##### What are the advantapes of cloud computing over computing on- premises\* (Select the best answer )

Avoid large caDi£al purcnases

Use on demand capaciry Go plobat in minutes Increase speed and aqitiry At/ of the above

### What is the pricing model that enables AWS customers to pay for resources on an as-needed basis\* (Select the best answer )

Pay üS yOU Ci eCOmmISSi OU

Fay as you go jay as you buy

Pay as you reserve

Which of thèse is NOT a cloud deployment model?

(Select the best answer.)

Platform as a service

# Infrastructure as a service

## - System administra»on as a service



True or False? AWS owns and maintains the network-connected hardware required for application services, wnile you provision and use what you need.



Fa Use

#### Which of these is NOT a benefit of cloud computing over on-premises

computing? (Select the best answer )

Increase speed and agility

Pay for racki ng, stacking, and powering servers

Eliminate guessing on your infrastructure capacity needs Trade capital expense for variable expense

Benefit horn massive economies of scale

##### Which of the following are NOT benefits of AWS Cloud computing? (Choose two.)

Suit Dle procurement cycles Hiqln availability

Hiqh latency

Te porary and disposable resources Fault- oteranr data oases

Which oftne fo4owing is a compute service?(Seiectthe best answer)

Amazon VPC Amazon S3 Amazon EC2 Amazon CloudFront Amazon Redshik

True or False? Cloud computing provides a simple way to access servers,

storage, databases, and a broad set of application services over tne internet. You own the network connected hardware required for these services and Amazon Web Services provisions what you need.



False

Economies of scale result from (Select the best answer.)

having many d“Jerent clot d pi oviders

havinp hundreds of thousands of customs s aqprepated !n the cloud having hundreds of cloud services available over the internet

havinp to invest heavi(y in data centers ana servei's

Which of thèse art Wü 5 tO üCC6SS AWS core services? (Choose tnree )

Tecninical support calls

AWS Market place

AWS Management Console

AWS Command Line Interface (AWS CLI) Software Development Kits (SDKs)

MODULE 2

For certain services like Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Relational Database Service (Amazon RDS), you can invest in reserved capacity What options are available for Reserved Instances? (Choose three.)

AURI



NURI PURI DURI

Wnere can a customer go to get more detail5 äDOut AmaZon Elastic Compote Cloud (Amazon EC2) biflinp activity that took place 3 months apo? (Select the best Answer )

Amazon EC2 aashboa rd AWS Cost Explorer

AWS TruSted Advisor dashhoard

AWS C toudTrait logs stored in Amazon Simule Storage Service (Amazon SU)

True or false? To receive the discounted rate associated with Reserved Instances, you must make a full, upfront payment for the term of the agreement (Select the best answer )

True

False

There is no charpe for which of the following? (Cnoose two answers )



Storage

Inbound data transfer (with some exceptions) Outbound data ti ansfei-

Data transfer DQtween services within the same AWS Region

What are the four support plans offered by AWS Support? (Select the

best answer.)

Basic, DeveloDer, BLlSinesS, Enterprise Basic, Startup, Business, Enterprise Free, Bronze, Si Over, Gold

Att support is free

What AWS tOOf let5 you explore AWS services and create an estimate for the cost of your use cases on AWS? (Select the best answer )



AWS Budgets

AWS Cost and Usape Resort

AWS Billing Dashboard

As AWS grows, the cost of doing business is reduced and savings are passed back to the customer with lower pricing. What is this optimization called? (Select the best answer.)

Expenditure awareness

*a* Economies of scale

Matching supply and demand

EC2 Right Sizing

True or false? AWS offers some services at no charge, such as, Amazon Virtual Private Cloud, AWS Identity and Access Management, Consolidated Billing, AWS Elastic Beanstalk, automatic scaling, AWS OpsWorks and AWS CloudFormation. However, you might be charged for other AWS services that you use in conjunction with these services.

True False

When are free data transfers applicable across AWS? (Choose two.)

t I Free inbound data transfer across all AWS services in all Regions

” Free outbound data transfer across all AWS services in all Regions

Free inbound data transfer for Amazon Elastic Compute Cloud (Amazon EC2) instances

tV! Free outbound data transfer between AWS services within the same Region

True or false? Unlimited services are available with the AWS Free Tier to new AWS customers for 2 months following their AWS sign-up date. (Select the best answer.)

True

False

MODULE 3

Which component of the AWS Global Infrastructure does Amazon CloudFront use to ensure low-latency delivery? (Select the best answer )

AWS Regions

AWS edpe locations

AWS Availability Zones

Amazon Virtual Private Cloud (Amazon VPC)

You can run applications and workloads from a Region closer to the end

usersto iaency

inciease

decrease

True or False? Networking, storage, compute, and databases are examples of service categories that AWS oPers.

True

False

Which of the follows ng are geographic areas that host two or more Availability Zones? (Select the best answer.)

AWS Origins AWS Regions



Edge|ocaUons

means the infrastructure has bu”lt-in component redundancy and

means that resources dynamically adjust to increases or decreases in capacity requirements.

No human intervention, tau ft tolerant Elastic and scalable no numan irJtervent”on Fault tolerant, elastic and scalable

Elastic and scalable, fault tolerant

True or False? Availability Zones within a Repion are connected through low-latency finds.

True Fa Use

Which of these statements about Avaifabi City Zones is not true? (Select

the best answer )

Availabihty Zones are assigned for faLltt ISotat iOn

Availability Zones are made up of one or more data centers.

A data center can be usea for wore than one Availability Zone

Availability Zones are connected to each other usinp mph speed private /iisks

#### What is true about Regions? (Choose two.)

API ReglOlnS dFQ lDCd‹Cd in one specific peopraphic area

A Region is a physical location that nas multiple Availability Zones They are the physical locations of your customers

Each Repion is located i‹1 a separate peoprapllic area

AWS highly recommends provisioning your compute resources across

Availability Zones. (Select the Dest answer.)



all

True or False? Edge locations are only located in tne same General area as Regions





MODULE 4

##### In the shared responsibility model, AWS is responsible for providing what? (Select the best answer.)

Securit y of the cloud Securi ty to tree clou d Secui ity for the cloud



In the shared responsibility model, whicn of the following are examples of “security in the cloud”? (Choose two )

Compliance with compute security standards and regulations Physical security of the facilities in which the se vices operate Security grow p configurations

Encrypt ion of aata at rest and data in transit

Protecting the glooat infrastructure

Which of the following is the responsibility of AWS under the AWS

shared responsibility model? (Select the best answer.)

Configuring third-party applications Maintaining physical hardware Security application access and data

Wnen creating an AWS Identity and Access Management (IAT) policy, what are the two types of access that can be granted to a user? (Choose two )

Institu ionat access Autnorizcd access Programmatic access

AWS Manapei sent Console access

Administrative root access

True or false? AWS Organizations enables you to consolidate multiple AWS accounts so that you centrally manape them

True

Fa Use

Which of the following are best practices to secure your account using AWS Identity and Access Management (IAM)\* (Choo5e two )

Provide users with oefautt administrative oriv leges

Leave unusea and unnecessary users ano creaentiats in Dlace

Manage access to AWS resources.



US 'r5

Define One-trained access riphts.

Which of the following should be done by the AWS account root u5er? (Select the best answer.)

Secure access for applications Integrate with other AWS services Cha age granular Dermissions

CI anpe the AWS support plan

After initial lopin, what does AWS recommend as the best practice for the AWS account root user? (Select the best answer )

Delete the AWS account root used-

Revoke all per missions on the AWS account root user Rest rift Permission on the AWS account root laser Delete the access keys of the AWS account root se

How would a system administrator aod an additional layer of login security to a user's AWS Management Console? (Select the best answer )

Use Amazon Cloud Directory

Audit AWS Identity and Access Manajemen (IAM) roles Enable mu!t -factor autlnenticat on

Enable AWS C/oudTraif

True or False? AWS Key Management Service (AWS KMS) enables you to assess, audit, and evaluate the configurations of your AWS resources

True False

MODULE 5

With Amazon Virtual Private Cloud (Amazon VPC), wnat is the smallest size subnet you can nave in a VPC\* (Select the Dest answer.)



/28

/2

/30

With Amazon Virtual Private Cloud (Amazon VPC), what is the maximum size IP address ranpe you can have in a VPC? (Select the best answer )

/24

/30

/ 6

/28

You need to allow resources in a pr”vate suDnet to access the internet. Wnich of the foffOwing mU5t be present to enable this access? (Select tne best answer.)

NAT gateway Security proups

N etWO rk aCCeSS COlst rO I II StS

Route tables

Which AWS networking service end Dies a company to create a virtua network within AWS? (Select the best answer )

AWS Config

Amazon Virtual Private Closed (Amazon VPC) Amazon Route 53

AWS Di rect Connect

True or False? Private subnets have direct access to the internet.

True Fa Use

Wnich component of AWS Global Infrastructure does Amazon

CloudFront use to ensure low-latency delivery\* (Select the best answer )

AWS edge localions AWS Regions

AWS Availability Zones

Amazon Virtual Private Cloud (Amazon VPC)

Which of the following is an optiona security control that can be applied at the subnet layer of a VPC? (Select the bQ5t dN5WCF.)

Security group

WeD application firewall F irewafl

Network ACL

What happens when you use Amazon Virtual Private ClDLJd (Amazon

VPC) to create a new VPC7 (Select the best answer )

A mai n i oute ta Die iS creat ea by defa r It An internet gateway is creat ed by default

Three subnet s are created by de/au/t one for each Availability Zone Three subnets are crea ted by detaLl it in o e Availability Zo»e

Which of the follows ng can be used to protect Amazon Elastic Compute

Cloud (Amazon EC2) instances hosted in AWS7 (Select the best answer )

AH

Secu ity grou D Internet Gateway AIR of the above

You are a solutions architect who works at a large retail company that is mipratinp its existing infrastructure to AWS. You recommend that tney use a custom VPC. When you create a VPC, you assipn it to an lPv4 Classless Inter-Domain Routing (CIDR) block of 0 0 1 0/24 (which has 256 total IP addresses) How many IP addresses are available? (Select the best answer,)

2<6

251

250

256

MODULE 6

Wny is AWS more economical than traditional data centers for

applications with varying compute worKloads? (Select the best answer)

Amazon EC2 costs are billed on a monthly basis.

Customers retain fu tt administrative access to their Amazon EC2 instances. Customers can pern3anenfly run enouph nstances to handle peak workloads Amazon EC2 instances can be launched on-denda nd when needea

If your project requires monthly reports that iterate through very Carpe amounts of data, which Amazon Elastic Compute Cloud (Amazon EC2) purchasing option snould you consider? (Select the best answer)

Spot Instances

Scheduled Reserved Instances Dedicated Hosts

On-Demand Instances

What is includes in an Amazon Machine lmape (AMI)? (Select the best

##### answer)

A template foi tnC FOOt VOlLlme for the instance

Launch permissions that control which AWS accounts can use the AMI to launch instances

A block aevice mappKlg that specifies the volumes to attacn to the instance when it's launched

All of the above

Which Amazon Elastic Compute Cloud (Amazon EC2) feature ensures your nstances will not share a physical host with instances from any other AWS customer? (Select tne best answer)

Amazon VPC Placeiveiai q rou ps Dedicated Instances Reserved Instances

Whihofthefo4o ingservicSi5aswveresscomputserviceinAWS?

(Select the best answer)

AWS Config AWS Lambda AWS OpsWorks

Amazon EC2

What is the service provided by AWS that eNdDfes developers to easily deploy and manape applications in the cloud\* (Select the best answer)

Amazon Elastic Container Serv ce

. AWS Elastic Beanstalk

AWS Opswork

AWS C IoudFormation

Your web application needs four instances to support steady traffic all of the time. On the last day of the month, the traffic triples. What is tne most cost-effective way to handle this pattern? (Select the best answer)

Run 12 Reserved Instances a/f of the time

Run four On-Demand instances const ant ty, then aad eight more On-Demand Instances on tne last day of each month.

Run four Reserve a Inst ances const antty, theft add eignt On- Demand Inst ances “ on the last day of each month.

Run four On -Demand nstances const ant fy, then add eight Reserved instances on the last day of each month.

## True or False? Containers contain an entire operating system.

True

### Which Amazon EC2 option is be5t for long-term workloads with predictable usage patterns? (Select the best answer)

Spot Instances

O s-Demana séances Reserved Instances

Whïch of the foffoWing TU5t bQ 5QQCIÜQd when launching a new Amazon

Elastic Compute Cloud (Amazon EC2) Windows instance? (Choose vwo)

Password for the administrafor account The Amazon EC2 instance ID

Amazo n EC2 instance tyDe



MODULE 7

True or False? Amazon Simple Storage Service (Amazon SV) is an object storage suitaDfe for tne storage of flat flies like Microsoft Word documents, pnotos, etc

True

Fa Ise

#### Amazon S3 replicates all objeCt5 . (Select the best answer)

on multi ple volumes within an Availab lity Zone

in multiple Availab Lty Zones within tne same Reqion

across multiole Regions for higher dri ability

on multiple SA buckets

Which of the following can be used as a storage class for an S3 ob ect lifecycle policy\* (Choose three)

SP- Standard Access AWS Sto age Gateway SP Infrequent Access

Simple Storage Service Glacier

SP - Reduced Redundancy Storage

Amazon Dynamo DB

The name of an S3 bucket must be unique (Select the best

answer)

worldwiae across all AWS accounts

within a Region

across all your AWS accou nts

within your AWS account

YOU COC USe AmaZon Elastic File System (Amazon EFS) to: (Select the Dest answQF)

provide simple, scalable, elastic tie storage for use only withi n AWS.

implement storage fa Amazon EC2 instances tin at multiple virtual machines can access at tne sa we time.

nost a robust CDN to deliver entire web sites with dynamic, static, and streaming content.

generate user-specific content

Amazon Efastic Block Store (Amazon EBS) is recommended when data

and . (Choose two)

requires object—level storage

m LISt be C|Li ICkty a CCeSSi DIE', rE'C| LJ i ri n g IOIs g - t ernn pE'rSÏSteln CE'

requires an encryption solution

needs to be stored in a di fÏerent Ava labihty Zone than the okee the EC2 instancc is in

True or False? By default, all data stored in Amazon SA is viewabfe by the public.

True Fa Use

Regarding Amazon SP Glacier, what is a Vault? (Select the best answer)

The rules Usa determine who may (or may not) access arcïnives An oDject (photos, videos, files, or documents)

A container for storing archives

A policy that identifies who can access content s orea in Glacier

True or Fa|se?Whenyou create a bucket inAmazon SJ is assocateo

with a specific AWS Region

True Fa Use







MODULE 8

You are resigning an ecommerce web application that will scale to hundreds of thousanos of concurrent users. Which dataDase technology is best suited to hold the session state ”n this example\*

AmazOn Relational Database Service (Amazon RDS)

Amazon DynamoDB Amazon Redshik

Amazon Simple Stora ge Service (Amazon SP)

You need to find an item in an Amazon DynamoDB table using an attribute other than the item's primary key. Which of the following operations should you use? (Select the best answer,)

Scan

Query



in Amazon DynamoDB, what does the query operation enable you to do\* (Select the best answer.)

Query a table using the partition key and an opt ionat sort key Alter

Query any secondary indexes tieat exist for a table Elcient Iy retrieve it en s I a a table or secondary index Al/ of the above

Which AWS Clouo service is best suited for analyzing your data by using standard structured query language (SQL) and your existing business intelligence (BI) tools? (Select the best answer )

Amazon Re!ational Database Service (Amazon RDS)

Amazon Simple Storage Service Glacier



Amazon Redshift

In Amazon DynamoDB, an attribute is (Select the best answer )

a fondamental data element

a collection of items

ü COltQ Ct iO n Oh a ttriDU tQS

If you are developing an appfication that requires a dataDase with extremefy last performance, fast scafability, and ffeXlDility in the dütaDase schema, which service should you consider? (Select the best answer )

Amazon Relay ional Database Service (Amazon RDS)

Amazon EtastiCacne Amazon DynamoDB Amazon Reashift

Which of the follows ng use cases is appropriate for using Amazon

Relational Database Service (Amazon RDS)? (Select the best answer.)

Massive read/write rates Simpte GET or PUT requests Coi»ptex transactions

At/ of tne above

A company has an application, which consists of a .NET layer that connects to a MySQL database. They want to move this application on to AWS and use AWS features such as high availability and automated backups. Which of tne following would be an ideal database for this use case? (Select the best answer)

AmdZOn DynamoDB Amazon Aurora Amazon Redsfsift Amazon RDS

True or false? Amazon RDS automatically patches the dataDase software

and backs up your database, storing the backups for a user-definea retention perioo and enabling point in time recovery.

True FaUse

What shouTo you consider whQn choosing a dataDase type\* (Select the

best answer )



Data access period Query frequency Hipnly available AU of the above

MODULE 9

Wnich of the following is not one of the four areas of the Performance

ETciency pillar of tne AWS Well-Arch tected Framework? (Select UC DQSt

##### answer.)

Tradeohs Selection Traceability Monitoring

Wnich of the following is a principle when designing cloud-bd56d

## systems? (Select the best answer )

But Id tightly-coupled components Make infrequent, large batcn changes Assume everything will fail

Use as many services as possible

Wnich of the following are pillars of me AWS Well-Architected

## Framework? (Choose ‹nree.)

Security

Persistence Operational Excellence COSt Optimization

Which design principles are recommended When con5idering

## performance efficiency? (Choose two.)

batch supply witn demand Analyze and Btt riDute expenditure Use serverless architectures Enable traceability

Democratize advanced tecnnologies

##### AWS Trusted Advisor provides insipht repardinp which ève catepories of an AWS account? (Select the best answer,)

Security, faust toterance, hign availaoility, connectivity, service timits Security, access control, high availabÎlit , Derformance, service timits PeI“fOfma nCe, COSt ODtimi zation, access cont ol, connectivity, security

Performance, cost ont imitation, secu city, fault toterance, service limits

The AWS Well-Arcnitected Framework is organized into how many

pillars? (Select the best answer )

4

5

None of une above

After you move to the AWS Cloud, you want to ensure that tne rigni security settings are put in place. Wnich onl ne tool can assist in secu City compliance? (Select tne oest answer.)

Amazon Kinesis

AWS SupDon

AWS /rusted Advisor

Amazon CloudWatch

WnhofhefoLowngisameasueofyourysem’sabüytopovide TuncüonaÈtyvvhen desreo by he user?(Seiecttne bestan5wor)

Avaifa Difity

Faust Tolérance



Performance elciency

Wnat is defined as the aDility for a system to remain operational even if some of tne components of that system fail? (Select tne Dest answer.)

Hig n auraoility Fau/t tolerance Hip n availability Hign ourability

Wnich of the following best describes a system tnat can withstano some measures of depraoation, experiences minimal downtime, and requires minimal human intervention? (Select the best answer )

Scalable

Fault-tolerant

Elast c

Hipn/y available

MODULE 1 0

Wnich of the following AWS tools help yDur application scale up or down

eased on demana? (Choose two )

Availability Zones

Amazon EC2 Auto Sealump AWS CloudFormation Elastic Load Balancing AWS Confiq

Wnich service would you use to send alerts Daseo on Amazon

# CfoudWa‹ch alarms7 (Select the besl answer.)

Amazon Simple Notification Service (Amazon SNS)

AWS CtouaTrail

AWS Trusted Advisor

Amazon Route 53

Wnich of the following are characteristics of Amazon EC2 Auto Scaling? (Choose three.)



Responds to chanpinp conditions by addinq or terminating instances

DelivEFS DLJsh notifications

Launches instances from a spec bed Amazon Macnine Image (AMI)

Enforces a minimum number of runni nq Amazon EC2 instances

##### Wnich of the following must oe confipurea on an Efast c Load Balancing Joao balancer to expect incoming tralc? (Select tne oest answe )

A port

A network interface

‹ A listener

An instante

Wnich of the foltowing elements are used to create an Amazon EC2 Auto Sea king fauncn configuration? (Cnoose three.)

Aicazon Machine Imape (API) Load balances

Instance tyDe

ViFtud Drivate c/oua (VPC) ana suDnets

Amazon Elastic Block Store (Amazon EBS) volumes

Wnich of the foltowinp services can help you collect important metrics from Amazon Refational DátaDase Service (Amazon RDS) and Amazon Elast“c Compete C/oud (Amazon EC2) instantes? (Select the be5t answeF.)

Amazon ClouaFroint Amazon CloudSearcn Amazon ClouaWatcn AWS CtouoTrait

Amazon EC2 Auto Scaling

Wnich of the following are elements of an Auto Scaling group? (Choose three.)

Minimum size Hea Sth checKs Desired capacity



There is an audit at your company and tney need to have a dog of all access to AWS resources in the account. Whicn of tne follow ng services CäS äSSI5t Ïn proviaing thèse detai/s? (Select the be5t answer.)

Amazon CloudWatch AWS C/oudTrait

Amazon Etast ic Compute Cloud (Amazon EC2)

Amazon Simple Notification Service (Amazon SNS)

!n Elastic Load Balancing, when the load balancer detects an unnealthy target, wnich of the following are true? (Choose three )

Stops routing trade to that target

Tnggers an a farm

Resumes roufi nq traffic when it detects tnar tne tarpet is wealthy aqa in Resumes routing traffic when manually restarted

Routes trade to a nea tthy target

Wnat a re tne three types of Joao balancers that Elastic Load Balancing oPers?

Internet Loaa Balancer Application Loaa Balancei Network Load Balancer Compute Loaa Bala ncer Classic Load Balancer

Auto Sea ting Load Balancer

MODULE 11 FINAL(ignorare forse)

## What is caching?

A high-speed data storage layer

#### A way zo slore passwords

##### A global network for content distribution An in-memory database

Which types of data should you cache?

Dala that can be retrieved quickly with simple queries

Dynamically generated web content

a Static daza Ihat is frequently accessed

Specialized da‹a that is needed by a subsRt Df users

What is a benefit of caching?

Reduced response latency Load balancing the application Increased application reliability Decreased costs

What does Amazon CloudFront enable?

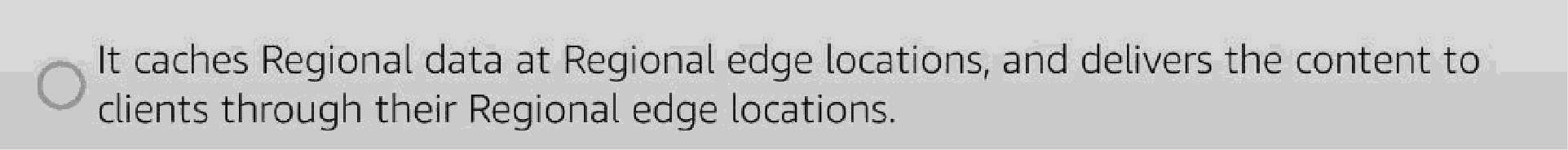
Bidirectional caching between users and an origin host Multi-tiered and regional caching of content Transactional processing with an in-memory database Automatic creation of a time-to-live value

How does Amazon CloudFront use edpe locations?

It caches all content from an oripin distribution at the edpe location, and oelivers the content to clients through the fastest edpe location.

It caches local content az edpe locations. It delivers the cached content to clients th ouph the edpe location that requires the fewest network hops to reach those clients.

It caches frequently accessed content at edge locations. It delivers the cached content to clients through the edge location with the lowest latency to those clients.



#### Where is application session data cached when using sticky sessions?

Web server Web browser

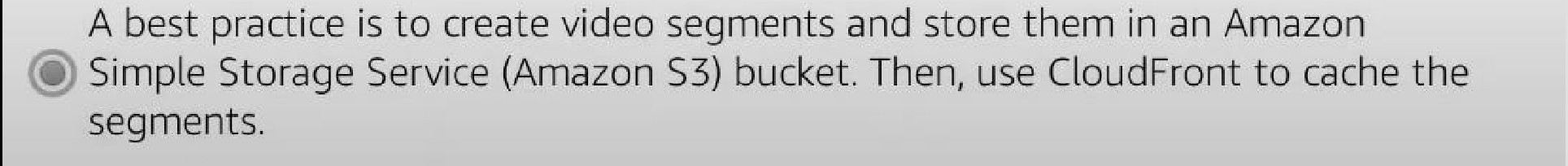
Elastic Load Balancing load balancer Amazon CfoudFront

Which statement best describes an efficient way to deliver on-demand streaming content by using Amazon CloudFront?

CtoudFront does not work with streaming content

A best pramice is to create separate oripin servers for each Repion where you serve streaming content.

A best practice is to create distributions for each Region where you serve streaming content.



What is Amazon DynamoDB Accelerator (DAX)?

A fully managed, highly available, in-memory cache for DynamoDB

A \*eazure of DynamoDB that automatically adjusts read/write capacity to handle load

A fully managed, hiphly available cache that is backed by DynamoDB

A feature of DynamoDB that enables fast lookup of items by usinp secondary

‘° keys

How can an application use Amazon ElastiCache zo improve database read performance? (Select TWO )

Read data from the database first and write the most frequently read data to ElastiCache.

Direct all read requests to tne database and configure it to read from ElastiCache when a cache miss occurs.

Read data from ElastiCache first and write to ElastiCache when a cache miss occurs.

v Write data to ElastiCache whenever the application writes to the database.

Replicate the database in ElastiCache, and direct alt reads to EtastiCache and all writes to the database.

Which role does Amazon CloudFront play in protecting against distributed denial of service (DDoS) attacks?

Routes traffic through edge locations

Controls traKc by the source I addresses of requests

Restricts traffic by geography to help block attacks that originate from specific countries

Performs deep packet inspection to detect attacks