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Question 1: **Correct**

Your distributed, decoupled application needs to store messages in SQS. However, the messages your application generates exceed the maximum allowable size for an SQS message. How might you overcome this restriction?

☐ Request a message size increase from AWS.

☒ Use the SQS Extended Client Library for Java to send a message in SQS that contains a reference to a message payload in Amazon S3. **(Correct)**

☐ Compress each message and send as an archive file.

☐ Configure your application to send an SQS message that refers to a message payload stored in DynamoDB.

**Explanation**  
The Amazon SQS Extended Client Library for Java allows applications to send an SQS message that contains a reference to a message payload in Amazon S3.

Question 2: **Correct**



You have software on an EC2 instance that needs to access both the private and public IP address of that instance. What's the best way for the software to get that information?


☐ Call the EC2 API.

☒ Have the software use cURL or GET to access the instance metadata. **(Correct)**

☐ Have the software use cURL or GET to access the instance user data.

☐

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Question 3: **Correct**

True or false: The parts of a multi-part upload will not be reassembled until the CompleteMultipartUpload operation is called.

☐ FALSE

☒ TRUE **(Correct)**

**Explanation**  
This operation completes a multipart upload by assembling the previously uploaded parts, and does not begin until invoked. The processing of a CompleteMultipartUpload request can take several minutes to complete, and your applications should be prepared to retry any failed requests.

Question 4: **Correct**

Which section of a CloudFormation template allows you to set up differing instance types based on environment type (e.g. 'Production' or 'QA')?



☐ Mappings


☐ Resources

☐ Outputs

☒ Conditions **(Correct)**

**Explanation**  
Conditions are created in their own property section and then referenced in the resource declaration, allowing for the conditional creation of resources.

Retake Test [Continue >](#)  

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Question 5: **Correct**

By default, what status message will you see if your CloudFormation stack encounters an error during creation?

☒ ROLLBACK\_IN\_PROGRESS (Correct)

☐ DELETE\_IN\_PROGRESS

☐ STACK\_ERROR

☐ ERROR\_STACK\_DELETE

Explanation

ROLLBACK\_IN\_PROGRESS. Please see: [http://docs.aws.amazon.com/AWSCloudFormation/latest/APIReference/API\\_Stack.html](http://docs.aws.amazon.com/AWSCloudFormation/latest/APIReference/API_Stack.html) for more information.

Question 6: **Correct**

Your supervisor asks you to find a solution for scheduling a sequence of tasks. The sequence may take several months to complete and it's very important that no tasks are processed more than once. Which AWS service would you recommend?


☐ SES

☒ SWF (Correct)

☐ SNS

☐ SQS

Retake TestContinue >⚙️🔍

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Question 7: **Correct**

Which of the following will not result in a CloudFormation rollback?

☒ A template that contains invalid JSON syntax (Correct)

☐ An AMI specified in the template exists in a region other than the region in which the stack is being created.

☐ The template specifies an EC2 instance type that is not compatible with the AMI that backs it.

☐ A subnet specified in the template does not exist.

Explanation

Invalid JSON syntax will cause an error message during template validation. Since the stack will never start creating, there is nothing to roll back.

Question 8: **Correct**

True or false: DynamoDB supports cross-table joins.


☐ TRUE

☒ FALSE (Correct)

Explanation

DynamoDB does not support complex relational queries (e.g. joins) or complex transactions. If your workload requires this functionality, or you are looking for compatibility with an existing relational engine, you may wish to run a relational engine on Amazon RDS or Amazon EC2.

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Question 9: **Correct**

You store a new object in the U.S. Standard region in Amazon S3 and receive a confirmation that it has been successfully stored. You then immediately make another API call attempting to read this object. Will you be able to read this object immediately?

☒ Yes, U.S. Standard has read-after-write consistency, which means you will have access to the object immediately. (Correct)

☐ No, U.S. Standard imposes a one second delay on all reads.

☐ Yes, unless you exceed API call limits.

☐ It depends, because S3 objects are not available until they have replicated to another region. This replication can take up to several seconds.

**Explanation**  
Amazon S3 buckets in all Regions provide read-after-write consistency for PUTS of new objects and eventual consistency for overwrite PUTS and DELETES.

Question 10: **Correct**

EC2 instances are launched from Amazon Machine Images (AMIs). A given public AMI:


☐ Can only be used to launch EC2 instances in the same AWS Availability Zone (AZ) as the AMI is stored.

☐ Can only be used to launch EC2 instances in the same AWS country as the AMI is stored.

☐ Can be used to launch EC2 instances in any AWS region.

☒ Can only be used to launch EC2 instances in the same AWS region as the AMI is stored. (Correct)

Retake TestContinue >⚙️🔍

Go to Dashboard

Question 11: **Correct**

How many local secondary indexes may a DynamoDB table contain?

☐ 3

☒ 5 (Correct)

☐ 7

☐ 10

**Explanation**  
A DynamoDB table may contain up to five local secondary indexes and up to five global secondary indexes.

Question 12: **Correct**


True or false: A global secondary index is characterized by an index key value that differs from that of the table's primary key.

☐ FALSE

☒ TRUE (Correct)

**Explanation**  
A global secondary index contains a selection of attributes from the table, but they are organized by a primary key that is different from that of the table.

Retake TestContinue >⚙️🔍



Go to Dashboard

Question 13: Correct

Which API call can tell you which Amazon Machine Images are available in your current region?

☐ ListAMIs

☐ DescribeInstances

☒ DescribeImages (Correct)

☐ ListImages

Explanation

DescribeImages will list the AMIs available in the current region.

Question 14: Correct

Which of the following is a default limit in S3?



☐ Buckets have a limit of 5TB.


☐ Objects have a size limit of 5TB.

☐ Objects may be any size.

☒ Accounts can have a maximum of 100 buckets. (Correct)

Explanation

Retake Test Continue >  



Go to Dashboard

Question 15: Correct

Which of the following services are offered at no cost? (Choose two answers.)

☐ AWS S3

☒ AWS VPC (Correct)

☐ AWS ELB

☒ AWS AutoScaling (Correct)

Explanation

Both VPC and Auto-Scaling services are offered at no direct cost. Charges will be incurred, however, for the underlying compute or storage resources.

Question 16: Correct



For which of the following does AWS not provide an SDK (select two answers)?


☒ Perl (Correct)

☒ Erlang (Correct)

☐ Node.js

☐ Go

Retake Test Continue >  



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Question 17: **Incorrect**

Your EC2 instance receives a message from SQS and the visibility timeout begins. Which API operation must be called to prevent the message from becoming visible again?

☐ RemoveMessage

☐ DeleteMessage (Correct)

☒ DecreaseMessageVisibility (Incorrect)

☐ ReduceMessage

Explanation

DeleteMessage: If the message is not deleted, it will become available to other EC2 worker instances at the end of the visibility timeout.

Question 18: **Correct**



True or false: A unit of read capacity represents one strongly consistent read per second or two eventually consistent reads per second.


☒ TRUE (Correct)

☐ FALSE

Explanation

One strongly consistent read consumes one unit of read capacity. An eventually consistent read consumes half that.

Retake Test [Continue >](#)  



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Question 19: **Correct**

Setting the SQS visibility timeout to "0" will do which of the following:

☒ Make messages immediately available for processing. (Correct)

☐ Remove the message from the queue.

☐ Invoke a call to reprocess the message.

☐ None of these things.

Explanation

The visibility timeout is the time during which the message is invisible to workers. If this interval is set to "0", the message will be immediately available for processing.

Question 20: **Correct**



You've created an online forum to which your users post questions and comments. The thread table has many users, and each user has many posts, each marked by a timestamp. Which primary key configuration would be best suited to see all posts by a particular user in chronological order?


☒ A composite key with UserID as the partition key and the timestamp as the sort key. (Correct)

☐ A composite key with UserID as the range key and timestamp as the sort key.

☐ A composite key with UserID as the sort key and timestamp as the hash key.

☐ A composite key with UserID as the sort key and timestamp as the partition key.

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Question 21: Correct

You're using CloudFormation templates to build out staging environments. Which section of the template would you edit in order to allow the user to specify the SSH key-name at start time?

☐ Outputs

☐ Resources

☐ Mappings

☒ Parameters (Correct)

Explanation

The parameters property type in CloudFormation allows you to accept user input when starting the template, allowing you to reference the user input as variable throughout your cloud formation template.

Question 22: Correct



A transport company uses a mobile GPS application to track the location of each of their 60 vehicles. The application records each vehicle's location to a DynamoDB table every 6 seconds. Each transmission is just under 1KB, and throughput is spread evenly within that minute. How many units of write capacity should you specify for this table?


☒ 10 (Correct)

☐ 60

☐ 100

☐

Retake Test Continue >  

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Question 23: Correct

You have an application that needs to read 750 evenly distributed items of 13KB in size every 30 seconds. Your application uses strongly consistent reads. At what level should you provision your read throughput?

☐ 50

☒ 100 (Correct)

☐ 10

☐ 75

Explanation

750 reads every thirty seconds = 25 reads/second. 13KB rounds up to 16KB.  $16/4=4$ ;  $4*25=100$  read capacity units.

Question 24: Correct



Your application needs 50 strongly consistent 1KB writes per second. How many units of write capacity do you need to provision?


☒ 50 (Correct)

☐ 25

☐ 250

☐ 500

Retake Test Continue >  

Go to Dashboard

Question 25: Correct

The default visibility timeout for an item in an SQS queue is?

☐ One minute

☐ Two minutes

☒ Thirty seconds (Correct)

☐ Fifteen seconds

Explanation

The visibility timeout clock starts ticking once Amazon SQS returns the message, and each queue starts with a default visibility timeout setting of 30 seconds.

Question 26: Correct



Which API call would you use to query an item by its partition key?


☐ SortByPartition

☐ ScanItem

☐ QueryItem

☒ GetItem (Correct)

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Question 27: Correct

Which of the following statements about SQS is true:

☐ Messages will be delivered exactly once, but message delivery order is indeterminate.

☒ Messages will be delivered one or more times, and message delivery order is indeterminate. (Correct)

☐ Messages will be delivered exactly once in first-in, first-out order.

☐ Messages will be delivered one or more times in first-in, first-out order.

Explanation

Amazon SQS will deliver each message at least once, but cannot guarantee the delivery order. Because each message may be delivered more than once, your application should be idempotent by design.

Question 28: Correct

Which S3 error code does not correspond to HTTP status code 404?



☐ NoSuchBucket


☒ MissingSecurityHeader (Correct)

☐ NoSuchVersion

☐ NoSuchBucketPolicy

Explanation

Retake Test Continue >  

Go to Dashboard

Question 29: [Correct](#)

True or false: A multi-part upload can be executed while the file is still being created.

☒ TRUE (Correct)

☐ FALSE

**Explanation**

The multi-part upload API will allow you to upload a file to S3. After all parts of the object have been uploaded to S3, use the Complete Multi Part Upload API call to re-assemble the object.

Question 30: [Correct](#)

Eventual consistency applies to which of the following:

☐ All DynamoDB reads.

☐ All S3 reads.


☐ Reads from S3 buckets with the QuickRead feature enabled.

☒ Reads of a DynamoDB table, unless you specify otherwise. (Correct)

**Explanation**

By default, reads from DynamoDB are eventually consistent. However, strongly consistent reads can be specified.

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Question 31: [Correct](#)

An item stored in DynamoDB can have an unlimited number of \_\_\_\_

☐ Arguments

☐ Parameters

☒ Attributes (Correct)

☐ Fields

**Explanation**

There is no limit to the number of attributes that an item can have. However, the total size of an item, including attribute names and attribute values, cannot exceed 400KB.

Question 32: [Correct](#)

True or False: A DynamoDB item is a collection of key-value attributes.

☒ TRUE (Correct)


☐ FALSE

**Explanation**

DynamoDB supports key-value and document data structures. Please see the DynamoDB FAQ for more details.

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Question 33: Correct

You have invoked the `CreateTable` operation to create several DynamoDB tables for a new project. While doing so, you receive a `LimitExceededException` error. You have not exceeded your maximum number of tables per account, and the table state is "creating." What could account for this error?

☐ You attempted to create global secondary indexes at table creation time.

☒ You attempted to create more than one table with a secondary index at the same time. (Correct)

☐ You attempted to create local secondary indexes at table creation time.

☐ You forgot to ask AWS to pre-warm the table.

Explanation

You can only create one secondary index at a time. Create the second table and its accompanying index after the first table has status = "active."

Question 34: Correct



Which of the following is not a common S3 API call?


☒ ReadObject (Correct)

☐ DownloadBucket

☐ CompleteMultipartUpload

☐ UploadPart

Retake Test Continue >  



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Question 35: Correct

Which of the following platforms are not supported in ElasticBeanstalk (Choose 2)?

☐ Node.js

☒ Erlang (Correct)

☐ Go

☒ Oracle WebLogic (Correct)

Explanation

Elastic beanstalk supports common platforms like Node.js, Ruby, Python, PHP, and Java. Please see the Elastic Beanstalk documentation for a complete list.

Question 36: Correct



What is the maximum life-span of an SWF task or workflow execution?


☒ 1 year (Correct)

☐ 1 month

☐ 14 days

☐ 1 week

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Question 37: Correct

What is the main difference between an EBS-backed instance and an instance store-backed instance?

☒ An EBS backed instance can be stopped and restarted. (Correct)

☐ An amazon VPC requires that instances be backed with EBS.

☐ Instance-store backed instances can be stopped and restarted.

☐ If you want to use auto-scaling, you must use an EBS-backed instance.

Explanation

EBS-backed instances can be stopped and restarted without losing the data on the volume.

Question 38: Correct



A composite key comprising hash and range keys is the same thing as a composite key comprising partition and sort keys?


☒ TRUE (Correct)

☐ FALSE

Explanation

As of Fall 2016, the AWS Certified Developer - Associate exam still uses the old terminology. A hash key and a partition key are the same thing, as are range and sort keys.

Retake Test [Continue >](#)  

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Question 39: Incorrect

As you retrieve information from DynamoDB, you receive a ProvisionedThroughputExceededException error. Further investigation shows that you're not exceeding your table's read capacity throughput. What is causing this error?

☒ You are exceeding an individual partition's throughput capacity. (Correct)

☐ The table is warming up, and this process consumes throughput. (Incorrect)

☐ You have too many sort keys on your table.

☐ AWS metrics do not run in real time. This error will disappear.

Explanation

DynamoDB distributes capacity evenly across all available partitions. If a given partition is consuming more than its share of throughput, this error will be raised.

Question 40: Correct



While working with the S3 API, you receive an error: 403 forbidden. Which of the following error codes corresponds with this error?

☒ AccessDenied (Correct)

☐ InvalidArgument

☐ BucketNotEmpty

☐ ExpiredToken

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☰

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Question 41: **Incorrect**

AWS recommends that you use Multipart Upload for files larger than \_\_\_\_.

☒ 5TB (Incorrect)

☐ 5GB

☐ 1GB

☐ 100MB (Correct)

Explanation

Multipart upload is recommended for files greater than 100MB, and is required for files larger than 5GB.

Question 42: **Correct**

How do you increase the number of CloudFormation stacks you are allowed to have in a given region?

☒ Contact AWS and request an increase. (Correct)

☐ Use the DelimitStacks API call.

☐ Use the Account Override feature in the console.

☐ The limit cannot be increased.

Explanation

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Question 43: **Skipped**

What is the minimum size of an S3 object?

☐ 1 bit

☐ 1 byte

☒ 0 bytes (Correct)

☐ 1 kb

Explanation

The minimum size of an object is 0 bytes (empty or 'touched' files are permitted), and the maximum size of an object is 5TB.

Question 44: **Correct**

You have items in your table that are 12KB in size and your application needs 10 strongly consistent reads per second. How many read capacity units should you provision?

☐ 10

☐ 15


☒ 30 (Correct)

☐ 60

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Question 45: **Correct**

One DynamoDB read capacity unit is equal to one strongly consistent read per second.

☒ TRUE

(Correct)

☐ FALSE

Explanation

One strongly consistent read requires one read capacity unit.

Question 46: **Incorrect**

You need to attach an EBS volume to an EC2 instance. Which API call should you use?

☒ MountVolume

(Incorrect)

☐ AttachEBSVolume

☐ AttachVolume



(Correct)


☐ MountEBSVolume

Explanation

AttachVolume is the correct API call.

Question 47: **Incorrect**

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Question 47: **Incorrect**

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 financial loss to your business. What is an effective method to mitigate this?

☐ Use a cloud front distribution for static content.

☐ Remove public read access and use a signed URL with an expiry date.

(Correct)

☒ Use security groups to block the IP addresses of the offending websites.

(Incorrect)

☐ Store the photos on an EBS volume backing the web server.

Explanation

As the owner of the object, you can use your security credentials to others time-limited permission to download objects.

Question 48: **Incorrect**

Which of the following DynamoDB API calls does not consume capacity units?

☒ UpdateItem



(Incorrect)


☐ UpdateTable

(Correct)

☐ GetItem

☐ DeleteItem

Retake Test [Continue >](#)  

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Question 49: **Correct**

Your application needs 100 strongly consistent reads on items that are 9KB in size every second. How many units of read capacity units should you provision?

☐ 150

☐ 200

☒ 300 (Correct)

☐ 350

**Explanation**

9KB rounds up to 12KB.  $12/4=3$  read capacity units.  $3*100=300$  read capacity units.

Question 50: **Incorrect**

S3 bucket names may only contain only lower case letters, periods, numbers, and dashes.


☐ TRUE (Correct)

☒ FALSE (Incorrect)

**Explanation**

S3 bucket names may only contain only lower case letters, periods, numbers, and dashes. Bucket names must not be formatted as an IP address, and they may not begin with a period.

Retake TestContinue >⚙️🔍

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Question 51: **Correct**

Which of the following is true about S3 server-side encryption?

☐ You must decrypt the data after transmission.

☒ It uses AES-256 encryption. (Correct)

☐ You are responsible for your own encryption keys.

☐ You must decrypt the data before transmission.

**Explanation**

Amazon S3 server-side encryption uses one of the strongest block ciphers available, 256-bit Advanced Encryption Standard (AES-256), to encrypt your data.

Question 52: **Correct**

True or false: when naming an S3 bucket, you may use capital letters:


☐ TRUE

☒ FALSE (Correct)

**Explanation**

Capital letters are not allowed when naming an S3 bucket. Similarly, bucket names may not begin or end with a period, and AWS recommends that all bucket names comply with DNS naming conventions.

Retake TestContinue >⚙️🔍

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Question 53: Correct

Which of the following cannot be used inside a CloudFormation template:

☐ Intrinsic functions

☒ Ruby statements (Correct)

☐ Parameters

☐ Regular expressions

Explanation

A template is a JSON-formatted text file that describes your AWS infrastructure. Follow the link below for an overview of the anatomy of a CloudFormation template: <http://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/template-anatomy.html>

Question 54: Correct



Which of the following statements about DynamoDB is true:


☐ DynamoDB uses a pessimistic locking model.

☐ DynamoDB uses restricts item access during writes.

☒ DynamoDB uses conditional writes for consistency. (Correct)

☐ DynamoDB uses restricts item access during reads.

Retake Test Continue >  

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Question 55: Correct

Your mobile application needs to read data from DynamoDB. What is the best way to give mobile devices permissions to read from DynamoDB?

☒ Create an IAM role that can be assumed by an app that allows federated users. (Correct)

☐ Issue an access key and secret access key to each user.

☐ Connect your application to an EC2 instance with permission to read from DynamoDB.

☐ Create an IAM role for your users.

Explanation

Web identity federation removes the need for creating individual IAM users. Instead, users can sign in to an identity provider and then obtain temporary security credentials from the AWS Security Token Service.

Question 56: Correct



Which of the following statements about DynamoDB is true?


☐ DynamoDB does not support conditional writes.

☐ DynamoDB is a service of AWS RDS.

☒ DynamoDB uses optimistic concurrency control. (Correct)

☐ None of the above

Retake Test Continue >  

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Question 57: Correct

How long can a message be retained in an SQS Queue?

☐ 1 day

☐ 7 days

☒ 14 days (Correct)

☐ 30 days

Explanation

Messages will be retained in queues for up to 14 days.

Question 58: Correct

True or False: In DynamoDB, a primary key can either be a single-attribute partition key or a composite partition/sort key.


☒ TRUE (Correct)

☐ FALSE

Explanation

A primary key can either be a single-attribute partition key or a composite partition-sort key.

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Explanation

A primary key can either be a single-attribute partition key or a composite partition-sort key.

Question 59: Correct

True or False: A local secondary index is an index that has the same partition key as the table, but a different sort key.

☒ TRUE (Correct)

☐ FALSE

Explanation

A local secondary index maintains an alternate sort key for a given partition key value.

Question 60: Correct

You can stop and restart a multi-part upload.

☒ TRUE (Correct)

☐ FALSE

Explanation

It is possible to stop a multi-part upload. Once stopped, the upload may be aborted or resumed.

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