
How AWS CloudHSM works: via - https://aws.amazon.com/cloudhsm/
Incorrect options:
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. It cannot be used to generate, use, and manage encryption keys.
AWS GuardDuty - Amazon GuardDuty is a threat detection service that continuously monitors for malicious or unauthorized behavior to help you protect your AWS accounts and workloads. It cannot be used to generate, use, and manage encryption keys.
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. It is integrated with AWS CloudHSM to generate, use, and manage encryption keys.
Reference:
https://aws.amazon.com/cloudhsm/

✓	Which of the following statements are true about AWS Shared Responsibility Model? (Select two)	1/1
	AWS trains AWS employees, but a customer must train their own employees	/
	AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest operating system and applications	/
	For abstracted services, such as Amazon S3, AWS operates the infrastructure layers the operating system, platforms, encryption options, and appropriate permissions for accessing the S3 resources	
	Amazon Elastic Compute Cloud (Amazon EC2) is categorized as Infrastructure as Service (IaaS) and hence AWS will perform all of the necessary security configuration and management tasks	а
	AWS maintains the configuration of its infrastructure devices and is responsible for configuring the guest operating systems, databases, and applications	or
F	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	
Α	AWS trains AWS employees, but a customer must train their own employees	
ir c s R	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.	
d a	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 esponsibilities.	
R	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-esponsibility-model/	
Ir	ncorrect 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.

Reference:

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

✓ Which of the following AWS services are offered free of cost? (Select two)	*1/1
AWS Elastic Beanstalk	✓
Amazon CloudWatch facilitated detailed monitoring of EC2 instances	
AWS Auto Scaling	✓
Amazon EC2 Spot Instances	
An Elastic IP address, which is chargeable as long as it is associated with an E0 instance	C2
Feedback	
Explanation Correct options:	
AWS Elastic Beanstalk	
There is no additional charge for AWS Elastic Beanstalk. You pay for AWS resources (e.g. EC2 instances or S3 buckets) you create to store and run your application. You only pay what you use, as you use it; there are no minimum fees and no upfront commitments.	
AWS Auto Scaling	
There is no additional charge for AWS Auto Scaling. You pay only for the AWS resources needed to run your applications and Amazon CloudWatch monitoring fees.	
Incorrect options:	
Amazon EC2 Spot Instances - Amazon EC2 Spot Instances let you take advantage of unused EC2 capacity in the AWS cloud. Spot Instances are available at up to a 90% discount compared to On-Demand prices. Spot Instances are, however, not free.	
Amazon CloudWatch facilitated detailed monitoring of EC2 instances - If you enable detailed monitoring, you are charged per metric that is sent to CloudWatch. You are not charged for data storage. Data is available in 1-minute periods, as opposed to 5-minute periods at no charge, for basic monitoring.	
An Elastic IP address, which is chargeable as long as it is associated with an EC2 instanton. An Elastic IP address doesn't incur charges as long as all the following conditions are true: 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 attached to it and the Elastic IP address is associated with an attached network interfacts such as a Network Load Balancer or NAT gateway.	1
References:	
https://aws.amazon.com/elasticbeanstalk/pricing/	

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-cloudwatch-new.html

https://aws.amazon.com/premiumsupport/knowledge-center/elastic-ip-charges/

✓ A company based in Sydney hosts its application on an Amazon Elastic *1/1 Compute Cloud (Amazon EC2) instance in ap-southeast-2. They would like to deploy the same Amazon EC2 instances in eu-south-1. Which of the following AWS entities can address this use case?
Elastic Load Balancing (ELB)
O AWS Lambda
Amazon EBS Elastic Volume snapshots
Amazon Machine Image (AMI)
Feedback
Explanation Correct option:
Amazon Machine Image (AMI)
An Amazon Machine Image (AMI) provides the information required to launch an instance. You must specify an Amazon Machine Image (AMI) when you launch an instance. You can launch multiple instances from a single Amazon Machine Image (AMI) when you need multiple instances with the same configuration.
How to use an Amazon Machine Image (AMI): via - https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html
Incorrect options:
Elastic Load Balancing (ELB) - Elastic Load Balancing (ELB) automatically distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and Lambda functions. It can handle the varying load of your application traffic in a single Availability Zone (AZ) or across multiple Availability Zones (AZs). It cannot be used to deploy the same EC2 instances across different Availability Zones (AZs).
AWS Lambda - AWS Lambda lets you run code without provisioning or managing servers. It cannot be used to deploy the same EC2 instances across different Availability Zones (AZs).
Amazon EBS Elastic Volume snapshots - An Amazon EBS snapshot is a point-in-time copy of your Amazon EBS volume. EBS snapshots are one of the components of an AMI, but EBS snapshots alone cannot be used to deploy the same EC2 instances across different Availability Zones (AZs).

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html

Reference:

✓ 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
Resiliency	
Elasticity	
Horizontal scaling	
Reliability	
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 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	

Incorrect options:

also qualify as elastic.

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.

References:

https://wa.aws.amazon.com/wellarchitected/2020-07-02T19-33-23/wat.concept.elasticity.en.html

https://wa.aws.amazon.com/wellarchitected/2020-07-02T19-33-23/wat.concepts.wa-concepts.en.html

A company needs to use third-party software for its workload on AWS.	* 1/1
Is there a feature or service of AWS that the company can use to purchase the software?	
AWS Resource Access Manager	
AWS Managed Services	
AWS Marketplace	✓
AWS License Manager	

Feedback

Explanation

AWS Marketplace is a curated digital catalog that makes it easy for organizations to discover, procure, entitle, provision, and govern third-party software. You can find thousands of software listings from popular categories like security, business applications, and data & analytics, and across specific industries, such as healthcare, financial services, and public sector.

CORRECT: "AWS Marketplace" is the correct answer (as explained above.)

INCORRECT: "AWS Managed Service" is incorrect as this describes services in which AWS customers don't have to provision their own infrastructure.

INCORRECT: "AWS License Manager" is incorrect as it is a service that makes it easier for you to manage Software Licenses.

INCORRECT: "AWS Resource Access Manager" is incorrect as it is a service that helps you to securely share your resources across AWS accounts, within your organization or organizational units (OUs) within AWS and has nothing to do with third party services.

References:

https://aws.amazon.com/mp/marketplace-service/overview/

×	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 Random Access (S3 Random-Access)	
•	Amazon S3 Standard-Infrequent Access (S3 Standard-IA)	×
0	Amazon S3 Intelligent-Tiering (S3 Intelligent-Tiering)	
0	Amazon S3 Standard (S3 Standard)	
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.

Reference:

https://aws.amazon.com/s3/storage-classes/

*1/1
✓

Feedback

Explanation Correct option:

Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA)

Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA) is for data that is accessed less frequently but requires rapid access when needed. Unlike other S3 Storage Classes which store data in a minimum of three Availability Zones (AZs), S3 One Zone-IA stores data in a single Availability Zone (AZ) and costs 20% less than S3 Standard-IA. S3 One Zone-IA is ideal for customers who want a lower-cost option for infrequently accessed data but do not require the availability and resilience of S3 Standard or S3 Standard-IA. It's a good choice for storing secondary backup copies of on-premises data or easily re-creatable data. You can also use it as cost-effective storage for data that is replicated from another AWS Region using S3 cross-region replication (S3 CRR).

Exam Alert:

Please review this detailed comparison of S3 Storage Classes as you can expect a few questions on this aspect of S3: via - https://aws.amazon.com/s3/storage-classes/

Incorrect options:

Amazon S3 Glacier Deep Archive - Amazon S3 Glacier Deep Archive storage class is designed to provide durable and secure long-term storage for large amounts of data at a price that is competitive with off-premises tape archival services. Data is stored across 3 or more AWS Availability Zones(AZs) and can be retrieved in 12 hours or less. You no longer need to deal with expensive and finicky tape drives, arrange for off-premises storage, or worry about migrating data to newer generations of media.

Amazon 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, Amazon 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. It can be used for backups, but it is more expensive than S3 One Zone - Infrequent Access. Hence, S3 One Zone - Infrequent Access is a better option for secondary backup copies.

Reference:

https://aws.amazon.com/s3/storage-classes/

✓	A gaming company needs compute and storage services close to edge locations in order to ensure ultra-low latency for end-users and devices that connect through mobile networks. Which AWS service is the best fit for this requirement?	*1/1
0	AWS Snowball Edge	
0	AWS Outposts	
0	AWS Snowmobile	
•	AWS Wavelength	✓

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 low-latency 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.

Reference:

https://aws.amazon.com/wavelength/

Exam Jan 17 Set B

9/2/24. 1:18 PM

Which AWS service is used to store and commit code privately and also offer features for version control?	*0/1
AWS CodeCommit	
AWS CodeStar	×
AWS CodePipeline	
AWS CodeBuild	
Correct answer	
AWS CodeCommit	
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.

References:

https://aws.amazon.com/codecommit/

https://aws.amazon.com/codestar/

3 PM	Exam Jan 17 Set B
✓	Which benefit of AWS enables companies to replace upfront fixed *1/1 expenses with variable expenses when using on-demand technology services?
0	Economies of scale
\bigcirc	High availability
•	Pay-as-you-go pricing
0	Global reach
Fe	eedback
Pa	xplanation ay-as-you-go-pricing is an example of the AWS advantage "Trade capital expense for ariable expense". This is documented in the Six Advantages of Cloud Computing.
go	stead of having to invest heavily in data centers and servers before you know how you're ping to use them, you can pay only when you consume computing resources, and pay nly for how much you consume.
C	ORRECT: "Pay-as-you-go pricing" is the correct answer.
ex lo th	ICORRECT: "Economies of scale" is incorrect. This is not an example of replacing fixed openses with variable expenses. The benefit of economies of scale relates to achieving a wer variable cost than you can get on your own. Because usage from hundreds of cousands of customers is aggregated in the cloud, providers such as AWS can achieve the gher economies of scale, which translates into lower pay as-you-go prices.
ac m	ICORRECT: "Global reach" is incorrect. This is most closely associated with the dvantage "Go global in minutes". With AWS you can easily deploy your application in ultiple regions around the world with just a few clicks. This means you can provide lower tency and a better experience for your customers at minimal cost.
In	ICORRECT: "High availability" is incorrect. High availability is not related to pricing. stead, it means you can design your applications to be available with minimum owntime even when disruptions occur.

References:

 $\underline{https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html}$

\	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 owned CMK in the service you wish to use encryption	
•	Use AWS managed master keys that are automatically created in your account for each service	✓
0	Use AWS KMS APIs to encrypt data within your own application by using the AW Encryption SDK	'S

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.

Reference:

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

✓ Which AWS service is a fully-managed source control service that hosts secure Git-based repositories?	*1/1
AWS CodeBuild	
AWS CodeDeploy	
AWS CodeCommit	✓
AWS CodePipeline	
Feedback	
Explanation 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.)
CORRECT: "AWS CodeCommit" is the correct answer.	
INCORRECT: "AWS CodeBuild" is incorrect. AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy.	
INCORRECT: "AWS CodeDeploy" is incorrect. CodeDeploy is a deployment service that automates application deployments to Amazon EC2 instances, on-premises instances, serverless Lambda functions, or Amazon ECS services.	
INCORRECT: "AWS CodePipeline" is incorrect. AWS CodePipeline is a fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates.	
References:	

https://aws.amazon.com/codecommit/features/

✓ Which of the following options is NOT a feature of Amazon Inspector? * 1/1
Inspect running operating systems (OS) against known vulnerabilities
Analyze against unintended network accessibility
Track configuration changes
Automate security assessments
Feedback
Explanation Correct option:
Track configuration changes
Tracking configuration changes is a feature of 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/
Incorrect options:
Automate security assessments
Analyze against unintended network accessibility
Inspect running operating systems (OS) against known vulnerabilities
These options are all features of 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 Inspector security assessments help you check for unintended network accessibility of your Amazon EC2 instances and for vulnerabilities on those EC2 instances.
Amazon Inspector also offers predefined software called an agent that you can optionally install in the operating system of the EC2 instances that you want to assess. The agent monitors the behavior of the EC2 instances, including network, file system, and process activity. It also collects a wide set of behavior and configuration data (telemetry).

References:

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

https://aws.amazon.com/inspector/

Which of the following should be used to improve the security of access to the AWS Management Console? (Select TWO.)	*1/1
AWS Multi-Factor Authentication (AWS MFA)	✓
AWS Certificate Manager	
✓ Strong password policies	✓
AWS Secrets Manager	
Security group rules	
Feedback	
Explanation For extra security, AWS recommends that you require multi-factor authentication (MFA) all users in your account. With MFA, users have a device that generates a response to a authentication challenge.	
Both the user's credentials (something you know) and the device-generated response (something you have) are required to complete the sign-in process. If a user's password access keys are compromised, your account resources are still secure because of the additional authentication requirement.	l or
Additionally, strong password policies should be used to enforce measures including minimum password length, complexity, and password reuse restrictions.	
CORRECT: "AWS Multi-Factor Authentication (AWS MFA)" is a correct answer.	
CORRECT: "Strong password policies" is also a correct answer.	
INCORRECT: "AWS Secrets Manager" is incorrect. This service enables you to easily rota manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle.	
INCORRECT: "AWS Certificate Manager" is incorrect. This service is used for creating SSL/TLS certificates for use with HTTPS connections.	
INCORRECT: "Security group rules" is incorrect as these are used to restrict traffic to/fro your EC2 instances.	om
References:	

/	Adding more CPU/RAM to an Amazon Elastic Compute Cloud (Amazon EC2) instance represents which of the following?	* 1/1
\bigcirc	Managing increasing volumes of data	
0	Loose coupling	
•	Vertical scaling	✓
0	Horizontal scaling	
Fe	edback	
	planation prrect option:	
Ve	ertical scaling	
in	vertically scalable system is constrained to running its processes on only one compute such systems, the only way to increase performance is to add more resources into one mputer in the form of faster (or more) CPUs, memory, or storage.	
Ind	correct options:	
	orizontal scaling - A horizontally scalable system is one that can increase capacity by ding more computers to the system.	
loi Th ard loo	anaging increasing volumes of data - Traditional data storage and analytics tools can ranger provide the agility and flexibility required to deliver relevant business insights. Pat's why many organizations are shifting to a data lake architecture. A data lake is an chitectural approach that allows you to store massive amounts of data in a central cation so that it's readily available to be categorized, processed, analyzed, and insumed by diverse groups within your organization.	10
is sy	ose coupling - As application complexity increases, a desirable attribute of an IT syste that it can be broken into smaller, loosely coupled components. This means that IT stems should be designed in a way that reduces interdependencies—a change or a ilure in one component should not cascade to other components.	m
Re	ference:	

★ By default, which of the following events are logged by AWS CloudTrail? * (This question is taken from restart knowledge check)	0/1
AWS CloudTrail Insights events	×
O Data events and Insights events	
O Data events	
Management events	
Correct answer	
Management events	
Feedback	
Explanation Correct option:	
Management events	

An event in AWS CloudTrail is the record of activity in an AWS account. This activity can be an 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 Management 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.

By default, AWS CloudTrail logs all management events and does not include data events or Insights events. Additional charges apply for data and Insights events. All event types use the same CloudTrail JSON log format.

Management events provide information about management operations that are performed 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.

Reference:

https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-concepts.html#cloudtrail-concepts-events

Evam Ian 17 Set B 9/2/24. 1:18 PM

, i ivi	Exam dan 17 Oct B	
	nsitive data in its own data center due to te to deploy resources using AWS. Which es this refer to?	*1/1
Private Cloud		
On-premises		
O Public Cloud		
Hybrid Cloud		✓
Feedback		
Explanation Correct option:		
Hybrid Cloud		
based resources and existing resour common method of hybrid deployme	nect infrastructure and applications between cloud- ces that are not located in the cloud. The most ent is between the cloud and existing on-premises n organization's infrastructure into the cloud while	-

connecting cloud resources to the internal system.

Overview of Cloud Computing Deployment Models: via - https://aws.amazon.com/typesof-cloud-computing/

Incorrect options:

Public Cloud - A public cloud-based application is fully deployed in the cloud and all parts of the application run in the cloud. Applications in the cloud have either been created in the cloud or have been migrated from an existing infrastructure to take advantage of the benefits of cloud computing.

Private Cloud - Unlike a Public cloud, a Private cloud enables businesses to avail IT services that are provisioned and customized according to their precise needs. The business can further avail the IT services securely and reliably over a private IT infrastructure.

On-premises - This is not a cloud deployment model. When an enterprise opts for onpremises, it needs to create, upgrade, and scale the on-premise IT infrastructure by investing in sophisticated hardware, compatible software, and robust services. Also, the business needs to deploy dedicated IT staff to upkeep, scale, and manage the on-premise infrastructure continuously.

Reference:

https://docs.aws.amazon.com/whitepapers/latest/public-sector-cloudtransformation/selecting-the-right-cloud-for-workloads-differences-between-public-privateand-hybrid.html

L IAI	Exam dan 17 Set D
✓	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?
0	Only AWS Enterprise Support plan
\bigcirc	AWS Developer Support, AWS Business Support and AWS Enterprise Support plans
0	AWS Enterprise On-Ramp Support plan after paying an additional fee and AWS Enterprise Support plan
•	AWS Business Support, AWS Enterprise On-Ramp, and AWS Enterprise Support plans
Fe	eedback
	xplanation orrect option:
Al	WS 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.

Reference:

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

\	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?	*1/1	
0	Pilot light strategy		
0	Warm standby strategy		
0	Multi-site active/active strategy		
•	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.

Reference:

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

✓ Which AWS service is used to send both text and email messages from ** distributed applications?	1/1
Amazon Simple Queue Service (Amazon SQS)	
Amazon Simple Notification Service (Amazon SNS)	/
Amazon Simple Workflow Service (Amazon SWF)	
Amazon Simple Email Service (Amazon SES)	
Feedback	
Explanation 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.	
Amazon SNS provides topics for high-throughput, push-based, many-to-many messaging. 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.	
CORRECT: "Amazon Simple Notification Service (Amazon SNS)" is the correct answer.	
INCORRECT: "Amazon Simple Email Service (Amazon SES)" is incorrect. This service is used for sending email but not SMS text messages.	
INCORRECT: "Amazon Simple Workflow Service (Amazon SWF)" is incorrect. Amazon SWF helps developers build, run, and scale background jobs that have parallel or sequential steps. You can think of Amazon SWF as a fully-managed state tracker and task coordinator in the Cloud.	
INCORRECT: "Amazon Simple Queue Service (Amazon SQS)" is incorrect. 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.	
References:	

https://aws.amazon.com/sns/

✓ Which of the following statements is CORRECT regarding the scope of an *1/1 Amazon Virtual Private Cloud (VPC)?
A VPC spans all AWS regions within an Availability Zone (AZ)
A VPC spans all Availability Zones (AZs) in all AWS regions
 A VPC spans all Availability Zones (AZs) within an AWS region
Amazon VPC spans all subnets in all AWS regions
Feedback Explanation Correct option:
A VPC spans all Availability Zones (AZs) within an AWS region
Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you define. You have complete control over your virtual networking environment, including selection of your own IP address range, creation of subnets, and configuration of route tables and network gateways.
An Amazon VPC spans all Availability Zones (AZs) within a region.
Incorrect options:
Amazon VPC spans all subnets in all AWS regions - A VPC is located within an AWS region.
A VPC spans all Availability Zones (AZs) in all AWS regions - A VPC is located within an AWS region.
A VPC spans all AWS regions within an Availability Zone (AZ) - AWS has the concept of a Region, which is a physical location around the world where AWS clusters data centers. Each AWS Region consists of multiple (two or more), isolated, and physically separate Availability Zone (AZs) within a geographic area. An Availability Zone (AZ) is one or more discrete data centers with redundant power, networking, and connectivity in an AWS Region. Therefore, regions cannot be within an Availability Zone. Moreover, a VPC is located within a region.
AWS Regions and Availability Zones (AZs) Overview: via - https://aws.amazon.com/about-aws/global-infrastructure/regions_az/
Reference:
https://aws.amazon.com/vpc/

✓	Which of the following use-cases can be solved using the Amazon Forecast service?	*1/1
0	To develop and test fully functional machine learning models for weather foreca	st
•	Predict the web traffic of a website for the next few weeks	✓
0	Document search service that can extract answers from text within documents	
0	To recommend personalized products for users based on their previous purchas	es
F	eedback	
E	xplanation	

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:

Correct option:

To develop and test fully functional machine learning models for weather forecast - 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.

Reference:

https://aws.amazon.com/forecast/

X A team manager needs data about the changes that have taken place fo AWS resources in his account during the past two weeks. Which AWS service can help get this data?	r * 0/1
Amazon CloudWatch	
AWS Config	
AWS CloudTrail	×
Amazon Inspector	
Correct answer	
AWS Config	
Feedback	
Explanation Correct option:	
AWS Config	
AWS Config is a service that enables you to assess, audit, and evaluate the configuration	ıns

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 system-wide 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.

Reference:

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

✓ 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?	*1/1
Amazon DynamoDB	
Amazon Aurora	✓
Amazon Neptune	
Amazon ElastiCache	
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, multiregion, 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.

Reference:

https://aws.amazon.com/rds/aurora/

✓ Which of the following are the advantages of using the AWS Cloud? (Select TWO)	*1/1
Stop guessing about capacity	✓
Limited scaling	
Trade operational expense for capital expense	
AWS is responsible for security in the cloud	
Increase speed and agility	✓
Feedback	
Explanation Correct options:	
Increase speed and agility	
Stop guessing about capacity	
Exam Alert:	
Please check out the following six advantages of Cloud Computing. You would certain be asked questions on the advantages of Cloud Computing compared to a traditional operations setup:	
via - https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages- cloud-computing.html	<u>∙of-</u>
Incorrect options:	
Limited scaling - Scaling is not limited in the cloud. You can access as much or as little capacity as you need, and scale up and down as required with only a few minutes' noti	
AWS is responsible for security in the cloud - AWS is responsible for the security OF the cloud, which means AWS is responsible for protecting the infrastructure that runs all the services offered in the AWS Cloud.	
Trade operational expense for capital expense - In the cloud, you trade capital expense (CAPEX) for the operational expense (OPEX). Instead of having to invest heavily in data centers and servers before you know how you're going to use them, you can pay only vou consume computing resources, and pay only for how much you consume.	Э
Reference:	
https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cl computing.html	oud-

✓ Which AWS serverless service allows you to prepare data for analytics? * 1/1
AWS Glue
Amazon Redshift
Amazon Athena
Amazon EMR
Feedback
Eplanation Correct option:
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.
How AWS Glue works: via - https://aws.amazon.com/glue/
Incorrect options:
Amazon Athena - Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon Simple Storage Service (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. Amazon Athena is used for analytics and not to prepare data for analytics.
Amazon Redshift - Amazon Redshift is a fast and scalable data warehouse that makes it simple and cost-effective to analyze all your data across your data warehouse and data lake. Redshift is used for analytics and not to prepare data for analytics.
Amazon EMR - Amazon EMR provides a managed Hadoop framework that makes it easy, fast, and cost-effective to process vast amounts of data across dynamically scalable Amazon EC2 instances. EMR is used for analytics and not to prepare data for analytics.
Reference:
https://aws.amazon.com/glue/

✓	Which of the following statements are correct regarding the health monitoring and reporting capabilities supported by AWS Elastic Beanstalk? (Select two)	*1/1
~	With basic health reporting, the AWS Elastic Beanstalk service does not publish any metrics to Amazon CloudWatch	✓
~	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 instanc	✓
	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)	
	AWS Elastic Beanstalk provides only basic health reporting system; Combined we Elastic Load Balancing (ELB), they provide advanced health check features	vith .
	In a single instance environment, AWS Elastic Beanstalk determines the instance health by monitoring the Elastic Load Balancing (ELB) health settings	e's

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.

Reference:

https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/using-features.healthstatus.html#monitoring-basic-additionalchecks

✓ 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
Compute Savings Plans, Storage Savings Plans	
Instance Savings Plans, Storage Savings Plans	
Compute Savings Plans, EC2 Instance Savings Plans	✓
Reserved Instances (RI) Savings Plans, EC2 Instance Savings Plans Explanation	
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:

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.

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.

References:

https://aws.amazon.com/savingsplans/

https://aws.amazon.com/savingsplans/faq/

✓ Which combination of steps will enable multi-factor authentication (MFA) on an AWS account? (Select TWO.)	* 1/1
Activate the MFA device by using Amazon GuardDuty.	
Activate the MFA device in the IAM console or by using the AWS CLI.	✓
Activate AWS Shield on an MFA-compatible device.	
Acquire an MFA-compatible device.	✓
Contact AWS Support to initiate MFA activation.	
Feedback	

Explanation

Multi-factor authentication (MFA) in AWS is a simple best practice that adds an extra layer of protection on top of your user name and password. With MFA enabled, when a user signs in to an AWS Management Console, they will be prompted for their user name and password (the first factor—what they know), as well as for an authentication code from their AWS MFA device (the second factor—what they have).

Taken together, these multiple factors provide increased security for your AWS account settings and resources. You can enable MFA for your AWS account and for individual IAM users you have created under your account. MFA can also be used to control access to AWS service APIs.

You will first need a device capable of providing an application which can support virtual MFA. There are several form factors to choose from:

Once you have this device, you will need to register it to your AWS account through the AWS Identity and Access Management (IAM) service.

CORRECT: "Acquire an MFA-compatible device" is a correct answer (as explained above.)

CORRECT: "Activate the MFA device in the IAM console or by using the AWS CLI" is also a correct answer (as explained above.)

INCORRECT: "Contact AWS Support to initiate MFA activation" is incorrect. AWS Support cannot enable MFA for you regardless of which support tier you are using.

INCORRECT: "Activate AWS Shield on an MFA-compatible device" is incorrect. AWS Shield is a DDoS mitigation service and has nothing to do with MFA.

INCORRECT: "Activate the MFA device by using Amazon GuardDuty" is incorrect. Amazon GuardDuty is an intelligent threat detection service which has nothing to do with MFA.

References:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_mfa_enable_virtual.html

\	A company would like to define a set of rules to manage objects cost- effectively between Amazon Simple Storage Service (Amazon S3) storage classes. As a Cloud Practitioner, which Amazon S3 feature would you use?	*1/1
•	Amazon Simple Storage Service (Amazon S3) Lifecycle configuration	✓
0	Amazon S3 Transfer Acceleration (Amazon S3TA)	
0	S3 Cross-Region Replication (S3 CRR)	
0	Amazon Simple Storage Service (Amazon S3) Bucket policies	

Feedback

Explanation Correct option:

Amazon Simple Storage Service (Amazon S3) Lifecycle configuration

To manage your objects so that they are stored cost-effectively throughout their lifecycle, configure their Amazon S3 Lifecycle. An S3 Lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. There are two types of actions: Transition actions (define when objects transition to another storage class) and expiration actions (define when objects expire. Amazon S3 deletes expired objects on your behalf).

In this particular use case, you would use a transition action.

Incorrect options:

Amazon S3 Transfer Acceleration (Amazon S3TA) - Amazon S3 Transfer Acceleration (Amazon S3TA) enables fast, easy, and secure transfers of files over long distances between your client and an Amazon S3 bucket. It is not used to move objects between storage classes.

Amazon Simple Storage Service (Amazon S3) Bucket policies - An S3 bucket policy is a resource-based AWS Identity and Access Management (IAM) policy. You add a bucket policy to a bucket to grant other AWS accounts or IAM users access permissions for the bucket and the objects in it. Object permissions apply only to the objects that the bucket owner creates. It is not used to move objects between storage classes.

S3 Cross-Region Replication (S3 CRR) - S3 Cross-Region Replication (S3 CRR) enables automatic, asynchronous copying of objects across Amazon S3 buckets. Cross-Region replication (CRR) is used to copy objects across Amazon S3 buckets in different AWS Regions. It is not used to move objects between storage classes.

References:

https://docs.aws.amazon.com/AmazonS3/latest/dev/object-lifecycle-mgmt.html

https://aws.amazon.com/s3/

A growing start-up has trouble identifying and protecting sensitive data scale. Which AWS fully managed service can assist with this task?	a at * 1/1
Amazon Macie	✓
AWS Key Management Service (AWS KMS)	
AWS Secrets Manager	
AWS Artifact	
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.	n
Amazon Macie uses Machine Learning and pattern matching to cost-efficiently disco sensitive data at scale. Amazon Macie automatically detects a large and growing list sensitive data types, including personally identifiable information (PII) such as names addresses, and credit card numbers. It also gives you constant visibility of the data security and data privacy of your data stored in Amazon S3.	of
How Amazon Macie works: via - https://aws.amazon.com/macie/	
Incorrect options:	
AWS Artifact - AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and selects online agreements. It is not used to discover and prosensitive data in AWS.	tect
AWS Secrets Manager - AWS Secrets Manager helps you protect secrets needed to a your applications, services, and IT resources. The service enables you to easily rotate manage, and retrieve database credentials, API keys, and other secrets throughout the lifecycle. It is not used to discover and protect sensitive data in AWS.	9,
AWS Key Management Service (AWS KMS) - AWS Key Management Service (AWS KM makes it easy for you to create and manage keys and control the use of encryption as a wide range of AWS services and in your applications. It is not used to discover and protect sensitive data in AWS.	cross
Reference:	
https://aws.amazon.com/macie/	

Which of the following statements is an AWS best practice when architecting for the Cloud?	*1/1
Servers, not services	
Automation	✓
Close coupling	
Security comes last	
Feedback	
Explanation Correct option:	
Automation	
Automation should be implemented to improve both your system's stability and the efficiency of your organization. There are many services to automate application architecture (AWS Elastic Beanstalk, Auto Scaling, AWS Lambda, etc.) to ensure more resiliency, scalability, and performance.	e
Incorrect options:	
Servers, not services - The correct best practice is: "Services, not servers". AWS recommends developing, managing, and operating applications, especially at scale, the broad set of compute, storage, database, analytics, applications, and deployment services offered by AWS to move faster and lower IT costs.	•
Close coupling - The correct best practice is: "Loose coupling". AWS recommends the application complexity increases, IT systems should be designed in a way that reducinterdependencies. Therefore, a change or a failure in one component should not cast to other components.	es
Security comes last - AWS allows you to improve your security in many, more simple Therefore, you should take advantage of this and implement a high level of security.	ways.
Reference:	
https://aws.amazon.com/architecture/well-architected/	

According to the AWS Well-Architected Framework, which of the following action is recommended in the Security pillar?	*1/1
Use AWS Key Management Service (AWS KMS) to encrypt data	✓
Use AWS CloudFormation to automate security best practices	
Use AWS Cost Explorer to view and track your usage in detail	
Use Amazon CloudWatch to measure overall efficiency	
Feedback	

Explanation

Correct option:

Use AWS Key Management Service (AWS KMS) to encrypt data

The Security pillar includes the ability to protect information, systems, and assets while delivering business value through risk assessments and mitigation strategies.

Encrypting data is part of the design principle "Protect data in transit and at rest": Classify your data into sensitivity levels and use mechanisms, such as encryption, tokenization, and access control where appropriate.

AWS Key Management Service (AWS KMS) makes it easy for you to create and control keys used for encryption. It is a key service of the Security pillar.

The AWS Well-Architected Framework helps you understand the pros and cons of the decisions you make while building systems on AWS. By using the Framework you will learn architectural best practices for designing and operating reliable, secure, efficient, and cost-effective systems in the cloud. It provides a way for you to consistently measure your architectures against best practices and identify areas for improvement.

The AWS Well-Architected Framework is based on six pillars — Operational Excellence, Security, Reliability, Performance Efficiency, Cost Optimization, and Sustainability.

Overview of the six pillars of the AWS Well-Architected Framework:

via - https://aws.amazon.com/architecture/well-architected/

Incorrect options:

Use AWS Cost Explorer to view and track your usage in detail - AWS Cost Explorer has an easy-to-use interface that lets you visualize, understand, and manage your AWS costs and usage over time. Using Cost Explorer to view and track your usage in detail relates more to the Cost Optimization pillar.

Use Amazon CloudWatch to measure overall efficiency - Amazon CloudWatch is a monitoring and management service built for developers, system operators, site reliability engineers (SRE), and IT managers. Using Amazon CloudWatch to measure overall efficiency relates more to the Reliability pillar.

Use AWS CloudFormation to automate security best practices - AWS CloudFormation provides a common language for you to model and provision AWS and third-party application resources in your cloud environment. It is not used to automate security best practices. If you want to automate security best practices, you should use Amazon Inspector.

Reference:

https://aws.amazon.com/architecture/well-architected/

Which of the following options are the benefits of using AWS Elastic L Balancing (ELB)? (Select TWO)	oad *0/1
Less costly	
High availability	✓
Fault tolerance	
Agility	
Storage	×
Correct answer	
High availability	
Fault tolerance	
Feedback	
Explanation Correct options:	
High availability	
Fault tolerance	
Elastic Load Balancing (ELB) automatically distributes incoming application traffic a multiple targets, such as Amazon EC2 instances, containers, and IP addresses. It ca handle the varying load of your application traffic in a single Availability Zone (AZ) or across multiple Availability Zones (AZs).	n
Elastic Load Balancing (ELB) offers three types of load balancers that all feature the availability, automatic scaling, and robust security necessary to make your applicatio fault-tolerant: Application Load Balancer (best suited for HTTP and HTTPS traffic), Network Load Balancer (best suited for TCP traffic), and Classic Load Balancer.	-
Incorrect options:	
Agility - Agility refers to new IT resources being only a click away, which means that reduce the time to make those resources available to your developers from weeks to minutes. AWS Elastic Load Balancing (ELB) does not help with agility.	•
Less costly - AWS Elastic Load Balancing (ELB) does not help with reducing costs.	
Storage - AWS Elastic Load Balancing (ELB) does not offer storage benefits. It is not storage-related service.	а
Reference:	
https://aws.amazon.com/elasticloadbalancing/	

•		ervice allows you to quickly and easily add user sign-up, ccess control to web and mobile applications?	*1/1
	AWS Organiza	tions	
	AWS IAM Iden	tity Center	
	Amazon Cogni	ito	✓
	AWS Identity a	nd Access Management (AWS IAM)	
	Feedback		
	Explanation Correct option:		
	Amazon Cognito		
	mobile apps quickl authenticate users	ets you add user sign-up, sign-in, and access control to your web and and easily. With Amazon Cognito, you also have the option to through social identity providers such as Facebook, Twitter, or Am solutions, or by using your own identity system.	
	Incorrect options:		
	Management (AWS resources for your and use permission	Access Management (AWS IAM) - AWS Identity and Access IAM) enables you to securely control access to AWS services and users. Using IAM, you can create and manage AWS users and grouns to allow and deny their access to AWS resources. It does not proin, and access control to web and mobile applications.	ıps,
	On. It is built on top management to me applications. In IAM	Center - AWS IAM Identity Center is the successor to AWS Single Si to of AWS Identity and Access Management (IAM) to simplify access ultiple AWS accounts, AWS applications, and other SAML-enabled of M Identity Center, you create, or connect, your workforce users for users for an choose to manage access just to your AWS accounts, just to your to both.	es cloud use
	AWS accounts. Wit account creation, a you to centrally ma	s - AWS Organizations offers policy-based management for multiple th AWS Organizations, you can create groups of accounts, automat and apply and manage policies for those groups. Organizations ena anage policies across multiple accounts, without requiring custom I processes. It does not provide user sign-up, sign-in, and access of applications.	e able
	Reference:		
	https://aws.amazo	n.com/cognito/	

This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Privacy Policy

Google Forms