

Q1) What is the type of monitoring data (for Amazon EBS volumes) which is available automatically in 5-minute periods at no charge called?

☒ Basic

Explanation:-CloudWatch metrics are statistical data that you can use to view, analyze, and set alarms on the operational behavior of your volumes. The following table describes the types of monitoring data available for your Amazon EBS volumes. Data is available automatically in 5-minute periods at no charge. Refer:

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using_cloudwatch_ebs.html#:~:text=CloudWatch%20metrics%20are%20statistical%20data,for%20your%20Amazon%20EBS%20volumes.&text=Data%20is%20available%20automatically

- ☐ Primary
- ☐ Detailed
- ☐ Local

Q2) Can I initiate a "forced failover" for my Oracle Multi-AZ DB Instance deployment?

- ☐ Only in VPC
- ☐ Only in certain regions
- ☒ Yes
- ☐ No

Q3) Regarding the attaching of ENI to an instance, what does 'warm attach' refer to?

- ☐ This question doesn't make sense.
- ☐ Attaching an ENI to an instance when it is running
- ☒ Attaching an ENI to an instance when it is stopped.

Explanation:-ENI can be attached to an instance when it's running (hot attach), when it's stopped (warm attach), or when the instance is being launched (cold attach).

- ☐ Attaching an ENI to an instance during the launch process

Q4) In the context of MySQL, version numbers are organized as MySQL version = X.Y.Z. What does X denote here?

- ☒ Major version
- ☐ Version number
- ☐ Minor version
- ☐ Release level

Q5) If I want to run a database in an Amazon instance, which is the most recommended Amazon storage option?

☒ Amazon EBS

Explanation:-Amazon EBS is the recommended storage option when you run a database on an instance. Refer:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Storage.html>

- ☐ Amazon Instance Storage
- ☐ You can't run a database inside an Amazon instance.
- ☐ Amazon S3

Q6)

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?

☒ Multiple facilities in eu-west-1

Explanation:-Refer: <https://aws.amazon.com/s3/faqs/>

- ☐ A single facility in eu-west-1 and a single facility in us-east-1
- ☐ A single facility in eu-west-1 and a single facility in eu-central-1
- ☐ A single facility in eu-west-1

Q7) You can use _____ and _____ to help secure the instances in your VPC.

- ☐ security groups and biometric authentication
- ☐ security groups and 2-Factor authentication
- ☐ security groups and multi-factor authentication
- ☒ security groups and network ACLs

Q8) 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.

- ☒ The statement holds True.
- ☐ This is configurable

Q9) What does the "Server Side Encryption" option on Amazon S3 provide?

- ☐ It doesn't exist for Amazon S3, but only for Amazon EC2.
- ☐ It encrypts the files that you send to Amazon S3, on the server side.
- ☒ It provides an encrypted virtual disk in the Cloud.

Explanation:-Amazon S3 server-side encryption uses one of the strongest block ciphers available to encrypt your data, 256-bit Advanced Encryption Standard (AES-256). Server-side encryption encrypts only the object data, not object metadata. Refer:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/UsingServerSideEncryption.html>

- ☐ It allows to upload files using an SSL endpoint, for a secure transfer.

Q10) What does Amazon ELB stand for?

- ☐ Elastic Linux Box.
- ☐ Encrypted Linux Box.
- ☐ Encrypted Load Balancing.
- ☒ Elastic Load Balancing.

Explanation:-Elastic Load Balancing automatically distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and Lambda functions. It can handle the varying load of your application traffic in a single Availability Zone or across multiple Availability Zones. Refer:

<https://aws.amazon.com/elasticloadbalancing/#:~:text=Elastic%20Load%20Balancing%20automatically%20distributes,or%20across%20multiple%20Availability%20Zones>.

Q11)

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?

- ☐ Elastic Load Balancing, Amazon RDS with Multi-AZ, and Amazon S3
- ☐ Amazon RDS with Multi-AZ and Auto Scaling
- ☒ Elastic Load Balancing, Amazon EC2, and Auto Scaling

Explanation:-The measurements collected by Amazon CloudWatch provide Auto Scaling with the information needed to run enough Amazon EC2 instances to deal with the traffic load. Auto Scaling updates the Elastic Load Balancing service when new instances are launched or terminated to automatically scale the load-balanced capacity. Refer: <https://aws.amazon.com/blogs/aws/new-aws-load-balancing-automatic-scaling-and-cloud-monitoring-services/#:~:text=The%20measurements%20collected%20by%20Amazon,scale%20the%20load%20balanced%20capacity>.

- ☐ Amazon EC2, Amazon DynamoDB, and Amazon S3

Q12) A _____ is an individual, system, or application that interacts with AWS programmatically.

☒ user

Explanation:-IAM makes it easy to provide multiple users secure access to your AWS resources. IAM enables you to - Manage IAM users and their access: You can create users in AWS's identity management system, assign users individual security credentials (such as access keys, passwords, multi-factor authentication devices), or request temporary security credentials to provide users access to AWS services and resources. You can specify permissions to control which operations a user can perform. Refer: <https://aws.amazon.com/iam/faqs/>

- ☐ AWS Account
- ☐ Group
- ☐ Role

Q13) Which services allow the customer to retain full administrative privileges of the underlying EC2 instances? (Choose 2 answers)

- ☐ Amazon ElastiCache
- ☐ Amazon DynamoDB
- ☒ AWS Elastic Beanstalk

Explanation:-AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS. Refer: <https://aws.amazon.com/elasticbeanstalk/>

- ☐ Amazon Relational Database Service

- ✔ Amazon Elastic Map Reduce

Explanation:-Amazon Elastic MapReduce (Amazon EMR) is a web service that makes it easy to quickly and cost-effectively process vast amounts of data. Amazon EMR uses Hadoop, an open source framework, to distribute your data and processing across a resizable cluster of Amazon EC2 instances. Refer: [https://www.amazonaws.cn/en/elasticmapreduce/#~:text=Amazon%20Elastic%20MapReduce%20\(Amazon%20EMR_cluster%20of%20Amazon%20EC2%20instances.](https://www.amazonaws.cn/en/elasticmapreduce/#~:text=Amazon%20Elastic%20MapReduce%20(Amazon%20EMR_cluster%20of%20Amazon%20EC2%20instances.)

Q14) You need to configure an 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 public read? (Choose 2 answers)

- Amazon S3 objects default to public read, so no action is needed.
- Use AWS Identity and Access Management roles to set the bucket to public read.
- ✔ Configure the bucket policy to set all objects to public read.
- Configure the bucket ACL to set all objects to public read.
- ✔ Set permissions on the object to public read during upload.

Q15) 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?

- None of these.
- Amazon Instance Storage
- Any of these
- ✔ Amazon EBS

Explanation:-A volume can only be attached to one instance at a time, but many volumes can be attached to a single instance. This means that you can attach multiple volumes and stripe your data across them for increased I/O and throughput performance. This is particularly helpful for database style applications that frequently encounter many random reads and writes across the dataset. If an instance fails or is detached from an Amazon EBS volume, the volume can be attached to any other instance in that Availability Zone. Refer: <https://aws.amazon.com/ebs/getting-started/>

Q16) Does Dynamic DB support in-place atomic updates?

- ✔ Yes
- No
- It is not defined
- It does support in-place non-atomic updates

Q17)

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 _____.

- To all instances, but it may take several minutes for old instances to see the changes.
- Immediately to the new instances, but old instances must be stopped and restarted before the new rules apply.
- Immediately to the new instances only.
- ✔ Immediately to all instances in the security group.

Q18) 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?

- ✔ Amazon Simple Storage Service

Explanation:-Amazon Simple Storage Service is storage for the Internet. It is designed to make web-scale computing easier for developers. Amazon S3 has a simple web services interface that you can use to store and retrieve any amount of data, at any time, from anywhere on the web. Refer:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/Welcome.html>

- AWS ElastiCache Memcached
- Amazon EC2 instance storage
- Amazon DynamoDB

Q19) State whether the following statement is True or False. "Common points of failures like generators and cooling equipment are shared across Availability Zones."

- ✔ INCORRECT
- CORRECT

Q20) How many Elastic IP by default in Amazon Account?

- ✔ 5 Elastic IP

Explanation:-By default, all AWS accounts are limited to five (5) Elastic IP addresses per Region, because public (IPv4) internet addresses are a scarce public resource. Refer: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html>

- 3 Elastic IP
- 1 Elastic IP
- 0 Elastic IP

Q21)

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?

- ✔ 2

Explanation:-Your VPC must have at least two subnets. These subnets must be in two different Availability Zones in the AWS Region where you want to deploy your DB instance. A subnet is a segment of a VPC's IP address range that you can specify and that lets you group instances based on your security and operational needs. Refer: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_VPC.WorkingWithRDSInstanceinaVPC.html

- 1
- 3
- 4

Q22) In the Amazon RDS Oracle DB engine, the Database Diagnostic Pack and the Database Tuning Pack are only available with _____

- ✔ Oracle Enterprise Edition

Explanation:-Following Oracle Enterprise Edition Options are currently supported under the BYOL mode - Advanced Security (Transparent Data Encryption, Native Network Encryption), Partitioning, Management Packs (Diagnostic, Tuning), Advanced Compression, and Total Recall

- Oracle Express Edition
- Oracle Standard Edition
- None of these

Q23) A Provisioned IOPS volume must be at least _____ GB in size

- ✔ 10

Explanation:-Refer: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volume-types.html>

- 20
- 50
- 1

Q24) Select the correct set of steps for exposing the snapshot only to specific AWS accounts.

- SelectPublic, mark the IDs of those AWS accounts as private, and clickSave.
- ✔ SelectPublic, enter the IDs of those AWS accounts, and clickSave.
- SelectPrivate, enter the IDs of those AWS accounts, and clickSave.
- Select public for all the accounts and check mark those accounts with whom you want to expose the snapshots and click save

Q25)

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 instances. Files submitted by your premium customers must be transformed with the highest priority.

How should you implement such a system?

- Use a single SQS queue. Each message contains the priority level. Transformation instances poll high-priority messages first.
- ✔ 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.
- Use Route 53 latency based-routing to send high priority tasks to the closest transformation instances.
- 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.

Q26) 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.

- ✔ SOAP

Explanation:-AWS comes in two web service delivery flavors: SOAP (which originally stood for Simple Object Access Protocol) is a protocol that involves XML data exchange between client and server.

- DCOM
- CORBA
- XML-RPC

Q27) 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?

- The remaining Read Replicas will be deleted
- ✔ The remaining Read Replicas will still replicate from the older master DB Instance

Explanation:-If you create multiple read replicas in parallel from the same source DB instance, Amazon RDS takes only one snapshot at the start of the first create action.

- The remaining Read Replicas will be combined to one read replica

Q28) 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.

- ✔ DNS

Explanation:-The failover mechanism automatically changes the Domain Name System (DNS) record of the DB instance to point to the standby DB instance. Refer: <https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>

- DNAME
- TXT
- MX

Q29) What is a placement group?

- A collection of authorized CloudFront edge locations for a distribution
- ✔ A feature that enables EC2 instances to interact with each other via high bandwidth, low latency connections

Explanation:-A cluster placement group is a logical grouping of instances within a single Availability Zone that benefit from low network latency, high network throughput. A spread placement group places instances on distinct hardware. Refer:

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-ec2-placementgroup.html#:~:text=A%20cluster%20placement%20group%20is,places%20instances%20on%20distinct%20hardware>.

- A collection of Auto Scaling groups in the same region
- A collection of Elastic Load Balancers in the same Region or Availability Zone

Q30) What Amazon AWS service is available for container management?

- Docker
- ✔ ECS

Explanation:-Amazon Elastic Container Service (Amazon ECS) is a fully managed container orchestration service that provides the most secure, reliable and scalable way to run containerized applications. Refer:

[https://aws.amazon.com/containers/services/#:~:text=Amazon%20Elastic%20Container%20Service%20\(Amazon,way%20to%20run%20containerized%20applications](https://aws.amazon.com/containers/services/#:~:text=Amazon%20Elastic%20Container%20Service%20(Amazon,way%20to%20run%20containerized%20applications)

- Kinesis
- Lambda

Q31) What network events are restricted by Lambda? (Select two)

- Outbound connections support only SSL sockets
- ✔ Outbound connections support only TCP/IP sockets
- All inbound and outbound connections are blocked
- ✔ All inbound network connections are blocked by AWS Lambda
- Only inbound TCP network connections are blocked by AWS Lambda

Q32) How is versioning supported with Lambda? (Select two)

- Replication
- ✔ Aliases
- Not supported
- ECS container
- ✔ Lambda native support
- S3 versioning

Q33) When using consolidated billing there are two account types. What are they?

- Main account and Secondary account.
- Main account and Sub account.
- Parent account and Child account
- ✔ Paying account and Linked account

Q34) What are the advantages of Beanstalk? (Select two)

- ✔ Easiest solution for developers to deploy cloud applications
 - Template-oriented deployment service
 - ✔ Orchestration and deployment abstraction
- Explanation:-**Refer: <https://aws.amazon.com/elasticbeanstalk/>
- Does not support cloud containers

Q35)

You are a network analyst with JSON scripting experience and asked to select an AWS solution that enables automated deployment of cloud services. The template design would include a nondefault VPC with EC2 instances, ELB, Auto-Scaling and active/active failover.

What AWS solution is recommended?

- Beanstalk
- OpsWorks
- CloudTrail
- ✔ CloudFormation

Explanation:-AWS CloudFormation is a service that gives developers and businesses an easy way to create a collection of related AWS and third party resources and provision them in an orderly and predictable fashion. Refer: <https://aws.amazon.com/cloudformation/faqs/>

Q36) Select two statements that correctly describe OpsWorks?

- ✔ Chef scripts (recipes) are a key aspect of OpsWorks
- OpsWorks is primarily a monitoring service
- OpsWorks is a lower cost alternative to BeanStalk
- ✔ Opsworks provides operational and configuration automation

Q37) Your company has developed an IoT application that sends Telemetry data from 100,000 sensors. The sensors send a data point of 1 KB at one-minute intervals to a DynamoDB collector for monitoring purposes. What AWS stack would enable you to store data for real-time processing and analytics using BI tools?

- Sensors -> Kinesis Data Streams -> Firehose -> RDS
- ✔ Sensors -> AWS IoT -> Firehose -> RedShift
- Sensors -> Kinesis Stream -> Firehose -> DynamoDB -> S3

Explanation:-With Amazon Kinesis Data Firehose, you can capture data continuously from connected devices such as consumer appliances, embedded sensors, and TV set-top boxes. Kinesis Data Firehose loads the data into Amazon S3 and Amazon Redshift, enabling you to provide your customers near real-time access to metrics, insights, and dashboards. Refer: <https://aws.amazon.com/kinesis/data-firehose/>

- Sensors -> Kinesis Stream -> Firehose -> DynamoDB

Q38) Your company has an application that was developed and migrated to AWS cloud. The application leverages some AWS services as part of the architecture. The stack includes EC2 instances, RDS database, S3 buckets, RedShift and Lambda functions. In addition there is IAM security permissions configured with defined users, groups and roles. The application is monitored with CloudWatch and STS was recently added for permitting Web Identity Federation sign-on from Google accounts. You want a solution that can leverage the experience of your employees with AWS cloud infrastructure as well. What AWS service can create a template of the design and configuration for easier deployment of the application to multiple regions?

- ✔ CloudFormation

Explanation:-AWS CloudFormation Designer graphically represents your templates to help you see the resources in the template and how they're connected. The integrated JSON and YAML editor makes it easy to modify templates directly in the AWS CloudFormation console. To demonstrate how to use both of these components, we'll use AWS CloudFormation Designer to build a basic web server in a VPC. Then, we'll save the template and use it to create an AWS CloudFormation stack. Refer: <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/working-with-templates-cfn-designer-walkthrough-createbasicwebserver.html>

- Opworks
- Snowball
- Beanstalk

Q39) 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?

- ☐ Amazon Simple Workflow Service
- ☐ AWS Elastic Beanstalk
- ☐ AWS CloudFormation
- ☒ AWS OpsWorks

Explanation:-AWS OpsWorks is a configuration management service that provides managed instances of Chef and Puppet. OpsWorks lets you use Chef and Puppet to automate how servers are configured, deployed, and managed across your Amazon EC2 instances or on-premises compute environments. Refer: <https://aws.amazon.com/opsworks/>

Q40) How can an EBS volume that is currently attached to an EC2 instance be migrated from one Availability Zone to another?

- ☐ Detach the volume, then use the `ec2-migrate-volume` command to move it to another AZ.
- ☒ Create a snapshot of the volume, and create a new volume from the snapshot in the other AZ.
- ☐ Simply create a new volume in the other AZ and specify the original volume as the source.
- ☐ Detach the volume and attach it to another EC2 instance in the other AZ.

Q41) What happens when you create a topic on Amazon SNS?

- ☐ You can create a topic on Amazon SQS, not on Amazon SNS.
- ☒ An ARN (Amazon Resource Name) is created.

Explanation:-When a topic is created, Amazon SNS will assign a unique ARN (Amazon Resource Name) to the topic, which will include the service name (SNS), region, AWS ID of the user and the topic name. The ARN will be returned as part of the API call to create the topic. Refer: <https://aws.amazon.com/sns/faqs/#~:text=When%20a%20topic%20is%20created,call%20to%20create%20the%20topic.>

- ☐ The topic is created, and it has the name you specified for it.
- ☐ This question doesn't make sense.

Q42) A client application requires operating system privileges on a relational database server. What is an appropriate configuration for a highly available database architecture?

- ☒ Amazon EC2 instances in a replication configuration utilizing two different Availability Zones
- ☐ Amazon EC2 instances in a replication configuration utilizing a single Availability Zone
- ☐ Amazon RDS in a Multi-AZ configuration
- ☐ A standalone Amazon EC2 instance

Q43) Which of the following are characteristics of Amazon VPC subnets? (Choose 2 answers)

- ☒ Instances in a private subnet can communicate with the Internet only if they have an Elastic IP.
- ☐ By default, all subnets can route between each other, whether they are private or public.
- ☐ CIDR block mask of /25 is the smallest range supported.
- ☒ Each subnet maps to a single Availability Zone.
- ☐ Each subnet spans at least 2 Availability Zones to provide a high-availability environment.

Q44)

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 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?

- ☐ 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.
- ☐ 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.
- ☐ 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.
- ☒ 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.

Q45)

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 facing 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.

How should they architect their solution?

- ☐ 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.
- ☐ Whitelist the ELB IP addresses and route payment requests from the Application servers through the ELB.
- ☒ Whitelist the VPC Internet Gateway Public IP and route payment requests through the Internet Gateway.
- ☐ Route payment requests through two NAT instances setup for High Availability and whitelist the Elastic IP addresses attached to the NAT instances.

Q46)

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 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?

- ☐ Use Elastic Beanstalk "Restart App server(s)" option to update log delivery to the Elastic Map Reduce job.
- ☒ Use Elastic Beanstalk "Rebuild Environment" option to update log delivery to the Elastic Map Reduce job.
- ☐ Change your log collection process to use Cloud Watch ELB metrics as input of the Elastic Map Reduce job
- ☐ Turn on Cloud Trail and use trail log files on S3 as input of the Elastic Map Reduce job
- ☐ Enable Cloud Front to deliver access logs to S3 and use them as input of the Elastic Map Reduce job.

Q47) What is the maximum response time for a Business level Premium Support case?

- ☐ 10 minutes
- ☐ You always get instant responses (within a few seconds).
- ☐ 30 minutes
- ☒ 1 hour

Q48) HTTP Query-based requests are HTTP requests that use the HTTP verb GET or POST and a Query parameter named _____.

- ☒ Action

Explanation:-Elastic Load Balancing provides APIs that you can call by submitting a Query request. Query requests are HTTP or HTTPS requests that use the HTTP verb GET or POST and a Query parameter named Action or Operation that specifies the API you are calling. Refer: <https://docs.aws.amazon.com/elasticloadbalancing/2012-06-01/APIReference/using-query-api.html>

- ☐ Value
- ☐ Reset
- ☐ Retrieve

Q49) Within the IAM service a GROUP is regarded as a:

- ☐ A collection of AWS accounts
- ☐ It's the group of EC2 machines that gain the permissions specified in the GROUP.
- ☐ There's no GROUP in IAM, but only USERS and RESOURCES.
- ☒ A collection of users.

Explanation:-Within the IAM service a GROUP is regarded as a A collection of AWS accounts. It's the group of EC2 machines that gain the permissions specified in the GROUP. There's no GROUP in IAM, but only USERS and RESOURCES. Refer: <https://aws.amazon.com/iam/faqs/>

Q50) Please select the most correct answer regarding the persistence of the Amazon Instance Store

- ☐ The data on an instance store volume persists even after associated Amazon EC2 instance is deleted
- ☒ The data on an instance store volume is lost when the security group rule of the associated instance is changed.
- ☐ The data on an instance store volume persists only during the life of the associated Amazon EC2 instance

Q51) Amazon RDS automated backups and DB Snapshots are currently supported for only the _____ storage engine

- ☒ InnoDB

Explanation:-For the MySQL DB engine, automated backups are only supported for the InnoDB storage engine. Use of these features with other MySQL storage engines, including MyISAM, can lead to unreliable behavior while restoring from backups. ... For this reason, we encourage you to use the InnoDB storage engine. Refer: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_WorkingWithAutomatedBackups.html

- MyISAM

Q52) Can I test my DB Instance against a new version before upgrading?

- No
- Only in VPC
- ✔ Yes

Q53)

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?

- Block the IPs of the offending websites in Security Groups.
- Use CloudFront distributions for static content.
- ✔ Remove public read access and use signed URLs with expiry dates.
- Store photos on an EBS volume of the web server.

Q54) Without _____, you must either create multiple AWS accounts—each with its own billing and subscriptions to AWS products—or your employees must share the security credentials of a single AWS account.

- Amazon RDS
- Amazon Glacier
- Amazon EMR
- ✔ Amazon IAM

Explanation:-Without IAM, however, you must either create multiple AWS accounts—each with its own billing and subscriptions to AWS products—or your employees must share the security credentials of a single AWS account. Refer: <https://docs.aws.amazon.com/IAM/latest/UserGuide/getting-set-up.html>

Q55) How can I change the security group membership for interfaces owned by other AWS, such as Elastic Load Balancing?

- None of these
- ✔ By using the service specific console or API/CLI commands

Explanation:-You can change the security groups that are associated with a network interface. When you create the security group, be sure to specify the same VPC as the subnet for the network interface. Refer: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-eni.html>

- Using Amazon EC2 API/CLI
- using all these methods

Q56) While signing in REST/ Query requests, for additional security, you should transmit your requests using Secure Sockets Layer (SSL) by using _____

- HTTP
- Internet Protocol Security(IPsec)
- TLS (Transport Layer Security)
- ✔ HTTPS

Explanation:-For additional security, you should transmit your requests using Secure Sockets Layer (SSL) by using HTTPS. SSL encrypts the transmission, protecting your request or the response from being viewed in transit. For more information about securing your Query requests, see Making Secure Requests to Amazon Web Services . Refer: <https://docs.aws.amazon.com/elasticloadbalancing/2012-06-01/APIReference/using-query-api.html#:~:text=For%20additional%20security%2C%20you%20should,Requests%20to%20Amazon%20Web%20Services%20>

Q57) Can a 'user' be associated with multiple AWS accounts?

- Yes
- ✔ No

Q58) 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

- ✔ Deny

Explanation:-There's no method in the IAM system to allow or deny access to the operating system of a specific instance. IAM does allow access to specific instance.

- Permit
- Cancel

Q59) Select the most suitable option. The device name /dev/sda1 (within Amazon EC2) is _____.

- Recommended for EBS volumes
- ✔ Reserved for the root device

Explanation:-HVM AMIs do not support the use of trailing numbers on device names, except for /dev/sda1, which is reserved for the root device, and /dev/sda2. While using /dev/sda2 is possible, we do not recommend using this device mapping with HVM instances. Refer: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/device_naming.html

- Possible for EBS volumes
- Recommended for instance store volumes

Q60) What two features describe an Application Load Balancer (ALB)?

- Backend server authentication
- ✔ Layer 7 load balancer
- SSLListener
- ✔ Dynamic port mapping

Explanation:-Refer: <https://docs.aws.amazon.com/elasticloadbalancing/latest/application/introduction.html>

- Multi-region forwarding