Jan 15 set A1

Total points 65/65



Full Marks :65 Pass Marks: 47	
Email * 07yamini2055@gmail.com	
	0 of 0 points
Full Name * Ira Chand	
Questions	65 of 65 points
Read Questions Carefully	

~	When utilizing the AWS Command Line Interface (AWS CLI), which of the following Identity and Access Management (IAM) entities is connected with an access key ID and secret access key?	*1/1
0	IAM group	
•	IAM user	~
0	IAM role	
0	IAM policy	
A	eedback ccess keys are long-term credentials for an IAM user or the AWS account root user. You an use access keys to sign programmatic requests to the AWS CLI or AWS API (directly r using the AWS SDK).	
~	Which AWS service should be used to monitor Amazon EC2 instances for CPU and network utilization?	*1/1
0	Amazon Inspector	
0	AWS CloudTrail	
•	Amazon CloudWatch	~
0	AWS Config	

with the best possible performance.

✓ A company is planning to run a global marketing application in the AWS Cloud. The application will feature videos that can be viewed by users. The company must ensure that all users can view these videos with low latency. Which AWS service should the company use to meet this requirement?	*1/1
AWS Auto Scaling	
Amazon Kinesis Video Streams	
Elastic Load Balancing	
Amazon CloudFront	✓
Feedback	
Amazon CloudFront is a web service that speeds up distribution of your static and dynamic web content, such as .html, .css, .js, and image files, to your users. CloudFront delivers your content through a worldwide network of data centers called edge locations. When a user requests content that you're serving with CloudFront, the request is routed the edge location that provides the lowest latency (time delay), so that content is deliver	to

	Which of these AWS services is recommended to track changes made to your AWS resources?	*1/1
\bigcirc	Amazon GuardDuty	
\bigcirc	Amazon CloudWatch	
	AWS CloudTrail	✓
\bigcirc	AWS X-Ray	
Fe	eedback	
- A	rplanation NWS CloudTrail - Track events, API calls, changes made to your AWS resources. Who nade the request), What (action, parameters, end result) and When?	
ch Cu	AWS Config - Auditing: Complete inventory of your AWS resources. Resource history and nange tracking - Find how a resource was configured at any point in time Governance - ustomize Config Rules for specific resources or for entire AWS account and Continuous raluate compliance against desired configuration	
- A	Amazon CloudWatch - Monitoring and observability service	
- C	Collects monitoring and operational data in the form of logs, metrics, and events	

- Set alarms, visualize logs, take automated actions and troubleshoot issues

✓ Which of the following AWS services should a client utilize to audit the change management of AWS resources?	*1/1
AWS Config	✓
AWS Trusted Advisor	
Amazon CloudWatch	
Amazon Inspector	
Feedback AWS Config is a service that enables you to assess, audit, and evaluate the configuration 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.	s
✓ Which AWS service can identify the person who made the API request when an Amazon EC2 instance is terminated?	*1/1
Amazon CloudWatch	
AWS CloudTrail	✓
AWS X-Ray	
AWS Identity and Access Management (IAM)	
Feedback AWS CloudTrail allows AWS customers to record API calls, sending log files to Amazon S buckets for storage	33

✓ Security and Compliance in AWS is a: *	1/1
Responsibility of AWS	
Responsibility of Customer	
Shared Responsibility of AWS and Customer	✓
None of the above	
Feedback	
Explanation Shared Responsibility Model	
- Security & Compliance - Shared responsibility:	
- AWS manages security of the cloud:	
- Operates, manages & controls Host OS and virtualization layer down to the physical security.	
- YOU are responsible for security in the cloud:	
- Guest OS (patches), Application S/W, Security Groups, Integrating AWS Services with IT environments	

✓ Which of these S3 storage classes does NOT provide immediate access * to data (select 2)?	* 1/1
Standard	
Glacier	/
Glacier Deep Archive	/
Standard-IA	
One Zone-IA	
Feedback	
Explanation Amazon S3 Storage Classes	
- Standard - Frequently accessed data. First Byte: ms	
- Standard-IA - Long-lived, infrequently accessed data (backups for disaster recovery). First Byte: ms	t
- One Zone-IA - Long-lived, infrequently accessed, non-critical data (Easily re-creatable data - thumbnails for images). First Byte: ms	3
- Intelligent-Tiering - Long-lived data with changing or unknown access patterns	
- Glacier - Archive data with retrieval times ranging from minutes to hours (RETRIEVAL - MINUTES TO HOURS)	
- Glacier Deep Archive - Archive data that rarely, if ever, needs to be accessed with retrieval times in few hours (RETRIEVAL - FEW HOURS)	1
- Reduced Redundancy (Not recommended) - Frequently accessed, non-critical data	

A company has a single Amazon EC2 instance. The company was adopt a highly available architecture. What can the company do this requirement?	
Scale vertically to a larger EC2 instance size	
Scale horizontally across multipleAvailability Zones	✓
O Purchase an EC2 Dedicated Instance.	
Change the EC2 instance family to a compute optimized instance.	
Feedback	
AWS Auto Scaling monitors your applications and automatically adjusts capa maintain steady,	acity to
predictable performance at the lowest possible cost. Using AWS Auto Scalin setup	ng , it's easy to
application scaling for multiple resources across multiple services in minute	?S.

✓ Which of these are NOT IAM Best Practices (Select 2)? *	1/1
Use Root User Regularly for IAM operations	✓
Share IAM User credentials	✓
Manage permissions with groups	
Configure a strong password policy	
Grant least privilege	
Feedback	
Explanation IAM Best Practices	
- Users – Create individual users	
- Groups – Manage permissions with groups	
- Permissions – Grant least privilege	
- Auditing – Turn on AWS CloudTrail	
- Password – Configure a strong password policy	
- MFA – Enable MFA for privileged users	
- (Hardware device - Gemalto, Virtual device - An app on a smart phone)	
- Roles – Use IAM roles for Amazon EC2 instances	
- Sharing – Use IAM roles to share access	
- Rotate – Rotate security credentials regularly	
- Root – Reduce or remove use of root	

✓ Which of these AWS services helps you to add authentication and authorization to your mobile and web apps?	1
AWS Step Functions	
O AWS Lambda	
AWS API Gateway	
Amazon Cognito	
Feedback	
recubuck	
Explanation - Amazon API Gateway - front door to your APIs	
- Fully managed - "publish, maintain, monitor, and secure APIs at any scale"	
- Integrates with AWS Lambda or any web application	
- Amazon Cognito: Add authentication and authorization to your mobile and web apps	
- Integrate with web identity providers (ex: Google, Facebook)	
- Add multi-factor authentication (MFA), phone and email verification	
- Sync user data across devices, platforms, and applications	
- AWS Step Functions: Create a serverless workflow in 10 Minutes using a visual approach	
- Orchestrate multiple AWS services into	
- Serverless Application Model: Simplify creation and deployment of serverless applications	
- AWS Lambda: Serverless compute	

•5. Validate access to S3 buckets .

	nazon EC2 instance be granted access to an Amazon rdance with security best practices?	*1/1
Hard code an IAM upload the file.	user's secret key and access key directly in the application , a	and
Store the IAM user's read the keys, then	s secret key and access key in a text file on the EC2 instance upload the file.	,, ,
Have the EC2 instar	nce assume a role to obtain the privileges to upload the file.	✓
Modify the S3 buck	et policy so that any service can upload to it at any time.	
Feedback		
To connectto your S3 buyou must dothe followin 1. Create an AWS Ident (IAM) profile role that gr 2. Attach the IAM install 3. Validate permissions	tity and Access Management rants access to Amazon S3. nce profile to the instance.	

✓ Who is responsible for configuration management under the AWS shared responsibility model?	* 1/1
It is solely the responsibility of the customer.	
It is solely the responsibility of AWS.	
It is shared between AWS and the customer.	✓
It is not part of the AWS shared responsibility model.	
Feedback AWS maintains the configuration of its infrastructure devices, but a customer is responsible for configuring their own guest operating systems, databases, and applications.	
✓ Which AWS service or feature acts as a firewall for Amazon EC2 instances?	*1/1
Network ACL	
Elastic network interface	
Amazon VPC	
Security group	✓
Feedback A security group is a virtual firewall that controls inbound and outbound traffic for an Amazon EC2 instance.	

✓ Which of these is NOT a responsibility of AWS under the shared responsibility model?
Ensuring that services like Amazon S3 and Amazon DynamoDB are highly available
Providing information on AWS IT control environment (white papers, certifications etc)
Ensuring adherence of AWS IT Infrastructure with IT security standards
 Controls based on the applications deployed to AWS
Feedback Explanation - Compliance responsibilities will be shared
- AWS ensures adherence of IT Infrastructure with IT security standards
- AWS provides information on its IT control environment (white papers, certifications etc)
- Customers perform their evaluation (use AWS control and compliance documentation)
- IT controls are of three types:
- Inherited Controls (Customer fully inherits from AWS) : Physical and Environmental controls
- Shared Controls (Controls shared by AWS and Customer)
- Patch Management: AWS (Infrastructure Patches), Customer (Guest OS Patches and Software Patches)
- Configuration Management: AWS (Infrastructure), Customer (Guest OS, databases, and applications)
- Awareness & Training
- Customer Owned Controls
- Controls based on the applications deployed to AWS
- Data Security Requirements

Which AWS service or functionality is utilized by distributed application to send text and email messages?	ons *1/1
Amazon Simple Notification Service (Amazon SNS)	✓
Amazon Simple Email Service (Amazon SES)	
Amazon CloudWatch alerts	
Amazon Simple Queue Service (Amazon SQS)	
Feedback Amazon Simple Notification Service (Amazon SNS) is a fully managed messaging s for both application-to-application (A2A) and application-to-person (A2P) communication.	
✓ What are the possible uses for AWS edge locations? (Select two.) *	1/1
Hosting applications	
✓ Delivering content closer to users	✓
Running NoSQL database caching services	
Reducing traffic on the server by caching responses	✓
Sending notification messages to end users	

On-premises resources have been underused by a user. * Which AWS Cloud idea is optimal for resolving this issue?	1/1
High availability	
Elasticity	✓
Security	
Cose coupling	
Feedback	
Most people, when thinking of cloud computing, think of the ease with which they can procure resources when needed. This is only one aspect to elasticity. The other aspect to contract when they no longer need resources. Scale out and scale in. Scale up and scale down.	S

✓ Which costs must be addressed when comparing AWS Cloud vs on- premises Total Cost of Ownership? (Select two.)	*1/1
Software development	
Project management	
Storage hardware	✓
Physical servers	✓
Antivirus software license	
Feedback To get the most out of your estimates, you should have a good idea of your basic requirements. For example, if you're going to try Amazon Elastic Compute Cloud (Amaze EC2), it might help if you know what kind of operating system you need, what your mem requirements are, and how much I/O you need. You should also decide whether you nee storage, such as if you're going to run a database and how long you intend to use the servers. You don't need to make these decisions before generating an estimate, though. You can play around with the service configuration and parameters to see which options your use case and budget best.	ory d
✓ A corporation anticipates a brief increase in internet traffic for their application. The program cannot be interrupted during the traffic spike. In addition, the organization must reduce costs while increasing flexibility. To achieve these needs, which Amazon EC2 instance type should the organization use?	
On-Demand InstancesSpot InstancesReserved InstancesDedicated Hosts	✓

✓ What are the advantages of AWS Cloud elasticity? *	1/1
Ensure web traffic is automatically spread across multiple AWS Regions.	
Minimize storage costs by automatically archiving log data.	
EnableAWS to automatically select the most cost-effective services	
 Automatically adjust the required compute capacity to maintain consistent 	✓
Feedback Elasticity 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.	
✓ Which of the following is a shared control between a client and AWS under the shared responsibility model?	*1/1
O Physical controls	
Patch management	✓
Zone security	
O Data center auditing	
Feedback Patch Management: AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest OS and application	ons

✓ Which AWS service uses machine learning to help discover, monitor, and *1, protect sensitive data that is stored in Amazon S3 buckets?	′1
AWS Shield	
Amazon Macie	
AWS Network Firewall	
Amazon Cognito	
Feedback Amazon Macie is a data security and data privacy service that uses machine learning (ML) and pattern matching to discover and protect your sensitive data.	
✓ Which functionality may be utilized to prevent inadvertent overwrites or *1, deletions of Amazon S3 buckets?	′1
C Lifecycle policy	
Object versioning	
Server-side encryption	
Bucket ACL	
Feedback S3 Object Versioning is one of the most salient features in Amazon S3. Object versioning is used to avoid unintended overwrite and deletion. Versioning is not enabled by default and this features used to keep multiple versions of objects at the same time in the bucket.	

✓ Which statement best describes the AWS Cloud's agility? * 1/1		
Agility gives users the ability to host applications in multiple AWS Regions around the world.		
Agility gives users the ability to pay upfront to reduce cost		
Agility provides customizable physical hardware at the lowest possible cost.		
 Agility provides the means for users to provision resources in minutes. 		
Feedback		
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.		

✓ Which of the following are features of network ACLs as they are used in the AWS Cloud? (Choose two.)	*1/1
They are stateless	✓
They are stateful.	
They evaluate all rules before allowing traffic.	
They process rules in order, starting with the lowest numbered tule, when deciding whether to allow traffic.	✓
They operate at the instance level.	
*Network ACLs are stateless, which means that responses to allowed inbound traffic as subject to the rules for outbound traffic (and vice versa). *Evaluate the network ACL rules when traffic enters and leaves the subnet, not as it is routed within a subnet,	re
✓ Which component of the AWS architecture permits global computing ar storage deployment?	nd *1/1
	nd *1/1
storage deployment? Availability Zones Regions	nd *1/1
storage deployment? Availability Zones	nd *1/1

✓ One of the IAM best practices is to provide users with the minimum access they would need to be able to perform their duties. Which of these represents this best practice?	1/1
Grant least privilege	/
Rotate security credentials regularly	
Enable MFA for privileged users	
Configure a strong password policy	
Feedback	
Explanation IAM Best Practices	
- Users – Create individual users	
- Groups – Manage permissions with groups	
- Permissions – Grant least privilege	
- Auditing – Turn on AWS CloudTrail	
- Password – Configure a strong password policy	
- MFA – Enable MFA for privileged users	
- (Hardware device - Gemalto, Virtual device - An app on a smart phone)	
- Roles – Use IAM roles for Amazon EC2 instances	
- Sharing – Use IAM roles to share access	
- Rotate – Rotate security credentials regularly	
- Root – Reduce or remove use of root	

✓ In the case of an larger environmental disruption, a company needs to *1/1 make sure its infrastructure is structured for fault tolerance and business continuity. Which parts of the AWS architecture should the organization replicate?
C Edge locations
Availability Zones
Regions
Amazon Route 53
Feedback
AWS has the concept of a Region, which is a physical location around the world where we cluster data centers. We call each group of logical data centers an Availability Zone. Each AWS Region consists of a minimum of three, isolated, and physically separate AZs within a geographic area. Unlike other cloud providers, who often define a region as a single data center, the multiple AZ design of every AWS Region offers advantages for customers. Each AZ has independent power, cooling, and physical security and is connected via redundant, ultra low-latency networks.

	341 10 35071	
✓	Which of these options is recommend to efficiently deliver static content with low latency to global users in AWS?	*1/1
0	Create a static website using an S3 bucket	
•	Create a static website using an S3 bucket and distribute content to edge locations using CloudFront	✓
0	Deploy static website on EC2 instances and load balance using ELB	
0	Create a static website using AWS Lambda	
Fe	eedback	
	xplanation You can host static content using Amazon S3 bucket	
- /	Amazon CloudFront - Content Delivery Network	
- 1	Deliver content to your global audience	
- (Content Distributed to 200+ edge locations around the world	
_ 1	Provides high availability and low latency	

- Provides high availability and low latency
- Serve users from nearest edge location (based on user location)
- If content is not available at the edge location, it is retrieved from the origin server and cached
- Content Source S3, EC2, ELB or External Websites

	olution enables users in various AWS Regions to have the T application response times for frequently requested data?	*1/1
AWS Clo	oudTrail across multiple Availability Zones	
Amazon	CloudFront to edge locations	✓
AWS Clo	oudFormation in multiple regions	
A virtual	private gateway over AWS Direct Connect	
Feedback		
Amazon Cloo network of d content clos an Amazon S balancer or y	iver content and decrease end-user latency of your web application using audFront. CloudFront speeds up content delivery by leveraging its global data centers, known as edge locations, to reduce delivery time by caching yes to your end users. CloudFront fetches your content from an origin, such a S3 bucket, an Amazon EC2 instance, an Amazon Elastic Load Balancing location own web server, when it's not already in an edge location. CloudFront deliver your entire website or application, including dynamic, static, streaming ive content.	as ad can

\	A company wants to migrate a critical application to AWS. The application has a short runtime. The application is invoked by changes in data or by shifts in system state. The company needs a compute solution that maximizes operational efficiency and minimizes the cost of running the application. Which AWS solution should the company use to meet these requirements?	*1/1
0	Amazon EC2 On-Demand Instances	
	AWS Lambda	✓
0	Amazon EC2 Reserved Instances	
0	Amazon EC2 Spot Instances	
it ea to si bi	WS Lambda supports function packaging and deployment as container images, making asy for customers to build Lambda-based applications using familiar container image coling, workflows, and dependencies. Customers also benefit from Lambda's operational implicity, automatic scaling with sub-second startup times, high availability, pay-for-use illing model, and native integrations with over 200 AWS services and software-as-a ervice SaaS) applications.	
✓	Which of these is an easy-to-use AWS service for deploying and scaling web applications and services developed with Java, . NET, PHP, Node. js, Python, Ruby and Go?	*1/1
	AWS Elastic Beanstalk	✓
0	AWS Elastic Container Service (ECS)	
0	AWS Auto Scaling	
0	Elastic Load Balancing	

✓ What is the customer's obligation while using an AWS managed service under the AWS shared responsibility model?	<mark>*</mark> 1/1
Physical security of the data centers	
Server-side encryption	
Customer data	/
Operating system patching	
Feedback Customers are responsible for managing their data (including encryption options), classifying their assets, and using IAM tools to apply the appropriate permissions.	
According to the AWS shared responsibility model, who is responsible for managing IAM user access and secret keys?	* 1/1
IAM access and secret keys are static, so there is no need to rotate them.	
The customer is responsible for rotating keys.	/
AWS will rotate the keys whenever required.	
The AWS Support team will rotate keys when requested by the customer.	
Feedback The customer is responsible for rotating keys.	

✓ Which of the following are advantages of the AWS Cloud? (Choose two.)	* 1/1
AWS management of user-owned infrastructure	
Ability to quickly change required capacity	✓
High economies of scale	✓
Increased deployment time to market	
Increased fixed expenses	
Feedback More customers lead to higher AWS usage which leads to more infrastructure. The economies of scale effect occurs because costs can now be spread over a larger number of customers. The infrastructure becomes cheaper, prices can be reduced and newcustomers benefit from the lower prices.	

✓ Which of these represents horizontal scaling of EC2 instances? *	1/1
Increasing EC2 instance size: Example: t2.micro to t2.small	
Switch from EC2 instances to AWS Lambda	
Creating multiple EC2 instances to share the load and using an Elastic Load Balancer to distribute load between them	✓
Reducing EC2 instance size: Example: t2.large to t2.small	
Feedback	
Explanation - Vertical Scaling - Deploying to a bigger instance:	
- More RAM, CPU, I/O, or networking capabilities	
- Increasing EC2 instance size: Example: *t2.micro* to *t2.small*	
- Horizontal Scaling - Deploying multiple instances:	
- Horizontal scaling increases availability	
- (BUT) Horizontal Scaling needs additional infrastructure: Load Balancers etc.	

✓	What is raised when a business deploys web servers across several AWS Regions?	*1/1
0	Coupling	
	Availability	✓
0	Security	
0	Durability	
A q	eedback vailability (also known as service availability) is both a commonly used metric to uantitatively measure resiliency, as well as a target resiliency objective. vailability is the percentage of time that a workload is available for use. vailable for use means that it performs its agreed function successfully when required.	
✓	What is the scope of a VPC within the AWS network? *	1/1
	What is the scope of a VPC within the AWS network? * A VPC can span all Availability Zones globally.	1/1
<!--</td--><td></td><td>1/1</td>		1/1
<!--</td--><td>A VPC can span all Availability Zones globally.</td><td>1/1</td>	A VPC can span all Availability Zones globally.	1/1
<!--</td--><td>A VPC can span all Availability Zones globally. A VPC must span at least two subnets in each AWS Region.</td><td>1/1</td>	A VPC can span all Availability Zones globally. A VPC must span at least two subnets in each AWS Region.	1/1

✓ What can users do using AWS Marketplace? (Select two.) *	1/1
Sell unused Amazon EC2 Spot Instances.	
Sell solutions to other AWS users	/
Buy third-party software that runs on AWS.	/
Purchase AWS security and compliance documents	
Order AWS Snowball.	
Feedback The AWS Marketplace enables qualified partners to market and sell their software to AWS. Customers. AWS Marketplace is an online software store that helps customers find, buy, and immediately start using the software and services that run on AWS.	
✓ Which AWS service or feature allows users to connect with and deploy *AWS services programmatically?	1/1
AWS Management Console	
O AWS Cloud9	
O AWS CLI	
AWS software development kits (SDKs)	/
Feedback AWS software development kits (SDKs) allow users to connect with and deploy AWS services programmatically. AWS provides SDKs for several popular programming languages, including Java, Python, JavaScript, and C++.	

✓ A company plans to create a data lake that uses Amazon S3. Which factor *1/1 will have the MOST effect on cost?
The selection of S3 storage tiers
Charges to transfer existing data into Amazon S3
The addition of S3 bucket policies
S3 ingest fees for each request
Feedback They pick out storage tier from all the options can largely effect the final cost.
✓ Which compute hosting model should be accounted for in the Total Cost *1/1 of Ownership (TCO) when undertaking a cost analysis that allows physical isolation of a customer workload?
Dedicated Hosts
Reserved Instances
On-Demand Instances
No Upfront Reserved Instances
Feedback Use Dedicated Hosts to launch Amazon EC2 instances on physical servers that are dedicated for your use. Dedicated Hosts give you additional visibility and control over how instances are placed on a physical server, and you can reliably use the same physical server over time. As a result, Dedicated Hosts enable you to use your existing server-bound software licenses like Windows Server and address corporate compliance and regulatory requirements.

✓ Which AWS service is responsible for monitoring the health of your applications automatically?	*1/1
Amazon API Gateway	
AWS Elastic Beanstalk	✓
AWS Lambda	
AWS Config	
Feedback	
With Elastic Beanstalk, you can quickly deploy and manage applications in the AWS 0 without having to learn about the infrastructure that runs those applications. Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and Elastic Beanstalk automatically handles the detail capacity provisioning, load balancing, scaling, and application health monitoring.	I

✓ Which of these is a threat detection service that continuously monitors for malicious activity and unauthorized behavior to protect your AWS accounts?	1/1
AWS WAF (Web Application Firewall)	
Amazon GuardDuty	/
AWS Shield	
Amazon Macie	
Feedback	
Explanation - AWS Shield - Shields from Distributed Denial of Service (DDoS) attacks	
- AWS WAF - Web Application Firewall - AWS WAF protects your web applications from OWASP Top 10 exploits, CVE and a lot more!	
- Amazon Macie - Fully managed data security and privacy service Uses machine learning to identify sensitive data in Amazon S3 (Recommendation) When migrating data to AWS use S3 for staging and Run Macie	
- Amazon GuardDuty - Continuously monitor AWS environment for suspicious activity (Intelligent Threat Detection). Analyzes AWS CloudTrail events, VPC Flow Logs etc.	
 A company is using the AWS Free Tier for several AWS services for an application. What will happen if the Free Tier usage period expires or if the application use exceeds the Free Tier usage limits? 	71/1
The company will be charged the standard pay-as-you-go service rates for the usage that exceeds the Free Tier usage.	/
AWS Support will contact the company to sell up standard service charges.	
The company will be charged for the services it consumed during the Free Tier period, plus additional charges for service consumption after the Free Tier period.	
The company's AWS account will be frozen and can be restarted after a payment plan is established.	

✓ To achieve high availability, how many Availability Zones should *1/ computing resources be provided across?	1
A minimum of one	
A minimum of two	
A minimum of three	
A minimum of four or more	
✓ Which security-related duty is AWS accountable for under the AWS shared responsibility model?	1
Lifecycle management of IAM credentials	
Physical security of global infrastructure	
Encryption of Amazon EBS volumes	
Firewall configuration	
Feedback Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates.	

✓ A company is launching an ecommerce application that must always be *1/1 available. The application will run on Amazon EC2 instances continuously for the next 12 months. What is the MOST cost-effective instance purchasing option that meets these requirements?	
O Spot Instances	
Savings Plans	
O Dedicated Hosts	
On-Demand Instances	
Feedback	
Amazon EC2 Savings Plans enable you to reduce your compute costs by committing to a consistent amount of compute usage for a 1-year or 3-year term. This results in savings of up to 72% over On-Demand Instance costs. Any usage up to the commitment is charged at the discounted Savings Plan rate (for example, \$10 an hour). Any usage beyond the commitment is charged at regular On-Demand Instance rates.	

✓ Which of the following price options would result in the highest reduction * after making an Amazon EC2 Dedicated Host reservation?	* 1/1
No upfront payment	
Hourly on-demand payment	
Partial upfront payment	
All upfront payment	/
Feedback With the All Upfront option, you pay for the entire Dedicated Host Reservation with one upfront payment. This option provides you with the largest discount compared to On Demand pricing	
✓ Who is accountable for security and compliance under the AWS shared * responsibility model?	*1/1
The customer is responsible.	
AWS is responsible.	
AWS and the customer share responsibility.	/
AWS shares responsibility with the relevant governing body.	
Feedback Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates.	

•	Because of compliance requirements, your applications can only be deployed in a single geographic location. Which of these options can you consider to increase availability of your application?	*1/1
0	Deploy EC2 instances to multiple edge locations	
0	Deploy EC2 instances in a single availability zone	
•	Deploy EC2 instances to multiple availability zones	✓
0	Deploy EC2 instances to multiple regions	
E. Y	eedback xplanation our applications can only be deployed in a single geographic location => You can only se one Region o increase availability, you can deploy to multiple Availability Zones!	
~	Which statement best describes the AWS Cloud's agility? *	1/1
	Which statement best describes the AWS Cloud's agility? * Agility gives users the ability to host applications in multiple AWS Regions around the world.	·
<!--</td--><td>Agility gives users the ability to host applications in multiple AWS Regions aroun</td><td>·</td>	Agility gives users the ability to host applications in multiple AWS Regions aroun	·
<!--</td--><td>Agility gives users the ability to host applications in multiple AWS Regions arounthe world.</td><td>·</td>	Agility gives users the ability to host applications in multiple AWS Regions arounthe world.	·
<!--</td--><td>Agility gives users the ability to host applications in multiple AWS Regions arounthe world. Agility gives users the ability to pay upfront to reduce cost.</td><td>·</td>	Agility gives users the ability to host applications in multiple AWS Regions arounthe world. Agility gives users the ability to pay upfront to reduce cost.	·

✓ Which cloud architecture design concept is supported by distributing workloads across various Availability Zones?	*1/1
Implement automation.	
O Design for agility.	
Design for failure.	✓
Implement elasticity.	
Feedback	
Design of failure: Distribute workload data and resources across multiple Availability Zones (AZs) or, where necessary, across AWS Regions. These locations can be as diverse as required.	

r	Which component of the AWS global infrastructure is made up of one or *1/1 more discrete data centers that have redundant power, networking, and connectivity?
	AWS Region
	Availability Zone
\bigcirc	Edge location
	AWS Outposts
5	
An . of c or r Eac is p and	nore discrete data centers that have redundant power, networking, and connectivity. The AZ The hysically separated from other AZs within a region, and is designed to be fault-tolerant

✓ Which of the following is a critical design concept for architecting cloud *1/1 applications?
Use the largest instance possible
Provision capacity for peak load
Use the Scrum development process
Implement elasticity
Feedback Cloud services main proposition is to provide elasticity through horizontal scaling. It's already there. As for using largest instance possible, it is not a design principle that helps cloud applications in anyway. Scrum development process is not related to architecting. Therefore, a key principle is to provision your application for on-demand capacity. Peak loads is something that cloud applications experience everyday. Peak load management should be a necessary part of cloud application design principle.

✓ A company wants to implement threat detection on its AWS infrastructure. However, the company does not want to deploy additional software. Which AWS service should the company use to meet these requirements?	*1/1
Amazon VPC	
Amazon EC2	
Amazon GuardDuty	✓
AWS Direct Connect	
Feedback	
Amazon GuardDuty 1. Continuously monitor your AWS accounts, instances, container workloads, users, and storage for potential threats. 2. Expose threats quickly using anomaly detection, machine learning, behavioral modeling, and threat intelligence feeds from AWS and leading third-parties. 3. Mitigate threats early by initiating automated responses.	

✓ Which of the following tasks may be used to improve Amazon EC2 costs? *1/1 (Select two.)
Implementing Auto Scaling groups to add and remove instances based on demand .
Creating a policy to restrict IAM users from creating new instances .
Setting a budget to limit spending on EC2 instances using AWS Budgets.
 Purchasing Reserved Instances.
Adding EC2 instances to a second AWS Region that is geographically close to the end users.
Feedback
The two tasks that may be used to improve Amazon EC2 costs are:
Implementing Auto Scaling groups to add and remove instances based on demand: By utilizing Auto Scaling groups, you can automatically adjust the number of EC2 instances based on the current demand. This helps optimize costs by scaling up when there is high demand and scaling down during periods of low demand.
Purchasing Reserved Instances: Reserved Instances are a billing option that allows you to reserve EC2 capacity for a specified period, typically one or three years. By committing to a reservation, you can obtain a significant discount compared to on-demand instance pricing. This helps reduce costs if you have predictable or steady workloads.
The other options mentioned in the list do not directly impact EC2 costs:
Creating a policy to restrict IAM users from creating new instances: This task focuses on access control and doesn't directly affect cost optimization. Setting a budget to limit spending on EC2 instances using AWS Budgets: This task helps you manage and monitor your spending, but it doesn't directly optimize EC2 costs. Adding EC2 instances to a second AWS Region that is geographically close to the end users: This task is related to improving performance and user experience by reducing latency, but it doesn't directly impact cost optimization.

✓ Which AWS services or features provide disaster recovery solutions for Amazon EC2 instances? (Choose two.)	* 1/1
Reserved Instances	
EC2 Amazon Machine Images (AMIs)	✓
Amazon Elastic Block Store (Amazon EBS) snapshots	✓
AWS Shield	
Amazon GuardDuty	
Feedback The AWS services or features that provide disaster recovery solutions for Amazon EC2 instances are: 1. Amazon Elastic Block Store (Amazon EBS) snapshots: Amazon EBS is a block storag service for use with Amazon EC2 instances. EBS snapshots are point-in-time copies of an EBS volume that can be used to create a new volume or restore an existing volume. EBS snapshots can be used to recover data in the event of an instance failure, or to create a new instance in a different region or Availabil Zone. 2. Amazon Machine Images (AMIs): An AMI is a pre-configured virtual machine image to contains the operating system, application software. AMIs can be used to create new instances in the same or different region, which can be used for disaster recovery purposes.	lity hat

✓ When do you go for EC2 spot instances? (Select 2) *	1/1
Your workloads can be stopped at a minute's notice and can continue from where they stopped	✓
Your workloads are non immediate	✓
Your workloads cannot be stopped	
Your workloads are NOT fault tolerant	
Your workloads are immediate	
Feedback	
Explanation - On Demand Instances - Request when you want it. Flexible and Most Expensive. Immediate workloads (web applications/batch programs).	
- Spot Instances - Cheapest (upto 90% off). Quote the maximum price. Terminated with 2 minute notice. Cost sensitive, Fault tolerant, Non immediate workloads.	2
- Reserved Instances - Reserve ahead of time. Upto 75% off. 1 or 3 years reservation. Scheduled: Reserve for specific time period in a day. (5% to 10% off) No Upfront or Partic Upfront or All Upfront Payments	al
- Savings Plans - Commit spending \$X per hour on (EC2 or AWS Fargate or Lambda). Up 66% off. Lot of flexibility. 1 or 3 years reservation. No Upfront or Partial Upfront or All Upfront Payments	to

✓ Which AWS service is an object-based serverless storage system that is *1/1 able to handle a nearly unlimited amount of data?
Amazon DynamoDB
Amazon EC2
Amazon S3
Amazon ECS
Feedback Amazon S3 is an object-based serverless storage system that is able to handle a nearly unlimited amount of data.
✓ AWS has the ability to achieve lower pay-as-you-go pricing by aggregating *1/1 usage across hundreds of thousands of users. This describes which advantage of the AWS Cloud?
Launch globally in minutes
Increase speed and agility
High economies of scale
No guessing about compute capacity
Feedback "Benefit from massive economies of scale — 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.

✓ What is Amazon CloudFront? *	1/1
A global content delivery network	✓
A web service to schedule regular data movement	
A development front-end to Amazon Web Services	
An encrypted endpoint to upload files to the cloud	
Feedback	
Amazon CloudFront is a global content delivery network (CDN) service that accelerates delivery of your websites, APIs, video content or other web assets through CDN cachir It integrates with other Amazon Web Services products to give developers and business an easy way to accelerate content to end users with no minimum usage commitments. https://aws.amazon.com/cloudfront/	ng. ses

✓ Which of these AWS services integrates with storage services in AWS to *1/1 provide you with options to encrypt your data?
Amazon Macie
AWS WAF (Web Application Firewall)
AWS Shield
AWS KMS
Feedback
Explanation - KMS & Cloud HSM - Generate, store, use and replace your keys in AWS
- KMS: Create & manage cryptographic keys
- KMS integrates with all storage and database services in AWS
- Automatically rotate master keys once a year
- Schedule key deletion to verify if the key is used
- Mandatory minimum wait period of 7 days (max-30 days)
- CloudHSM: Dedicated single-tenant HSM for regulatory compliance
- (Remember) AWS KMS is a multi-tenant service
- Use Cases: Compliance to Regulations, Very high security

✓ For 3 hours, 5 minutes, and 6 seconds, a client operates an Amazon Linux *1/1 EC2 instance on-demand. How long will the consumer be charged?
3 hours, 5 minutes
3 hours, 5 minutes, and 6 seconds
3 hours, 6 minutes
4 hours
Feedback
AWS offers you a pay-as-you-go approach for pricing for over 160 cloud services. With AWS you pay only for the individual services you need, for as long as you use them, and without requiring long-term contracts or complex licensing. AWS pricing is similar to how you pay for utilities like water and electricity.

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