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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)** You would like to set up a static website on S3 with the least possible effort. The URL of the website is unimportant to you. Which of the following steps are necessary?

Correct

Correct answer

Upload an index document to your S3 bucket, Enable static website hosting in your S3 bucket properties, Select the “Make Public” permission for your bucket’s objects

2. **2)** 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.

3. **3)** Which of the following is an incorrect S3 bucket name?

Incorrect

Correct answer

10.2.181.2, 1Linuxacademy.com

4. **4)** Which API call would you use to query an item by its primary hash key?

Incorrect

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

5. **5)** 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

6. **6)** 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. What AWS service should you recommend?

Correct

Correct answer

SWF

Explanation

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

7. **7)** The only SNS notification event supported by S3 is S3:ReducedRedundancyLostObject.

Correct

Correct answer

False

Explanation

S3 provides the S3:ReducedRedundancyLostObject for objects that are using the Reduce Redundancy Storage class on Amazon S3. This notification is used with SNS and sends a JSON object notification to the subscribed SNS topics if an object is lost by Amazon S3. This allows you to create automation and be informed with RRS (99.9% durability storage) has an object data loss from one of your buckets. AWS now supports event notifications for object creation as well.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/120/lesson/6/module/11>

8. **8)** 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>

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

Correct

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 or opportunity to rollback.

10. **10)** Which of the following is a default limit in S3?

Correct

Correct answer

Accounts can have a maximum of 100 buckets

Explanation

This "used" to be a hard limit. However, in 2015 AWS changed it so it was only a soft limit and an increase can be requested.

11. **11)** Which of the following is true about S3 Server-Side Encryption?

Correct

Correct answer

It uses AES-256

12. **12)** Which of the following statements is true about DynamoDB?

Correct

Correct answer

Requests are eventually consistent unless otherwise specified.

Explanation

Data is eventually consistent because DynamoDB maintains multiple copies of an item to ensure durability. The default read is an eventually consistent read. You can specify strongly consistent reads but it does require additional read capacity units each request. However, it will receive the most recent version of the item if you specify a strongly consistent read.

Further Reading

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

13. **13)** You have an EC2 instance deployed with an IAM role with write access permissions to an SQS queue. The instance is attempting to write a 512 KB message to an SQS queue. What will the result of this attempt be?

Correct

Correct answer

It will fail because it is greater than the 256 KB limit for SQS messages.

Explanation

While it is true that SQS requests are measured in 64 KB chunks, the maximum message size is 256 KB, so a 512 KB message will not be accepted.

14. **14)** 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>

15. **15)** A global secondary index is an index with a hash and range key that can be different from those on the table.

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. In a global secondary index, the Hash & Range key are different than that of the table therefore queries on the index can span all the data in the table across all partitions.

16. **16)** A DynamoDB item is a collection of name and value attributes.

Correct

Correct answer

True

17. **17)** 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>

18. **18)** 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>

19. **19)** Which DynamoDB API call does not consume capacity units?

Correct

Correct answer

UpdateTable

Explanation

The UpdateTable API call is used to change the required provisioned throughput capacity.

Further Reading

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

20. **20)** 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).

21. **21)** 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.

22. **22)** You attempt to store a new object in the US-STANDARD region in Amazon S3 and receive a confirmation that it has been successfully stored. You then immediately make another API call and attempt to read this object. Will you be able to read this object immediately after?

Correct

Correct answer

Yes, US-Standard has read-after-write consistency which means you will have access to the object immediately after.

Further Reading

<http://docs.aws.amazon.com/AmazonS3/latest/dev/LocationSelection.html>

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

Correct

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>

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

Correct

Correct answer

True

Explanation

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

Further Reading

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

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

Correct

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>

26. **26)** While working with the S3 API, you receive the following error: 409 Conflict. What is the most

likely cause?

Correct

Correct answer

BucketAlreadyExists

Explanation

S3 error codes are handled with HTTP error responses. 409 conflict means there is a conflicting issue.

Further Reading

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

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

Correct

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>

28. **28)** 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>

29. **29)** Which of the following is NOT a common S3 API call?

Incorrect

Correct answer

ReadObject

Explanation

ReadObject is not an S3 call. Getting a general overview of S3 API calls will help you on the exam.

Further Reading

<https://linuxacademy.com/cp/modules/view/id/11>

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

Incorrect

Correct answer

True

Explanation

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>

31. **31)** 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

$90 \text{ (reads per second)} \times 3\text{KB}/4 \text{ (round up to nearest number)} = 90$ 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>

32. **32)** Which API call would you use to attach an EBS volume to an EC2 instance?

Incorrect

Correct answer

AttachVolume

33. **33)** 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>

34. **34)** Default timeout for visibility queue is _____ seconds.

Incorrect

Correct answer

30

Further Reading

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

35. **35)** Multi-part upload API allows you to stop and resume uploads.

Incorrect

Correct answer

True

Further Reading

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

Correct

Correct answer

S3 buckets per account, DynamoDB tables per account per region

37. **37)** 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, than 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>

38. **38)** What would you set in your CloudFormation template to fire up different instance sizes based off of environment type? i.e. (If this is for prod, use m1.large instead of t1.micro)

Correct

Correct answer

conditions

Explanation

Conditions allow you to cause different resources to be launched that are listed in the template. If a specific condition is met for the resource, then the resource is launched. Conditions are created in their own property section and then referenced in the resource declaration.

Further Reading

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

39. **39)** 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?

Incorrect

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

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.

40. **40)** 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>

41. **41)** You have created a mobile application that relies on reading data from DynamoDB. How could you give each mobile device permissions to read from DynamoDB?

Correct

Correct answer

Create an IAM role that can be assumed by an app that allows federated users

Explanation

It is bad practice to store any API credentials in a mobile application. Each mobile device should have their own permissions and access credentials to DynamoDB. In order to facilitate this, you can integrate federated users (Facebook, Google, Twitter, Amazon, etc) credentials with IAM. After authenticated as a federated user, the user/app can then assume an IAM role with the proper read/write permissions to DynamoDB.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/119/lesson/7/module/11>

42. **42)** Setting the VisibilityTimeout = 0 has what affect on your message?

Correct

Correct answer

Makes the message immediately available

Explanation

VisibilityTimeout defines how long a message is INVISIBLE to other workers after being accessed by a worker. It is invisible so the worker who retrieved the message has the opportunity to process the message and remove it from the queue. If the worker is not successfully in processing the message, the VisibilityTimeout then expires and the message is again available to be accessed by another worker. This ensures that if part of your application fails the message is not lost.

Further Reading

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

43. **43)** 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

44. **44)** A unit of "read capacity" represents one strongly consistent read per second or two eventually consistent reads per second.

Correct

Correct answer

True

Further Reading

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

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

Correct

Correct answer

can only be used to launch EC2 instances in the same AWS region as the AMI is stored.

Explanation

AMIs cannot be launched into another region. In order to launch a given AMI that lives in one region,

into another, you can copy the AMI from one region to another.

Further Reading

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

46. **46)** 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.

47. **47)** Which of the following statements about SQS is true?

Correct

Correct answer

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

Explanation

Due to the distributed nature of SQS, messages can be duplicated. SQS does not guarantee that messages will be delivered only once but SQS does guarantee at least one message will be delivered. It is up to the developer to build logic into the code to ensure duplicate messages do not influence your application.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/150/lesson/1/module/11>

48. **48)** Which of the following cannot be used inside a CloudFormation template?

Correct

Correct answer

Ruby statements

Explanation

CloudFormation uses JSON templates.

49. **49)** 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>

50. **50)** You're using CloudFormation templates to build out staging environments. What section of the CloudFormation would you edit in order to allow the user to specify the PEM key-name at start time?

Correct

Correct answer

Parameters Section

Explanation

Parameters property type in CloudFormation allows you to accept user input when starting the CloudFormation template. It allows you to reference the user input as variable throughout your CloudFormation template. Other examples might include asking the user starting the template to provide Domain admin passwords, instance size, pem key, region, and other dynamic options.

Further Reading

<https://linuxacademy.com/cp/courses/lesson/course/121/lesson/1/module/11>

51. **51)** 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>

52. **52)** S3 Bucket ownership is transferable.

Incorrect

Correct answer

False

Explanation

Bucket ownership is not transferable; however, if a bucket is empty, you can delete it. After a bucket is deleted, the name becomes available to reuse, but the name might not be available for you to reuse for various reasons.

Further Reading

<http://docs.aws.amazon.com/AmazonS3/latest/dev/BucketRestrictions.html>

53. **53)** 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?

Partially 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

54. **54)** What is the minimum size of an S3 object?

Correct

Correct answer

0 bytes

Explanation

The minimum size of an object is 0 byte and the maximum size of an object is 5TB. Objects that are 5GB in size or larger must use the multi-part upload API in order to be uploaded to S3.

Further Reading

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

55. **55)** 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>

56. **56)** 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>

57. **57)** 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.

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

Incorrect

Correct answer

Auto Scaling, Amazon VPC

59. **59)** While working with the S3 API you receive the error: 403 forbidden. What is the most likely cause of this?

Correct

Correct answer

AccessDenied

Further Reading

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

60. **60)** 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.

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Cloud Servers

Set Region:

#	Distribution	Server Actions	Status	Public IP	Private IP	Public Hostnames	Device Mount	Expire Date
								

[illegible]

Refresh Timeout

Close

Connecting to Cloud Servers

Root user login is disabled by default. Please see instructions on how to connect.
Root access is allowed only after logging in as user "user" or any other regular user.

1. Once logged in with "user" type "su"
2. Enter password "123456"
3. Confirm password "123456"
4. Enter your own customer password
5. Root login is disabled by default so you will always need to login as a regular user first

A Virtual Machine is being provisioned for you, this may take a few moments.
The cost of the real Cloud Servers are covered as part of your membership.

How to connect

1. You can connect to the virtual machine once it is running by selecting Login next to the gear box.

□

2. The default username is **user** and default password is **123456**.

□

3. On first login you will enter your **123456** password again a second time.

□

4. Then you can enter in your new password.

□

Ok, got it.

×

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