



Navigation

Practice Mode: Score will not be recorded

Courses / AWS Certified Developer - Associate Level (/cp/modules/view/id/11)

Quiz Results: Concept Review Exam

Fail

IMPORTANT: To increase your chances of success, do not only review the correct answers, but go back to the course materials to ensure a complete understanding of the topic.

1. **1)** S3 names are stored lexicographically (alphabetical order).

Correct**Correct answer**

True

Explanation

<http://docs.aws.amazon.com/AmazonS3/latest/API/mpUploadComplete.html>: Amazon S3 maintains an index of object key names in each AWS region. Object keys are stored lexicographically across multiple partitions in the index. That is, Amazon S3 stores key names in alphabetical order. The key name dictates which partition the key is stored in. Using a sequential prefix, such as time-stamp or an alphabetical sequence, increases the likelihood that Amazon S3 will target a specific partition for a large number of your keys, overwhelming the I/O capacity of the partition. If you introduce some randomness in your key name prefixes, the key names, and therefore the I/O load, will be distributed across more than one partition.

Further Reading<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11>)

2. **2)** You need to announce an emergency downtime for a production AWS web application. This downtime notification will require different sets of instructions for different devices. All of the application users signed up to receive SNS notifications from the "mywebapp" topic when they began using the application and they are currently subscribed to this topic. What are appropriate ways for you to provide timely, device-specific instructions to end users when announcing this downtime?

Correct**Correct answer**

Send a single message, but customize the text in the SNS message field so that each device gets only the information that is appropriate for them

Explanation

A & B could work, but C is the quickest and easiest resolution. Using the SNS JSON message generator, you can choose the appropriate endpoint types and edit the generated code to send different text to the different endpoint types.

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

Incorrect**Correct answer**

True

Explanation

Strongly consistent reads require more effort and consume twice as many database resources as an eventually consistent read.

Further Reading



4. 4) A SWF workflow task or task execution can live up to _____ long?

Correct

Correct answer

1 year

Explanation

SQS messages live up to 14 days, BUT an SWF workflow or task execution can last up to 1 year.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/122/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/122/lesson/1/module/11>)

5. 5) 10.2.181.56 is a valid S3 bucket name.

Correct

Correct answer

False

Explanation

Bucket names must not be formatted as an IP address.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11>)

6. 6) As you retrieve information from DynamoDB, you receive this error: "ProvisionedThroughputExceededException", but upon investigation you notice that you're not exceeding your table read capacity throughput. What is causing this error?

Correct

Correct answer

We are exceeding a partition's throughput capacity, even if we're not exceeding the table throughput capacity

Explanation

How can we exceed a partition's capacity if we're not exceeding table capacity? Because DynamoDB distributes capacity among all of the different partitions. Since DynamoDB uses our partition keys (previously known as Hash keys) to group data in different partitions, if we query the similar data over and over again, we will exceed that partition's throughput capacity - we will have uneven distribution of load. This is why it's very important to choose partition keys that are well distributed.

7. 7) A recent increase in the amount of users of an application hosted on an EC2 instance that you manage has caused the instance's OS to run out of CPU resources and crash. The crash caused several users' unsaved data to be lost and your supervisor wants to know how this problem can be avoided in the future. Which of the following would you not recommend?

Incorrect

Correct answer

Take frequent snapshots of the EBS volume during business hours to ensure users' data is backed up.

Explanation

Snapshots can cause performance degradation. If your application is already under a heavy load, creating snapshots during business hours could worsen the problem. In addition, taking a snapshot of the EBS volume will not capture the users' unsaved data as it resides in the EC2 instance's memory, not on the EBS volume.

8. 8) What is one key difference between an Amazon EBS-backed and an instance-store backed instance?

Incorrect

Correct answer

Amazon EBS - backed instances can be stopped and restarted.

Explanation

You can stop and restart your instance if it has an Amazon EBS volume as its root device. The instance retains its instance ID, but can change as described in the Overview section. When you stop an instance, we shut it down. We don't charge hourly usage for a stopped instance, or data transfer fees, but we do charge for the storage for any Amazon EBS volumes. Each time you restart a stopped instance, we charge a full instance hour, even if you make this transition multiple times within a single hour. While the instance is stopped, you can treat its root volume like any other volume, and modify it (for example, repair file system problems or update software). You just detach the volume from the stopped instance, attach it to a running instance, make your changes, detach it from the running instance, and then

reattach it to the stopped instance. Make sure that you reattach it using the storage device name that's specified as the root device in the block device mapping for the instance. If you decide that you no longer need an instance, you can terminate it. As soon as the state of an instance changes to shutting-down or terminated, we stop charging for that instance. (https://www.cloudassessments.com/c/#/dashboard) (https://scaleyourcode.com)

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/127/lesson/2/module/11> (https://linuxacademy.com/cp/courses/lesson/course/127/lesson/2/module/11)

9. **9)** Which of the following bucket names is invalid?

Incorrect

Correct answer

.linuxacademy.com, LinuxAcademy.com

Explanation

"." characters are allowed inside of bucket names. However, bucket names CANNOT start with "." or "-" characters.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11> (https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11)

10. **10)** While working with the S3 API you receive the error message: 404 Not Found. What is the most likely cause for this error?

Correct

Correct answer

NoSuchBucket

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/6/module/11> (https://linuxacademy.com/cp/courses/lesson/course/118/lesson/6/module/11)

11. **11)** 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?

Correct

Correct answer

Remove public read access and use signed URLs with expiry dates.

12. **12)** Your EC2 component receives a message from a message queue. The message will then become invisible for 30 seconds. What API request must be called in order for the VisibilityTimeout not to make the message visible again?

Incorrect

Correct answer

DeleteMessage

Explanation

The message will become invisible again if the worker instance that is processing the data in the message does not delete the message after it has been successfully completed. This allows another worker to then process the message again if the original worker fails to process the message.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/150/lesson/2/module/11> (https://linuxacademy.com/cp/courses/lesson/course/150/lesson/2/module/11)

13. **13)** Which of the following AWS Services are offered at no cost?

Incorrect

Correct answer

Auto Scaling, Amazon VPC

14. **14)** A benefit of multi-part upload is that you can upload a file as it is being created.

Correct

Correct answer

True

**Explanation**<https://linuxacademy.com/cp/dashboard><https://scaleyourcode.com>

Multi-part upload API allows you to upload parts of an object once broken apart. As a file/object is being created, the multi-part upload API will allow you to upload the file to S3. Only after all parts of the object have been uploaded do you execute the CompleteMultipartUpload API call which completes a multi-part upload by assembling previously uploaded parts.

Further Reading<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11>)

15. **15)** Which S3 error code does not have a corresponding HTTP 404 Status code?

Incorrect**Correct answer**

MissingSecurityHeader

Explanation

An HTTP 404 status code means communication with the service was successful, but the request received a "not found" response. MissingSecurityHeader is an error message received if the S3 API call is missing security API information which prevents the request from being executed successfully. 400 bad request would be the HTTP response code for MissingSecurityHeader.

Further Reading<http://docs.aws.amazon.com/AmazonS3/latest/API/ErrorResponses.html> (<http://docs.aws.amazon.com/AmazonS3/latest/API/ErrorResponses.html>)

16. **16)** A DynamoDB table can contain ____ local secondary indexes on a table.

Correct**Correct answer**

5

Explanation

You can define up to 5 local secondary indexes and 5 global secondary indexes per table.

Further Reading<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11>)

17. **17)** By default, what event occurs if your CloudFormation receives an error during creation?

Correct**Correct answer**

ROLLBACK_IN_PROGRESS

Further Reading<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/3/module/11>)

18. **18)** Which of these CloudFormation snippets of code will return an address that can be used to access our application from our browser if we're using a resource type of AWS::ElasticLoadBalancing::LoadBalancer with Logical ID "ElasticLoadBalancer"?

Correct**Correct answer**

```
"Fn::Join" : [ "", [ "http://", { "Fn::GetAtt" : [ "ElasticLoadBalancer", "DNSName" ] } ] ]
```

Explanation

The answer with "Ref" would return the Elastic Load Balancer physical ID The ["ElasticLoadBalancer", "URL"] is not a valid option (it should be EndpointURL instead)

19. **19)** What is the maximum size of an S3 object?

Correct**Correct answer**

5TB

Explanation

Minimum object size is 0Byte and Maximum object size is 5TB. AWS requires you to use the multi-part upload API in order to upload objects 5GB and larger. It is suggested to use the multi-part upload on objects 100MB or larger.



20. **20)** An item stored in a DynamoDB can contain any number of ____ associated to it.

Correct

Correct answer

Attributes

Explanation

In DynamoDB, an item is a collection of attributes. Each attribute has a name and a value. An attribute value can be a number, a string, a binary, or a set of any of these types.

21. **21)** You're creating a forum DynamoDB database for hosting web forums. Your "thread" table contains the forum name and each "forum name" can have one or more "subjects". What primary key type would you give the thread table in order to allow more than one subject to be tied to the forum primary key name?

Correct

Correct answer

Hash and Range

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11>)

22. **22)** You want to find out what AMIs are available for you to use in a given region. Which API call is most appropriate?

Incorrect

Correct answer

DescribeImages

Explanation

DescribeImages is the only valid API call above. (http://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_DescribeImages.html) While there are a lot of EC2 API calls (see the URL), you do not need to learn all of them. Focus on the ones that are relevant to developers.

Further Reading

http://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_DescribeImages.html
(http://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_DescribeImages.html)

23. **23)** What is the default limit for CloudFormation templates per region?

Incorrect

Correct answer

There are no limits to the number of templates

Explanation

There is no limit to the number of templates, however there is a limit of 200 stacks per AWS account.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/3/module/11>)

24. **24)** At what size file should you use multi-part upload?

Incorrect

Correct answer

100 MB

Explanation

Objects 5GB or larger require multi-part upload API to be uploaded to AWS. However, it is best practice to use the multi-part upload api for objects 100MB or larger.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11>)



25) For which of these languages does AWS provide an SDK? Select 3
<https://linuxacademy.com/cp/dashboard>

(<https://scaleyourcode.com>)

(<https://www.cloudassessments.com/c/#/dashboard>)

Correct

Correct answer

Go, PHP, Java

Further Reading

<https://aws.amazon.com/tools/> (<https://aws.amazon.com/tools/>)

26. **26)** If your table item's size is 3KB and you want to have 90 strongly consistent reads per second, how many read capacity units will you need to provision on the table?

Correct

Correct answer

90

Explanation

90 (reads per second) x 3KB/4 (round up to nearest number) =90 Minimum capacity unit is 4KB in order to calculate required throughput we will need to take the number needed strongly consistent reads (90) and multiply it by the item request size. In order to easily solve that, we take the item size and divide by 4 (4 being the size of a read capacity unit) and round it up.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11>)

27. **27)** A local secondary index is an index that has the same hash key as the table, but a different range key.

Correct

Correct answer

True

Explanation

A secondary index is a data structure that contains a subset of attributes from a table, along with an alternate key to support Query operations. With a secondary index, queries are no longer restricted to the table primary key; you can also retrieve the data using the alternate key defined by the secondary index. A table can have multiple secondary indexes, which gives your applications access to many different query patterns. A local secondary index is an index that has the same hash key as the table, but a different range key.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11>)

28. **28)** You receive a call from a potential client who explains that one of the many services they offer is a website running on a t2.micro EC2 instance where users can submit requests for customized e-cards to be sent to their friends and family. The e-card website administrator was on a cruise and was shocked when he returned to the office in mid-January to find hundreds of angry emails complaining that customers' loved ones had not received their Christmas cards. He also had several emails from CloudWatch alerting him that the SQS queue for the e-card application had grown to over 500 messages on December 25th. You investigate and find that the problem was caused by a crashed EC2 instance which serves as an application server. What do you advise your client to do first?

Incorrect

Correct answer

Send an apology to the customers notifying them that their cards will not be delivered.

Explanation

If an autoscaling group had been in place, it could have prevented this situation by deploying a new application server when the first one crashed. Autoscaling can also help during peak load times, like the holiday season, by deploying additional instances to meet the increased load. Unfortunately, autoscaling cannot resolve the problem of the unsent Christmas cards at this point because the issue occurred in late December and the problem was not discovered until mid-January. The maximum time a message can remain in an SQS queue is 14 days, so these messages have already been deleted. Unless the webserver contains a log of the requests that can be used to re-create the cards, the data cannot be recovered.

29. **29)** Your supervisor is upset about the fact that SNS topics that he subscribed to are now cluttering up his email inbox. How can he stop receiving email from SNS without disrupting other users' ability to receive email from SNS?

Partially Correct

Correct answer

You can delete the subscription from the SNS topic responsible for the emails, He can use the unsubscribe information provided in the emails

**Explanation**<https://linuxacademy.com/cp/dashboard><https://www.cloudassessments.com/cp/#/dashboard><https://scaleyourcode.com>

Deleting the topic would cause all message types to cease for this notification. You cannot delete the endpoint from the subscription, but you can delete the subscription from the topic.

30. **30)** You are working with the S3 API and receive an error message: 409 Conflict. What is the possible cause of this error?

Correct**Correct answer**

You're attempting to remove a bucket without emptying the contents of the bucket first.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/6/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/6/module/11>)

31. **31)** One unit of read capacity is ____ in size?

Correct**Correct answer**

4KB

Explanation

One unit of read capacity is 4KB and one unit of write capacity is 1KB

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11>)

32. **32)** "256" is not the correct answer to which of the following? Select all that apply.

Partially Correct**Correct answer**

What is the maximum S3 bucket name length?, What is the maximum length, in bytes, of a DynamoDB range primary key attribute value?

Explanation

The maximum length of a DynamoDB range primary key attribute value is 2048 bytes. An S3 bucket name can be between 3 and 63 characters long, and can contain only lower-case characters, numbers, periods, and dashes.

33. **33)** Your application is trying to upload a 6 GB file to Simple Storage Service and you receive a "Your proposed upload exceeds the maximum allowed object size." error message. What is a possible solution for this?

Correct**Correct answer**

Use the multipart upload API for this object

Explanation

AWS S3 (Simple Storage Service) allows a maximum object size of 5TB. However, objects 5GB or larger are required to be uploaded using the multipart upload API.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/1/module/11>)

34. **34)** Why will the following CloudFormation template fail to deploy a stack? { "AWSTemplateFormatVersion" : "2010-09-09", "Parameters" : { "VPCId" : { "Type": "String", "Description" : "Enter current VPC Id" }, "SubnetId" : { "Type": "String", "Description" : "Enter a subnet Id" } }, "Outputs" : { "InstanceId" : { "Value" : { "Ref" : "MyInstance" }, "Description" : "Instance Id" } } }

Correct**Correct answer**

A "Resources" section is mandatory but is not included

35. **35)** You have items in your table that are 12KB in size and you want to have 10 strongly consistent reads per second. How many read capacity units would you need to provision?

Correct

**Explanation** $10 \times (12/4) = 30$ **Further Reading**<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11>)

36. **36)** If you have an item that is 4KB in size and you want to provision read capacity units for 100 requests per second, using strongly consistent reads how many read capacity units do you need to provision?

Correct**Correct answer**

100

Explanation $100 \times (4/4) = 100$ **Further Reading**<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11>)

37. **37)** Which statement about DynamoDB is true?

Incorrect**Correct answer**

DynamoDB uses conditional writes for consistency.

Explanation

DynamoDB allows conditional writes to tables. Conditional writes are only performed if the current attributes of the item meet the specified conditions.

Further Reading<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/6/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/6/module/11>)

38. **38)** Your supervisor calls you wanting to know why she has not been receiving email notifications for AWS billing alerts. What do you suspect the problem might be and how can you find out?

Correct**Correct answer**

Your supervisor has not responded to the confirmation email sent from SNS when you added a subscription for her email address. Verify by viewing Subscriptions for the appropriate Topic in SNS, The SNS Subscription is not configured for Email notifications. Verify by viewing Subscriptions for the appropriate Topic in SNS, Billing alerts are not configured. Verify by viewing Billing Alerts in Account Preferences

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

Correct**Correct answer**

10

Explanation

60 seconds / one write per cab every 6 seconds = 10 writes per cab per minute. 60 cabs x 10 writes per cab per minute = 600 total writes per minute. 600 total writes per minute / 60 seconds = 10 writes per second.

40. **40)** Which of the following will not cause a CloudFormation stack deployment to rollback?

Incorrect**Correct answer**

The template contains invalid JSON syntax

Explanation

Invalid JSON syntax will cause an error message during template validation. Until the syntax is fixed, the template will not be able to deploy resources, so there will not be a need to create a Principal to rollback. (https://www.cloudassessments.com/c/#/dashboard) (https://scaleyourcode.com)

41. **41)** You define the following S3 bucket policy to grant users access to your bucket, but the S3 bucket policy editor will not allow you to submit it. Why is this policy not working? { "Id": "Policy1441839160967", "Version": "2012-10-17", "Statement": [{ "Sid": "Stmnt1441839157568", "Action": ["s3:ListBucket"], "Effect": "Allow", "Resource": "arn:aws:s3::: linuxacademy.testbucket.2 " }] }

Correct

Correct answer

S3 bucket policies require a Principal be defined

42. **42)** Company B provides an online image recognition service and utilizes SQS to decouple system components for scalability. The SQS consumers poll the imaging queue as often as possible to keep end-to-end throughput as high as possible. However, Company B is realizing that polling in tight loops is burning CPU cycles and increasing costs with empty responses. How can Company B reduce the number of empty responses?

Correct

Correct answer

Set the imaging queue ReceiveMessageWaitTimeSeconds attribute to 20 seconds.

Explanation

ReceiveMessageWaitTimeSeconds when set to greater than zero enables long polling. Long polling allows the Amazon SQS service to wait until a message is available in the queue before sending a response. Short polling continuously polls a queue and can have false positives. Enabling long polling reduces the number of poll requests, false positives, and empty responses.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/127/lesson/1/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/127/lesson/1/module/11>)

43. **43)** Which of the following can be increased by contacting AWS?

Correct

Correct answer

S3 buckets per account, DynamoDB tables per account per region

44. **44)** You've enabled website hosting on a bucket named "linuxacademy.com" in the US-East-1 (US standard region). Select the URL you'll receive from AWS as the URL for the bucket.

Correct

Correct answer

linuxacademy.com.s3-website-us-east-1.amazonaws.com

Explanation

The default URL for S3 hosted websites lists the bucket name first followed by s3-website-region.amazonaws.com

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/2/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/118/lesson/2/module/11>)

45. **45)** Your items are 6KB in size and you want to have 100 strongly consistent reads per second. How many read capacity units do you need to provision?

Correct

Correct answer

200

Explanation

100 (reads per second) x 2 (6KB/4KB = 1.5 round to 2) = 200 read throughput capacity units. A unit of read capacity is 4KB in size. In order to calculate the number of required capacity units, we take the item size (6KB) divided by the size of a single unit of read throughput capacity (4KB) and multiple that by the number of needed reads per second.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/4/module/11>)



46. 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 all tasks are processed more than once. What AWS service should you recommend?
(<https://linuxacademy.com/cp/dashboard>) (<https://scaleyourcode.com/>) (<https://www.cloudassessments.com/c/#/dashboard>)

Correct

Correct answer

SWF

Explanation

SWF workflows can last up to a year and tasks are guaranteed to be processed in the correct order.

47. 47) Which API call would you use to query an item by it's primary hash key?

Correct

Correct answer

GetItem

Explanation

The GetItem operation returns a set of Attributes for an item that matches the primary key. If there is no matching item, GetItem does not return any data. It is suggested that you become familiar with the DynamoDB API calls.

Further Reading

http://docs.aws.amazon.com/amazondynamodb/latest/APIReference/API_GetItem.html
(http://docs.aws.amazon.com/amazondynamodb/latest/APIReference/API_GetItem.html)

48. 48) Which of the following are supported platforms in Elastic Beanstalk?

Correct

Correct answer

Microsoft IIS, Apache

Explanation

Supported platforms are covered in this lecture: <https://linuxacademy.com/cp/courses/lesson/course/613/lesson/1/module/11>

49. 49) Which statement about DynamoDB is true?

Incorrect

Correct answer

DynamoDB uses optimistic concurrency control.

50. 50) You have reached your account limit for the number of CloudFormation stacks in a region. How do you increase your limit?

Correct

Correct answer

Contact AWS.

Explanation

AWS CloudFormation by default allows 20 stacks per region to be running at any given time. In order to increase this limit all you can contact AWS through an limit increase form.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/3/module/11>)

51. 51) Which of the following are subject to eventual consistency?

Correct

Correct answer

Reads of a DynamoDB table, unless you specify otherwise

Explanation

Reads of a DynamoDB table are subject to eventual consistency by default, but you can choose strongly consistent reads instead.



52) Which API call would you use to attach an EBS volume to an EC2 instance?
(<https://linuxacademy.com/cp/dashboard>)



(<https://www.cloudassessments.com/c/#/dashboard>)

(<https://scaleyourcode.com>)

Incorrect

Correct answer

AttachVolume

53. 53) Which of the following types of servers would this CloudFormation template be most appropriate for? { "AWSTemplateFormatVersion" : "2010-09-09", "Description" : "My CloudFormation Template", "Resources" : { "MyInstance" : { "Type" : "AWS::EC2::Instance", "Properties" : { "InstanceType" : "t2.micro", "ImageId" : "ami-030f4133", "NetworkInterfaces" : [{ "AssociatePublicIpAddress" : "true", "DeviceIndex" : "0", "DeleteOnTermination" : "true", "SubnetId" : "subnet-0c2c0855", "GroupSet" : ["sg-53a4e434"] }] } } } }

Incorrect

Correct answer

Bastion host

Explanation

The CloudFormation template specifies a public IP address for the server. A domain controller, database server, and log collection server typically would not require a public IP address. Bastion hosts do require public IP addresses.

54. 54) What kind of message does SNS send to endpoints?

Correct

Correct answer

A JSON document with parameters like Message, Signature, Subject, Type

Explanation

Amazon SNS messages do not publish the source/destination

55. 55) DynamoDB supports two types of primary keys, "Hash Type" and "Hash and Range Type" primary keys.

Correct

Correct answer

True

Explanation

These have been more recently renamed to Partition Key and Partition Key and Sort Key, though the exam may not reflect it yet.

56. 56) By default, AWS allows you to have ____ tables per account, per region.

Correct

Correct answer

256

Explanation

Default table limit in EACH region is 256. If more tables are needed, then all is required is a request to AWS to increase the table limit.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11> (<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/3/module/11>)

57. 57) You are creating several DynamoDB tables for a new project. While doing so, you receive the error message, "LimitExceededException." You are well below the maximum number of tables per account and there is no read or write activity on the tables yet. Why have you received this error?

Correct

Correct answer

You attempted to create more than one table with a secondary index at a time

Explanation

You can create global and local secondary indexes at the same time you create a table, but you must wait for the first table with a secondary index to become active before creating the next one. Failure to do so produces the "LimitExceededException" error.

<http://docs.aws.amazon.com/amazondynamodb/latest/developerguide/SecondaryIndexes.html>

58. You are creating a CloudFormation template in the Singapore region which will create an S3 website bucket. You have created a parameter `LinuxAcademy` which is used to store the name of your S3 bucket, and you are hoping to create output from your template which will list the URL of the S3 website. Which of the following Join statements will provide the URL of your S3 website?

Correct

Correct answer

```
"Fn::Join" : [ "", [ "http://", { "Ref": "LinuxAcademy" }, ".s3-website-", { "Ref": "AWS::Region" }, ".amazonaws.com" ] ]
```

Explanation

The easiest way to return the URL of an S3 bucket in a CloudFormation template is `"Fn::GetAtt" : ["logical name of your AWS::S3::Bucket", "WebsiteURL"]`. Of the choices above, however, Answer C is the only one with the correct Join syntax to return the valid URL of the bucket.

59. You want 5 strongly consistent 1KB writes per second. How many units of throughput capacity do you need to provision?

Correct

Correct answer

5

Explanation

The only option for a write is strongly consistent. The throughput units needed to write 5 strongly consistent writes per second of 1KB in size is $5 \times 1 = 5$.

60. You have created an Elastic Load Balancer with Duration-Based sticky sessions enabled in front of your six EC2 web application instances in US-West-2. For High Availability, there are three web application instances in Availability Zone 1 and three web application instances in Availability Zone 2. To load test, you set up a software-based load tester in Availability Zone 2 to send traffic to the Elastic Load Balancer, as well as letting several hundred users browse to the ELB's hostname. After a while, you notice that the users' sessions are spread evenly across the EC2 instances in both AZ's, but the software-based load tester's traffic is hitting only the instances in Availability Zone 2. What steps can you take to resolve this problem?

Partially Correct

Correct answer

Use a third party load-testing service to send requests from globally distributed clients, Force the software-based load tester to re-resolve DNS before every request

Explanation

"If you do not ensure that DNS is re-resolved or use multiple test clients to simulate increased load, the test may continue to hit a single IP address when Elastic Load Balancing has actually allocated many more IP addresses. Because your end users will not all be resolving to that single IP address, your test will not be a realistic sampling of real-world behavior." <http://aws.amazon.com/articles/1636185810492479>

Retake Quiz (/cp/quiz/start/quiz/88/module/11)



