DUMPS - AWS Certified Solutions Architect - Associate (SAA-C01)

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A Solutions Architect is designing an application that will encrypt all data in an Amazon Redshift cluster.

Which action will encrypt the data at rest?

Options:

- A. Place the Redshift cluster in a private subnet.
- B. Use the AWS KMS Default Customer master key.
- C. Encrypt the Amazon EBS volumes.
- D. Encrypt the data using SSL/TLS.

Answer: B

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Question 2

A website experiences unpredictable traffic. During peak traffic times, the database is unable to keep up with the write request.

Which AWS service will help decouple the web application from the database?

Options:

A. Amazon SQS

B. Amazon EFS

C. Amazon S3

D. AWS Lambda

Answer: A

Question 3

A legacy application needs to interact with local storage using iSCSI. A team needs to design a reliable storage solution to provision all new storage on AWS.

Which storage solution meets the legacy application requirements?

Options:

A. AWS Snowball storage for the legacy application until the application can be re-architected.

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B. AWS Storage Gateway in cached mode for the legacy application storage to write data to

Amazon S3.

C. AWS Storage Gateway in stored mode for the legacy application storage to write data to

Amazon S3.

D. An Amazon S3 volume mounted on the legacy application server locally using the File Gateway

service.

Answer: C

Question 4

A Solutions Architect is designing an architecture for a mobile gaming application. The application is

expected to be very popular. The Architect needs to prevent the Amazon RDS MySQL database from

becoming a bottleneck due to frequently accessed queries.

Which service or feature should the Architect add to prevent a bottleneck?

Options:

A. Multi-AZ feature on the RDS MySQL Database

B. ELB Classic Load Balancer in front of the web application tier

C. Amazon SQS in front of RDS MySQL Database

D. Amazon ElastiCache in front of the RDS MySQL Database

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300 Questions
Answer: D
Question 5
A company is launching an application that it expects to be very popular. The company needs a database
that can scale with the rest of the application. The schema will change frequently. The application cannot
afford any downtime for database changes.
Which AWS service allows the company to achieve these objectives?
Options:
A. Amazon Redshift
B. Amazon DynamoDB
C. Amazon RDS MySQL
D. Amazon Aurora
Answer: B
Question 6
A Solutions Architect is designing a disaster recovery solution for a 5 TB Amazon Redshift cluster. The

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recovery site must be at least 500 miles (805 kilometers) from the live site.

How should the Architect meet these requirements?

Options:

A. Use AWS CloudFormation to deploy the cluster in a second region.

B. Take a snapshot of the cluster and copy it to another Availability Zone.

C. Modify the Redshift cluster to span two regions.

D. Enable cross-region snapshots to a different region.

Answer: D

Question 7

A customer has written an application that uses Amazon S3 exclusively as a data store. The application works well until the customer increases the rate at which the application is updating information. The customer now reports that outdated data occasionally appears when the application accesses objects in Amazon S3.

What could be the problem, given that the application logic is otherwise correct?

Options:

A. The application is reading parts of objects from Amazon S3 using a range header.

B. The application is reading objects from Amazon S3 using parallel object requests.

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C. The application is updating records by writing new objects with unique keys.

D. The application is updating records by overwriting existing objects with the same keys.

Answer: A

Question 8

A Solutions Architect is designing a new social media application. The application must provide a secure method for uploading profile photos. Each user should be able to upload a profile photo into a shared storage location for one week after their profile is created.

Which approach will meet all of these requirements?

Options:

A. Use Amazon Kinesis with AWS CloudTrail for auditing the specific times when profile photos are

uploaded.

B. Use Amazon EBS volumes with IAM policies restricting user access to specific time periods.

C. Use Amazon S3 with the default private access policy and generate pre-signed URLs each time

a new

site profile is created.

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D. Use Amazon CloudFront with AWS CloudTrail for auditing the specific times when profile
photos are
uploaded.
Answer: C
Question 9
An application requires block storage for file updates. The data is 500 GB and must continuously sustain
100 MiB/s of aggregate read/write operations.
Which storage option is appropriate for this application?
Options:
A. Amazon S3
B. Amazon EFS
C. Amazon EBS
D. Amazon Glacier
Answer: C
Question 10

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A mobile application serves scientific articles from individual files in an Amazon S3 bucket. Articles older than 30 days are rarely read. Articles older than 60 days no longer need to be available through the application, but the application owner would like to keep them for historical purposes.

Which cost-effective solution BEST meets these requirements?

Options:

A. Create a Lambda function to move files older than 30 days to Amazon EBS and move files older than 60

days to Amazon Glacier.

B. Create a Lambda function to move files older than 30 days to Amazon Glacier and move files older than

60 days to Amazon EBS.

C. Create lifecycle rules to move files older than 30 days to Amazon S3 Standard Infrequent Access and

move files older than 60 days to Amazon Glacier.

D. Create lifecycle rules to move files older than 30 days to Amazon Glacier and move files older than 60

days to Amazon S3 Standard Infrequent Access.

Answer: C

Amazon

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Exam AWS-Solution-Architect-Associate

AWS Certified Solutions Architect - Associate

Version: 12.0

[Total Questions: 421]

Topic break down

Topic No. of Questions

Topic 1: Exam A 80

Topic 2: Exam B 95

Topic 3: Exam C 198

Topic 4: Exam D 48

Topic 1, Exam A

Question No: 1 - (Topic 1)

Company B is launching a new game app for mobile devices. Users will log into the game using their existing social media account to streamline data capture. Company B would like to directly save player data and scoring information from the mobile app to a DynamoDS table named Score Data When a user saves their game the progress data will be stored to the Game state S3 bucket. What is the best approach for storing data to DynamoDB and

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S3?

A. Use an EC2 Instance that is launched with an EC2 role providing access to the Score

Data DynamoDB table and the GameState S3 bucket that communicates with the

mobile app via web services.

B. Use temporary security credentials that assume a role providing access to the Score

Data DynamoDB table and the Game State S3 bucket using web identity federation.

C. Use Login with Amazon allowing users to sign in with an Amazon account providing the

mobile app with access to the Score Data DynamoDB table and the Game State S3

bucket.

D. Use an IAM user with access credentials assigned a role providing access to the Score

Data DynamoDB table and the Game State S3 bucket for distribution with the mobile app.

Answer: A

Question No: 2 - (Topic 1)

Your company runs a customer facing event registration site This site is built with a 3-tier

architecture with web and application tier servers and a MySQL database The application

requires 6 web tier servers and 6 application tier servers for normal operation, but can run

on a minimum of 65% server capacity and a single MySQL database. When deploying this

application in a region with three availability zones (AZs) which architecture provides high

availability?

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A. A web tier deployed across 2 AZs with 3 EC2 (Elastic Compute Cloud) instances in each AZ inside an Auto Scaling Group behind an ELB (elastic load balancer), and an application tier deployed across 2 AZs with 3 EC2 instances in each AZ inside an Auto Scaling Group behind an ELB. and one RDS (Relational Database Service) instance deployed with read replicas in the other AZ.

B. A web tier deployed across 3 AZs with 2 EC2 (Elastic Compute Cloud) instances in

each A2 inside an Auto Scaling Group behind an ELB (elastic load balancer) and an

application tier deployed across 3 AZs with 2 EC2 instances in each AZ inside an Auto

Scaling Group behind an ELB and one RDS (Relational Database Service) Instance

deployed with read replicas in the two other AZs.

C. d A web tier deployed across 2 AZs with 3 EC2 (Elastic Compute Cloud) instances

in each AZ inside an Auto Scaling Group behind an ELB (elastic load balancer) and an

application tier deployed across 2 AZs with 3 EC2 instances m each AZ inside an Auto

Scaling Group behind an ELS and a Multi-AZ RDS (Relational Database Service)

deployment.

D. A web tier deployed across 3 AZs with 2 EC2 (Elastic Compute Cloud) instances in

each AZ Inside an Auto Scaling Group behind an ELB (elastic load balancer). And an

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application tier deployed across 3 AZs with 2 EC2 instances In each AZ inside an Auto Scaling Group behind an ELB. And a Multi-AZ RDS (Relational Database services) deployment.

Answer: B

Question No: 3 - (Topic 1)

You have an application running on an EC2 Instance which will allow users to download flies from a private S3 bucket using a pre-assigned URL. Before generating the URL the application should verify the existence of the file in S3.

How should the application use AWS credentials to access the S3 bucket securely?

A. Use the AWS account access Keys the application retrieves the credentials from the source code of the application.

B. Create a IAM user for the application with permissions that allow list access to theS3 bucket launch the instance as the IAM user and retrieve the IAM user's credentials from the EC2 instance user data.

C. Create an IAM role for EC2 that allows list access to objects in the S3 bucket.

Launch the instance with the role, and retrieve the role's credentials from the EC2 Instance metadata

D. Create an IAM user for the application with permissions that allow list access to the S3 bucket. The application retrieves the IAM user credentials from a temporary directory

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with permissions that allow read access only to the application user.

Answer: B

Question No: 4 - (Topic 1)

You have been asked to design the storage layer for an application. The application

requires disk performance of at least 100,000 IOPS in addition, the storage layer must be

able to survive the loss of an individual disk. EC2 instance, or Availability Zone without any

data loss. The volume you provide must have a capacity of at least 3 TB. Which of the

following designs will meet these objectives'?

A. Instantiate an 12 8xlarge instance in us-east-1a Create a RAID 0 volume using the

four 800GB SSD ephemeral disks provided with the instance Provision 3x1 TB EBS

volumes attach them to the instance and configure them as a second RAID 0 volume

Configure synchronous, block-level replication from the ephemeral-backed volume to the

EBS-backed volume.

B. Instantiate an 12 8xlarge instance in us-east-1a create a raid 0 volume using the

four 800GB SSD ephemeral disks provide with the Instance Configure synchronous blocklevel

replication to an Identically configured Instance in us-east-1b.

C. Instantiate a c3 8xlarge Instance In us-east-1 Provision an AWS Storage Gateway

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and configure it for 3 TB of storage and 100 000 IOPS Attach the volume to the instance.

D. Instantiate a c3 8xlarge instance in us-east-i provision 4x1TB EBS volumes, attach

them to the instance, and configure them as a single RAID 5 volume Ensure that EBS

snapshots are performed every 15 minutes.

E. Instantiate a c3 8xlarge Instance in us-east-1 Provision 3x1TB EBS volumes attach

them to the instance, and configure them as a single RAID 0 volume Ensure that EBS

snapshots are performed every 15 minutes.

Answer: D

Question No : 5 - (Topic 1)

To serve Web traffic for a popular product your chief financial officer and IT director have

purchased 10 ml large heavy utilization Reserved Instances (RIs) evenly spread across

two availability zones: Route 53 is used to deliver the traffic to an Elastic Load Balancer

(ELB). After several months, the product grows even more popular and you need additional

capacity As a result, your company purchases two C3.2xlarge medium utilization Ris You

register the two c3 2xlarge instances with your ELB and quickly find that the ml large

instances are at 100% of capacity and the c3 2xlarge instances have significant capacity

that's unused Which option is the most cost effective and uses EC2 capacity most

effectively?

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A. Use a separate ELB for each instance type and distribute load to ELBs with Route

53 weighted round robin

B. Configure Autoscaning group and Launch Configuration with ELB to add up to 10

more on-demand mi large instances when triggered by Cloudwatch shut off c3 2xiarge

instances C. Route traffic to EC2 ml large and c3 2xlarge instances directly using Route 53

latency based routing and health checks shut off ELB

D. Configure ELB with two c3 2xiarge Instances and use on-demand Autoscailng group for

up to two additional c3.2xlarge instances Shut on mi .large instances.

Answer: D

Question No: 6 - (Topic 1)

Your company produces customer commissioned one-of-a-kind skiing helmets combining

nigh fashion with custom technical enhancements Customers can show off their

Individuality on the ski slopes and have access to head-up-displays. GPS rear-view cams

and any other technical innovation they wish to embed in the helmet.

The current manufacturing process is data rich and complex including assessments to

ensure that the custom electronics and materials used to assemble the helmets are to the

highest standards Assessments are a mixture of human and automated assessments you

need to add a new set of assessment to model the failure modes of the custom electronics

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using GPUs with CUDA. across a cluster of servers with low latency networking.

What architecture would allow you to automate the existing process using a hybrid approach and ensure that the architecture can support the evolution of processes over

A. Use AWS Data Pipeline to manage movement of data & meta-data and assessments Use an auto-scaling group of G2 instances in a placement group.

B. Use Amazon Simple Workflow (SWF) 10 manages assessments, movement of data& meta-data Use an auto-scaling group of G2 instances in a placement group.

C. Use Amazon Simple Workflow (SWF) lo manages assessments movement of data & meta-data Use an auto-scaling group of C3 instances with SR-IOV (Single Root I/O Virtualization).

D. Use AWS data Pipeline to manage movement of data & meta-data and assessments use auto-scaling group of C3 with SR-IOV (Single Root I/O virtualization).

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Answer: A

time?

Question No: 7 - (Topic 1)

You deployed your company website using Elastic Beanstalk and you enabled log file rotation to S3. An Elastic Map Reduce job is periodically analyzing the logs on S3 to build a

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usage dashboard that you share with your CIO. You recently improved overall performance

of the website using Cloud Front for dynamic content delivery and your website as the

origin

After this architectural change, the usage dashboard shows that the traffic on your website

dropped by an order of magnitude. How do you fix your usage dashboard'?

A. Enable Cloud Front to deliver access logs to S3 and use them as input of the Elastic

Map Reduce job.

B. Turn on Cloud Trail and use trail log tiles on S3 as input of the Elastic Map Reduce job

C. Change your log collection process to use Cloud Watch ELB metrics as input of the

Elastic Map Reduce job

D. Use Elastic Beanstalk "Rebuild Environment" option to update log delivery to the Elastic

Map Reduce job.

E. Use Elastic Beanstalk 'Restart App server(s)" option to update log delivery to the Elastic

Map Reduce job.

Answer: D

Question No: 8 - (Topic 1)

You are developing a new mobile application and are considering storing user preferences

in AWS.2w This would provide a more uniform cross-device experience to users using

multiple mobile devices to access the application. The preference data for each user is

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estimated to be 50KB in size Additionally 5 million customers are expected to use the application on a regular basis. The solution needs to be cost-effective, highly available, scalable and secure, how would you design a solution to meet the above requirements?

A. Setup an RDS MySQL instance in 2 availability zones to store the user preference data. Deploy a public facing application on a server in front of the database to manage security and access credentials

B. Setup a DynamoDB table with an item for each user having the necessary attributes to hold the user preferences. The mobile application will query the user preferences directly from the DynamoDB table. Utilize STS. Web Identity Federation, and DynamoDB Fine Grained Access Control to authenticate and authorize access.

C. Setup an RDS MySQL instance with multiple read replicas in 2 availability zones to store the user preference data .The mobile application will query the user preferences from the read replicas. Leverage the MySQL user management and access privilege system to manage security and access credentials.

D. Store the user preference data in S3 Setup a DynamoDB table with an item for each user and an item attribute pointing to the user' S3 object. The mobile application will retrieve the S3 URL from DynamoDB and then access the S3 object directly utilize STS,

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Web identity Federation, and S3 ACLs to authenticate and authorize access.

Answer: B

Question No: 9 - (Topic 1)

An AWS customer is deploying an application mat is composed of an AutoScaling group of EC2 Instances.

The customers security policy requires that every outbound connection from these instances to any other service within the customers

Virtual Private Cloud must be authenticated using a unique x 509 certificate that contains the specific instance-id.

In addition an x 509 certificates must Designed by the customer's Key management service in order to be trusted for authentication.

Which of the following configurations will support these requirements?

A. Configure an IAM Role that grants access to an Amazon S3 object containing a signed certificate and configure me Auto Scaling group to launch instances with this role Have the instances bootstrap get the certificate from Amazon S3 upon first boot.

B. Embed a certificate into the Amazon Machine Image that is used by the Auto
Scaling group Have the launched instances generate a certificate signature request with
the instance's assigned instance-id to the Key management service for signature.

C. Configure the Auto Scaling group to send an SNS notification of the launch of a new

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instance to the trusted key management service. Have the Key management service

generate a signed certificate and send it directly to the newly launched instance.

D. Configure the launched instances to generate a new certificate upon first boot Have

the Key management service poll the AutoScaling group for associated instances and

send new instances a certificate signature (hat contains the specific instance-id.

Answer: A

Question No : 10 - (Topic 1)

Your company is in the process of developing a next generation pet collar that collects

biometric information to assist families with promoting healthy lifestyles for their pets Each

collar will push 30kb of biometric data In JSON format every 2 seconds to a collection

platform that will process and analyze the data providing health trending information back

to the pet owners and veterinarians via a web portal Management has tasked you to

architect the collection platform ensuring the following requirements are met.

Provide the ability for real-time analytics of the inbound biometric data

Ensure processing of the biometric data is highly durable. Elastic and parallel

The results of the analytic processing should be persisted for data mining

Which architecture outlined below win meet the initial requirements for the collection

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platform?

A. Utilize S3 to collect the inbound sensor data analyze the data from S3 with a daily

scheduled Data Pipeline and save the results to a Redshift Cluster.

B. Utilize Amazon Kinesis to collect the inbound sensor data, analyze the data with Kinesis

clients and save the results to a Redshift cluster using EMR.

C. Utilize SQS to collect the inbound sensor data analyze the data from SQS with Amazon

Kinesis and save the results to a Microsoft SQL Server RDS instance.

D. Utilize EMR to collect the inbound sensor data, analyze the data from EUR with Amazon

Kinesis and save me results to DynamoDB.

Answer: B

Question No: 11 - (Topic 1)

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A read only news reporting site with a combined web and application tier and a database

tier that receives large and unpredictable traffic demands must be able to respond to these

traffic fluctuations automatically. What AWS services should be used meet these

requirements?

A. Stateless instances for the web and application tier synchronized using Elasticache

Memcached in an autoscaimg group monitored with CloudWatch. And RDSwith read

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replicas

B. Stateful instances for me web and application tier in an autoscaling group monitored

with CloudWatch and RDS with read replicas

C. Stateful instances for the web and application tier in an autoscaling group monitored

with CloudWatch. And multi-AZ RDS

D. Stateless instances for the web and application tier synchronized using ElastiCache

Memcached in an autoscaling group monitored with CloudWatch and multi-AZ RDS

Answer: B

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Question No: 12 - (Topic 1)

You would like to create a mirror image of your production environment in another region

for disaster recovery purposes. Which of the following AWS resources do not need to be

recreated in the second region? (Choose 2 answers)

A. Route 53 Record Sets

B. IM1 Roles

C. Elastic IP Addresses (EIP)

D. EC2 Key Pairs

E. Launch configurations

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F. Security Groups

Answer: A,C

Question No : 13 - (Topic 1)

Your company is getting ready to do a major public announcement of a social media site

on AWS. The website is running on EC2 instances deployed across multiple Availability

Zones with a Multi-AZ RDS MySQL Extra Large DB Instance. The site performs a high

number of small reads and writes per second and relies on an eventual consistency model.

After comprehensive tests you discover that there is read contention on RDS MySQL.

Which are the best approaches to meet these requirements? (Choose 2 answers)

A. Deploy ElasticCache in-memory cache running in each availability zone

B. Implement sharding to distribute load to multiple RDS MySQL instances

C. Increase the RDS MySQL Instance size and Implement provisioned IOPS

D. Add an RDS MySQL read replica in each availability zone

Answer: A,C

Question No: 14 - (Topic 1)

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You are looking to migrate your Development (Dev) and Test environments to AWS. You

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have decided to use separate AWS accounts to host each environment. You plan to link

each accounts bill to a Master AWS account using Consolidated Billing. To make sure you

Keep within budget you would like to implement a way for administrators in the Master

account to have access to stop, delete and/or terminate resources in both the Dev and

Test accounts. Identify which option will allow you to achieve this goal.

A. Create IAM users in the Master account with full Admin permissions. Create

crossaccount roles in the Dev and Test accounts that grant the Master account access to

the resources in the account by inheriting permissions from the Master account.

B. Create IAM users and a cross-account role in the Master account that grants full

Admin permissions to the Dev and Test accounts.

C. Create IAM users in the Master account Create cross-account roles in the Dev and

Test accounts that have full Admin permissions and grant the Master account access.

D. Link the accounts using Consolidated Billing. This will give IAM users in the Master

account access to resources in the Dev and Test accounts

Answer: A

Question No: 15 - (Topic 1)

You are implementing a URL whitelisting system for a company that wants to restrict

outbound HTTP'S connections to specific domains from their EC2-hosted applications you

deploy a single EC2 instance running proxy software and configure It to accept traffic from

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all subnets and EC2 instances in the VPC. You configure the proxy to only pass through traffic to domains that you define in its whitelist configuration You have a nightly maintenance window or 10 minutes where ail instances fetch new software updates. Each update Is about 200MB In size and there are 500 instances In the VPC that routinely fetch updates After a few days you notice that some machines are failing to successfully download some, but not all of their updates within the maintenance window. The download URLs used for these updates are correctly listed in the proxy's whitelist configuration and you are able to access them manually using a web browser on the instances. What might be happening? (Choose 2 answers)

A. You are running the proxy on an undersized EC2 instance type so network throughput is not sufficient for all instances to download their updates in time.

B. You have not allocated enough storage to the EC2 instance running me proxy so the network buffer is filling up. causing some requests to fall

C. You are running the proxy in a public subnet but have not allocated enough EIPs lo support the needed network throughput through the Internet Gateway (IGW)

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D. You are running the proxy on a affilelently-sized EC2 instance in a private subnet and its network throughput is being throttled by a NAT running on an undersized EO£

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instance E. The route table for the subnets containing the affected EC2 instances is not configured to direct network traffic for the software update locations to the proxy.

Answer: B,C

Question No : 16 - (Topic 1)

Your company currently has a 2-tier web application running in an on-premises data center. You have experienced several infrastructure failures in the past two months resulting in significant financial losses. Your CIO is strongly agreeing to move the application to AWS. While working on achieving buy-in from the other company executives, he asks you to develop a disaster recovery plan to help improve Business continuity in the short term. He specifies a target Recovery Time Objective (RTO) of 4 hours and a Recovery Point Objective (RPO) of 1 hour or less. He also asks you to implement the solution within 2 weeks. Your database is 200GB in size and you have a 20Mbps Internet connection. How would you do this while minimizing costs?

A. Create an EBS backed private AMI which includes a fresh install or your application. Setup a script in your data center to backup the local database every 1 hour and to encrypt and copy the resulting file to an S3 bucket using multi-part upload.

B. Install your application on a compute-optimized EC2 instance capable of supporting the application's average load synchronously replicate transactions from your on-premises database to a database instance in AWS across a secure Direct Connect connection.

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C. Deploy your application on EC2 instances within an Auto Scaling group across multiple

availability zones asynchronously replicate transactions from your on-premises

database to a database instance in AWS across a secure VPN connection.

D. Create an EBS backed private AMI that includes a fresh install of your application.

Develop a Cloud Formation template which includes your Mil and the required EC2. Auto-

Scaling and ELB resources to support deploying the application across Multiple-Ability

Zones. Asynchronously replicate transactions from your on-premises database to a

database instance in AWS across a secure VPN connection.

Answer: A

Question No: 17 - (Topic 1)

You currently operate a web application In the AWS US-East region The application runs

on an auto-scaled layer of EC2 instances and an RDS Multi-AZ database Your IT security

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compliance officer has tasked you to develop a reliable and durable logging solution to

track changes made to your EC2.IAM And RDS resources. The solution must ensure the

integrity and confidentiality of your log data. Which of these solutions would you

recommend?

A. Create a new CloudTrail trail with one new S3 bucket to store the logs and with the

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global services option selected Use IAM roles S3 bucket policies and Multi Factor

Authentication (MFA) Delete on the S3 bucket that stores your logs.

B. Create a new CloudTrail with one new S3 bucket to store the logs Configure SNS to

send log file delivery notifications to your management system Use IAM roles and S3

bucket policies on the S3 bucket mat stores your logs.

C. Create a new CloudTrail trail with an existing S3 bucket to store the logs and with

the global services option selected Use S3 ACLs and Multi Factor Authentication (MFA)

Delete on the S3 bucket that stores your logs.

D. Create three new CloudTrail trails with three new S3 buckets to store the logs one

for the AWS Management console, one for AWS SDKs and one for command line tools

Use

IAM roles and S3 bucket policies on the S3 buckets that store your logs.

Answer: A

Question No: 18 - (Topic 1)

A large real-estate brokerage is exploring the option o(adding a cost-effective location

based alert to their existing mobile application The application backend infrastructure

currently runs on AWS Users who opt in to this service will receive alerts on their mobile

device regarding real-estate otters in proximity to their location. For the alerts to be relevant

delivery time needs to be in the low minute count the existing mobile app has 5 million

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users across the us Which one of the following architectural suggestions would you make to the customer?

A. The mobile application will submit its location to a web service endpoint utilizing Elastic Load Balancing and EC2 instances: DynamoDB will be used to store and retrieve relevant otters EC2 instances will communicate with mobile earners/device providers to push alerts back to mobile application.

B. Use AWS DirectConnect or VPN to establish connectivity with mobile carriers EC2 instances will receive the mobile applications 'location through carrier connection: ROS will be used to store and relevant relevant offers EC2 instances will communicate with mobile carriers to push alerts back to the mobile application

C. The mobile application will send device location using SQS. EC2 instances will retrieve the relevant others from DynamoDB AWS Mobile Push will be used to send offers to the mobile application

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D. The mobile application will send device location using AWS Mobile Push EC2 instances will retrieve the relevant offers from DynamoDB EC2 instances will communicate with mobile carriers/device providers to push alerts back to the mobile application.

Answer: A

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Question No: 19 - (Topic 1)

Your system recently experienced down time during the troubleshooting process. You

found that a new administrator mistakenly terminated several production EC2 instances.

Which of the following strategies will help prevent a similar situation in the future?

The administrator still must be able to:

- launch, start stop, and terminate development resources.

- launch and start production instances.

A. Create an IAM user, which is not allowed to terminate instances by leveraging

production EC2 termination protection.

B. Leverage resource based tagging along with an IAM user, which can prevent

specific users from terminating production EC2 resources.

C. Leverage EC2 termination protection and multi-factor authentication, which together

require users to authenticate before terminating EC2 instances

D. Create an IAM user and apply an IAM role which prevents users from terminating

production EC2 instances.

Answer: D

Question No: 20 - (Topic 1)

Your company has recently extended its datacenter into a VPC on AVVS to add burst

computing capacity as needed Members of your Network Operations Center need to be

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able to go to the AWS Management Console and administer Amazon EC2 instances as

necessary You don't want to create new IAM users for each NOC member and make those

users sign in again to the AWS Management Console Which option below will meet the

needs for your NOC members?

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A. Use OAuth 2 0 to retrieve temporary AWS security credentials to enable your NOC

members to sign in to the AVVS Management Console.

B. Use web Identity Federation to retrieve AWS temporary security credentials to

enable your NOC members to sign in to the AWS Management Console.

C. Use your on-premises SAML 2 O-compliant identity provider (IDP) to grant the NOC

members federated access to the AWS Management Console via the AWS single sign-on

(SSO) endpoint.

D. Use your on-premises SAML2.0-compliam identity provider (IDP) to retrieve

temporary security credentials to enable NOC members to sign in to the AWS

Management Console.

Answer: D

Question No : 21 - (Topic 1)

You are running a news website in the eu-west-1 region that updates every 15 minutes.

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The website has a world-wide audience it uses an Auto Scaling group behind an Elastic Load Balancer and an Amazon RDS database Static content resides on Amazon S3, and is distributed through Amazon CloudFront. Your Auto Scaling group is set to trigger a scale up event at 60% CPU utilization, you use an Amazon RDS extra large DB instance with 10.000 Provisioned IOPS its CPU utilization is around 80%. While freeable memory is in the 2 GB range.

Web analytics reports show that the average load time of your web pages is around 1 5 to 2 seconds, but your SEO consultant wants to bring down the average load time to under 0.5 seconds.

How would you improve page load times for your users? (Choose 3 answers)

A. Lower the scale up trigger of your Auto Scaling group to 30% so it scales more aggressively.

B. Add an Amazon ElastiCache caching layer to your application for storing sessions and frequent DB queries

C. Configure Amazon CloudFront dynamic content support to enable caching of re-usable content from your site

D. Switch Amazon RDS database to the high memory extra large Instance type

E. Set up a second installation in another region, and use the Amazon Route 53 latencybased routing feature to select the right region.

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Answer: A,B,D

Question No: 22 - (Topic 1)

You require the ability to analyze a customer's clickstream data on a website so they can

do behavioral analysis. Your customer needs to know what sequence of pages and ads

their customer clicked on. This data will be used in real time to modify the page layouts as

customers click through the site to increase stickiness and advertising click-through. Which

option meets the requirements for captioning and analyzing this data?

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A. Log clicks in weblogs by URL store to Amazon S3, and then analyze with Elastic

MapReduce

B. Push web clicks by session to Amazon Kinesis and analyze behavior using Kinesis

workers

C. Write click events directly to Amazon Redshift and then analyze with SQL

D. Publish web clicks by session to an Amazon SQS queue men periodically drain these

events to Amazon RDS and analyze with sol

Answer: B

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Question No: 23 - (Topic 1)

Refer to the architecture diagram above of a batch processing solution using Simple

Queue Service (SOS) to set up a message queue between EC2 instances which are used

as batch processors Cloud Watch monitors the number of Job requests (queued

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messages) and an Auto Scaling group adds or deletes batch servers automatically based

on parameters set in Cloud Watch alarms. You can use this architecture to implement

which of the following features in a cost effective and efficient manner?

A. Reduce the overall lime for executing jobs through parallel processing by allowing a

busy EC2 instance that receives a message to pass it to the next instance in a daisy-chain

setup.

B. Implement fault tolerance against EC2 instance failure since messages would

remain in SQS and worn can continue with recovery of EC2 instances implement fault

tolerance against SQS failure by backing up messages to S3.

C. Implement message passing between EC2 instances within a batch by exchanging

messages through SOS.

D. Coordinate number of EC2 instances with number of job requests automatically thus

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Improving cost effectiveness.

E. Handle high priority jobs before lower priority jobs by assigning a priority metadata

field to SQS messages.

Answer: B

Question No: 24 - (Topic 1)

You are designing an intrusion detection prevention (IDS/IPS) solution for a customer web

application in a single VPC. You are considering the options for implementing IOS IPS

protection for traffic coming from the Internet.

Which of the following options would you consider? (Choose 2 answers)

A. Implement IDS/IPS agents on each Instance running In VPC

B. Configure an instance in each subnet to switch its network interface card to

promiscuous mode and analyze network traffic.

C. Implement Elastic Load Balancing with SSL listeners In front of the web applications D.

Implement a reverse proxy layer in front of web servers and configure IDS/IPS agents

on each reverse proxy server.

Answer: C,D

Question No: 25 - (Topic 1)

You are designing a multi-platform web application for AWS The application will run on

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EC2 instances and will be accessed from PCs. tablets and smart phones Supported

accessing platforms are Windows. MACOS. IOS and Android Separate sticky session and

SSL certificate setups are required for different platform types which of the following

describes the most cost effective and performance efficient architecture setup?

A. Setup a hybrid architecture to handle session state and SSL certificates on-prem

and separate EC2 Instance groups running web applications for different platform types

running in a VPC.

B. Set up one ELB for all platforms to distribute load among multiple instance under it

Each EC2 instance implements ail functionality for a particular platform.

C. Set up two ELBs The first ELB handles SSL certificates for all platforms and the

second ELB handles session stickiness for all platforms for each ELB run separate EC2

instance groups to handle the web application for each platform.

D. Assign multiple ELBS to an EC2 instance or group of EC2 instances running the

common components of the web application, one ELB for each platform type Session

stickiness and SSL termination are done at the ELBs.

Answer: D

Question No: 26 - (Topic 1)

A 3-tier e-commerce web application is current deployed on-premises and will be migrated

to AWS for greater scalability and elasticity The web server currently shares read-only data

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using a network distributed file system The app server tier uses a clustering mechanism for discovery and shared session state that depends on IP multicast The database tier uses shared-storage clustering to provide database fall over capability, and uses several read slaves for scaling Data on all servers and the distributed file system directory is backed up weekly to off-site tapes

Which AWS storage and database architecture meets the requirements of the application?

A. Web servers, store read-only data in S3, and copy from S3 to root volume at boot time

App servers snare state using a combination or DynamoDB and IP unicast Database use

RDS with multi-AZ deployment and one or more Read Replicas Backup web and app

servers backed up weekly via Mils database backed up via DB snapshots.

B. Web servers store -read-only data in S3, and copy from S3 to root volume at boot time App servers share state using a combination of DynamoDB and IP unicast Database, use RDS with multi-AZ deployment and one or more read replicas Backup web servers app servers, and database backed up weekly to Glacier using snapshots.

C. Web servers store read-only data In S3 and copy from S3 to root volume at boot time

App servers share state using a combination of DynamoDB and IP unicast Database

use

RDS with multi-AZ deployment Backup web and app servers backed up weekly via AM is.

Database backed up via DB snapshots

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D. Web servers, store read-only data in an EC2 NFS server, mount to each web server at boot time App servers share state using a combination of DynamoDB and IP multicast Database use RDS with multi-AZ deployment and one or more Read Replicas Backup web and app servers backed up weekly via Mils database backed up via DB snapshots

Answer: B

Question No: 27 - (Topic 1)

You are designing a photo sharing mobile app the application will store all pictures in a single Amazon S3 bucket.

Users will upload pictures from their mobile device directly to Amazon S3 and will be able to view and download their own pictures directly from Amazon S3.

You want to configure security to handle potentially millions of users in the most secure manner possible. What should your server-side application do when a new user registers on the photo-sharing mobile application?

A. Create a set of long-term credentials using AWS Security Token Service with appropriate permissions Store these credentials in the mobile app and use them to access Amazon S3.

B. Record the user's Information in Amazon RDS and create a role in IAM with appropriate permissions. When the user uses their mobile app create temporary credentials using the AWS Security Token Service 'AssumeRole' function Store these

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credentials in the mobile app's memory and use them to access Amazon S3 Generate new credentials the next time the user runs the mobile app.

C. Record the user's Information In Amazon DynamoDB. When the user uses their mobile app create temporary credentials using AWS Security Token Service with appropriate permissions Store these credentials in the mobile app's memory and use them to access Amazon S3 Generate new credentials the next time the user runs the mobile app.

D. Create IAM user. Assign appropriate permissions to the IAM user Generate an access key and secret key for the IAM user, store them in the mobile app and use these credentials to access Amazon S3.

1

E. Create an IAM user. Update the bucket policy with appropriate permissions for the IAM user Generate an access Key and secret Key for the IAM user, store them In the mobile app and use these credentials to access Amazon S3.

Answer: B

Question No: 28 - (Topic 1)

You are designing an SSUTLS solution that requires HTTPS clients to be authenticated by the Web server using client certificate authentication. The solution must be resilient.

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Which of the following options would you consider for configuring the web server

infrastructure? (Choose 2 answers)

A. Configure ELB with TCP listeners on TCP/4d3. And place the Web servers behind it.

B. Configure your Web servers with EIPS Place the Web servers in a Route53 Record Set

and configure health checks against all Web servers.

C. Configure ELB with HTTPS listeners, and place the Web servers behind it.

D. Configure your web servers as the origins for a CloudFront distribution. Use custom

SSL certificates on your CloudFront distribution.

Answer: A,B

Question No: 29 - (Topic 1)

An administrator is using Amazon CloudFormation to deploy a three tier web application

that consists of a web tier and application tier that will utilize Amazon DynamoDB for

storage when creating the CloudFormation template which of the following would allow the

application instance access to the DynamoDB tables without exposing API credentials?

A. Create an Identity and Access Management Role that has the required permissions

to read and write from the required DynamoDB table and associate the Role to the

application instances by referencing an instance profile.

B. Use me Parameter section in the Cloud Formation template to nave the user input

Access and Secret Keys from an already created IAM user that has me permissions

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required to read and write from the required DynamoDB table.

2

C. Create an Identity and Access Management Role that has the required permissions

to read and write from the required DynamoDB table and reference the Role in the

instance profile property of the application instance.

D. Create an identity and Access Management user in the CloudFormation template

that has permissions to read and write from the required DynamoDB table, use the GetAtt

function to retrieve the Access and secret keys and pass them to the application instance

through user-data.

Answer: C

Question No: 30 - (Topic 1)

Your department creates regular analytics reports from your company's log files All log data

is collected in Amazon S3 and processed by daily Amazon Elastic MapReduce (EMR) jobs

that generate daily PDF reports and aggregated tables in CSV format for an Amazon

Redshift data warehouse.

Your CFO requests that you optimize the cost structure for this system.

Which of the following alternatives will lower costs without compromising average

performance of the system or data integrity for the raw data?

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A. Use reduced redundancy storage (RRS) for PDF and csv data in Amazon S3. Add

Spot instances to Amazon EMR jobs Use Reserved Instances for Amazon Redshift.

B. Use reduced redundancy storage (RRS) for all data in S3. Use a combination of

Spot instances and Reserved Instances for Amazon EMR jobs use Reserved instances for

Amazon Redshift.

C. Use reduced redundancy storage (RRS) for all data in Amazon S3 Add Spot

Instances to Amazon EMR jobs Use Reserved Instances for Amazon Redshitf.

D. Use reduced redundancy storage (RRS) for PDF and csv data in S3 Add Spot

Instances to EMR jobs Use Spot Instances for Amazon Redshift.

Answer: B

Question No: 31 - (Topic 1)

3

Your website is serving on-demand training videos to your workforce. Videos are uploaded

monthly in high resolution MP4 format. Your workforce is distributed globally often on the

move and using company-provided tablets that require the HTTP Live Streaming (HLS)

protocol to watch a video. Your company has no video transcoding expertise and it

required you may need to pay for a consultant.

How do you implement the most cost-efficient architecture without compromising high

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availability and quality of video delivery'?

A. Elastic Transcoder to transcode original high-resolution MP4 videos to HLS S3 to

host videos with Utecycle Management to archive original flies to Glacier after a few days

CloudFront to serve HLS transcoded videos from S3

B. A video transcoding pipeline running on EC2 using SQS to distribute tasks and Auto

Scaling to adjust the number or nodes depending on the length of the queue S3 to host

videos with Lifecycle Management to archive all files to Glacier after a few days CloudFront

to serve HLS transcoding videos from Glacier

C. Elastic Transcoder to transcode original nigh-resolution MP4 videos to HLS EBS

volumes to host videos and EBS snapshots to incrementally backup original rues after a

few days CloudFront to serve HLS transcoded videos from EC2.

D. A video transcoding pipeline running on EC2 using SOS to distribute tasks and Auto

Scaling to adjust the number of nodes depending on the length of the queue E8S volumes

to host videos and EBS snapshots to incrementally backup original files after a few days

CloudFront to serve HLS transcoded videos from EC2

Answer: D

Question No: 32 - (Topic 1)

You are migrating a legacy client-server application to AWS The application responds to a

specific DNS domain (e g www example com) and has a 2-tier architecture, with multiple

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application servers and a database server Remote clients use TCP to connect to the application servers. The application servers need to know the IP address of the clients in order to function properly and are currently taking that information from the TCP socket A Multi-AZ RDS MySQL instance will be used for the database.

During the migration you can change the application code but you have to file a change request.

How would you implement the architecture on AWS In order to maximize scalability and high ability?

4

A. File a change request to implement Proxy Protocol support In the application Use an EL8 with a TCP Listener and Proxy Protocol enabled to distribute load on two application servers in different AZs.

B. File a change request to Implement Cross-Zone support in the application Use an EL8 with a TCP Listener and Cross-Zone Load Balancing enabled, two application servers in different AZs.

C. File a change request to implement Latency Based Routing support in the application

Use Route 53 with Latency Based Routing enabled to distribute load on two application servers in different AZs.

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D. File a change request to implement Alias Resource support in the application Use Route

53 Alias Resource Record to distribute load on two application servers in different AZs.

Answer: D

Question No: 33 - (Topic 1)

A web company is looking to implement an intrusion detection and prevention system into

their deployed VPC. This platform should have the ability to scale to thousands of

instances running inside of the VPC.

How should they architect their solution to achieve these goals?

A. Configure an instance with monitoring software and the elastic network interface

(ENI) set to promiscuous mode packet sniffing to see an traffic across the VPC.

B. Create a second VPC and route all traffic from the primary application VPC through

the second VPC where the scalable virtualized IDS/IPS platform resides.

C. Configure servers running in the VPC using the host-based 'route' commands to

send all traffic through the platform to a scalable virtualized IDS/IPS.

D. Configure each host with an agent that collects all network traffic and sends that

traffic to the IDS/IPS platform for inspection.

Answer: C

Question No: 34 - (Topic 1)

Your customer wishes to deploy an enterprise application to AWS which will consist of

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several web servers, several application servers and a small (50GB) Oracle database

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information is stored, both in the database and the file systems of the various servers. The backup system must support database recovery whole server and whole disk restores, and individual file restores with a recovery time of no more than two hours. They have chosen to use RDS Oracle as the database

Which backup architecture will meet these requirements?

A. Backup RDS using automated daily DB backups Backup the EC2 instances using AMIs and supplement with file-level backup to S3 using traditional enterprise backup software to provide file level restore

B. Backup RDS using a Multi-AZ Deployment Backup the EC2 instances using Amis, and supplement by copying file system data to S3 to provide file level restore.

C. Backup RDS using automated daily DB backups Backup the EC2 instances using EBS snapshots and supplement with file-level backups to Amazon Glacier using traditional enterprise backup software to provide file level restore

D. Backup RDS database to S3 using Oracle RMAN Backup the EC2 instances using Amis, and supplement with EBS snapshots for individual volume restore.

Answer: C

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Reference: http://www.boyter.org/wp-content/uploads/2014/12/Backup-And-Recovery-

Approaches-Using-Aws.pdf

Question No: 35 - (Topic 1)

You are tasked with moving a legacy application from a virtual machine running Inside your

datacenter to an Amazon VPC Unfortunately this app requires access to a number of

onpremises services and no one who configured the app still works for your company.

Even worse there's no documentation for it. What will allow the application running inside

the VPC to reach back and access its internal dependencies without being reconfigured?

(Choose 3 answers)

A. An AWS Direct Connect link between the VPC and the network housing the internal

services.

B. An Internet Gateway to allow a VPN connection.

C. An Elastic IP address on the VPC instance

D. An IP address space that does not conflict with the one on-premises

E. Entries in Amazon Route 53 that allow the Instance to resolve its dependencies' IP

addresses

F. A VM Import of the current virtual machine

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Answer: A,C,F

Question No: 36 - (Topic 1)

An International company has deployed a multi-tier web application that relies on

DynamoDB in a single region For regulatory reasons they need disaster recovery capability

In a separate region with a Recovery Time Objective of 2 hours and a Recovery Point

Objective of 24 hours They should synchronize their data on a regular basis and be able to

provision me web application rapidly using CloudFormation.

The objective is to minimize changes to the existing web application, control the throughput

of DynamoDB used for the synchronization of data and synchronize only the modified

elements.

Which design would you choose to meet these requirements?

A. Use AWS data Pipeline to schedule a DynamoDB cross region copy once a day.

create a Lastupdated' attribute in your DynamoDB table that would represent the

timestamp of the last update and use it as a filter.

B. Use EMR and write a custom script to retrieve data from DynamoDB in the current

region using a SCAN operation and push it to QynamoDB in the second region.

C. Use AWS data Pipeline to schedule an export of the DynamoDB table to S3 in the

current region once a day then schedule another task immediately after it that will import

data from S3 to DynamoDB in the other region.

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D. Send also each Ante into an SQS queue in me second region; use an auto-scaiing

group behind the SQS queue to replay the write in the second region.

Answer: C

Question No: 37 - (Topic 1)

Your company plans to host a large donation website on Amazon Web Services (AWS).

You anticipate a large and undetermined amount of traffic that will create many database

writes. To be certain that you do not drop any writes to a database hosted on AWS. Which

service should you use?

7

A. Amazon RDS with provisioned IOPS up to the anticipated peak write throughput.

B. Amazon Simple Queue Service (SOS) for capturing the writes and draining the queue to

write to the database.

C. Amazon ElastiCache to store the writes until the writes are committed to the database.

D. Amazon DynamoDB with provisioned write throughput up to the anticipated peak

write throughput.

Answer: A

Question No: 38 - (Topic 1)

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A benefits enrollment company is hosting a 3-tier web application running in a VPC on

AWS which includes a NAT (Network Address Translation) instance in the public Web tier.

There is enough provisioned capacity for the expected workload tor the new fiscal year

benefit enrollment period plus some extra overhead Enrollment proceeds nicely for two

days and then the web tier becomes unresponsive, upon investigation using CloudWatch

and other monitoring tools it is discovered that there is an extremely large and

unanticipated amount of inbound traffic coming from a set of 15 specific IP addresses over

port 80 from a country where the benefits company has no customers. The web tier

instances are so overloaded that benefit enrollment administrators cannot even SSH into

them. Which activity would be useful in defending against this attack?

A. Create a custom route table associated with the web tier and block the attacking IP

addresses from the IGW (internet Gateway)

B. Change the EIP (Elastic IP Address) of the NAT instance in the web tier subnet and

update the Main Route Table with the new EIP

C. Create 15 Security Group rules to block the attacking IP addresses over port 80 D.

Create an inbound NACL (Network Access control list) associated with the web tier subnet

with deny rules to block the attacking IP addresses

Answer: A

Question No: 39 - (Topic 1)

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You are designing Internet connectivity for your VPC. The Web servers must be available

on the Internet. The application must have a highly available architecture.

Which alternatives should you consider? (Choose 2 answers)

A. Configure a NAT instance in your VPC Create a default route via the NAT instance and

associate it with all subnets Configure a DNS A record that points to the NAT instance

public IP address.

B. Configure a CloudFront distribution and configure the origin to point to the private IP

addresses of your Web servers Configure a Route53 CNAME record to your CloudFront

distribution.

C. Place all your web servers behind EL8 Configure a Route53 CNMIE to point to the ELB

DNS name.

D. Assign BPs to all web servers. Configure a Route53 record set with all EIPs. With health

checks and DNS failover.

E. Configure ELB with an EIP Place all your Web servers behind ELB Configure a Route53

A record that points to the EIP.

Answer: B,C

Question No: 40 - (Topic 1)

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You require the ability to analyze a large amount of data, which is stored on Amazon S3 using Amazon Elastic Map Reduce. You are using the cc2 8x large Instance type, whose CPUs are mostly idle during processing. Which of the below would be the most cost efficient way to reduce the runtime of the job?

- A. Create more smaller flies on Amazon S3.
- B. Add additional cc2 8x large instances by introducing a task group.
- C. Use smaller instances that have higher aggregate I/O performance.
- D. Create fewer, larger files on Amazon S3.

Answer: C

Question No: 41 - (Topic 1)

You are designing a connectivity solution between on-premises infrastructure and Amazon

9

VPC Your server's on-premises will De communicating with your VPC instances You will De establishing IPSec tunnels over the internet You will be using VPN gateways and terminating the IPsec tunnels on AWS-supported customer gateways.

Which of the following objectives would you achieve by implementing an IPSec tunnel as outlined above? (Choose 4 answers)

A. End-to-end protection of data in transit

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B. End-to-end Identity authentication

C. Data encryption across the Internet

D. Protection of data in transit over the Internet

E. Peer identity authentication between VPN gateway and customer gateway

F. Data integrity protection across the Internet

Answer: C,D,E,F

Question No: 42 - (Topic 1)

Your company policies require encryption of sensitive data at rest. You are considering the

possible options for protecting data while storing it at rest on an EBS data volume, attached

to an EC2 instance. Which of these options would allow you to encrypt your data at rest?

(Choose 3 answers)

A. Implement third party volume encryption tools

B. Do nothing as EBS volumes are encrypted by default

C. Encrypt data inside your applications before storing it on EBS

D. Encrypt data using native data encryption drivers at the file system level

E. Implement SSL/TLS for all services running on the server

Answer: C,D,E

Question No: 43 - (Topic 1)

A company is running a batch analysis every hour on their main transactional DB. running

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on an RDS MySQL instance to populate their central Data Warehouse running on Redshift

During the execution of the batch their transactional applications are very slow When the

batch completes they need to update the top management dashboard with the new data

0

The dashboard is produced by another system running on-premises that is currently

started when a manually-sent email notifies that an update is required The on-premises

system cannot be modified because is managed by another team.

How would you optimize this scenario to solve performance issues and automate the

process as much as possible?

A. Replace RDS with Redshift for the batch analysis and SNS to notify the on-premises

system to update the dashboard

B. Replace ROS with Redsnift for the oaten analysis and SQS to send a message to

the on-premises system to update the dashboard

C. Create an RDS Read Replica for the batch analysis and SNS to notify me onpremises

system to update the dashboard

D. Create an RDS Read Replica for the batch analysis and SQS to send a message to

the on-premises system to update the dashboard.

Answer: D

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Question No: 44 - (Topic 1)

You are responsible for a legacy web application whose server environment is approaching end of life You would like to migrate this application to AWS as quickly as possible, since the application environment currently has the following limitations:

- → The VM's single 10GB VMDK is almost full
- Me virtual network interface still uses the 10Mbps driver, which leaves your 100Mbps WAN connection completely underutilized
- It is currently running on a highly customized. Windows VM within a VMware environment:
- >> You do not have me installation media

This is a mission critical application with an RTO (Recovery Time Objective) of 8 hours.

RPO (Recovery Point Objective) of 1 hour. How could you best migrate this application to AWS while meeting your business continuity requirements?

A. Use the EC2 VM Import Connector for vCenter to import the VM into EC2.

1

- B. Use Import/Export to import the VM as an ESS snapshot and attach to EC2.
- C. Use S3 to create a backup of the VM and restore the data into EC2.
- D. Use me ec2-bundle-instance API to Import an Image of the VM into EC2

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Answer: A

Question No: 45 - (Topic 1)

Your startup wants to implement an order fulfillment process for selling a personalized

gadget that needs an average of 3-4 days to produce with some orders taking up to 6

months you expect 10 orders per day on your first day. 1000 orders per day after 6 months

and 10,000 orders after 12 months.

Orders coming in are checked for consistency men dispatched to your manufacturing plant

for production quality control packaging shipment and payment processing If the product

does not meet the quality standards at any stage of the process employees may force the

process to repeat a step Customers are notified via email about order status and any

critical issues with their orders such as payment failure.

Your case architecture includes AWS Elastic Beanstalk for your website with an RDS

MySQL instance for customer data and orders.

How can you implement the order fulfillment process while making sure that the emails are

delivered reliably?

A. Add a business process management application to your Elastic Beanstalk app servers

and re-use the ROS database for tracking order status use one of the Elastic Beanstalk

instances to send emails to customers.

B. Use SWF with an Auto Scaling group of activity workers and a decider instance in

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another Auto Scaling group with min/max=1 Use the decider instance to send emails to customers.

C. Use SWF with an Auto Scaling group of activity workers and a decider instance in another Auto Scaling group with min/max=1 use SES to send emails to customers.

D. Use an SQS queue to manage all process tasks Use an Auto Scaling group of EC2 Instances that poll the tasks and execute them. Use SES to send emails to customers.

Answer: C

2

Question No: 46 - (Topic 1)

You are the new IT architect in a company that operates a mobile sleep tracking application

When activated at night, the mobile app is sending collected data points of 1 kilobyte every 5 minutes to your backend

The backend takes care of authenticating the user and writing the data points into an Amazon DynamoDB table.

Every morning, you scan the table to extract and aggregate last night's data on a per user basis, and store the results in Amazon S3.

Users are notified via Amazon SMS mobile push notifications that new data is available,

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which is parsed and visualized by (The mobile app Currently you have around 100k users who are mostly based out of North America.

You have been tasked to optimize the architecture of the backend system to lower cost what would you recommend? (Choose 2 answers)

A. Create a new Amazon DynamoDB (able each day and drop the one for the previous day after its data is on Amazon S3.

B. Have the mobile app access Amazon DynamoDB directly instead of JSON files stored on Amazon S3.

C. Introduce an Amazon SQS queue to buffer writes to the Amazon DynamoDB table and reduce provisioned write throughput.

D. Introduce Amazon Elasticache lo cache reads from the Amazon DynamoDB table and reduce provisioned read throughput.

E. Write data directly into an Amazon Redshift cluster replacing both Amazon DynamoDB and Amazon S3.

Answer: B,D

Question No: 47 - (Topic 1)

Your firm has uploaded a large amount of aerial image data to S3 In the past, in your onpremises environment, you used a dedicated group of servers to oaten process this data

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and used Rabbit MQ - An open source messaging system to get job information to the

servers. Once processed the data would go to tape and be shipped offsite. Your manager

told you to stay with the current design, and leverage AWS archival storage and messaging

services to minimize cost. Which is correct?

A. Use SQS for passing job messages use Cloud Watch alarms to terminate EC2

worker instances when they become idle. Once data is processed, change the storage

class of the S3 objects to Reduced Redundancy Storage.

B. Setup Auto-Scaled workers triggered by queue depth that use spot instances to

process messages in SOS Once data is processed,

C. Change the storage class of the S3 objects to Reduced Redundancy Storage. Setup

Auto-Scaled workers triggered by queue depth that use spot instances to process

messages in SQS Once data is processed, change the storage class of the S3 objects to

Glacier.

D. Use SNS to pass job messages use Cloud Watch alarms to terminate spot worker

instances when they become idle. Once data is processed, change the storage class of the

S3 object to Glacier.

Answer: D

Question No: 48 - (Topic 1)

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Your company has HQ in Tokyo and branch offices all over the world and is using a logistics software with a multi-regional deployment on AWS in Japan, Europe and USA. The logistic software has a 3-tier architecture and currently uses MySQL 5.6 for data persistence. Each region has deployed its own database In the HQ region you run an hourly batch process reading data from every region to compute cross-regional reports that are sent by email to all offices this batch process must be completed as fast as possible to quickly optimize logistics how do you build the database architecture in order to meet the requirements'? A. For each regional deployment, use RDS MySQL with a master in the region and a read replica in the HQ region

B. For each regional deployment, use MySQL on EC2 with a master in the region and send hourly EBS snapshots to the HQ region

C. For each regional deployment, use RDS MySQL with a master in the region and send hourly RDS snapshots to the HQ region

D. For each regional deployment, use MySQL on EC2 with a master in the region and use S3 to copy data files hourly to the HQ region

E. Use Direct Connect to connect all regional MySQL deployments to the HQ region and

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reduce network latency for the batch process

Answer: A

Question No: 49 - (Topic 1)

An enterprise wants to use a third-party SaaS application. The SaaS application needs to

have access to issue several API commands to discover Amazon EC2 resources running

within the enterprise's account The enterprise has internal security policies that require any

outside access to their environment must conform to the principles of least privilege and

there must be controls in place to ensure that the credentials used by the SaaS vendor

cannot be used by any other third party. Which of the following would meet all of these

conditions?

A. From the AWS Management Console, navigate to the Security Credentials page

and retrieve the access and secret key for your account.

B. Create an IAM user within the enterprise account assign a user policy to the IAM

user that allows only the actions required by the SaaS application create a new access and

secret key for the user and provide these credentials to the SaaS provider.

C. Create an IAM role for cross-account access allows the SaaS provider's account to

assume the role and assign it a policy that allows only the actions required by the SaaS

application.

D. Create an IAM role for EC2 instances, assign it a policy mat allows only the actions

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required tor the Saas application to work, provide the role ARM to the SaaS provider to use

when launching their application instances.

Answer: D

Question No : 50 - (Topic 1)

A web company is looking to implement an external payment service into their highly

available application deployed in a VPC Their application EC2 instances are behind a

public lacing ELB Auto scaling is used to add additional instances as traffic increases

under normal load the application runs 2 instances in the Auto Scaling group but at peak it

can scale 3x in size. The application instances need to communicate with the payment

service over the Internet which requires whitelisting of all public IP addresses used to

communicate with it. A maximum of 4 whitelisting IP addresses are allowed at a time and

can be added through an API.

5

How should they architect their solution?

A. Route payment requests through two NAT instances setup for High Availability and

whitelist the Elastic IP addresses attached to the MAT instances.

B. Whitelist the VPC Internet Gateway Public IP and route payment requests through

the Internet Gateway.

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C. Whitelist the ELB IP addresses and route payment requests from the Application

servers through the ELB.

D. Automatically assign public IP addresses to the application instances in the Auto

Scaling group and run a script on boot that adds each instances public IP address to the

payment validation whitelist API.

Answer: B

Question No: 51 - (Topic 1)

You have a periodic Image analysis application that gets some files In Input analyzes them

and tor each file writes some data in output to a ten file the number of files in input per day

is high and concentrated in a few hours of the day.

Currently you have a server on EC2 with a large EBS volume that hosts the input data and

the results it takes almost 20 hours per day to complete the process

What services could be used to reduce the elaboration time and improve the availability of

the solution?

A. S3 to store I/O files. SQS to distribute elaboration commands to a group of hosts

working in parallel. Auto scaling to dynamically size the group of hosts depending on the

length of the SQS queue

B. EBS with Provisioned IOPS (PIOPS) to store I/O files. SNS to distribute elaboration

commands to a group of hosts working in parallel Auto Scaling to dynamically size the

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group of hosts depending on the number of SNS notifications

C. S3 to store I/O files, SNS to distribute evaporation commands to a group of hosts

working in parallel. Auto scaling to dynamically size the group of hosts depending on the

number of SNS notifications

D. EBS with Provisioned IOPS (PIOPS) to store I/O files SOS to distribute elaboration

commands to a group of hosts working in parallel Auto Scaling to dynamically size the

group ot hosts depending on the length of the SQS queue.

6

Answer: C

Question No: 52 - (Topic 1)

You are running a successful multitier web application on AWS and your marketing

department has asked you to add a reporting tier to the application. The reporting tier will

aggregate and publish status reports every 30 minutes from user-generated information

that is being stored in your web application s database. You are currently running a MultiAZ

RDS MySQL instance for the database tier. You also have implemented Elasticache as a

database caching layer between the application tier and database tier. Please select the

answer that will allow you to successfully implement the reporting tier with as little impact

as possible to your database.

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A. Continually send transaction logs from your master database to an S3 bucket and

generate the reports off the S3 bucket using S3 byte range requests.

B. Generate the reports by querying the synchronously replicated standby RDS MySQL

instance maintained through Multi-AZ.

C. Launch a RDS Read Replica connected to your Multi AZ master database and generate

reports by querying the Read Replica.

D. Generate the reports by querying the ElastiCache database caching tier.

Answer: A

Question No: 53 - (Topic 1)

You are implementing AWS Direct Connect. You intend to use AWS public service end

points such as Amazon S3, across the AWS Direct Connect link. You want other Internet

traffic to use your existing link to an Internet Service Provider.

What is the correct way to configure AWS Direct connect for access to services such as

Amazon S3?

A. Configure a public Interface on your AWS Direct Connect link Configure a static

route via your AWS Direct Connect link that points to Amazon S3 Advertise a default route

to AWS using BGP.

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B. Create a private interface on your AWS Direct Connect link. Configure a static route

via your AWS Direct connect link that points to Amazon S3 Configure specific routes to

your network in your VPC.

C. Create a public interface on your AWS Direct Connect link Redistribute BGP routes

into your existing routing infrastructure advertise specific routes for your network to AWS.

D. Create a private interface on your AWS Direct connect link. Redistribute BGP routes

into your existing routing infrastructure and advertise a default route to AWS.

Answer: C

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Question No: 54 - (Topic 1)

A company is building a voting system for a popular TV show, viewers win watch the

performances then visit the show's website to vote for their favorite performer. It is

expected that in a short period of time after the show has finished the site will receive

millions of visitors. The visitors will first login to the site using their Amazon.com credentials

and then submit their vote. After the voting is completed the page will display the vote

totals. The company needs to build the site such that can handle the rapid influx of traffic

while maintaining good performance but also wants to keep costs to a minimum. Which of

the design patterns below should they use?

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A. Use CloudFront and an Elastic Load balancer in front of an auto-scaled set of web

servers, the web servers will first can the Login With Amazon service to authenticate the

user then process the users vote and store the result into a multi-AZ Relational Database

Service instance.

B. Use CloudFront and the static website hosting feature of S3 with the Javascript SDK

to call the Login With Amazon service to authenticate the user, use IAM Roles to gain

permissions to a DynamoDB table to store the users vote.

C. Use CloudFront and an Elastic Load Balancer in front of an auto-scaled set of web

servers, the web servers will first call the Login with Amazon service to authenticate the

user, the web servers will process the users vote and store the result into a DynamoDB

table using IAM Roles for EC2 instances to gain permissions to the DynamoDB table. D.

Use CloudFront and an Elastic Load Balancer in front of an auto-scaled set of web servers,

the web servers will first call the Login. With Amazon service to authenticate the user, the

web servers win process the users vote and store the result into an SQS queue using IAM

Roles for EC2 Instances to gain permissions to the SQS queue. A set of application

servers will then retrieve the items from the queue and store the result into a

DynamoDB table.

Answer: D

Question No: 55 - (Topic 1)

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A customer has established an AWS Direct Connect connection to AWS. The link is up and routes are being advertised from the customer's end, however the customer is unable to connect from EC2 instances inside its VPC to servers residing in its datacenter. Which of the following options provide a viable solution to remedy this situation? (Choose 2 answers)

9

- A. Add a route to the route table with an iPsec VPN connection as the target.
- B. Enable route propagation to the virtual pinnate gateway (VGW).
- C. Enable route propagation to the customer gateway (CGW).
- D. Modify the route table of all Instances using the 'route' command.
- E. Modify the Instances VPC subnet route table by adding a route back to the customer's on-premises environment.

Answer: A,C

Question No : 56 - (Topic 1)

A newspaper organization has a on-premises application which allows the public to search its back catalogue and retrieve individual newspaper pages via a website written in Java They have scanned the old newspapers into JPEGs (approx 17TB) and used Optical Character Recognition (OCR) to populate a commercial search product. The hosting

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platform and software are now end of life and the organization wants to migrate Its archive

to AWS and produce a cost efficient architecture and still be designed for availability and

durability Which is the most appropriate?

A. Use S3 with reduced redundancy lo store and serve the scanned files, install the

commercial search application on EC2 Instances and configure with auto-scaling and an

Elastic Load Balancer.

B. Model the environment using CloudFormation use an EC2 instance running Apache

webserver and an open source search application, stripe multiple standard EBS

volumes together to store the JPEGs and search index.

C. Use S3 with standard redundancy to store and serve the scanned files, use

CloudSearch for query processing, and use Elastic Beanstalk to host the website across

multiple availability zones.

D. Use a single-AZ RDS MySQL instance lo store the search index 33d the JPEG images

use an EC2 instance to serve the website and translate user queries into SQL.

E. Use a CloudFront download distribution to serve the JPEGs to the end users and Install

the current commercial search product, along with a Java Container Tor the website on

EC2 instances and use Route53 with DNS round-robin.

Answer: B

Question No: 57 - (Topic 1)

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0

You have launched an EC2 instance with four (4) 500 GB EBS Provisioned IOPS volumes attached The EC2 Instance Is EBS-Optimized and supports 500 Mbps throughput between EC2 and EBS The two EBS volumes are configured as a single RAID o device, and each Provisioned IOPS volume is provisioned with 4.000 IOPS (4 000 16KB reads or writes) for a total of 16.000 random IOPS on the instance The EC2 Instance initially delivers the expected 16 000 IOPS random read and write performance Sometime later in order to increase the total random I/O performance of the instance, you add an additional two 500 GB EBS Provisioned IOPS volumes to the RAID Each volume Is provisioned to 4.000 IOPs like the original four for a total of 24.000 IOPS on the EC2 instance Monitoring shows that the EC2 instance CPU utilization increased from 50% to 70%. but the total random IOPS measured at the instance level does not increase at all.

What is the problem and a valid solution?

A. Larger storage volumes support higher Provisioned IOPS rates: increase the provisioned volume storage of each of the 6 EBS volumes to 1TB.

B. The EBS-Optimized throughput limits the total IOPS that can be utilized use an EBSOptimized instance that provides larger throughput.

C. Small block sizes cause performance degradation, limiting the I'O throughput,

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configure the instance device driver and file system to use 64KB blocks to increase

throughput. D. RAID 0 only scales linearly to about 4 devices, use RAID 0 with 4 EBS

Provisioned IOPS volumes but increase each Provisioned IOPS EBS volume to 6.000

IOPS.

E. The standard EBS instance root volume limits the total IOPS rate, change the instant

root volume to also be a 500GB 4.000 Provisioned IOPS volume.

Answer: E

Question No: 58 - (Topic 1)

Your company has an on-premises multi-tier PHP web application, which recently

experienced downtime due to a large burst In web traffic due to a company announcement

Over the coming days, you are expecting similar announcements to drive similar

unpredictable bursts, and are looking to find ways to quickly improve your infrastructures

ability to handle unexpected increases in traffic.

The application currently consists of 2 tiers a web tier which consists of a load balancer

and several Linux Apache web servers as well as a database tier which hosts a Linux

server hosting a MySQL database.

1

Which scenario below will provide full site functionality, while helping to improve the ability

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of your application in the short timeframe required?

A. Offload traffic from on-premises environment Setup a CloudFront distribution and

configure CloudFront to cache objects from a custom origin Choose to customize your

object cache behavior, and select a TTL that objects should exist in cache.

B. Migrate to AWS Use VM import 'Export to quickly convert an on-premises web

server to an AMI create an Auto Scaling group, which uses the imported AMI to scale the

web tier based on incoming traffic Create an RDS read replica and setup replication

between the RDS instance and on-premises MySQL server to migrate the database.

C. Failover environment: Create an S3 bucket and configure it tor website hosting

Migrate your DNS to Route53 using zone (lie import and leverage Route53 DNS failover to

failover to the S3 hosted website.

D. Hybrid environment Create an AMI which can be used of launch web serfers in EC2

Create an Auto Scaling group which uses the * AMI to scale the web tier based on

incoming traffic Leverage Elastic Load Balancing to balance traffic between on-premises

web servers and those hosted in AWS.

Answer: C

Question No: 59 - (Topic 1)

You have recently joined a startup company building sensors to measure street noise and

air quality in urban areas. The company has been running a pilot deployment of around

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100 sensors for 3 months each sensor uploads 1KB of sensor data every minute to a backend hosted on AWS.

During the pilot, you measured a peak or 10 IOPS on the database, and you stored an average of 3GB of sensor data per month in the database.

The current deployment consists of a load-balanced auto scaled Ingestion layer using EC2 instances and a PostgreSQL RDS database with 500GB standard storage.

The pilot is considered a success and your CEO has managed to get the attention or some potential investors. The business plan requires a deployment of at least 100K sensors which needs to be supported by the backend. You also need to store sensor data for at least two years to be able to compare year over year Improvements.

2

To secure funding, you have to make sure that the platform meets these requirements and leaves room for further scaling. Which setup win meet the requirements?

- A. Add an SOS queue to the ingestion layer to buffer writes to the RDS instance
- B. Ingest data into a DynamoDB table and move old data to a Redshift cluster
- C. Replace the RDS instance with a 6 node Redshift cluster with 96TB of storage
- D. Keep the current architecture but upgrade RDS storage to 3TB and 10K provisioned IOPS

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Answer: C

Question No: 60 - (Topic 1)

You're running an application on-premises due to its dependency on non-x86 hardware

and want to use AWS for data backup. Your backup application is only able to write to

POSIX-compatible block-based storage. You have 140TB of data and would like to mount

it as a single folder on your file server Users must be able to access portions of this data

while the backups are taking place. What backup solution would be most appropriate for

this use case?

A. Use Storage Gateway and configure it to use Gateway Cached volumes.

B. Configure your backup software to use S3 as the target for your data backups.

C. Configure your backup software to use Glacier as the target for your data backups.

D. Use Storage Gateway and configure it to use Gateway Stored volumes.

Answer: C

Question No: 61 - (Topic 1)

You are designing a data leak prevention solution for your VPC environment. You want

your VPC Instances to be able to access software depots and distributions on the Internet

for product updates. The depots and distributions are accessible via third party CONs by

their URLs. You want to explicitly deny any other outbound connections from your VPC

instances to hosts on the internet.

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Which of the following options would you consider?

3

A. Configure a web proxy server in your VPC and enforce URL-based rules for

outbound access Remove default routes.

B. Implement security groups and configure outbound rules to only permit traffic to

software depots.

C. Move all your instances into private VPC subnets remove default routes from all

routing tables and add specific routes to the software depots and distributions only.

D. Implement network access control lists to all specific destinations, with an Implicit

deny as a rule.

Answer: A

Question No : 62 - (Topic 1)

You need a persistent and durable storage to trace call activity of an IVR (Interactive Voice

Response) system. Call duration is mostly in the 2-3 minutes timeframe. Each traced call

can be either active or terminated. An external application needs to know each minute the

list of currently active calls, which are usually a few calls/second. Put once per month there

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is a periodic peak up to 1000 calls/second for a few hours. The system is open 24/7 and any downtime should be avoided. Historical data is periodically archived to files. Cost saving is a priority for this project.

What database implementation would better fit this scenario, keeping costs as low as possible?

A. Use RDS Multi-AZ with two tables, one for -Active calls" and one for -Terminated calls". In this way the "Active calls_ table is always small and effective to access.

B. Use DynamoDB with a "Calls" table and a Global Secondary Index on a "IsActive" attribute that is present for active calls only In this way the Global Secondary index is sparse and more effective.

C. Use DynamoDB with a 'Calls" table and a Global secondary index on a 'State" attribute that can equal to "active" or "terminated" in this way the Global Secondary index can be used for all Items in the table.

D. Use RDS Multi-AZ with a "CALLS" table and an Indexed "STATE* field that can be equal to 'ACTIVE" or -TERMINATED" In this way the SOL query Is optimized by the use of the

Index.

Answer: A

Question No: 63 - (Topic 1)

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You have deployed a three-tier web application in a VPC with a CIOR block of 10 0 0 0/28 You initially deploy two web servers, two application servers, two database servers and one NAT instance tor a total of seven EC2 instances The web. Application and database servers are deployed across two availability zones (AZs). You also deploy an ELB in front of the two web servers, and use Route53 for DNS Web (raffle gradually increases in the first few days following the deployment, so you attempt to double the number of instances in each tier of the application to handle the new load unfortunately some of these new instances fail to launch.

Which of the following could De the root caused? (Choose 2 answers)

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A. The Internet Gateway (IGW) of your VPC has scaled-up adding more instances to handle the traffic spike, reducing the number of available private IP addresses for new instance launches.

B. AWS reserves one IP address In each subnet's CIDR block for Route53 so you do not have enough addresses left to launch all of the new EC2 instances.

C. AWS reserves the first and the last private IP address in each subnet's CIDR block so you do not have enough addresses left to launch all of the new EC2 instances.

D. The ELB has scaled-up. Adding more instances to handle the traffic reducing the

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number of available private IP addresses for new instance launches.

E. AWS reserves the first tour and the last IP address in each subnet's CIDR block so

you do not have enough addresses left to launch all of the new EC2 instances.

Answer: C,D

Question No: 64 - (Topic 1)

A corporate web application is deployed within an Amazon Virtual Private Cloud (VPC) and

is connected to the corporate data center via an iPsec VPN. The application must

authenticate against the on-premises LDAP server. After authentication, each logged-in

user can only access an Amazon Simple Storage Space (S3) keyspace specific to that

user.

Which two approaches can satisfy these objectives? (Choose 2 answers)

A. Develop an identity broker that authenticates against IAM security Token service to

assume a IAM role in order to get temporary AWS security credentials The application calls

the identity broker to get AWS temporary security credentials with access to the

appropriate S3 bucket.

B. The application authenticates against LOAP and retrieves the name of an IAMrole

associated with the user. The application then calls the IAM Security Token Service to

assume that IAM role The application can use the temporary credentials to access the

appropriate S3 bucket.

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C. Develop an identity broker that authenticates against LDAP and then calls IAM

Security Token Service to get IAM federated user credentials The application calls the

identity broker to get IAM federated user credentials with access to the appropriate S3

bucket.

D. The application authenticates against LDAP the application then calls the AWS

identity and Access Management (IAM) Security service to log in to IAM using the LDAP

6

credentials the application can use the IAM temporary credentials to access the

appropriate S3 bucket.

E. The application authenticates against IAM Security Token Service using the LDAP

credentials the application uses those temporary AWS security credentials to access the

appropriate S3 bucket.

Answer: A,E

Question No : 65 - (Topic 1)

Your customer is willing to consolidate their log streams (access logs application logs

security logs etc.) in one single system. Once consolidated, the customer wants to analyze

these logs in real time based on heuristics. From time to time, the customer needs to

validate heuristics, which requires going back to data samples extracted from the last 12

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hours?

What is the best approach to meet your customer's requirements?

A. Send all the log events to Amazon SQS. Setup an Auto Scaling group of EC2

servers to consume the logs and apply the heuristics.

B. Send all the log events to Amazon Kinesis develop a client process to apply

heuristics on the logs

C. Configure Amazon Cloud Trail to receive custom logs, use EMR to apply heuristics

the logs

D. Setup an Auto Scaling group of EC2 syslogd servers, store the logs on S3 use EMR

to apply heuristics on the logs

Answer: C

Question No: 66 - (Topic 1)

Your company hosts a social media site supporting users in multiple countries. You have

been asked to provide a highly available design tor the application that leverages multiple

regions tor the most recently accessed content and latency sensitive portions of the wet)

site The most latency sensitive component of the application involves reading user

preferences to support web site personalization and ad selection.

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In addition to running your application in multiple regions, which option will support this application's requirements?

A. Serve user content from S3. CloudFront and use Route53 latency-based routing between ELBs in each region Retrieve user preferences from a local DynamoDB table in each region and leverage SQS to capture changes to user preferences with SOS workers for propagating updates to each table.

B. Use the S3 Copy API to copy recently accessed content to multiple regions and serve user content from S3. CloudFront with dynamic content and an ELB in each region Retrieve user preferences from an ElasticCache cluster in each region and leverage SNS notifications to propagate user preference changes to a worker node in each region.

C. Use the S3 Copy API to copy recently accessed content to multiple regions and serve user content from S3 CloudFront and Route53 latency-based routing Between ELBs In each region Retrieve user preferences from a DynamoDB table and leverage SQS to capture changes to user preferences with SOS workers for propagating DynamoDB

D. Serve user content from S3. CloudFront with dynamic content, and an ELB in each region Retrieve user preferences from an ElastiCache cluster in each region and leverage Simple Workflow (SWF) to manage the propagation of user preferences from a centralized OB to each ElastiCache cluster.

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Answer: A

Question No: 67 - (Topic 1)

Your team has a tomcat-based Java application you need to deploy into development, test

and production environments. After some research, you opt to use Elastic Beanstalk due to

its tight integration with your developer tools and RDS due to its ease of management.

Your QA team lead points out that you need to roll a sanitized set of production data into

your environment on a nightly basis. Similarly, other software teams in your org want

access to that same restored data via their EC2 instances in your VPC .The optimal setup

for persistence and security that meets the above requirements would be the following.

A. Create your RDS instance as part of your Elastic Beanstalk definition and alter its

security group to allow access to it from hosts in your application subnets.

B. Create your RDS instance separately and add its IP address to your application's

DB connection strings in your code Alter its security group to allow access to it from hosts

within your VPC's IP address block.

C. Create your RDS instance separately and pass its DNS name to your app's DB

connection string as an environment variable. Create a security group for client machines

and add it as a valid source for DB traffic to the security group of the RDS instance itself.

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D. Create your RDS instance separately and pass its DNS name to your's DB connection

string as an environment variable Alter its security group to allow access to It from hosts In

your application subnets.

Answer: A

Question No: 68 - (Topic 1)

You are designing a social media site and are considering how to mitigate distributed

denial-of-service (DDoS) attacks. Which of the below are viable mitigation techniques?

(Choose 3 answers)

A. Add multiple elastic network interfaces (ENIs) to each EC2 instance to increase the

network bandwidth.

B. Use dedicated instances to ensure that each instance has the maximum performance

possible.

C. Use an Amazon CloudFront distribution for both static and dynamic content.

D. Use an Elastic Load Balancer with auto scaling groups at the web. App and Amazon

Relational Database Service (RDS) tiers

E. Add alert Amazon CloudWatch to look for high Network in and CPU utilization.

F. Create processes and capabilities to quickly add and remove rules to the instance OS

firewall.

Answer: B,D,F

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Question No: 69 - (Topic 1)

You have deployed a web application targeting a global audience across multiple AWS

Regions under the domain name.example.com. You decide to use Route53 Latency-Based

Routing to serve web requests to users from the region closest to the user. To provide

business continuity in the event of server downtime you configure weighted record sets

associated with two web servers in separate Availability Zones per region. Dunning a DR

test you notice that when you disable all web servers in one of the regions Route53 does

not automatically direct all users to the other region. What could be happening? (Choose 2

answers)

A. Latency resource record sets cannot be used in combination with weighted resource

record sets.

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B. You did not setup an http health check tor one or more of the weighted resource

record sets associated with me disabled web servers.

C. The value of the weight associated with the latency alias resource record set in the

region with the disabled servers is higher than the weight for the other region.

D. One of the two working web servers in the other region did not pass its HTTP health

check.

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E. You did not set "Evaluate Target Health" to "Yes" on the latency alias resource

record set associated with example com in the region where you disabled the servers.

Answer: B,D

0

Question No: 70 - (Topic 1)

A web design company currently runs several FTP servers that their 250 customers use to

upload and download large graphic files They wish to move this system to AWS to make it

more scalable, but they wish to maintain customer privacy and Keep costs to a minimum.

What AWS architecture would you recommend?

A. ASK their customers to use an S3 client instead of an FTP client. Create a single S3

bucket Create an IAM user for each customer Put the IAM Users in a Group that has an

IAM policy that permits access to sub-directories within the bucket via use of the

'username' Policy variable.

B. Create a single S3 bucket with Reduced Redundancy Storage turned on and ask

their customers to use an S3 client instead of an FTP client Create a bucket for each

customer with a Bucket Policy that permits access only to that one customer.

C. Create an auto-scaling group of FTP servers with a scaling policy to automatically

scalein when minimum network traffic on the auto-scaling group is below a given threshold.

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Load a central list of ftp users from S3 as part of the user Data startup script on each Instance. D. Create a single S3 bucket with Requester Pays turned on and ask their customers to use an S3 client instead of an FTP client Create a bucket tor each customer with a Bucket

Policy that permits access only to that one customer.

Answer: C

Question No: 71 - (Topic 1)

You've been brought in as solutions architect to assist an enterprise customer with their migration of an e-commerce platform to Amazon Virtual Private Cloud (VPC) The previous architect has already deployed a 3-tier VPC.

The configuration is as follows:

VPC vpc-2f8t>C447

IGVV ig-2d8bc445

NACL acl-2080c448

1

Subnets and Route Tables:

Web server's subnet-258Dc44d

Application server's suDnet-248bc44c

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Database server's subnet-9189c6f9

Route Tables:

rrb-218DC449

rtb-238bc44b

Associations:

subnet-258bc44d: rtb-2i8bc449

Subnet-248DC44C rtb-238tX44b

subnet-9189c6f9 rtb-238Dc 44b

You are now ready to begin deploying EC2 instances into the VPC Web servers must have direct access to the internet Application and database servers cannot have direct access to the internet.

Which configuration below will allow you the ability to remotely administer your application and database servers, as well as allow these servers to retrieve updates from the Internet?

A. Create a bastion and NAT Instance in subnet-248bc44c and add a route from rtb238bc44b to subnet-258bc44d.

B. Add a route from rtD-238bc44D to igw-2d8bc445 and add a bastion and NAT instance within suonet-248bc44c.

C. Create a bastion and MAT Instance In subnet-258bc44d. Add a route from rtb-238bc44b to igw-2d8bc445. And a new NACL that allows access between subnet-258bc44d and

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subnet-248bc44c.

D. Create a bastion and mat instance in suDnet-258Dc44d and add a route from rtD-

238Dc44D to the mat instance.

2

Answer: A

Question No: 72 - (Topic 1)

A web-startup runs its very successful social news application on Amazon EC2 with an

Elastic Load Balancer, an Auto-Scaling group of Java/Tomcat application-servers, and

DynamoDB as data store. The main web-application best runs on m2 x large instances

since it is highly memory- bound Each new deployment requires semi-automated creation

and testing of a new AMI for the application servers which takes quite a while ana is

therefore only done once per week.

Recently, a new chat feature has been implemented in nodejs and wails to be integrated in

the architecture. First tests show that the new component is CPU bound Because the

company has some experience with using Chef, they decided to streamline the deployment

process and use AWS Ops Works as an application life cycle tool to simplify management

of the application and reduce the deployment cycles.

What configuration in AWS Ops Works is necessary to integrate the new chat module in

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the most cost-efficient and flexible way?

A. Create one AWS Ops Works stack, create one AWS Ops Works layer, create one

custom recipe

B. Create one AWS Ops Works stack create two AWS Ops Works layers create one

custom recipe

C. Create two AWS Ops Works stacks create two AWS Ops Works layers create one

custom recipe

D. Create two AWS Ops Works stacks create two AWS Ops Works layers create two

custom recipe

Answer: C

Question No: 73 - (Topic 1)

An ERP application is deployed across multiple AZs in a single region. In the event of

failure, the Recovery Time Objective (RTO) must be less than 3 hours, and the Recovery

Point Objective (RPO) must be 15 minutes the customer realizes that data corruption

occurred roughly 1.5 hours ago.

3

What DR strategy could be used to achieve this RTO and RPO in the event of this kind of

failure?

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A. Take hourly DB backups to S3, with transaction logs stored in S3 every 5 minutes.

B. Use synchronous database master-slave replication between two availability zones.

C. Take hourly DB backups to EC2 Instance store volumes with transaction logs stored In

S3 every 5 minutes.

D. Take 15 minute DB backups stored In Glacier with transaction logs stored in S3 every 5

minutes.

Answer: C

Question No: 74 - (Topic 1)

Your application is using an ELB in front of an Auto Scaling group of web/application

servers deployed across two AZs and a Multi-AZ RDS Instance for data persistence.

The database CPU is often above 80% usage and 90% of I/O operations on the database

are reads. To improve performance you recently added a single-node Memcached

ElastiCache Cluster to cache frequent DB query results. In the next weeks the overall

workload is expected to grow by 30%.

Do you need to change anything in the architecture to maintain the high availability or the

application with the anticipated additional load'* Why?

A. Yes. you should deploy two Memcached ElastiCache Clusters in different AZs

because the ROS Instance will not Be able to handle the load It me cache node fails.

B. No. if the cache node fails the automated ElastiCache node recovery feature will

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prevent any availability impact.

C. Yes you should deploy the Memcached ElastiCache Cluster with two nodes in the

same AZ as the RDS DB master instance to handle the load if one cache node fails.

D. No if the cache node fails you can always get the same data from the DB without

having any availability impact.

Answer: B

Question No: 75 - (Topic 1)

A customer has a 10 GB AWS Direct Connect connection to an AWS region where they

have a web application hosted on Amazon Elastic Computer Cloud (EC2). The application

has dependencies on an on-premises mainframe database that uses a BASE (Basic

Available. Sort stale Eventual consistency) rather than an ACID (Atomicity. Consistency

isolation. Durability) consistency model. The application is exhibiting undesirable behavior

because the database is not able to handle the volume of writes. How can you reduce the

load on your on-premises database resources in the most cost-effective way?

A. Use an Amazon Elastic Map Reduce (EMR) S3DistCp as a synchronization

mechanism between the on-premises database and a Hadoop cluster on AWS.

B. Modify the application to write to an Amazon SQS queue and develop a worker

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process to flush the queue to the on-premises database.

C. Modify the application to use DynamoDB to feed an EMR cluster which uses a map

function to write to the on-premises database.

D. Provision an RDS read-replica database on AWS to handle the writes and

synchronize the two databases using Data Pipeline.

Answer: A

Question No: 76 - (Topic 1)

Your company previously configured a heavily used, dynamically routed VPN connection

between your on-premises data center and AWS. You recently provisioned a

DirectConnect connection and would like to start using the new connection. After

configuring DirectConnect settings in the AWS Console, which of the following options win

provide the most seamless transition for your users?

A. Delete your existing VPN connection to avoid routing loops configure your

DirectConnect router with the appropriate settings and verity network traffic is leveraging

DirectConnect.

B. Configure your DireclConnect router with a higher 8GP priority man your VPN router,

verify network traffic is leveraging Directconnect and then delete your existing VPN

connection.

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C. Update your VPC route tables to point to the DirectConnect connection configure your

DirectConnect router with the appropriate settings verify network traffic is leveraging

DirectConnect and then delete the VPN connection.

D. Configure your DireclConnect router, update your VPC route tables to point to the

DirectConnect connection, configure your VPN connection with a higher BGP pointy.

And verify network traffic is leveraging the DirectConnect connection.

Answer: D

Question No: 77 - (Topic 1)

An AWS customer runs a public blogging website. The site users upload two million blog

entries a month The average blog entry size is 200 KB. The access rate to blog entries

drops to negligible 6 months after publication and users rarely access a blog entry 1 year

after publication. Additionally, blog entries have a high update rate during the first 3 months

following publication, this drops to no updates after 6 months. The customer wants to use

CloudFront to improve his user's load times. Which of the following recommendations

would you make to the customer?

A. Duplicate entries into two different buckets and create two separate CloudFront

distributions where S3 access is restricted only to Cloud Front identity

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B. Create a CloudFront distribution with "US'Europe price class for US/Europe users

and a different CloudFront distribution with All Edge Locations' for the remaining users.

C. Create a CloudFront distribution with S3 access restricted only to the CloudFront

identity and partition the blog entry's location in S3 according to the month it was uploaded

to be used with CloudFront behaviors.

D. Create a CloudFronl distribution with Restrict Viewer Access Forward Query string

set to true and minimum TTL of 0.

Answer: C

Question No: 78 - (Topic 1)

You've been hired to enhance the overall security posture for a very large e-commerce site

They have a well architected multi-tier application running in a VPC that uses ELBs in front

of both the web and the app tier with static assets served directly from S3 They are using a

combination of RDS and DynamoOB for their dynamic data and then archiving nightly into

S3 for further processing with EMR They are concerned because they found questionable

log entries and suspect someone is attempting to gain unauthorized access.

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Which approach provides a cost effective scalable mitigation to this kind of attack?

A. Recommend mat they lease space at a DirectConnect partner location and establish

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a 1G DirectConnect connection to theirvPC they would then establish Internet connectivity

into their space, filter the traffic in hardware Web Application Firewall (WAF). And then

pass the traffic through the DirectConnect connection into their application running in their

VPC.

B. Add previously identified hostile source IPs as an explicit INBOUND DENY NACL to

the web tier subnet.

C. Add a WAF tier by creating a new ELB and an AutoScalmg group of EC2 Instances

running a host-based WAF They would redirect Route 53 to resolve to the new WAF tier

ELB The WAF tier would thier pass the traffic to the current web tier The web tier Security

Groups would be updated to only allow traffic from the WAF tier Security Group D.

Remove all but TLS 1 2 from the web tier ELB and enable Advanced Protocol Filtering

This will enable the ELB itself to perform WAF functionality.

Answer: C

Question No: 79 - (Topic 1)

You are designing the network infrastructure for an application server in Amazon VPC

Users will access all the application instances from the Internet as well as from an

onpremises network The on-premises network is connected to your VPC over an AWS

Direct

Connect link.

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How would you design routing to meet the above requirements?

A. Configure a single routing Table with a default route via the Internet gateway

Propagate a default route via BGP on the AWS Direct Connect customer router Associate

the routing table with all VPC subnets.

B. Configure a single routing table with a default route via the internet gateway

Propagate specific routes for the on-premises networks via BGP on the AWS Direct

Connect customer router Associate the routing table with all VPC subnets.

C. Configure a single routing table with two default routes: one to the internet via an

Internet gateway the other to the on-premises network via the VPN gateway use this

routing table across all subnets in your VPC.

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D. Configure two routing tables one that has a default route via the Internet gateway

and another that has a default route via the VPN gateway Associate both routing tables

with each VPC subnet.

Answer: A

Question No: 80 - (Topic 1)

Your fortune 500 company has under taken a TCO analysis evaluating the use of Amazon

S3 versus acquiring more hardware The outcome was that ail employees would be granted

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access to use Amazon S3 for storage of their personal documents.

Which of the following will you need to consider so you can set up a solution that

incorporates single sign-on from your corporate AD or LDAP directory and restricts access

for each user to a designated user folder in a bucket? (Choose 3 Answers)

- A. Setting up a federation proxy or identity provider
- B. Using AWS Security Token Service to generate temporary tokens
- C. Tagging each folder in the bucket
- D. Configuring IAM role
- E. Setting up a matching IAM user for every user in your corporate directory that needs

access to a folder in the bucket

Answer: A,B,C

Topic 2, Exam B

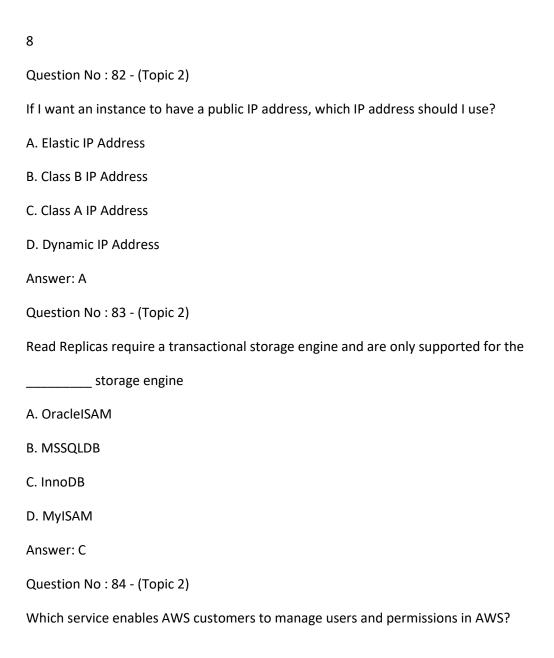
Question No: 81 - (Topic 2)

Is creating a Read Replica of another Read Replica supported?

- A. Only in certain regions
- B. Only with MSSQL based RDS
- C. Only for Oracle RDS types
- D. No

Answer: D

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A. AWS Access Control Service (ACS)
B. AWS Identity and Access Management (IAM)
C. AWS Identity Manager (AIM)
Answer: B
Question No : 85 - (Topic 2)
What does Amazon SWF stand for?
9
A. Simple Web Flow
B. Simple Work Flow
C. Simple Wireless Forms
D. Simple Web Form
Answer: B
Question No: 86 - (Topic 2)
Typically, you want your application to check whether a request generated an error before
you spend any time processing results. The easiest way to find out if an error occurred is to
look for an node in the response from the Amazon RDS API.
A. Incorrect
B. Error

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C. FALSE	
Answer: B	
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Question No : 87 - (Topic 2)	
IAM's Policy Evaluation Logic always starts with a default	for every request,
except for those that use the AWS account's root security credentials b	
A. Permit	
B. Deny	
C. Cancel	
Answer: B	
Question No : 88 - (Topic 2)	
While creating an Amazon RDS DB, your first task is to set up a DB	that controls
what IP addresses or EC2 instances have access to your DB Instance.	
A. Security Pool	
B. Secure Zone	
C. Security Token Pool	
D. Security Group	
Answer: D	

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Question No: 89 - (Topic 2)

Amazon RDS DB snapshots and automated backups are stored in

- A. Amazon S3
- B. Amazon ECS Volume
- C. Amazon RDS
- D. Amazon EMR

Answer: A

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Question No: 90 - (Topic 2)

What does Amazon Elastic Beanstalk provide?

- A. A scalable storage appliance on top of Amazon Web Services.
- B. An application container on top of Amazon Web Services.
- C. A service by this name doesn't exist.
- D. A scalable cluster of EC2 instances.

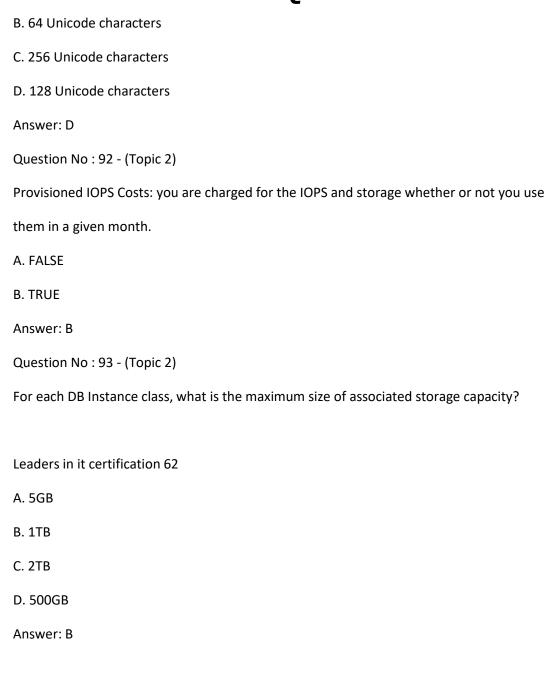
Answer: B

Question No: 91 - (Topic 2)

What is the maximum key length of a tag?

A. 512 Unicode characters

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Question No: 94 - (Topic 2)

How many relational database engines does RDS currently support?

A. Three: MySQL, Oracle and Microsoft SQL Server.

B. Just two: MySQL and Oracle.

C. Five: MySQL, PostgreSQL, MongoDB, Cassandra and SQLite.

D. Just one: MySQL.

Answer: A

Question No: 95 - (Topic 2)

In the Amazon cloudwatch, which metric should I be checking to ensure that your DB

Instance has enough free storage space?

A. FreeStorage

B. FreeStorageSpace

C. FreeStorageVolume

D. FreeDBStorageSpace

Answer: B

Question No: 96 - (Topic 2)

What are the Amazon EC2 API tools?

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A. They don't exist. The Amazon EC2 AMI tools, instead, are used to manage permissions.

- B. Command-line tools to the Amazon EC2 web service.
- C. They are a set of graphical tools to manage EC2 instances.
- D. They don't exist. The Amazon API tools are a client interface to Amazon Web Services.

Answer: B

Question No: 97 - (Topic 2)

What does RRS stand for when talking about S3?

- A. Redundancy Removal System
- B. Relational Rights Storage
- C. Regional Rights Standard
- D. Reduced Redundancy Storage

Answer: D

Question No: 98 - (Topic 2)

Which is the default region in AWS?

- A. eu-west-1
- B. us-east-1
- C. us-east-2
- D. ap-southeast-1

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Answer: B Question No: 99 - (Topic 2) Is there a limit to how many groups a user can be in? Leaders in it certification 64 A. Yes for all users B. Yes for all users except root C. No D. Yes unless special permission granted Answer: A Question No: 100 - (Topic 2) What is the minimum charge for the data transferred between Amazon RDS and Amazon EC2 Instances in the same Availability Zone? A. USD 0.10 per GB B. No charge. It is free. C. USD 0.02 per GB D. USD 0.01 per GB Answer: B Question No: 101 - (Topic 2)

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In the 'Detailed' monitoring data available for your Amazon EBS volumes, Provisioned
IOPS volumes automatically send minute metrics to Amazon CloudWatch.
A. 3
B. 1
C. 5
D. 2
Answer: B
Question No: 102 - (Topic 2)
Leaders in it certification 65
While creating the snapshots using the command line tools, which command should I be
using?
A. ec2-deploy-snapshot
B. ec2-fresh-snapshot
C. ec2-create-snapshot
D. ec2-new-snapshot
Answer: C
Question No : 103 - (Topic 2)
Can a 'user' be associated with multiple AWS accounts?

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A. No
B. Yes
Answer: A
Question No : 104 - (Topic 2)
What does Amazon EC2 provide?
A. Virtual servers in the Cloud.
B. A platform to run code (Java, PHP, Python), paying on an hourly basis.
C. Computer Clusters in the Cloud.
D. Physical servers, remotely managed by the customer.
Answer: A
Question No : 105 - (Topic 2)
Amazon RDS automated backups and DB Snapshots are currently supported for only the
storage engine
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A. InnoDB
B. MyISAM
Answer: A
Question No: 106 - (Topic 2)

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What are the initial settings of an user created security group?

What are the initial settings of an aser created security group.
A. Allow all inbound traffic and Allow no outbound traffic
B. Allow no inbound traffic and Allow no outbound traffic
C. Allow no inbound traffic and Allow all outbound traffic
D. Allow all inbound traffic and Allow all outbound traffic
Answer: C
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Question No : 107 - (Topic 2)
When you run a DB Instance as a Multi-AZ deployment, the "" serves database
writes and reads
A. secondary
B. backup
C. stand by
D. primary
Answer: D
Question No: 108 - (Topic 2)
What happens to the data on an instance if the instance reboots (intentionally or
unintentionally)?

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A. Data will be lost
B. Data persists
C. Data may persist however cannot be sure
Answer: B
Question No : 109 - (Topic 2)
How can I change the security group membership for interfaces owned by other AWS,
such as Elastic Load Balancing?
A. By using the service specific console or API\CLI commands
B. None of these
C. Using Amazon EC2 API/CLI
D. using all these methods
Answer: A
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Question No: 110 - (Topic 2)
By default, EBS volumes that are created and attached to an instance at launch are
deleted when that instance is terminated. You can modify this behavior by changing the
value of the flag to false when you launch the instance
A. DeleteOnTermination

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B. RemoveOnDeletion
C. RemoveOnTermination
D. TerminateOnDeletion
Answer: A
Question No : 111 - (Topic 2)
What does the AWS Storage Gateway provide?
A. It allows to integrate on-premises IT environments with Cloud Storage.
B. A direct encrypted connection to Amazon S3.
C. It's a backup solution that provides an on-premises Cloud storage.
D. It provides an encrypted SSL endpoint for backups in the Cloud.
Answer: A
Question No : 112 - (Topic 2)
Fill in the blanks: let you categorize your EC2 resources in different ways, for
example, by purpose, owner, or environment.
A. wildcards
B. pointers
C. Tags
D. special filters
Answer: C

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Question No: 113 - (Topic 2)

What are the two types of licensing options available for using Amazon RDS for Oracle?

A. BYOL and Enterprise License

B. BYOL and License Included

C. Enterprise License and License Included

D. Role based License and License Included

Answer: B

Question No: 114 - (Topic 2)

What is the durability of S3 RRS?

A. 99.99%

B. 99.95%

C. 99.995%

D. 99.99999999%

Answer: A

https://aws.amazon.com/about-aws/whats-new/2010/05/19/announcing-amazon-s3-

reduced-redundancy-storage/

Question No: 115 - (Topic 2)

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Every user you create in the IAM system starts with
A. Partial permissions
B. Full permissions
C. No permissions
Answer: C
0
Question No : 116 - (Topic 2)
What is the Reduced Redundancy option in Amazon S3?
A. Less redundancy for a lower cost.
B. It doesn't exist in Amazon S3, but in Amazon EBS.
C. It allows you to destroy any copy of your files outside a specific jurisdiction.
D. It doesn't exist at all
Answer: A
Question No : 117 - (Topic 2)
While launching an RDS DB instance, on which page I can select the Availability Zone?
A. REVIEW
B. DB INSTANCE DETAILS
C. MANAGEMENT OPTIONS

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D. ADDITIONAL CONFIGURATION Answer: D Question No: 118 - (Topic 2) What does the following command do with respect to the Amazon EC2 security groups? ec2-create-group CreateSecurityGroup A. Groups the user created security groups in to a new group for easy access. B. Creates a new security group for use with your account. C. Creates a new group inside the security group. D. Creates a new rule inside the security group. Answer: B 1 Question No: 119 - (Topic 2) Can I control if and when MySQL based RDS Instance is upgraded to new supported versions? A. No B. Only in VPC C. Yes Answer: C

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Question No: 120 - (Topic 2)
Can we attach an EBS volume to more than one EC2 instance at the same time?
A. No
B. Yes.
C. Only EC2-optimized EBS volumes.
D. Only in read mode.
Answer: A
Question No: 121 - (Topic 2)
What does the following command do with respect to the Amazon EC2 security groups?
ec2-revoke-security-group-ingress
A. Removes one or more security groups from a rule.
B. Removes one or more security groups from an Amazon EC2 instance.
C. Removes one or more rules from a security group.
D. Removes a security group from our account.
Answer: C
2
Question No: 122 - (Topic 2)
By default, when an EBS volume is attached to a Windows instance, it may show up as

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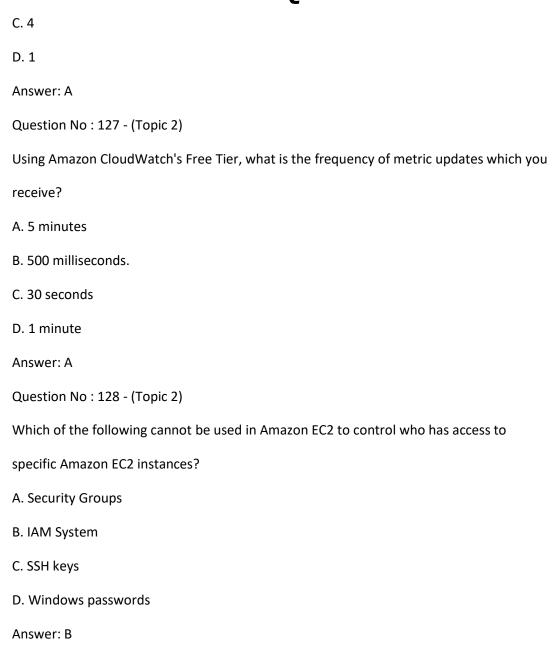
any drive letter on the instance. You can change the settings of the Service to set
the drive letters of the EBS volumes per your specifications.
A. EBSConfig Service
B. AMIConfig Service
C. Ec2Config Service
D. Ec2-AMIConfig Service
Answer: C
Question No: 123 - (Topic 2)
What is an isolated database environment running in the cloud (Amazon RDS) called?
A. DB Instance
B. DB Server
C. DB Unit
D. DB Volume
Answer: A
Question No: 124 - (Topic 2)
What is Amazon Glacier?
A. You mean Amazon "Iceberg": it's a low-cost storage service.
B. A security tool that allows to "freeze" an EBS volume and perform computer forensics
on it.

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C. A low-cost storage service that provides secure and durable storage for data archiving and backup.

3
D. It's a security tool that allows to "freeze" an EC2 instance and perform computer
forensics on it.
Answer: C
Question No : 125 - (Topic 2)
Using Amazon IAM, can I give permission based on organizational groups?
A. Yes but only in certain cases
B. No
C. Yes always
Answer: C
4
Question No : 126 - (Topic 2)
How many types of block devices does Amazon EC2 support A
A. 2
B. 3

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5
Question No : 129 - (Topic 2)
SQL Server store logins and passwords in the master database.
A. can be configured to but by default does not
B. doesn't
C. does
Answer: C
Question No : 130 - (Topic 2)
What does a "Domain" refer to in Amazon SWF?
A. A security group in which only tasks inside can communicate with each other
B. A special type of worker
C. A collection of related Workflows
D. The DNS record for the Amazon SWF service
Answer: C
Question No : 131 - (Topic 2)
Can you create IAM security credentials for existing users?
A. Yes, existing users can have security credentials associated with their account.
B. No, IAM requires that all users who have credentials set up are not existing users

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C. No, security credentials are created within GROUPS, and then users are associated
to GROUPS at a later time.
D. Yes, but only IAM credentials, not ordinary security credentials.

Answer: A

Question No: 132 - (Topic 2)

6

Can Amazon S3 uploads resume on failure or do they need to restart?

- A. Restart from beginning
- B. You can resume them, if you flag the "resume on failure" option before uploading.
- C. Resume on failure
- D. Depends on the file size

Answer: C

Question No: 133 - (Topic 2)

Are Reserved Instances available for Multi-AZ Deployments?

- A. Only for Cluster Compute instances
- B. Yes for all instance types
- C. Only for M3 instance types
- D. No

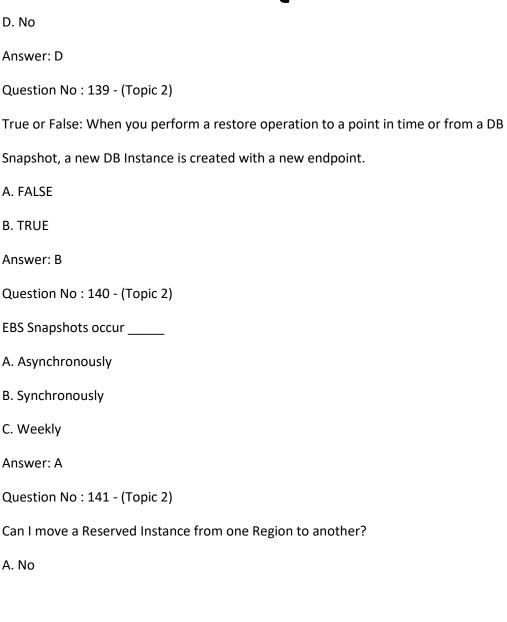
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Answer: B
Question No: 134 - (Topic 2)
What will be the status of the snapshot until the snapshot is complete.
A. running
B. working
C. progressing
D. pending
Answer: D
Question No: 135 - (Topic 2)
7
All Amazon EC2 instances are assigned two IP addresses at launch, out of which one can
only be reached from within the Amazon EC2 network?
A. Multiple IP address
B. Public IP address
C. Private IP address
C. Private IP address D. Elastic IP Address

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Groups can't
A. be nested more than 3 levels
B. be nested at all
C. be nested more than 4 levels
D. be nested more than 2 levels
Answer: B
Question No: 137 - (Topic 2)
True or False: Automated backups are enabled by default for a new DB Instance.
A. TRUE
B. FALSE
Answer: A
Question No: 138 - (Topic 2)
When running my DB Instance as a Multi-AZ deployment, can I use the standby for read or
write operations?
8
A. Yes
B. Only with MSSQL based RDS
C. Only for Oracle RDS instances

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9

B. Only if they are moving into GovCloud
C. Yes
D. Only if they are moving to US East from another region
Answer: A
Question No : 142 - (Topic 2)
A/An acts as a firewall that controls the traffic allowed to reach one or more
instances.
A. security group
B. ACL
C. IAM
D. Private IP Addresses
Answer: A
Question No : 143 - (Topic 2)
Fill in the blanks: Resources that are created in AWS are identified by a unique identifier
called an
A. Amazon Resource Number
B. Amazon Resource Nametag
C. Amazon Resource Name
D. Amazon Reesource Namespace

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Answer: C
Question No : 144 - (Topic 2)
Disabling automated backups disable the point-in-time recovery.
0
A. if configured to can
B. will never
C. will
Answer: C
Question No: 145 - (Topic 2)
IAM provides several policy templates you can use to automatically assign permissions to
the groups you create. The policy template gives the Admins group permission to
access all account resources, except your AWS account information
A. Read Only Access
B. Power User Access
C. AWS Cloud Formation Read Only Access
D. Administrator Access
Answer: D
Question No: 146 - (Topic 2)

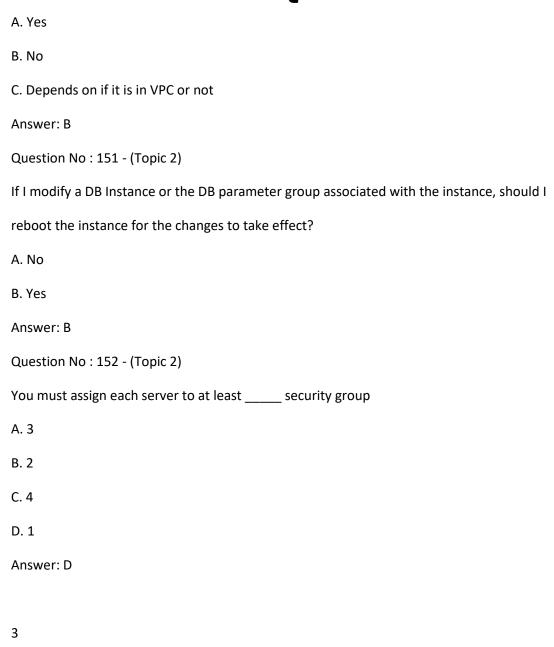
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What does Amazon S3 stand for? A. Simple Storage Solution. B. Storage Storage Storage (triple redundancy Storage). C. Storage Server Solution. D. Simple Storage Service. Answer: D Question No: 147 - (Topic 2) When should I choose Provisioned IOPS over Standard RDS storage? 1 A. If you have batch-oriented workloads B. If you use production online transaction processing (OLTP) workloads. C. If you have workloads that are not sensitive to consistent performance Answer: B Question No: 148 - (Topic 2) You must increase storage size in increments of at least _____ % A. 40 B. 20 C. 50

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D. 10
Answer: D
Question No : 149 - (Topic 2)
True or False: Manually created DB Snapshots are deleted after the DB Instance is
deleted.
A. TRUE
B. FALSE
Answer: B
Explanation:
http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_DeleteInstance.htmlIm
portantIf you choose not to create a final DB snapshot, you will not be able tolater restore
the DB instance to its final state. When you delete a DBinstance, all automated backups
are deleted and cannot be recovered. ManualDB snapshots of the instance are not
deleted.
2
Question No: 150 - (Topic 2)
Does Amazon RDS allow direct host access via Telnet, Secure Shell (SSH), or Windows
Remote Desktop Connection?

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Question No: 153 - (Topic 2)

What is Oracle SQL Developer?

A. An AWS developer who is an expert in Amazon RDS using both the Oracle and SQL

Server DB engines

B. A graphical Java tool distributed without cost by Oracle.

C. It is a variant of the SQL Server Management Studio designed by Microsoft to support

Oracle DBMS functionalities

D. A different DBMS released by Microsoft free of cost

Answer: B

Question No: 154 - (Topic 2)

What is the maximum write throughput I can provision for a single Dynamic DB table?

A. 1,000 write capacity units

B. 100,000 write capacity units

C. Dynamic DB is designed to scale without limits, but if you go beyond 10,000 you have to $\frac{1}{2}$

contact AWS first.

D. 10,000 write capacity units

Answer: C

Question No: 155 - (Topic 2)

What happens to the I/O operations while you take a database snapshot?

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A. I/O operations to the database are suspended for a few minutes while the backup is in
progress.
B. I/O operations to the database are sent to a Replica (if available) for a few minutes while
the backup is in progress.
C. I/O operations will be functioning normally
D. I/O operations to the database are suspended for an hour while the backup is in
progress
Answer: A
4
Question No : 156 - (Topic 2)
What does specifying the mapping /dev/sdc=none when launching an instance do?
A. Prevents /dev/sdc from creating the instance.
B. Prevents /dev/sdc from deleting the instance.
C. Set the value of /dev/sdc to 'zero'.
D. Prevents /dev/sdc from attaching to the instance.
Answer: D
Question No : 157 - (Topic 2)
Changes to the backup window take effect

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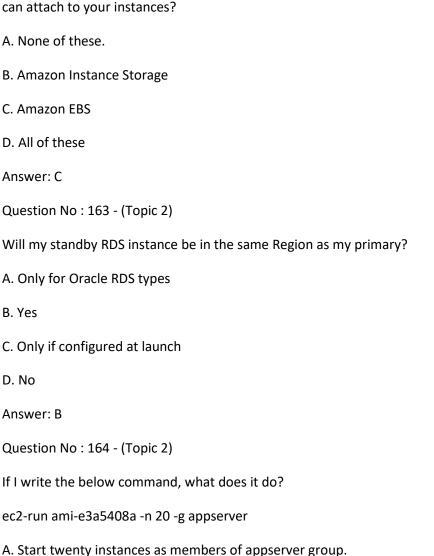
A. from the next billing cycle
B. after 30 minutes
C. immediately
D. after 24 hours
Answer: C
Question No: 158 - (Topic 2)
Select the most correct answer: The device name /dev/sda1 (within Amazon EC2) is
A. Possible for EBS volumes
5
B. Reserved for the root device
C. Recommended for EBS volumes
D. Recommended for instance store volumes
Answer: B
Question No : 159 - (Topic 2)
Before I delete an EBS volume, what can I do if I want to recreate the volume later?
A. Create a copy of the EBS volume (not a snapshot)
B. Store a snapshot of the volume
C. Download the content to an EC2 instance

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D. Back up the data in to a physical disk Answer: B Question No: 160 - (Topic 2) While creating the snapshots using the API, which Action should I be using? A. MakeSnapShot B. FreshSnapshot C. DeploySnapshot D. CreateSnapshot Answer: D Question No: 161 - (Topic 2) Is Federated Storage Engine currently supported by Amazon RDS for MySQL? A. Only for Oracle RDS instances B. No C. Yes 6 D. Only in VPC Answer: B Question No: 162 - (Topic 2)

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Which Amazon Storage behaves like raw, unformatted, external block devices that you



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B. Creates 20 rules in the security group named appserver

\sim	Tamainata		:			_£		~
L.	Terminate 1	twenty	instances	as II	iembers	OΤ	appserver	group.

D. Start 20 security groups

7

Answer: A

Question No: 165 - (Topic 2)

Out of the stripping options available for the EBS volumes, which one has the following disadvantage: 'Doubles the amount of I/O required from the instance to EBS compared to RAID 0, because you're mirroring all writes to a pair of volumes, limiting how much you can stripe.'?

A. Raid 0

B. RAID 1+0 (RAID 10)

C. Raid 1

D. Raid

Answer: B

Question No: 166 - (Topic 2)

While performing the volume status checks, if the status is insufficient-data, what does it mean?

A. the checks may still be in progress on the volume

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B. the check has passed
C. the check has failed
Answer: A
Question No : 167 - (Topic 2)
8
To view information about an Amazon EBS volume, open the Amazon EC2 console at
https://console.aws.amazon.com/ec2/, click in the Navigation pane.
A. EBS
B. Describe
C. Details
D. Volumes
Answer: D
Question No : 168 - (Topic 2)
Fill in the blanks: The base URI for all requests for instance metadata is
A. http://254.169.169.254/latest/
B. http://169.169.254.254/latest/
C. http://127.0.0.1/latest/
D. http://169.254.169.254/latest/

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Answer: D Question No: 169 - (Topic 2) True or False: When using IAM to control access to your RDS resources, the key names that can be used are case sensitive. For example, aws:CurrentTime is NOT equivalent to AWS:currenttime. A. TRUE B. FALSE Answer: A 9 Question No: 170 - (Topic 2) Will my standby RDS instance be in the same Availability Zone as my primary? A. Only for Oracle RDS types B. Yes C. Only if configured at launch D. No Answer: D Question No: 171 - (Topic 2) What are the two permission types used by AWS?

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A. Resource-based and Product-based
B. Product-based and Service-based
C. Service-based
D. User-based and Resource-based
Answer: D
Question No : 172 - (Topic 2)
While signing in REST/ Query requests, for additional security, you should transmit your
requests using Secure Sockets Layer (SSL) by using
A. HTTP
B. Internet Protocol Security(IPsec)
C. TLS (Transport Layer Security)
D. HTTPS
Answer: D
Question No : 173 - (Topic 2)
When you view the block device mapping for your instance, you can see only the EBS
volumes, not the instance store volumes.
Leaders in it certification 90
A. Depends on the instance type

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B. FALSE
C. Depends on whether you use API call
D. TRUE
Answer: D
Question No : 174 - (Topic 2)
Amazon SWF is designed to help users
A. Design graphical user interface interactions
B. Manage user identification and authorization
C. Store Web content
D. Coordinate synchronous and asynchronous tasks which are distributed and fault
tolerant.
Answer: D
Question No: 175 - (Topic 2)
In the Launch Db Instance Wizard, where can I select the backup and maintenance
options?
A. Under DB INSTANCE DETAILS
B. Under REVIEW
C. Under MANAGEMENT OPTIONS

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D. Under ENGINE SELECTION

Answer: C

Topic 3, Exam C

Question No: 176 - (Topic 3)

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When using the following AWS services, which should be implemented in multiple

Availability Zones for high availability solutions? Choose 2 answers

- A. Amazon DynamoDB
- B. Amazon Elastic Compute Cloud (EC2)
- C. Amazon Elastic Load Balancing
- D. Amazon Simple Notification Service (SNS)
- E. Amazon Simple Storage Service (S3)

Answer: B,C

Question No: 177 - (Topic 3)

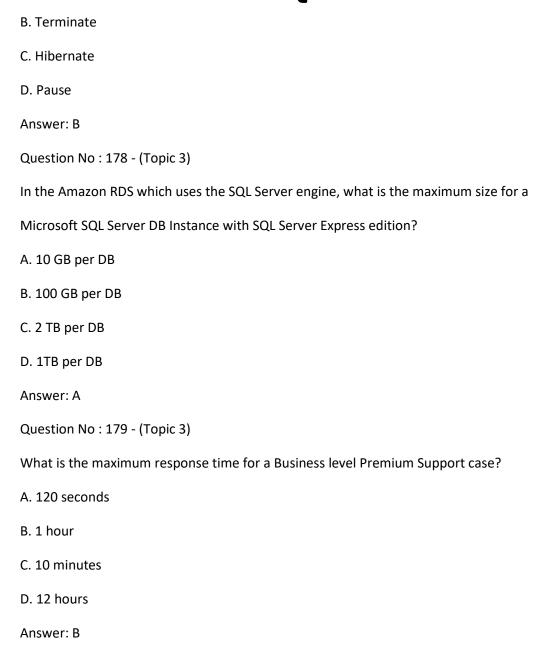
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By default what are ENIs that are automatically created and attached to instances using

the EC2 console set to do when the attached instance terminates?

A. Remain as is

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Question No: 180 - (Topic 3)

What is a placement group?

A. A collection of Auto Scaling groups in the same region

B. A feature that enables EC2 instances to interact with each other via high bandwidth, low latency connections

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C. A collection of authorized CloudFront edge locations for a distribution

D. A collection of Elastic Load Balancers in the same Region or Availability Zone

Answer: B

Reference: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placementgroups.html

Question No: 181 - (Topic 3)

If you want to launch Amazon Elastic Compute Cloud (EC2) instances and assign each instance a predetermined private IP address you should:

A. Launch the instance from a private Amazon Machine Image (AMI).

B. Assign a group of sequential Elastic IP address to the instances.

C. Launch the instances in the Amazon Virtual Private Cloud (VPC).

D. Launch the instances in a Placement Group.

E. Use standard EC2 instances since each instance gets a private Domain Name Service

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-
(DNS) already.
Answer: C
Question No : 182 - (Topic 3)
Can I test my DB Instance against a new version before upgrading?
A. No
B. Yes
C. Only in VPC
Answer: B
Question No: 183 - (Topic 3)
When you put objects in Amazon S3, what is the indication that an object was successfully
stored?
A. A HTTP 200 result code and MD5 checksum, taken together, indicate that the operation
was successful.
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B. Amazon S3 is engineered for 99.9999999999 durability. Therefore there is no need to
confirm that data was inserted.
C. A success code is inserted into the S3 object metadata.

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D. Each S3 account has a special bucket named _s3_logs. Success codes are written to

this bucket with a timestamp and checksum.

Answer: A

Question No: 184 - (Topic 3)

What is the charge for the data transfer incurred in replicating data between your primary

and standby?

A. No charge. It is free.

B. Double the standard data transfer charge

C. Same as the standard data transfer charge

D. Half of the standard data transfer charge

Answer: A

Question No: 185 - (Topic 3)

Which features can be used to restrict access to data in S3? Choose 2 answers

A. Set an S3 ACL on the bucket or the object.

B. Create a CloudFront distribution for the bucket.

C. Set an S3 bucket policy.

D. Enable IAM Identity Federation

E. Use S3 Virtual Hosting

Answer: A,C Reference:

http://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/privatecontentrestricting-

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access-to-s3.html
Question No: 186 - (Topic 3)
Fill in the blanks: A is a storage device that moves data in sequences of bytes or bits
(blocks). Hint: These devices support random access and generally use buffered I/O.
Leaders in it certification 95
A. block map
B. storage block
C. mapping device
D. block device
Answer: D
Question No: 187 - (Topic 3)
What is the command line instruction for running the remote desktop client in Windows?
A. desk.cpl
B. mstsc
Answer: B
Question No: 188 - (Topic 3)
Amazon RDS supports SOAP only through
A. HTTP or HTTPS

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B. TCP/IP
C. HTTP
D. HTTPS
Answer: D
Question No : 189 - (Topic 3)
You have decided to change the instance type for instances running in your application tie
that is using Auto Scaling. In which area below would you change the instance type
definition?
A. Auto Scaling policy
B. Auto Scaling group
C. Auto Scaling tags
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D. Auto Scaling launch configuration
Answer: B
Question No : 190 - (Topic 3)
A is an individual, system, or application that interacts with AWS
programmatically.
A. user

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B. AWS Account
C. Group
D. Role
Answer: A
Question No: 191 - (Topic 3)
Amazon S3 doesn't automatically give a user who creates permission to perform
other actions on that bucket or object.
A. a file
B. a bucket or object
C. a bucket or file
D. a object or file
Answer: B
Question No: 192 - (Topic 3)
What can I access by visiting the URL: http://status.aws.amazon.com/?
A. Amazon Cloud Watch
B. Status of the Amazon RDS DB
C. AWS Service Health Dashboard
D. AWS Cloud Monitor

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Answer: C

Question No: 193 - (Topic 3)

What does Amazon ELB stand for?

- A. Elastic Linux Box.
- B. Encrypted Linux Box.
- C. Encrypted Load Balancing.
- D. Elastic Load Balancing.

Answer: D

Question No: 194 - (Topic 3)

An instance is launched into a VPC subnet with the network ACL configured to allow all inbound traffic and deny all outbound traffic. The instance's security group is configured to allow SSH from any IP address and deny all outbound traffic. What changes need to be made to allow SSH access to the instance?

- A. The outbound security group needs to be modified to allow outbound traffic.
- B. The outbound network ACL needs to be modified to allow outbound traffic.
- C. Nothing, it can be accessed from any IP address using SSH.
- D. Both the outbound security group and outbound network ACL need to be modified to allow outbound traffic.

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Answer: C

Question No: 195 - (Topic 3)

Select the correct statement:

- A. You don't need not specify the resource identifier while stopping a resource
- B. You can terminate, stop, or delete a resource based solely on its tags
- C. You can't terminate, stop, or delete a resource based solely on its tags

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D. You don't need to specify the resource identifier while terminating a resource

Answer: C

Question No: 196 - (Topic 3)

Is there a limit to the number of groups you can have?

- A. Yes for all users
- B. Yes for all users except root
- C. No
- D. Yes unless special permission granted

Answer: A

Question No: 197 - (Topic 3)

Are you able to integrate a multi-factor token service with the AWS Platform?

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A. Yes, you can integrate private multi-factor token devices to authenticate users to the
AWS platform.
B. No, you cannot integrate multi-factor token devices with the AWS platform.
C. Yes, using the AWS multi-factor token devices to authenticate users on the AWS
platform.
Answer: C
Question No: 198 - (Topic 3)
Can I initiate a "forced failover" for my Oracle Multi-AZ DB Instance deployment?
A. Yes
B. Only in certain regions
C. Only in VPC
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D. No
Answer: A
Question No: 199 - (Topic 3)
True or False: Common points of failures like generators and cooling equipment are shared
across Availability Zones.

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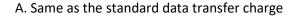
A. TRUE

B. FALSE
Answer: B
Question No : 200 - (Topic 3)
Within the IAM service a GROUP is regarded as a:
A. A collection of AWS accounts
B. It's the group of EC2 machines that gain the permissions specified in the GROUP.
C. There's no GROUP in IAM, but only USERS and RESOURCES.
D. A collection of users.
Answer: D
Question No : 201 - (Topic 3)
Does AWS Direct Connect allow you access to all Availabilities Zones within a Region?
A. Depends on the type of connection
B. No
C. Yes
D. Only when there's just one availability zone in a region. If there are more than one, only
one availability zone can be accessed directly.
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Answer: A

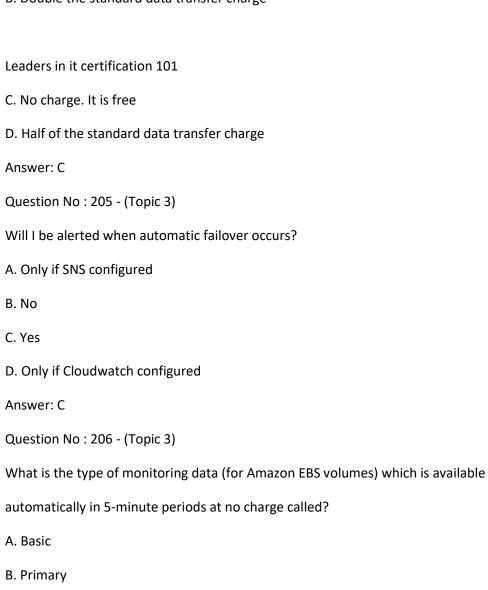
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Question No: 202 - (Topic 3) Which services allow the customer to retain full administrative privileges of the underlying EC2 instances? Choose 2 answers A. Amazon Relational Database Service B. Amazon Elastic Map Reduce C. Amazon ElastiCache D. Amazon DynamoDB E. AWS Elastic Beanstalk Answer: D.E Question No: 203 - (Topic 3) Can we attach an EBS volume to more than one EC2 instance at the same time? A. Yes. B. No C. Only EC2-optimized EBS volumes. D. Only in read mode. Answer: B Question No: 204 - (Topic 3) What is the charge for the data transfer incurred in replicating data between your primary and standby?

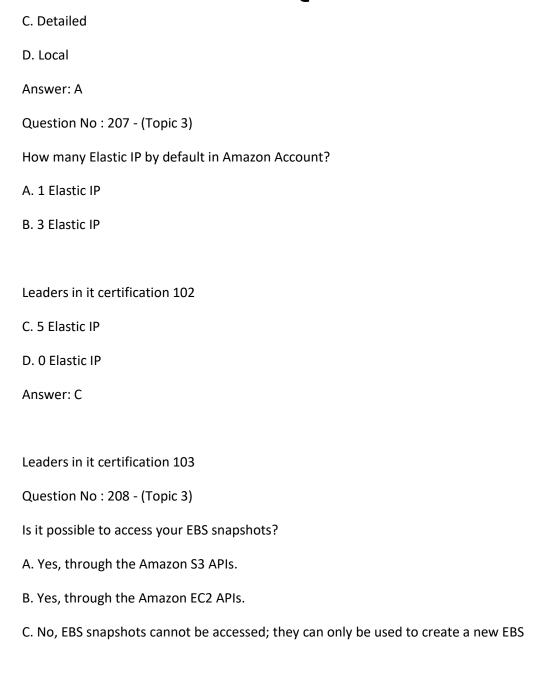
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B. Double the standard data transfer charge



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volume.
D. EBS doesn't provide snapshots.
Answer: B
Question No: 209 - (Topic 3)
What does Amazon ElastiCache provide?
A. A service by this name doesn't exist. Perhaps you mean Amazon CloudCache.
B. A virtual server with a huge amount of memory.
C. A managed In-memory cache service.
D. An Amazon EC2 instance with the Memcached software already pre-installed.
Answer: C
Question No: 210 - (Topic 3)
Multi-AZ deployment supported for Microsoft SQL Server DB Instances.
A. is not currently
B. is as of 2013
C. is planned to be in 2014
D. will never be
Answer: A
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Question No: 211 - (Topic 3) In AWS, which security aspects are the customer's responsibility? Choose 4 answers A. Security Group and ACL (Access Control List) settings B. Decommissioning storage devices C. Patch management on the EC2 instance's operating system D. Life-cycle management of IAM credentials E. Controlling physical access to compute resources F. Encryption of EBS (Elastic Block Storage) volumes Answer: A,C,D,F Explanation: Refere http://media.amazonwebservices.com/AWS_Security_Best_Practices.pdf Question No: 212 - (Topic 3) To help you manage your Amazon EC2 instances, images, and other Amazon EC2 resources, you can assign your own metadata to each resource in the form of A. special filters B. functions C. tags D. wildcards

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Answer: C

Question No: 213 - (Topic 3) What is the default maximum number of MFA devices in use per AWS account (at the root account level)? A. 1 B. 5 Leaders in it certification 105 C. 15 D. 10 Answer: A Question No: 214 - (Topic 3) Can the string value of 'Key' be prefixed with laws? A. No B. Only for EC2 not S3 C. Yes D. Only for S3 not EC Answer: A Question No: 215 - (Topic 3) You have multiple Amazon EC2 instances running in a cluster across multiple Availability

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Zones within the same region. What combination of the following should be used to ensure the highest network performance (packets per second), lowest latency, and lowest jitter?

Choose 3 answers

- A. Amazon EC2 placement groups
- B. Enhanced networking
- C. Amazon PV AMI
- D. Amazon HVM AMI
- E. Amazon Linux
- F. Amazon VPC

Answer: B,D,F

Question No: 216 - (Topic 3)

Are you able to integrate a multi-factor token service with the AWS Platform?

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- A. Yes, using the AWS multi-factor token devices to authenticate users on the AWS platform.
- B. No, you cannot integrate multi-factor token devices with the AWS platform.
- C. Yes, you can integrate private multi-factor token devices to authenticate users to the

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AWS platform.
Answer: A
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Question No : 217 - (Topic 3)
What is one key difference between an Amazon EBS-backed and an instance-store
backed instance?
A. Amazon EBS-backed instances can be stopped and restarted.
B. Instance-store backed instances can be stopped and restarted.
C. Auto scaling requires using Amazon EBS-backed instances.
D. Virtual Private Cloud requires EBS backed instances.
Answer: A Reference:
http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ComponentsAMIs.html #storage for the components for the
or-the-root-device
Question No : 218 - (Topic 3)
You can use and to help secure the instances in your VPC.
A. security groups and multi-factor authentication
B. security groups and 2-Factor authentication
C. security groups and biometric authentication

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D. security groups and network ACLs
Answer: D
Question No : 219 - (Topic 3)
What is the maximum response time for a Business level Premium Support case?
A. 30 minutes
B. 1 hour
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C. 12 hours
D. 10 minutes
Answer: B
Question No : 220 - (Topic 3)
You can modify the backup retention period; valid values are 0 (for no backup retention) to
a maximum of days.
A. 45
B. 35
C. 15
D. 5
Answer: B

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Question No: 221 - (Topic 3) Which Amazon service can I use to define a virtual network that closely resembles a traditional data center? A. Amazon VPC B. Amazon ServiceBus C. Amazon EMR D. Amazon RDS Answer: A Question No: 222 - (Topic 3) Can I test my DB Instance against a new version before upgrading? A. Only in VPC Leaders in it certification 109 B. No C. Yes Answer: C Question No: 223 - (Topic 3) True or False: Without IAM, you cannot control the tasks a particular user or system can do and what AWS resources they might use.

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A. FALSE

B. TRUE

Answer: A

Question No: 224 - (Topic 3)

Your web application front end consists of multiple EC2 instances behind an Elastic Load Balancer. You configured ELB to perform health checks on these EC2 instances, if an instance fails to pass health checks, which statement will be true?

- A. The instance gets terminated automatically by the ELB.
- B. The instance gets quarantined by the ELB for root cause analysis.
- C. The instance is replaced automatically by the ELB.
- D. The ELB stops sending traffic to the instance that failed its health check.

Answer: D

Question No: 225 - (Topic 3)

You are working with a customer who is using Chef configuration management in their data center. Which service is designed to let the customer leverage existing Chef recipes in AWS?

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A. Amazon Simple Workflow Service

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B. AWS Elastic Beanstalk
C. AWS CloudFormation
D. AWS OpsWorks
Answer: D
Reference: http://aws.amazon.com/opsworks/
Question No : 226 - (Topic 3)
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Through which of the following interfaces is AWS Identity and Access Management
available?
A) AWS Management Console
B) Command line interface (CLI)
C) IAM Query API
D) Existing libraries
A. Only through Command line interface (CLI)
B. A, B and C
C. A and C

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D. All of the above

Answer: D

Question No : 227 - (Topic 3)
In the Amazon RDS Oracle DB engine, the Database Diagnostic Pack and the Database
Tuning Pack are only available with
A. Oracle Standard Edition
B. Oracle Express Edition
C. Oracle Enterprise Edition
D. None of these
Answer: C
Question No : 228 - (Topic 3)
You have an EC2 Security Group with several running EC2 instances. You change the
Security Group rules to allow inbound traffic on a new port and protocol, and launch
several new instances in the same Security Group. The new rules apply:
Leaders in it certification 112
A. Immediately to all instances in the security group.
B. Immediately to the new instances only.
C. Immediately to the new instances, but old instances must be stopped and restarted
before the new rules apply.
D. To all instances, but it may take several minutes for old instances to see the changes

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Answer: A

Question No: 229 - (Topic 3)

You launch an Amazon EC2 instance without an assigned AVVS identity and Access

Management (IAM) role. Later, you decide that the instance should be running with an IAM

role. Which action must you take in order to have a running Amazon EC2 instance with an

IAM role assigned to it?

A. Create an image of the instance, and register the image with an IAM role assigned

and an Amazon EBS volume mapping.

B. Create a new IAM role with the same permissions as an existing IAM role, and

assign it to the running instance.

C. Create an image of the instance, add a new IAM role with the same permissions as

the desired IAM role, and deregister the image with the new role assigned.

D. Create an image of the instance, and use this image to launch a new instance with

the desired IAM role assigned.

Answer: D

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/rolesusingroleec2instance.

html

Question No: 230 - (Topic 3)

A customer needs corporate IT governance and cost oversight of all AWS resources

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consumed by its divisions. The divisions want to maintain administrative control of the

discrete AWS resources they consume and keep those resources separate from the

resources of other divisions. Which of the following options, when used together will

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support the autonomy/control of divisions while enabling corporate IT to maintain

governance and cost oversight?

Choose 2 answers

A. Use AWS Consolidated Billing and disable AWS root account access for the child

accounts.

B. Enable IAM cross-account access for all corporate IT administrators in each child

account.

C. Create separate VPCs for each division within the corporate IT AWS account.

D. Use AWS Consolidated Billing to link the divisions' accounts to a parent corporate

account.

E. Write all child AWS CloudTrail and Amazon CloudWatch logs to each child account's

Amazon S3 'Log' bucket.

Answer: D,E

Question No: 231 - (Topic 3)

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If I want my instance to run on a single-tenant hardware, which value do I have to set the instance's tenancy attribute to?

- A. dedicated
- B. isolated
- C. one
- D. reserved
- Answer: A

Question No: 232 - (Topic 3)

After launching an instance that you intend to serve as a NAT (Network Address

Translation) device in a public subnet you modify your route tables to have the NAT device
be the target of internet bound traffic of your private subnet. When you try and make an

outbound connection to the internet from an instance in the private subnet, you are not

successful. Which of the following steps could resolve the issue?

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- A. Disabling the Source/Destination Check attribute on the NAT instance
- B. Attaching an Elastic IP address to the instance in the private subnet
- C. Attaching a second Elastic Network Interface (ENI) to the NAT instance, and placing it in the private subnet

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D. Attaching a second Elastic Network Interface (ENI) to the instance in the private subne
and placing it in the public subnet
Answer: A
Reference:
http://docs.aws.amazon.com/workspaces/latest/adminguide/gsg_create_vpc.html
Question No : 233 - (Topic 3)
What does Amazon SES stand for?
A. Simple Elastic Server
B. Simple Email Service
C. Software Email Solution
D. Software Enabled Server
Answer: B
Question No : 234 - (Topic 3)
Is the SQL Server Audit feature supported in the Amazon RDS SQL Server engine?
A. No
B. Yes
Answer: A
Question No : 235 - (Topic 3)
Every user you create in the IAM system starts with

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A. full permissions

B. no permissions

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C. partial permissions

Answer: B

Question No: 236 - (Topic 3)

Amazon EC2 provides a repository of public data sets that can be seamlessly integrated into AWS cloud-based applications. What is the monthly charge for using the public data sets?

A. A 1 time charge of 10\$ for all the datasets.

B. 1\$ per dataset per month

C. 10\$ per month for all the datasets

D. There is no charge for using the public data sets

Answer: D

Question No: 237 - (Topic 3)

A company has a workflow that sends video files from their on-premise system to AWS for transcoding. They use EC2 worker instances that pull transcoding jobs from SQS. Why is SQS an appropriate service for this scenario?

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A. SQS guarantees the order of the messages.
B. SQS synchronously provides transcoding output.
C. SQS checks the health of the worker instances.
D. SQS helps to facilitate horizontal scaling of encoding tasks.
Answer: D
Question No: 238 - (Topic 3)
In the context of MySQL, version numbers are organized as MySQL version = X.Y.Z. What
does X denote here?
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A. release level
B. minor version
C. version number
D. major version
Answer: D
Question No: 239 - (Topic 3)
Does Route 53 support MX Records?
A. Yes.

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B. It supports CNAME records, but not MX records.

C. No
D. Only Primary MX records. Secondary MX records are not supported.
Answer: A
Question No : 240 - (Topic 3)
A Provisioned IOPS volume must be at least GB in size
A. 1
B. 50
C. 20
D. 10
Answer: D
Question No : 241 - (Topic 3)
Do the Amazon EBS volumes persist independently from the running life of an Amazon
EC2 instance?
A. No
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B. Only if instructed to when created
C. Yes
Answer: C

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Question No: 242 - (Topic 3)

Does Amazon Route 53 support NS Records?

A. Yes, it supports Name Service records.

B. No

C. It supports only MX records.

D. Yes, it supports Name Server records.

Answer: D

Question No: 243 - (Topic 3)

A company is storing data on Amazon Simple Storage Service (S3). The company's security policy mandates that data is encrypted at rest. Which of the following methods can achieve this?

Choose 3 answers

A. Use Amazon S3 server-side encryption with AWS Key Management Service managed keys.

- B. Use Amazon S3 server-side encryption with customer-provided keys.
- C. Use Amazon S3 server-side encryption with EC2 key pair.
- D. Use Amazon S3 bucket policies to restrict access to the data at rest.
- E. Encrypt the data on the client-side before ingesting to Amazon S3 using their own master key.

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F. Use SSL to encrypt the data while in transit to Amazon S3.

Answer: A,B,E

Reference: http://docs.aws.amazon.com/AmazonS3/latest/dev/UsingKMSEncryption.htm
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Question No : 244 - (Topic 3)
Location of Instances are
A. Regional
B. based on Availability Zone
C. Global
Answer: B
Question No : 245 - (Topic 3)
Can I use Provisioned IOPS with VPC?
A. Only Oracle based RDS
B. No
C. Only with MSSQL based RDS
D. Yes for all RDS instances
Answer: D
Question No : 246 - (Topic 3)

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An Auto-Scaling group spans 3 AZs and currently has 4 running EC2 instances. When

Auto Scaling needs to terminate an EC2 instance by default, AutoScaling will:

Choose 2 answers

A. Allow at least five minutes for Windows/Linux shutdown scripts to complete, before

terminating the instance.

B. Terminate the instance with the least active network connections. If multiple instances

meet this criterion, one will be randomly selected.

C. Send an SNS notification, if configured to do so.

D. Terminate an instance in the AZ which currently has 2 running EC2 instances.

E. Randomly select one of the 3 AZs, and then terminate an instance in that AZ.

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Answer: C,D

Question No: 247 - (Topic 3)

You have a video transcoding application running on Amazon EC2. Each instance polls a

queue to find out which video should be transcoded, and then runs a transcoding process.

If this process is interrupted, the video will be transcoded by another instance based on the

queuing system. You have a large backlog of videos which need to be transcoded and

would like to reduce this backlog by adding more instances. You will need these instances

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only until the backlog is reduced. Which type of Amazon EC2 instances should you use to reduce the backlog in the most cost efficient way?

- A. Reserved instances
- **B.** Spot instances
- C. Dedicated instances
- D. On-demand instances

Answer: B

Reference: http://aws.amazon.com/ec2/purchasing-options/spot-instances/

Question No: 248 - (Topic 3)

What does the "Server Side Encryption" option on Amazon S3 provide?

- A. It provides an encrypted virtual disk in the Cloud.
- B. It doesn't exist for Amazon S3, but only for Amazon EC2.
- C. It encrypts the files that you send to Amazon S3, on the server side.
- D. It allows to upload files using an SSL endpoint, for a secure transfer.

Answer: A

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Question No: 249 - (Topic 3)

What is a Security Group?

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A. None of these.

B. A list of users that can access Amazon EC2 instances.

C. An Access Control List (ACL) for AWS resources.

D. A firewall for inbound traffic, built-in around every Amazon EC2 instance.

Answer: D

Question No: 250 - (Topic 3)

Is there a limit to the number of groups you can have?

A. Yes for all users except root

B. No

C. Yes unless special permission granted

D. Yes for all users

Answer: D

Question No: 251 - (Topic 3)

A customer needs to capture all client connection information from their load balancer every five minutes. The company wants to use this data for analyzing traffic patterns and troubleshooting their applications. Which of the following options meets the customer requirements?

A. Enable AWS CloudTrail for the load balancer.

B. Enable access logs on the load balancer.

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C. Install the Amazon CloudWatch Logs agent on the load balancer.

D. Enable Amazon CloudWatch metrics on the load balancer.

Answer: A

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Question No: 252 - (Topic 3)

When using consolidated billing there are two account types. What are they?

- A. Paying account and Linked account
- B. Parent account and Child account
- C. Main account and Sub account.
- D. Main account and Secondary account.

Answer: A

Question No: 253 - (Topic 3)

Which of the following features ensures even distribution of traffic to Amazon EC2

instances in multiple Availability Zones registered with a load balancer?

- A. Elastic Load Balancing request routing
- B. An Amazon Route 53 weighted routing policy
- C. Elastic Load Balancing cross-zone load balancing
- D. An Amazon Route 53 latency routing policy

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Answer: C
Reference: http://aws.amazon.com/elasticloadbalancing/
Question No : 254 - (Topic 3)
Fill in the blanks: is a durable, block-level storage volume that you can attach to a
single, running Amazon EC2 instance.
A. Amazon S3
B. Amazon EBS
C. None of these
D. All of these
Answer: B
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Question No : 255 - (Topic 3)
Does Dynamic DB support in-place atomic updates?
A. It is not defined
B. No
C. Yes
D. It does support in-place non-atomic updates
Answer: C

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Question No : 256 - (Topic 3)
Can I attach more than one policy to a particular entity?
A. Yes always
B. Only if within GovCloud
C. No
D. Only if within VPC
Answer: A
Question No: 257 - (Topic 3)
Are you able to integrate a multi-factor token service with the AWS Platform?
A. No, you cannot integrate multi-factor token devices with the AWS platform.
B. Yes, you can integrate private multi-factor token devices to authenticate users to the
AWS platform.
C. Yes, using the AWS multi-factor token devices to authenticate users on the AWS
platform.
Answer: C
Question No: 258 - (Topic 3)
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REST or Query requests are HTTP or HTTPS requests that use an HTTP verb (such as

GET or POST) and a parameter named Action or Operation that specifies the API you are

calling.
A. FALSE
B. TRUE
Answer: B
Question No: 259 - (Topic 3)
Regarding the attaching of ENI to an instance, what does 'warm attach' refer to?
A. Attaching an ENI to an instance when it is stopped.
B. This question doesn't make sense.
C. Attaching an ENI to an instance when it is running
D. Attaching an ENI to an instance during the launch process
Answer: A
Question No: 260 - (Topic 3)
If your DB instance runs out of storage space or file system resources, its status will
change to and your DB Instance will no longer be available.
A. storage-overflow
B. storage-full
C. storage-exceed
D. storage-overage

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Answer:	В
---------	---

Question No: 261 - (Topic 3)

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How can you secure data at rest on an EBS volume?

- A. Attach the volume to an instance using EC2's SSL interface.
- B. Write the data randomly instead of sequentially.
- C. Encrypt the volume using the S3 server-side encryption service.
- D. Create an IAM policy that restricts read and write access to the volume.
- E. Use an encrypted file system on top of the EBS volume.

Answer: E

Reference: https://aws.amazon.com/blogs/aws/protect-your-data-with-new-ebs-encryption/

Question No: 262 - (Topic 3)

What's an ECU?

- A. Extended Cluster User.
- B. None of these.
- C. Elastic Computer Usage.
- D. Elastic Compute Unit.

Answer: D

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Question No: 263 - (Topic 3) Amazon EC2 has no Amazon Resource Names (ARNs) because you can't specify a particular Amazon EC2 resource in an IAM policy. A. TRUE B. FALSE Answer: A Question No: 264 - (Topic 3) Which of the following are characteristics of Amazon VPC subnets? Choose 2 answers Leaders in it certification 125 A. Each subnet spans at least 2 Availability Zones to provide a high-availability environment. B. Each subnet maps to a single Availability Zone. C. CIDR block mask of/25 is the smallest range supported. D. By default, all subnets can route between each other, whether they are private or public. E. Instances in a private subnet can communicate with the Internet only if they have an Elastic IP.

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Answer: B,E

Question No: 265 - (Topic 3)

Do the system resources on the Micro instance meet the recommended configuration for Oracle?

A. Yes completely

B. Yes but only for certain situations

C. Not in any circumstance

Answer: B

Question No: 266 - (Topic 3)

What does Amazon RDS stand for?

A. Regional Data Server.

B. Relational Database Service.

C. Nothing.

D. Regional Database Service.

Answer: B

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Question No: 267 - (Topic 3)

What does Amazon Elastic Beanstalk provide?

A. An application container on top of Amazon Web Services.

B. A scalable storage appliance on top of Amazon Web Services.

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C. A scalable cluster of EC2 instances.
D. A service by this name doesn't exist.
Answer: A
Question No: 268 - (Topic 3)
A is a document that provides a formal statement of one or more permissions
A. policy
B. permission
C. Role
D. resource
Answer: A
Question No: 269 - (Topic 3)
You are using an m1.small EC2 Instance with one 300 GB EBS volume to host a relational
database. You determined that write throughput to the database needs to be increased.
Which of the following approaches can help achieve this? Choose 2 answers
A. Use an array of EBS volumes.
B. Enable Multi-AZ mode.
C. Place the instance in an Auto Scaling Groups
D. Add an EBS volume and place into RAID 5.
E. Increase the size of the EC2 Instance.

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F. Put the database behind an Elastic Load Balancer.

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Answer: A, E

Question No: 270 - (Topic 3)

A company needs to deploy virtual desktops to its customers in a virtual private cloud,

leveraging existing security controls. Which set of AWS services and features will meet the

company's requirements?

A. Virtual Private Network connection. AWS Directory Services, and ClassicLink

B. Virtual Private Network connection. AWS Directory Services, and Amazon Workspaces

C. AWS Directory Service, Amazon Workspaces, and AWS Identity and Access

Management

D. Amazon Elastic Compute Cloud, and AWS Identity and Access Management

Answer: C

Question No: 271 - (Topic 3)

A company wants to implement their website in a virtual private cloud (VPC). The web tier

will use an Auto Scaling group across multiple Availability Zones (AZs). The database will

use Multi-AZ RDS MySQL and should not be publicly accessible. What is the minimum

number of subnets that need to be configured in the VPC?

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A. 1
B. 2
C. 3
D. 4
Answer: B
Question No : 272 - (Topic 3)
How can an EBS volume that is currently attached to an EC2 instance be migrated from
one Availability Zone to another?
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A. Detach the volume and attach it to another EC2 instance in the other AZ.
B. Simply create a new volume in the other AZ and specify the original volume as the
source.
C. Create a snapshot of the volume, and create a new volume from the snapshot in the
other AZ.
D. Detach the volume, then use the ec2-migrate-volume command to move it to anothe
AZ.
Answer: C
Question No : 273 - (Topic 3)

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If you're unable to connect via SSH to your EC2 instance, which of the following should you check and possibly correct to restore connectivity?

- A. Adjust Security Group to permit egress traffic over TCP port 443 from your IP.
- B. Configure the IAM role to permit changes to security group settings.
- C. Modify the instance security group to allow ingress of ICMP packets from your IP.
- D. Adjust the instance's Security Group to permit ingress traffic over port 22 from your IP.
- E. Apply the most recently released Operating System security patches.

Answer: D

Question No: 274 - (Topic 3)

What are characteristics of Amazon S3? Choose 2 answers

- A. S3 allows you to store objects of virtually unlimited size.
- B. S3 offers Provisioned IOPS.
- C. S3 allows you to store unlimited amounts of data.
- D. S3 should be used to host a relational database.
- E. Objects are directly accessible via a URL.

Answer: C,E Reference:

http://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/privatecontentrestricting-access-to-s3.html

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Question No: 275 - (Topic 3)

Select the correct set of steps for exposing the snapshot only to specific AWS accounts

A. Select public for all the accounts and check mark those accounts with whom you want

to expose the snapshots and click save.

B. SelectPrivate, enter the IDs of those AWS accounts, and clickSave.

C. SelectPublic, enter the IDs of those AWS accounts, and clickSave.

D. SelectPublic, mark the IDs of those AWS accounts as private, and clickSave.

Answer: B

Question No: 276 - (Topic 3)

A customer is leveraging Amazon Simple Storage Service in eu-west-1 to store static content for a web-based property. The customer is storing objects using the Standard

Storage class. Where are the customers objects replicated?

A. A single facility in eu-west-1 and a single facility in eu-central-1

B. A single facility in eu-west-1 and a single facility in us-east-1

C. Multiple facilities in eu-west-1

D. A single facility in eu-west-1

Answer: C

Question No: 277 - (Topic 3)

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when automatic ranover occurs, Amazon NDS will emit a DB instance event to inform you
that automatic failover occurred. You can use the to return information about event
related to your DB Instance
A. FetchFailure
B. DescriveFailure
C. DescribeEvents
Leaders in it certification 130
D. FetchEvents
Answer: C
Question No : 278 - (Topic 3)
Is there any way to own a direct connection to Amazon Web Services?
A. You can create an encrypted tunnel to VPC, but you don't own the connection.
B. Yes, it's called Amazon Dedicated Connection.
C. No, AWS only allows access from the public Internet.
D. Yes, it's called Direct Connect.
Answer: D
Question No : 279 - (Topic 3)
True or False: If you add a tag that has the same key as an existing tag on a DB Instance.

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the new value overwrites the old value. A. FALSE B. TRUE Answer: B Question No: 280 - (Topic 3) Does Amazon RDS for SQL Server currently support importing data into the msdb database? A. No B. Yes Answer: A Leaders in it certification 131 Question No: 281 - (Topic 3) In order to optimize performance for a compute cluster that requires low inter-node latency, which of the following feature should you use? A. Multiple Availability Zones **B. AWS Direct Connect** C. EC2 Dedicated Instances

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D. Placement Groups

E. VPC private subnets
Answer: D
Reference: http://aws.amazon.com/ec2/faqs/ (enhanced networking)
Question No : 282 - (Topic 3)
Without, you must either create multiple AWS accounts-each with its own billing an
subscriptions to AWS products-or your employees must share the security credentials of a
single AWS account.
A. Amazon RDS
B. Amazon Glacier
C. Amazon EMR
D. Amazon IAM
Answer: D
Question No : 283 - (Topic 3)
Security groups act like a firewall at the instance level, whereas are an
additional layer of security that act at the subnet level.
Leaders in it certification 132
A. DB Security Groups
B. VPC Security Groups

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C. network ACLs

Answer: C

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Question No: 284 - (Topic 3)

My Read Replica appears "stuck" after a Multi-AZ failover and is unable to obtain or apply updates from the source DB Instance. What do I do?

- A. You will need to delete the Read Replica and create a new one to replace it.
- B. You will need to disassociate the DB Engine and re associate it.
- C. The instance should be deployed to Single AZ and then moved to Multi- AZ once again
- D. You will need to delete the DB Instance and create a new one to replace it.

Answer: A

Question No: 285 - (Topic 3)

Select the incorrect statement

A. In Amazon EC2, the private IP addresses only returned to Amazon EC2 when the instance is stopped or terminated

- B. In Amazon VPC, an instance retains its private IP addresses when the instance is stopped.
- C. In Amazon VPC, an instance does NOT retain its private IP addresses when the

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instance is stopped. D. In Amazon EC2, the private IP address is associated exclusively with the instance for its lifetime Answer: C Question No: 286 - (Topic 3) The _____ service is targeted at organizations with multiple users or systems that use AWS products such as Amazon EC2, Amazon SimpleDB, and the AWS Management Console. A. Amazon RDS B. AWS Integrity Management C. AWS Identity and Access Management Leaders in it certification 134 D. Amazon EMR Answer: C Question No: 287 - (Topic 3) You are building a solution for a customer to extend their on-premises data center to AWS. The customer requires a 50-Mbps dedicated and private connection to their VPC. Which

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AWS product or feature satisfies this requirement?

A. Amazon VPC peering
B. Elastic IP Addresses
C. AWS Direct Connect
D. Amazon VPC virtual private gateway
Answer: C
Question No : 288 - (Topic 3)
After an Amazon VPC instance is launched, can I change the VPC security groups it
belongs to?
A. No. You cannot.
B. Yes. You can.
C. Only if you are the root user
D. Only if the tag "VPC_Change_Group" is true
Answer: B
Question No : 289 - (Topic 3)
HTTP Query-based requests are HTTP requests that use the HTTP verb GET or POST
and a Query parameter named
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A. Action

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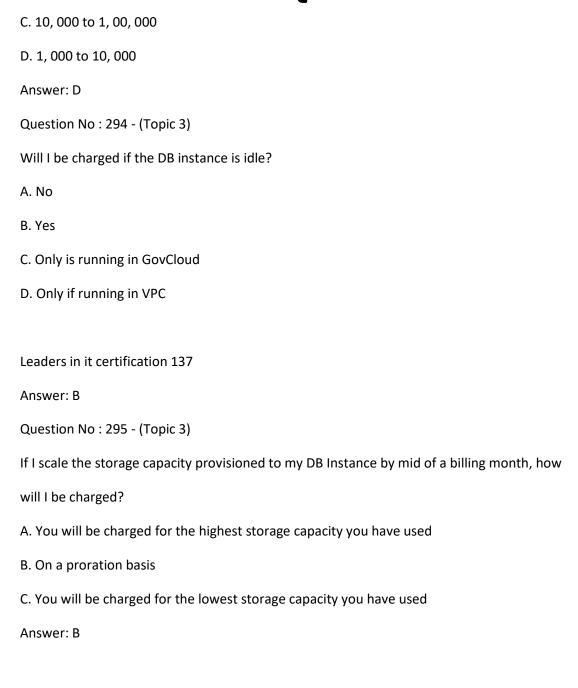
B. Value
C. Reset
D. Retrieve
Answer: A
Question No : 290 - (Topic 3)
It is advised that you watch the Amazon CloudWatch "" metric (available via the
AWS Management Console or Amazon Cloud Watch APIs) carefully and recreate the
Read
Replica should it fall behind due to replication errors.
A. Write Lag
B. Read Replica
C. Replica Lag
D. Single Replica
Answer: C
Question No : 291 - (Topic 3)
Is there a method in the IAM system to allow or deny access to a specific instance?
A. Only for VPC based instances
B. Yes
C. No

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Answer: C

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Question No: 292 - (Topic 3)
What happens to the I/O operations while you take a database snapshot?
A. I/O operations to the database are suspended for an hour while the backup is in
progress.
B. I/O operations to the database are sent to a Replica (if available) for a few minutes while
the backup is in progress.
C. I/O operations will be functioning normally
D. I/O operations to the database are suspended for a few minutes while the backup is in
progress.
Answer: D
Question No: 293 - (Topic 3)
If you are using Amazon RDS Provisioned IOPS storage with MySQL and Oracle database
engines, you can scale the throughput of your database Instance by specifying the IOPS
rate from
A. 1,000 to 1, 00, 000
B. 100 to 1, 000

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Leaders in it certification 138 Question No: 296 - (Topic 3) Is creating a Read Replica of another Read Replica supported? A. Only in VPC B. Yes C. Only in certain regions D. No Answer: D Question No: 297 - (Topic 3) Which of the following items are required to allow an application deployed on an EC2 instance to write data to a DynamoDB table? Assume that no security keys are allowed to be stored on the EC2 instance. (Choose 2 answers) A. Create an IAM Role that allows write access to the DynamoDB table. B. Add an IAM Role to a running EC2 instance. C. Create an IAM User that allows write access to the DynamoDB table. D. Add an IAM User to a running EC2 instance. E. Launch an EC2 Instance with the IAM Role included in the launch configuration. Answer: A,E

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Reference:
http://docs.aws.amazon.com/amazondynamodb/latest/developerguide/TicTacToe.Phase3
html
Question No : 298 - (Topic 3)
Can I encrypt connections between my application and my DB Instance using SSL?
Leaders in it certification 139
A. No
B. Yes
C. Only in VPC
D. Only in certain regions
Answer: B
Question No : 299 - (Topic 3)
Making your snapshot public shares all snapshot data with everyone. Can the snapshots
with AWS Marketplace product codes be made public?
A. No
B. Yes
Answer: B

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Question No: 300 - (Topic 3) Is decreasing the storage size of a DB Instance permitted? A. Depends on the RDMS used B. Yes C. No Answer: C Question No: 301 - (Topic 3) What does Amazon Route53 provide? A. A global Content Delivery Network. B. None of these. C. A scalable Domain Name System. D. An SSH endpoint for Amazon EC2. Leaders in it certification 140 Answer: C Question No: 302 - (Topic 3) Per the AWS Acceptable Use Policy, penetration testing of EC2 instances: A. May be performed by AWS, and will be performed by AWS upon customer request.

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B. May be performed by AWS, and is periodically performed by AWS.

C. Are expressly prohibited under all circumstance	C	Are	expressly	prohibited	under all	circumstance
--	---	-----	-----------	------------	-----------	--------------

D. May be performed by the customer on their own instances with prior authorization from AWS.

E. May be performed by the customer on their own instances, only if performed from EC2

instances

Answer: D

Reference: http://aws.amazon.com/security/penetration-testing/

Question No: 303 - (Topic 3)

A client application requires operating system privileges on a relational database server.

What is an appropriate configuration for a highly available database architecture?

A. A standalone Amazon EC2 instance

B. Amazon RDS in a Multi-AZ configuration

C. Amazon EC2 instances in a replication configuration utilizing a single Availability Zone

D. Amazon EC2 instances in a replication configuration utilizing two different Availability

Zones

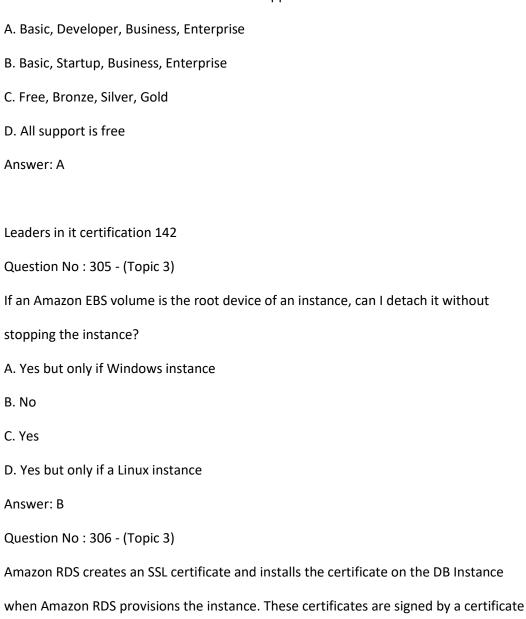
Answer: D

Question No: 304 - (Topic 3)

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What are the four levels of AWS Premium Support?



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authority. The is stored athttps://rds.amazonaws.com/doc/rds-ssl-ca-cert.pem.
A. private key
B. foreign key
C. public key
D. protected key
Answer: A
Question No: 307 - (Topic 3)
The new DB Instance that is created when you promote a Read Replica retains the backup
window period.
A. TRUE
B. FALSE
Answer: A
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Question No: 308 - (Topic 3)
You have launched an Amazon Elastic Compute Cloud (EC2) instance into a public subnet
with a primary private IP address assigned, an internet gateway is attached to the VPC,

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and the public route table is configured to send all Internet-based traffic to the Internet

gateway. The instance security group is set to allow all outbound traffic but cannot access

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the internet. Why is the Internet unreachable from this instance?

the internet. Why is the internet unreachable from this instance:
A. The instance does not have a public IP address.
B. The internet gateway security group must allow all outbound traffic.
C. The instance security group must allow all inbound traffic.
D. The instance "Source/Destination check" property must be enabled.
Answer: A
Question No: 309 - (Topic 3)
If you have chosen Multi-AZ deployment, in the event of a planned or unplanned outage of
your primary DB Instance, Amazon RDS automatically switches to the standby replica. The
automatic failover mechanism simply changes the record of the main DB Instance
to point to the standby DB Instance.
A. DNAME
B. CNAME
C. TXT
D. MX
Answer: B
Question No: 310 - (Topic 3)
When you use the AWS Management Console to delete an IAM user, IAM also deletes any
signing certificates and any access keys belonging to the user.

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A. FALSE
B. This is configurable
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C. TRUE
Answer: C
Question No: 311 - (Topic 3)
You are working with a customer who has 10 TB of archival data that they want to migrate
to Amazon Glacier. The customer has a 1-Mbps connection to the Internet. Which service
or feature provides the fastest method of getting the data into Amazon Glacier?
A. Amazon Glacier multipart upload
B. AWS Storage Gateway
C. VM Import/Export
D. AWS Import/Export
Answer: A
Question No : 312 - (Topic 3)
Can the string value of 'Key' be prefixed with :aws:"?
A. Only in GovCloud

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B. Only for S3 not EC2

C. Yes

D. No

Answer: D

Question No: 313 - (Topic 3)

Which of the following are characteristics of a reserved instance? Choose 3 answers

A. It can be migrated across Availability Zones

B. It is specific to an Amazon Machine Image (AMI)

C. It can be applied to instances launched by Auto Scaling

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D. It is specific to an instance Type

E. It can be used to lower Total Cost of Ownership (TCO) of a system

Answer: C,D,E

Question No: 314 - (Topic 3)

You have a web application running on six Amazon EC2 instances, consuming about 45% of resources on each instance. You are using auto-scaling to make sure that six instances are running at all times. The number of requests this application processes is consistent and does not experience spikes. The application is critical to your business and you want high availability at all times. You want the load to be distributed evenly between all

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instances. You also want to use the same Amazon Machine Image (AMI) for all instances.

Which of the following architectural choices should you make?

A. Deploy 6 EC2 instances in one availability zone and use Amazon Elastic Load

Balancer. B. Deploy 3 EC2 instances in one region and 3 in another region and use

Amazon Elastic Load Balancer.

C. Deploy 3 EC2 instances in one availability zone and 3 in another availability zone and use Amazon Elastic Load Balancer.

D. Deploy 2 EC2 instances in three regions and use Amazon Elastic Load Balancer.

Answer: C

Reference: https://media.amazonwebservices.com/pdf/AWS_Security_Whitepaper.pdf

(page 8)

Question No: 315 - (Topic 3)

Can I initiate a "forced failover" for my MySQL Multi-AZ DB Instance deployment?

A. Only in certain regions

B. Only in VPC

C. Yes

D. No

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Answer: C
Question No : 316 - (Topic 3)
Because of the extensibility limitations of striped storage attached to Windows Server,
Amazon RDS does not currently support increasing storage on a DB Instance.
A. SQL Server
B. MySQL
Leaders in it certification 147
C. Oracle
Answer: A
Question No : 317 - (Topic 3)
Which DNS name can only be resolved within Amazon EC2?
A. Internal DNS name
B. External DNS name
C. Global DNS name
D. Private DNS name
Answer: A
Question No : 318 - (Topic 3)
The one-time payment for Reserved Instances is refundable if the reservation

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is cancelled.
A. always
B. in some circumstances
C. never
Answer: C
Question No : 319 - (Topic 3)
Please select the Amazon EC2 resource which can be tagged.
A. key pairs
B. Elastic IP addresses
C. placement groups
Leaders in it certification 148
D. Amazon EBS snapshots
Answer: C
Question No: 320 - (Topic 3)
Which procedure for backing up a relational database on EC2 that is using a set of RAIDed
EBS volumes for storage minimizes the time during which the database cannot be written
to and results in a consistent backup?
A. 1. Detach EBS volumes, 2. Start EBS snapshot of volumes, 3. Re-attach EBS volumes

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B. 1	. Sto	the	EC2	Instance.	2.	Sna	pshot	the	EBS	volu	mes
------	-------	-----	-----	-----------	----	-----	-------	-----	------------	------	-----

C. 1. Suspend disk I/O, 2. Create an image of the EC2 Instance, 3. Resume disk I/O

D. 1. Suspend disk I/O, 2. Start EBS snapshot of volumes, 3. Resume disk I/O E. 1.

Suspend disk I/O, 2. Start EBS snapshot of volumes, 3. Wait for snapshots to complete,

4. Resume disk I/O

Answer: A

Reference: http://media.amazonwebservices.com/AWS_Storage_Options.pdf (page 11)

Question No: 321 - (Topic 3)

Which AWS instance address has the following characteristics? :"If you stop an instance,

its Elastic IP address is unmapped, and you must remap it when you restart the instance."

A. Both A and B

B. None of these

C. VPC Addresses

D. EC2 Addresses

Answer: A

Question No: 322 - (Topic 3)

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When you resize the Amazon RDS DB instance, Amazon RDS will perform the upgrade

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during the next maintenance window. If you want the upgrade to be performed now, rathe
than waiting for the maintenance window, specify the option.
A. ApplyNow
B. ApplySoon
C. ApplyThis
D. ApplyImmediately
Answer: D
Question No: 323 - (Topic 3)
What is an isolated database environment running in the cloud (Amazon RDS) called?
A. DB Instance
B. DB Unit
C. DB Server
D. DB Volume
Answer: A
Question No: 324 - (Topic 3)
A customer wants to leverage Amazon Simple Storage Service (S3) and Amazon Glacier
as part of their backup and archive infrastructure. The customer plans to use third-party
software to support this integration. Which approach will limit the access of the third party
software to only the Amazon S3 bucket named "company-backup"?

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A. A custom bucket policy limited to the Amazon S3 API in thee Amazon Glacier archive

"company-backup"

B. A custom bucket policy limited to the Amazon S3 API in "company-backup"

C. A custom IAM user policy limited to the Amazon S3 API for the Amazon Glacier archive

"company-backup".

D. A custom IAM user policy limited to the Amazon S3 API in "company-backup".

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Answer: D

Question No: 325 - (Topic 3)

You are configuring your company's application to use Auto Scaling and need to move user state information. Which of the following AWS services provides a shared data store with durability and low latency?

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A. AWS ElastiCache Memcached

B. Amazon Simple Storage Service

C. Amazon EC2 instance storage

D. Amazon DynamoDB

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Answer: B

Reference: https://d36cz9buwru1tt.cloudfront.net/AWS_Overview.pdf (page 13, aws

storage gateway)

Question No: 326 - (Topic 3)

What is the name of licensing model in which I can use your existing Oracle Database

licenses to run Oracle deployments on Amazon RDS?

A. Bring Your Own License

B. Role Bases License

C. Enterprise License

D. License Included

Answer: A

Question No: 327 - (Topic 3)

If I want to run a database in an Amazon instance, which is the most recommended

Amazon storage option?

A. Amazon Instance Storage

B. Amazon EBS

C. You can't run a database inside an Amazon instance.

D. Amazon S3

Answer: B

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Question No: 328 - (Topic 3)
Because of the extensibility limitations of striped storage attached to Windows Server
Amazon RDS does not currently support increasing storage on a DB Instance.
A. SQL Server
B. MySQL
C. Oracle
Answer: A
Question No: 329 - (Topic 3)
When creation of an EBS snapshot is initiated, but not completed, the EBS volume:
A. Can be used while the snapshot is in progress.
B. Cannot be detached or attached to an EC2 instance until the snapshot completes
C. Can be used in read-only mode while the snapshot is in progress.
D. Cannot be used until the snapshot completes.
Answer: C
Question No: 330 - (Topic 3)
After an Amazon VPC instance is launched, can I change the VPC security groups it
belongs to?

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A. Only if the tag "VPC_Change_Group" is true

B. Yes. You can.

C. No. You cannot.

D. Only if the tag "VPC Change Group" is true

Answer: B

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Question No: 331 - (Topic 3)

You have an environment that consists of a public subnet using Amazon VPC and 3

instances that are running in this subnet. These three instances can successfully

communicate with other hosts on the Internet. You launch a fourth instance in the same

subnet, using the same AMI and security group configuration you used for the others, but

find that this instance cannot be accessed from the internet. What should you do to enable

Internet access?

A. Deploy a NAT instance into the public subnet.

B. Assign an Elastic IP address to the fourth instance.

C. Configure a publically routable IP Address in the host OS of the fourth instance.

D. Modify the routing table for the public subnet.

Answer: B

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Question No : 332 - (Topic 3)
MySQL installations default to port
A. 3306
B. 443
C. 80
D. 1158
Answer: A
Question No : 333 - (Topic 3)
What does Amazon EBS stand for?
A. Elastic Block Storage
B. Elastic Business Server
C. Elastic Blade Server
D. Elastic Block Store
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Answer: D
Question No : 334 - (Topic 3)
Your application provides data transformation services. Files containing data to be
transformed are first uploaded to Amazon S3 and then transformed by a fleet of spot EC2

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instances. Files submitted by your premium customers must be transformed with the highest priority. How should you implement such a system?

A. Use a DynamoDB table with an attribute defining the priority level. Transformation instances will scan the table for tasks, sorting the results by priority level.

B. Use Route 53 latency based-routing to send high priority tasks to the closest transformation instances.

C. Use two SQS queues, one for high priority messages, the other for default priority.

Transformation instances first poll the high priority queue; if there is no message, they poll the default priority queue.

D. Use a single SQS queue. Each message contains the priority level. Transformation instances poll high-priority messages first.

Answer: C

Question No: 335 - (Topic 3)

The Amazon EC2 web service can be accessed using the _____ web services messaging protocol. This interface is described by a Web Services Description Language (WSDL) document.

A. SOAP

B. DCOM

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C. CORBA

D. XML-RPC

Answer: A

Question No: 336 - (Topic 3)

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A company is building a two-tier web application to serve dynamic transaction-based content. The data tier is leveraging an Online Transactional Processing (OLTP) database.

What services should you leverage to enable an elastic and scalable web tier?

- A. Elastic Load Balancing, Amazon EC2, and Auto Scaling
- B. Elastic Load Balancing, Amazon RDS with Multi-AZ, and Amazon S3
- C. Amazon RDS with Multi-AZ and Auto Scaling
- D. Amazon EC2, Amazon DynamoDB, and Amazon S3

Answer: A

Question No: 337 - (Topic 3)

Which of the following requires a custom CloudWatch metric to monitor?

- A. Memory Utilization of an EC2 instance
- B. CPU Utilization of an EC2 instance
- C. Disk usage activity of an EC2 instance
- D. Data transfer of an EC2 instance

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Answer: C

Reference: http://arr.gr/blog/2013/08/monitoring-ec2-instance-memory-usagewithcloudwatch/

Question No: 338 - (Topic 3)

Which technique can be used to integrate AWS IAM (Identity and Access Management)

with an on-premise LDAP (Lightweight Directory Access Protocol) directory service?

A. Use an IAM policy that references the LDAP account identifiers and the AWS

credentials.

B. Use SAML (Security Assertion Markup Language) to enable single sign-on between

AWS and LDAP.

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C. Use AWS Security Token Service from an identity broker to issue short-lived AWS

credentials.

D. Use IAM roles to automatically rotate the IAM credentials when LDAP credentials

are updated.

E. Use the LDAP credentials to restrict a group of users from launching specific EC2

instance types.

Answer: B

Question No: 339 - (Topic 3)

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In the 'Detailed' monitoring data available for your Amazon EBS volumes, Provisioned
IOPS volumes automatically send minute metrics to Amazon CloudWatch.
A. 5
B. 2
C. 1
D. 3
Answer: C
Question No: 340 - (Topic 3)
Is the encryption of connections between my application and my DB Instance using SSL
for the MySQL server engines available?
A. Yes
B. Only in VPC
C. Only in certain regions
D. No
Answer: A
Question No: 341 - (Topic 3)
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Can I detach the primary (eth0) network interface when the instance is running or stopped?

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A. Yes, You can.
B. No. You cannot
C. Depends on the state of the interface at the time
Answer: B
Question No: 342 - (Topic 3)
When an EC2 EBS-backed (EBS root) instance is stopped, what happens to the data on
any ephemeral store volumes?
A. Data is automatically saved in an EBS volume.
B. Data is unavailable until the instance is restarted.
C. Data will be deleted and will no longer be accessible.
D. Data is automatically saved as an EBS snapshot.
Answer: C
Question No: 343 - (Topic 3)
Fill in the blanks: "To ensure failover capabilities, consider using a for incoming
traffic on a network interface".
A. primary public IP
B. secondary private IP
C. secondary public IP
D. add on secondary IP

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change the
A. user name
B. password
C. default group
Answer: A
Question No : 347 - (Topic 3)
You are tasked with setting up a Linux bastion host for access to Amazon EC2 instances
running in your VPC. Only clients connecting from the corporate external public IP addres
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72.34.51.100 should have SSH access to the host. Which option will meet the customer
requirement?
A. Security Group Inbound Rule: Protocol - TCP. Port Range - 22, Source 72.34.51.100/32
B. Security Group Inbound Rule: Protocol - UDP, Port Range - 22, Source 72.34.51.100/32
C. Network ACL Inbound Rule: Protocol - UDP, Port Range - 22, Source 72.34.51.100/32
D. Network ACL Inbound Rule: Protocol - TCP, Port Range-22, Source 72.34.51.100/0
Answer: A
Question No : 348 - (Topic 3)
embodies the "share-nothing" architecture and essentially involves

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breaking a large database into several smaller databases. Common ways to split a database include 1) splitting tables that are not joined in the same query onto different hosts or 2) duplicating a table across multiple hosts and then using a hashing algorithm to determine which host receives a given update.

- A. Sharding
- B. Failure recovery
- C. Federation
- D. DDL operations

Answer: A

Question No: 349 - (Topic 3)

What happens when you create a topic on Amazon SNS?

- A. The topic is created, and it has the name you specified for it.
- B. An ARN (Amazon Resource Name) is created.
- C. You can create a topic on Amazon SQS, not on Amazon SNS.
- D. This question doesn't make sense.

Answer: B

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Question No: 350 - (Topic 3)

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Select the correct set of options. These are the initial settings for the default security group:

A. Allow no inbound traffic, Allow all outbound traffic and Allow instances associated with this security group to talk to each other

B. Allow all inbound traffic, Allow no outbound traffic and Allow instances associated with this security group to talk to each other

C. Allow no inbound traffic, Allow all outbound traffic and Does NOT allow instances associated with this security group to talk to each other

D. Allow all inbound traffic, Allow all outbound traffic and Does NOT allow instances associated with this security group to talk to each other

Answer: A

Question No: 351 - (Topic 3)

After creating a new IAM user which of the following must be done before they can successfully make API calls?

A. Add a password to the user.

B. Enable Multi-Factor Authentication for the user.

C. Assign a Password Policy to the user.

D. Create a set of Access Keys for the user.

Answer: D

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_SettingUpUser.html

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Question No: 352 - (Topic 3)

You run an ad-supported photo sharing website using S3 to serve photos to visitors of your

site. At some point you find out that other sites have been linking to the photos on your

site, causing loss to your business. What is an effective method to mitigate this?

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A. Remove public read access and use signed URLs with expiry dates.

B. Use CloudFront distributions for static content.

C. Block the IPs of the offending websites in Security Groups.

D. Store photos on an EBS volume of the web server.

Answer: A

Question No: 353 - (Topic 3)

If I have multiple Read Replicas for my master DB Instance and I promote one of them,

what happens to the rest of the Read Replicas?

A. The remaining Read Replicas will still replicate from the older master DB Instance

B. The remaining Read Replicas will be deleted

C. The remaining Read Replicas will be combined to one read replica

Answer: A

Question No: 354 - (Topic 3)

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The SQL Server fe	eature is an efficient means of copying data from a source
database to your DB Ins	tance. It writes the data that you specify to a data file, such as an
ASCII file.	
A. bulk copy	
B. group copy	
C. dual copy	
D. mass copy	
Answer: A	
Question No : 355 - (Top	pic 3)
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If I modify a DB Instance	e or the DB parameter group associated with the instance, should I
reboot the instance for	the changes to take effect?
A. No	
B. Yes	
Answer: B	
Question No : 356 - (To	pic 3)
You need to configure a	n Amazon S3 bucket to serve static assets for your public-facing
web application. Which	methods ensure that all objects uploaded to the bucket are set to

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public read? Choose 2 answers

- A. Set permissions on the object to public read during upload.
- B. Configure the bucket ACL to set all objects to public read.
- C. Configure the bucket policy to set all objects to public read.
- D. Use AWS Identity and Access Management roles to set the bucket to public read.
- E. Amazon S3 objects default to public read, so no action is needed.

Answer: A,C

Question No: 357 - (Topic 3)

What is the maximum response time for a Business level Premium Support case?

- A. 30 minutes
- B. You always get instant responses (within a few seconds).
- C. 10 minutes
- D. 1 hour

Answer: D

Question No: 358 - (Topic 3)

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Which Amazon storage do you think is the best for my database-style applications that

frequently encounter many random reads and writes across the dataset?

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- A. None of these.
- B. Amazon Instance Storage
- C. Any of these
- D. Amazon EBS

Answer: D

Question No: 359 - (Topic 3)

When an EC2 instance that is backed by an S3-based AMI is terminated, what happens to

the data on the root volume?

- A. Data is automatically saved as an EBS snapshot.
- B. Data is automatically saved as an EBS volume.
- C. Data is unavailable until the instance is restarted.
- D. Data is automatically deleted.

Answer: D

Question No: 360 - (Topic 3)

How can the domain's zone apex, for example, "myzoneapexdomain.com", be pointed

towards an Elastic Load Balancer?

- A. By using an Amazon Route 53 Alias record
- B. By using an AAAA record
- C. By using an Amazon Route 53 CNAME record

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D. By using an A record
Answer: A
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Question No : 361 - (Topic 3)
A group can contain many users. Can a user belong to multiple groups?
A. Yes always
B. No
C. Yes but only if they are using two factor authentication
D. Yes but only in VPC
Answer: A
Question No : 362 - (Topic 3)
A is the concept of allowing (or disallowing) an entity such as a user, group,
or role some type of access to one or more resources.
A. user
B. AWS Account
C. resource
D. permission
Answer: B

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Question No: 363 - (Topic 3) For which of the following use cases are Simple Workflow Service (SWF) and Amazon EC2 an appropriate solution? Choose 2 answers A. Using as an endpoint to collect thousands of data points per hour from a distributed fleet of sensors B. Managing a multi-step and multi-decision checkout process of an e-commerce website C. Orchestrating the execution of distributed and auditable business processes D. Using as an SNS (Simple Notification Service) endpoint to trigger execution of video transcoding jobs E. Using as a distributed session store for your web application Leaders in it certification 165 Answer: B,C Question No: 364 - (Topic 3) Amazon RDS automated backups and DB Snapshots are currently supported for only the storage engine A. MyISAM B. InnoDB Answer: B

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Question No: 365 - (Topic 3) How are the EBS snapshots saved on Amazon S3? A. Exponentially B. Incrementally C. EBS snapshots are not stored in the Amazon S3 D. Decrementally Answer: B Question No: 366 - (Topic 3) Which Amazon Elastic Compute Cloud feature can you query from within the instance to access instance properties? A. Instance user data B. Resource tags C. Instance metadata D. Amazon Machine Image Answer: C Leaders in it certification 166 Question No: 367 - (Topic 3) Which of the following are valid statements about Amazon S3? Choose 2 answers

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- A. S3 provides read-after-write consistency for any type of PUT or DELETE.
- B. Consistency is not guaranteed for any type of PUT or DELETE.
- C. A successful response to a PUT request only occurs when a complete object is saved.
- D. Partially saved objects are immediately readable with a GET after an overwrite PUT.
- E. S3 provides eventual consistency for overwrite PUTS and DELETES.

Answer: C,E

Reference: http://api-portal.anypoint.mulesoft.com/amazon/api/amazons3api/

docs/concepts#DataConsistencyModel

Question No: 368 - (Topic 3)

Can I delete a snapshot of the root device of an EBS volume used by a registered AMI?

- A. Only via API
- B. Only via Console
- C. Yes
- D. No

Answer: D

Question No: 369 - (Topic 3)

True or False: When you add a rule to a DB security group, you do not need to specify port

number or protocol.

A. Depends on the RDMS used

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B. TRUE
C. FALSE
Answer: A
Question No: 370 - (Topic 3)
What does Amazon CloudFormation provide?
A. The ability to setup Autoscaling for Amazon EC2 instances.
B. None of these.
C. A templated resource creation for Amazon Web Services.
D. A template to map network resources for Amazon Web Services.
Answer: C
Question No: 371 - (Topic 3)
Please select the most correct answer regarding the persistence of the Amazon Instance
Store
A. The data on an instance store volume persists only during the life of the associated
Amazon EC2 instance
B. The data on an instance store volume is lost when the security group rule of the
associated instance is changed.

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C. The data on an instance store volume persists even after associated Amazon EC2

instance is deleted

Answer: A

When should I choose Provisioned IOPS over Standard RDS storage?

A. If you use production online transaction processing (OLTP) workloads.

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Question No: 372 - (Topic 3)

B. If you have batch-oriented workloads

C. If you have workloads that are not sensitive to consistent performance

Answer: A

Question No: 373 - (Topic 3)

Please select the Amazon EC2 resource which cannot be tagged.

A. images (AMIs, kernels, RAM disks)

B. Amazon EBS volumes

C. Elastic IP addresses

D. VPCs

Answer: C

Topic 4, Exam D

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Question No: 374 - (Topic 4)

You have been tasked with creating a VPC network topology for your company. The VPC network must support both Internet-facing applications and internally-facing applications accessed only over VPN. Both Internet-facing and internally-facing applications must be able to leverage at least three AZs for high availability. At a minimum, how many subnets must you create within your VPC to accommodate these requirements?

- A. 2
- B. 3
- C. 4
- D. 6

Answer: D

Question No: 375 - (Topic 4)

Which of the following are use cases for Amazon DynamoDB? Choose 3 answers

- A. Storing BLOB data.
- B. Managing web sessions.
- C. Storing JSON documents.
- D. Storing metadata for Amazon S3 objects.

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E. Running relational joins and complex updates.

F. Storing large amounts of infrequently accessed data.

Answer: B,C,D

Question No: 376 - (Topic 4)

A company has configured and peered two VPCs: VPC-1 and VPC-2. VPC-1 contains only

private subnets, and VPC-2 contains only public subnets. The company uses a single AWS

Direct Connect connection and private virtual interface to connect their on-premises

network with VPC-1. Which two methods increases the fault tolerance of the connection to

VPC-1? Choose 2 answers

A. Establish a hardware VPN over the internet between VPC-2 and the on-premises

network.

B. Establish a hardware VPN over the internet between VPC-1 and the on-premises

network.

C. Establish a new AWS Direct Connect connection and private virtual interface in the

same region as VPC-2.

D. Establish a new AWS Direct Connect connection and private virtual interface in a

different AWS region than VPC-1.

E. Establish a new AWS Direct Connect connection and private virtual interface in the

same AWS region as VPC-1

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Answer: B,C

Question No: 377 - (Topic 4)

A company has an AWS account that contains three VPCs (Dev, Test, and Prod) in the

same region. Test is peered to both Prod and Dev. All VPCs have non-overlapping CIDR

blocks. The company wants to push minor code releases from Dev to Prod to speed up

time to market. Which of the following options helps the company accomplish this?

A. Create a new peering connection Between Prod and Dev along with appropriate routes.

B. Create a new entry to Prod in the Dev route table using the peering connection as the

target.

C. Attach a second gateway to Dev. Add a new entry in the Prod route table identifying

the gateway as the target.

D. The VPCs have non-overlapping CIDR blocks in the same account. The route

tables contain local routes for all VPCs.

Answer: A

Reference: http://docs.aws.amazon.com/AmazonVPC/latest/PeeringGuide/vpc-pg.pdf

Question No: 378 - (Topic 4)

Which of the following is a durable key-value store?

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A. Amazon Simple Notification Service

B. Amazon Simple Workflow Service

C. Amazon Simple Queue Service

D. Amazon Simple Storage Service

Answer: D

Question No: 379 - (Topic 4)

A customer is running a multi-tier web application farm in a virtual private cloud (VPC) that

is not connected to their corporate network. They are connecting to the VPC over the

Internet to manage all of their Amazon EC2 instances running in both the public and

private subnets. They have only authorized the bastion-security-group with Microsoft

Remote Desktop Protocol (RDP) access to the application instance security groups, but

the company wants to further limit administrative access to all of the instances in the VPC.

Which of the following Bastion deployment scenarios will meet this requirement?

A. Deploy a Windows Bastion host on the corporate network that has RDP access to

all instances in the VPC.

B. Deploy a Windows Bastion host with an Elastic IP address in the public subnet and

allow SSH access to the bastion from anywhere.

C. Deploy a Windows Bastion host with an Elastic IP address in the private subnet,

and restrict RDP access to the bastion from only the corporate public IP addresses.

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D. Deploy a Windows Bastion host with an auto-assigned Public IP address in the

public subnet, and allow RDP access to the bastion from only the corporate public IP

addresses.

Answer: D

Question No: 380 - (Topic 4)

A customer has a single 3-TB volume on-premises that is used to hold a large repository of

images and print layout files. This repository is growing at 500 GB a year and must be

presented as a single logical volume. The customer is becoming increasingly constrained

with their local storage capacity and wants an off-site backup of this data, while maintaining

low-latency access to their frequently accessed data. Which AWS Storage Gateway

configuration meets the customer requirements?

A. Gateway-Cached volumes with snapshots scheduled to Amazon S3

B. Gateway-Stored volumes with snapshots scheduled to Amazon S3

C. Gateway-Virtual Tape Library with snapshots to Amazon S3

D. Gateway-Virtual Tape Library with snapshots to Amazon Glacier

Answer: B

Question No: 381 - (Topic 4)

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A company is preparing to give AWS Management Console access to developers

Company policy mandates identity federation and role-based access control. Roles are

currently assigned using groups in the corporate Active Directory. What combination of the

following will give developers access to the AWS console? (Select 2) Choose 2 answers

A. AWS Directory Service AD Connector

B. AWS Directory Service Simple AD

C. AWS Identity and Access Management groups

D. AWS identity and Access Management roles

E. AWS identity and Access Management users

Answer: A,D

Question No: 382 - (Topic 4)

You manually launch a NAT AMI in a public subnet. The network is properly configured.

Security groups and network access control lists are property configured. Instances in a

private subnet can access the NAT. The NAT can access the Internet. However, private

instances cannot access the Internet. What additional step is required to allow access from

the private instances?

A. Enable Source/Destination Check on the private Instances.

B. Enable Source/Destination Check on the NAT instance.

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C. Disable Source/Destination Check on the private instances.

D. Disable Source/Destination Check on the NAT instance.

Answer: D

Question No: 383 - (Topic 4)

A photo-sharing service stores pictures in Amazon Simple Storage Service (S3) and allows

application sign-in using an OpenID Connect-compatible identity provider. Which AWS

Security Token Service approach to temporary access should you use for the Amazon S3

operations?

A. SAML-based Identity Federation

B. Cross-Account Access

C. AWS Identity and Access Management roles

D. Web Identity Federation

Answer: D

Question No: 384 - (Topic 4)

You are designing a web application that stores static assets in an Amazon Simple Storage

Service (S3) bucket. You expect this bucket to immediately receive over 150 PUT requests

per second. What should you do to ensure optimal performance?

A. Use multi-part upload.

B. Add a random prefix to the key names.

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C. Amazon S3 will automatically manage performance at this scale.

D. Use a predictable naming scheme, such as sequential numbers or date time

sequences, in the key names

Answer: B

Question No: 385 - (Topic 4)

You try to connect via SSH to a newly created Amazon EC2 instance and get one of the

following error messages:

"Network error: Connection timed out" or "Error connecting to [instance], reason: ->

Connection timed out: connect,"

You have confirmed that the network and security group rules are configured correctly and

the instance is passing status checks. What steps should you take to identify the source of

the behavior? Choose 2 answers

A. Verify that the private key file corresponds to the Amazon EC2 key pair assigned at

launch.

B. Verify that your IAM user policy has permission to launch Amazon EC2 instances.

C. Verify that you are connecting with the appropriate user name for your AMI.

D. Verify that the Amazon EC2 Instance was launched with the proper IAM role.

E. Verify that your federation trust to AWS has been established.

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Answer: A,C Reference:

Question No: 386 - (Topic 4)

Which of the following services natively encrypts data at rest within an AWS region?

Choose 2 answers

- A. AWS Storage Gateway
- B. Amazon DynamoDB
- C. Amazon CloudFront
- D. Amazon Glacier
- E. Amazon Simple Queue Service

Answer: A,D Reference:

Question No: 387 - (Topic 4)

The Trusted Advisor service provides insight regarding which four categories of an AWS

account?

- A. Security, fault tolerance, high availability, and connectivity
- B. Security, access control, high availability, and performance
- C. Performance, cost optimization, security, and fault tolerance

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D. Performance, cost optimization, access control, and connectivity Answer: C Question No: 388 - (Topic 4) Which of the following notification endpoints or clients are supported by Amazon Simple Notification Service? Choose 2 answers A. Email B. CloudFront distribution C. File Transfer Protocol D. Short Message Service E. Simple Network Management Protocol Answer: A,D Question No: 389 - (Topic 4) Amazon Glacier is designed for: Choose 2 answers A. Data archives

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B. Active database storage

- C. Frequently accessed data
- D. Cached session data
- E. Infrequently accessed data

Answer: A,E

Question No: 390 - (Topic 4)

Which route must be added to your routing table in order to allow connections to the

Internet from your subnet?

A. Destination: 0.0.0.0/0 --> Target: your Internet gateway

B. Destination: 192.168.1.257/0 --> Target: your Internet gateway

C. Destination: 0.0.0.0/33 --> Target: your virtual private gateway

D. Destination: 0.0.0.0/0 --> Target: 0.0.0.0/24

E. Destination: 10.0.0.0/32 --> Target: your virtual private gateway

Answer: A

Question No: 391 - (Topic 4)

Which of the following approaches provides the lowest cost for Amazon Elastic Block Store snapshots while giving you the ability to fully restore data?

- A. Maintain two snapshots: the original snapshot and the latest incremental snapshot.
- B. Maintain a volume snapshot; subsequent snapshots will overwrite one another
- C. Maintain a single snapshot the latest snapshot is both Incremental and complete.

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D. Maintain the most current snapshot, archive the original and incremental to Amazon Glacier.

Answer: A

Question No: 392 - (Topic 4)

What action is required to establish an Amazon Virtual Private Cloud (VPC) VPN connection between an on-premises data center and an Amazon VPC virtual private gateway?

- A. Assign a static Internet-routable IP address to an Amazon VPC customer gateway.
- B. Use a dedicated network address translation instance in the public subnet.
- C. Modify the main route table to allow traffic to a network address translation instance.

Answer: A

Question No: 393 - (Topic 4)

You need to pass a custom script to new Amazon Linux instances created in your Auto

Scaling group. Which feature allows you to accomplish this?

- A. User data
- B. EC2Config service
- C. IAM roles
- D. AWS Config

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Answer: A

Question No: 394 - (Topic 4)

You are building an automated transcription service in which Amazon EC2 worker

instances process an uploaded audio file and generate a text file. You must store both of

these files in the same durable storage until the text file is retrieved. You do not know what

the storage capacity requirements are. Which storage option is both cost-efficient and

scalable?

A. Multiple Amazon EBS volume with snapshots

B. A single Amazon Glacier vault

C. A single Amazon S3 bucket

D. Multiple instance stores

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Answer: C

Question No: 395 - (Topic 4)

Which of the following instance types are available as Amazon EBS-backed only? Choose

2 answers

A. General purpose T2

B. General purpose M3

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C. Compute-optimized C4

D. Compute-optimized C3

E. Storage-optimized 12

Answer: A,C

Question No: 396 - (Topic 4)

A company needs to deploy services to an AWS region which they have not previously

used. The company currently has an AWS identity and Access Management (IAM) role for

the Amazon EC2 instances, which permits the instance to have access to Amazon

DynamoDB. The company wants their EC2 instances in the new region to have the same

privileges. How should the company achieve this?

A. Create a new IAM role and associated policies within the new region

B. Assign the existing IAM role to the Amazon EC2 instances in the new region

C.Copy the IAM role and associated policies to the new region and attach it to

the instances

D. Create an Amazon Machine Image (AMI) of the instance and copy it to the desired

region using the AMI Copy feature

Answer: B

Question No: 397 - (Topic 4)

When will you incur costs with an Elastic IP address (EIP)?

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- A. When an EIP is allocated.
- B. When it is allocated and associated with a running instance.
- C. When it is allocated and associated with a stopped instance.
- D. Costs are incurred regardless of whether the EIP is associated with a running instance.

Answer: C

Question No: 398 - (Topic 4)

What combination of the following options will protect Amazon Simple Storage Service (S3) objects from both accidental deletion and accidental overwriting? (Choose Two)

- A. Enable S3 versioning on the bucket.
- B. Access S3 data using only signed URLs.
- C. Disable S3 delete using an IAM bucket policy.
- D. Enable S3 Reduced Redundancy Storage.
- E. Enable multi-factor authentication (MFA) protected access.

Answer: A,E

Explanation: S3 versioning means that all versions of a file are kept and retrievable at a later date (by making a request to the bucket, using the object ID and also the version number). The only charge for having this enabled is from the fact that you will incur more

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storage. When an object is deleted, it will still be accessible just not visible.

Question No: 399 - (Topic 4)

You are deploying an application to track GPS coordinates of delivery trucks in the United

States. Coordinates are transmitted from each delivery truck once every three seconds.

You need to design an architecture that will enable real-time processing of these

coordinates from multiple consumers. Which service should you use to implement data

ingestion?

A. Amazon Kinesis

B. AWS Data Pipeline

C. Amazon AppStream

D. Amazon Simple Queue Service

Answer: A

Question No: 400 - (Topic 4)

You are deploying an application to collect votes for a very popular television show. Millions

of users will submit votes using mobile devices. The votes must be collected into a durable,

scalable, and highly available data store for real-time public tabulation. Which service should

vou use?

A. Amazon DynamoDB

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B. Amazon Redshift

C. Amazon Kinesis

D. Amazon Simple Queue Service

Answer: A

Question No: 401 - (Topic 4)

An existing application stores sensitive information on a non-boot Amazon EBS data

volume attached to an Amazon Elastic Compute Cloud instance. Which of the following

approaches would protect the sensitive data on an Amazon EBS volume?

A. Upload your customer keys to AWS CloudHSM. Associate the Amazon EBS volume

with AWS CloudHSM. Re-mount the Amazon EBS volume.

B. Create and mount a new, encrypted Amazon EBS volume. Move the data to the new

volume. Delete the old Amazon EBS volume.

C. Unmount the EBS volume. Toggle the encryption attribute to True. Re-mount the

Amazon EBS volume.

D. Snapshot the current Amazon EBS volume. Restore the snapshot to a new, encrypted

Amazon EBS volume. Mount the Amazon EBS volume

Answer: D

Question No: 402 - (Topic 4)

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A company is deploying a new two-tier web application in AWS. The company has limited staff and requires high availability, and the application requires complex queries and table joins. Which configuration provides the solution for the company's requirements?

- A. MySQL Installed on two Amazon EC2 Instances in a single Availability Zone
- B. Amazon RDS for MySQL with Multi-AZ
- C. Amazon ElastiCache
- D. Amazon DynamoDB

Answer: B

Question No: 403 - (Topic 4)

Which of the following are true regarding encrypted Amazon Elastic Block Store (EBS)

volumes? Choose 2 answers

- A. Supported on all Amazon EBS volume types
- B. Snapshots are automatically encrypted
- C. Available to all instance types
- D. Existing volumes can be encrypted
- E. shared volumes can be encrypted

Answer: A,B

Explanation:

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This feature is supported on all Amazon EBS volume types (General Purpose (SSD), Provisioned IOPS (SSD), and Magnetic). You can access encrypted Amazon EBS volumes the same way you access existing volumes; encryption and decryption are handled transparently and they require no additional action from you, your Amazon EC2 instance, or your application. Snapshots of encrypted Amazon EBS volumes are automatically encrypted, and volumes that are created from encrypted Amazon EBS snapshots are also automatically encrypted.

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Question No: 404 - (Topic 4)

A US-based company is expanding their web presence into Europe. The company wants to extend their AWS infrastructure from Northern Virginia (us-east-1) into the Dublin (euwest1) region. Which of the following options would enable an equivalent experience for users on both continents?

A. Use a public-facing load balancer per region to load-balance web traffic, and enable HTTP health checks.

B. Use a public-facing load balancer per region to load-balance web traffic, and enable sticky sessions.

C. Use Amazon Route 53, and apply a geolocation routing policy to distribute traffic

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across both regions.

D. Use Amazon Route 53, and apply a weighted routing policy to distribute traffic

across both regions.

Answer: D

Question No: 405 - (Topic 4)

A customer is hosting their company website on a cluster of web servers that are behind a

public-facing load balancer. The customer also uses Amazon Route 53 to manage their

public DNS. How should the customer configure the DNS zone apex record to point to the

load balancer?

A. Create an A record pointing to the IP address of the load balancer B.

Create a CNAME record pointing to the load balancer DNS name.

C. Create a CNAME record aliased to the load balancer DNS name.

D. Create an A record aliased to the load balancer DNS name

Answer: C Reference:

Question No: 406 - (Topic 4)

A company is deploying a two-tier, highly available web application to AWS. Which service

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provides durable storage for static content while utilizing lower Overall CPU resources for

A. Amazon EBS volume
B. Amazon S3
C. Amazon EC2 instance store
D. Amazon RDS instance
Answer: B
Question No: 407 - (Topic 4)
What is the minimum time Interval for the data that Amazon CloudWatch receives and
aggregates?
A. One second
B. Five seconds
C. One minute
D. Three minutes
E. Five minutes
Answer: C
Explanation:
Many metrics are received and aggregated at 1-minute intervals. Some are at 3-minute or
5-minute intervals.
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the web tier?

Question No: 408 - (Topic 4)

A customer wants to track access to their Amazon Simple Storage Service (S3) buckets and also use this information for their internal security and access audits. Which of the following will meet the Customer requirement?

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- A. Enable AWS CloudTrail to audit all Amazon S3 bucket access.
- B. Enable server access logging for all required Amazon S3 buckets.
- C. Enable the Requester Pays option to track access via AWS Billing
- D. Enable Amazon S3 event notifications for Put and Post.

Answer: B

Question No: 409 - (Topic 4)

Which of the following are true regarding AWS CloudTrail? Choose 3 answers

- A. CloudTrail is enabled globally
- B. CloudTrail is enabled by default
- C. CloudTrail is enabled on a per-region basis
- D. CloudTrail is enabled on a per-service basis.
- E. Logs can be delivered to a single Amazon S3 bucket for aggregation.
- F. CloudTrail is enabled for all available services within a region.

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G. Logs can only be processed and delivered to the region in which they are generated.

Answer: A,C,E

Question No: 410 - (Topic 4)

You that periodically processes large volumes of data across multiple Amazon EC2

Instances. The application is designed to recover gracefully from Amazon EC2 instance

failures. You are required to accomplish this task in the most costeffective way.

Which of the following will meet your requirements?

- A. Spot Instances
- B. Reserved instances
- C. Dedicated instances
- D. On-Demand instances

Answer: A

Question No: 411 - (Topic 4)

A company is building software on AWS that requires access to various AWS services.

Which configuration should be used to ensure mat AWS credentials (i.e., Access Key

ID/Secret Access Key combination) are not compromised?

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- A. Enable Multi-Factor Authentication for your AWS root account.
- B. Assign an IAM role to the Amazon EC2 instance.
- C. Store the AWS Access Key ID/Secret Access Key combination in software comments.
- D. Assign an IAM user to the Amazon EC2 Instance.

Answer: A

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/IAMBestPractices.html

Question No: 412 - (Topic 4)

You have a content management system running on an Amazon EC2 instance that is approaching 100% CPU utilization. Which option will reduce load on the Amazon EC2 instance?

- A. Create a load balancer, and register the Amazon EC2 instance with it
- B. Create a CloudFront distribution, and configure the Amazon EC2 instance as the origin
- C. Create an Auto Scaling group from the instance using the CreateAutoScalingGroup action
- D. Create a launch configuration from the instance using the CreateLaunchConfiguration action

Answer: C

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Question No: 413 - (Topic 4)

A customer implemented AWS Storage Gateway with a gateway-cached volume at their

main office. An event takes the link between the main and branch office offline. Which

methods will enable the branch office to access their data? Choose 3 answers

A. Use a HTTPS GET to the Amazon S3 bucket where the files are located.

B. Restore by implementing a lifecycle policy on the Amazon S3 bucket.

C. Make an Amazon Glacier Restore API call to load the files into another Amazon S3

bucket within four to six hours.

D. Launch a new AWS Storage Gateway instance AMI in Amazon EC2, and restore from a

gateway snapshot.

E. Create an Amazon EBS volume from a gateway snapshot, and mount it to an Amazon

EC2 instance.

F. Launch an AWS Storage Gateway virtual iSCSI device at the branch office, and restore

from a gateway snapshot.

Answer: A,D,F

Question No: 414 - (Topic 4)

A company needs to monitor the read and write IOPs metrics for their AWS MySQL RDS

instance and send real-time alerts to their operations team. Which AWS services can

accomplish this? Choose 2 answers

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- A. Amazon Simple Email Service
- B. Amazon CloudWatch
- C. Amazon Simple Queue Service
- D. Amazon Route 53
- E. Amazon Simple Notification Service

Answer: B,E

Question No: 415 - (Topic 4)

You have an Amazon Elastic Cloud Compute (EC2) security group with several running

EC2 instances. You change the security group rules to allow inbound traffic on a new port

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and protocol, and launch several new instances in the same security group. The new rules apply:

- A. Immediately to all instances in the security group.
- B. Immediately to the new instances, but old instances must be stopped and restarted before the new rules apply.
- C. Immediately to the new instances only.
- D. To all instances, but it may take several minutes for old instances to see the changes.

Answer: A

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Question No: 416 - (Topic 4)

You have an application running on an Amazon Elastic Compute Cloud instance, that

uploads 5 GB video objects to Amazon Simple Storage Service (S3). Video uploads are

taking longer than expected, resulting in poor application performance. Which method will

help improve performance of your application?

A. Enable enhanced networking

B. Use Amazon S3 multipart upload

C. Leveraging Amazon CloudFront, use the HTTP POST method to reduce latency.

D. Use Amazon Elastic Block Store Provisioned IOPs and use an Amazon EBS-optimized

instance

Answer: B

Question No: 417 - (Topic 4)

You have a load balancer configured for VPC, and all back-end Amazon EC2 instances are

in service. However, your web browser times out when connecting to the load balancer's

DNS name. Which options are probable causes of this behavior? Choose 2 answers

A. The load balancer was not configured to use a public subnet with an Internet gateway

configured

B. The Amazon EC2 instances do not have a dynamically allocated private IP address

C. The security groups or network ACLs are not property configured for web traffic.

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D. The load balancer is not configured in a private subnet with a NAT instance.

E. The VPC does not have a VGW configured.

Answer: A,C

Question No: 418 - (Topic 4)

A t2.medium EC2 instance type must be launched with what type of Amazon Machine

Image (AMI)?

A. An Instance store Hardware Virtual Machine AMI

B. An Instance store Paravirtual AMI

C. An Amazon EBS-backed Hardware Virtual Machine AMI

D. An Amazon EBS-backed Paravirtual AMI

Answer: C

Question No: 419 - (Topic 4)

Which set of Amazon S3 features helps to prevent and recover from accidental data loss?

A. Object lifecycle and service access logging

B. Object versioning and Multi-factor authentication

C. Access controls and server-side encryption

D. Website hosting and Amazon S3 policies

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Answer: B

Question No: 420 - (Topic 4)

A startup company hired you to help them build a mobile application, that will ultimately

store billions of images and videos in Amazon Simple Storage Service (S3). The company

is lean on funding, and wants to minimize operational costs, however, they have an

aggressive marketing plan, and expect to double their current installation base every six

months. Due to the nature of their business, they are expecting sudden and large

increases in traffic to and from S3, and need to ensure that it can handle the performance

needs of their application.?? What other information must you gather from this customer in

order to determine whether S3 is the right option?

A. You must know how many customers the company has today, because this is critical in

understanding what their customer base will be in two years.

B. You must find out the total number of requests per second at peak usage.

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C. You must know the size of the individual objects being written to S3, in order to properly

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design the key namespace.

D. In order to build the key namespace correctly, you must understand the total amount of storage needs for each S3 bucket.

Answer: D

Question No: 421 - (Topic 4)

Which of the following statements are true about Amazon Route 53 resource records?

Choose 2 answers

A. An Alias record can map one DNS name to another Amazon Route 53 DNS name.

B. A CNAME record can be created for your zone apex.

C. An Amazon Route 53 CNAME record can point to any DNS record hosted anywhere.

D. TTL can be set for an Alias record in Amazon Route 53.

E. An Amazon Route 53 Alias record can point to any DNS record hosted anywhere.

Answer: A,C

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