(3) This quiz has been regraded; your new score reflects 3 questions that were affected.

CMPE 281 - MIDTERM FALL 17 (PART 1)

Due Oct 14 at 10am **Points** 50 **Questions** 35 **Available** until Oct 14 at 10am **Time Limit** 30 Minutes Requires Respondus LockDown Browser

Instructions

CMPE 281 - MIDTERM (PART 1)
Multiple Choice / Short Answer Questions

- You have **30 minutes** on this part of the exam
- This part of the exam is worth 50 points
- · This is a closed book, closed notes exam
- Close all documents, programs and windows on your computer
- The only allowed window should be this Canvas window
- Make sure the Canvas Lockdown Browser window is maximized
- Any violations of this will result in an immediate ZERO score on this exam
- Questions will be presented one-at-a-time and your answers will be locked once submitted
- You may not return to your answers to change them, so make sure allow for enough time on each question

This guiz was locked Oct 14 at 10am.

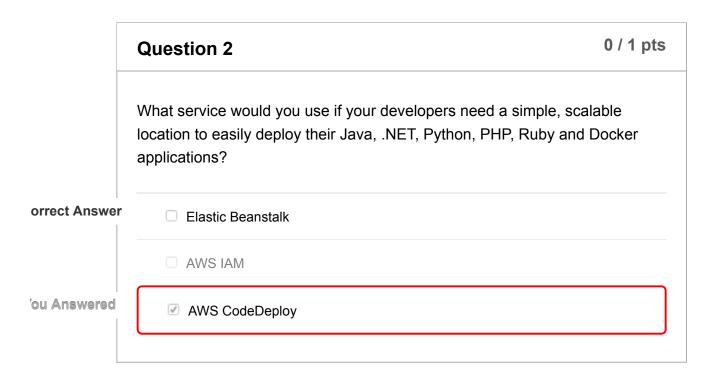
Attempt History

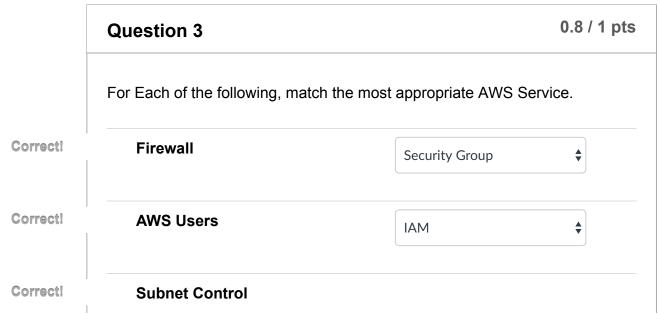
	Attempt	Time	Score	Regraded
LATEST	Attempt 1	29 minutes	28.6 out of 50	31.1 out of 50

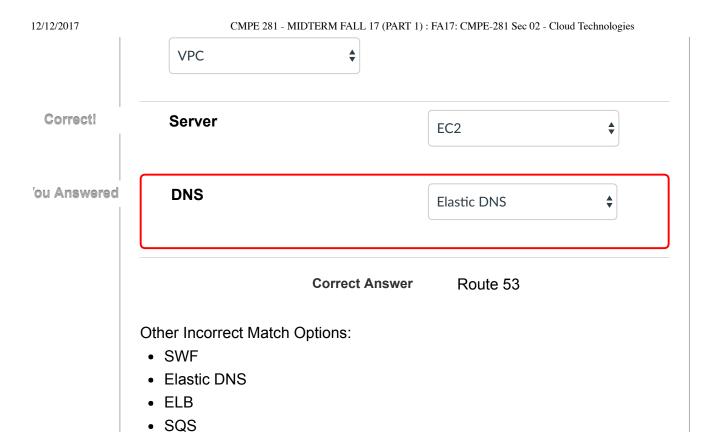
Score for this quiz: **31.1** out of 50 Submitted Oct 14 at 9:52am This attempt took 29 minutes.

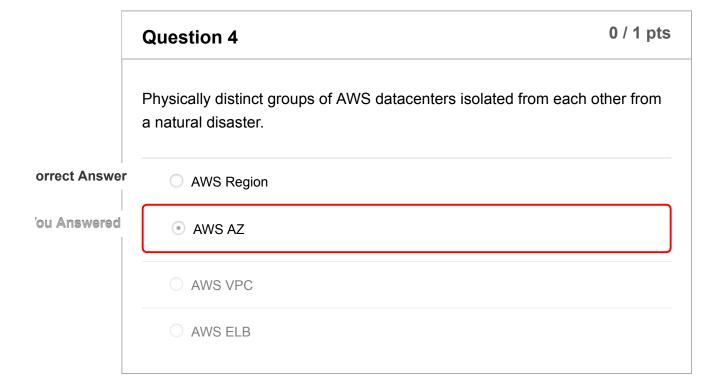
Question 1 Original Score: 0 / 1 pts Regraded Score: 0.5 / 1 pts

This question has been regraded. Where can you find AWS Products and Services? Only via API On the AWS Management Console Service Catalog









Question 5 0.5 / 1 pts

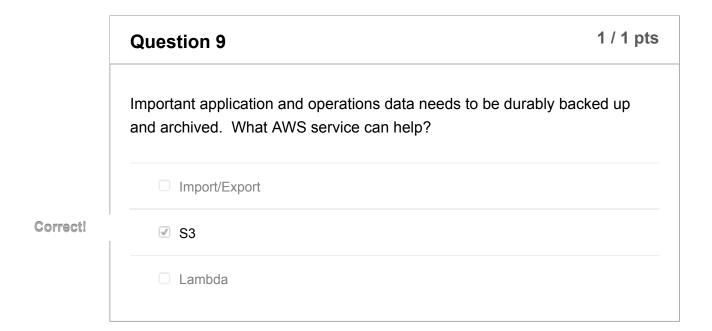
What Amazon service allows you to automatically expand EC2 capacity?

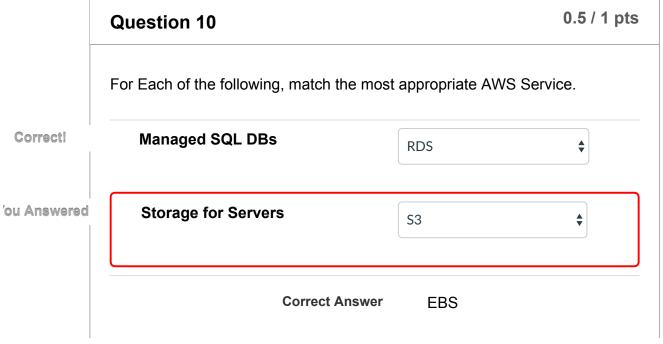
Your web application needs credentials and authorization to read/write a Amazon DynamoDB table and a Amazon S3 bucket. What AWS service would you use?

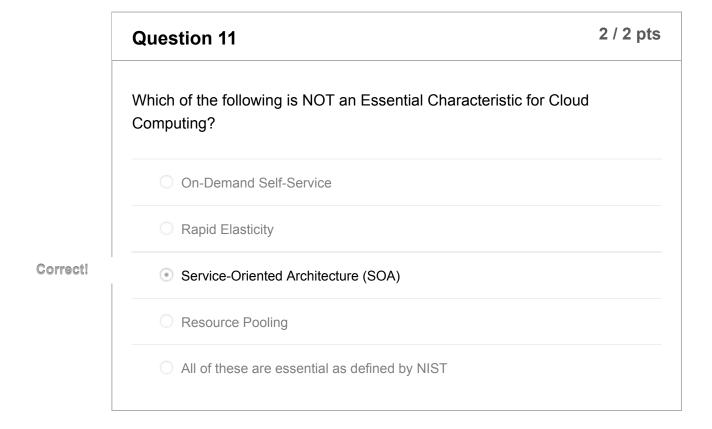
CloudFormation

AWS IAM

Elastic Beanstalk





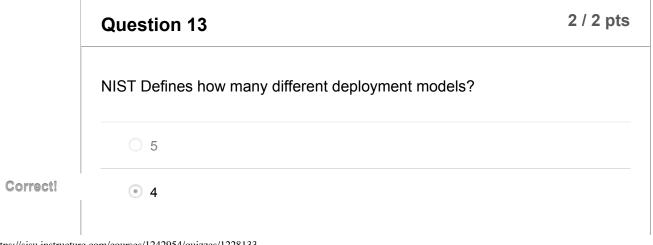


Matching the statements below to the best Selection Strategy for Cloud Services:

Question 12

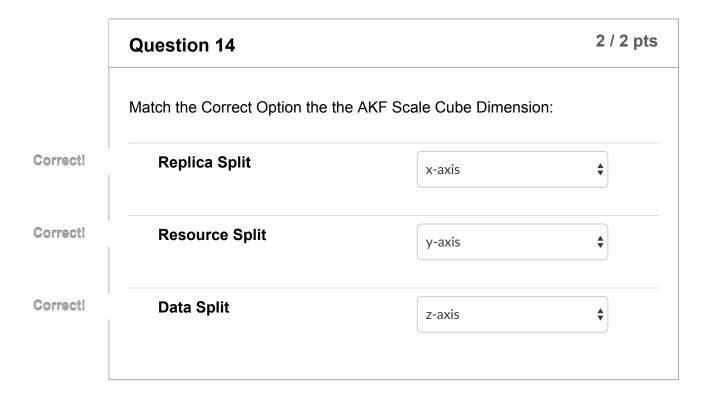
DynamoDBSimpleDB

0.5 / 2 pts



Security Requirements

O 3	
O 2	
O 1	



Question 15	Original Score: 0 / 2 pts Regraded Score: 2 / 2 pts
	This question has been regraded.
What was the and talk?	alogy used for Cloud Computing in the "Power of the Cloud"
Rental Car	
Online Serv	rice
Renting	
Pay-as-you	-Go

Correct!

O Hotel

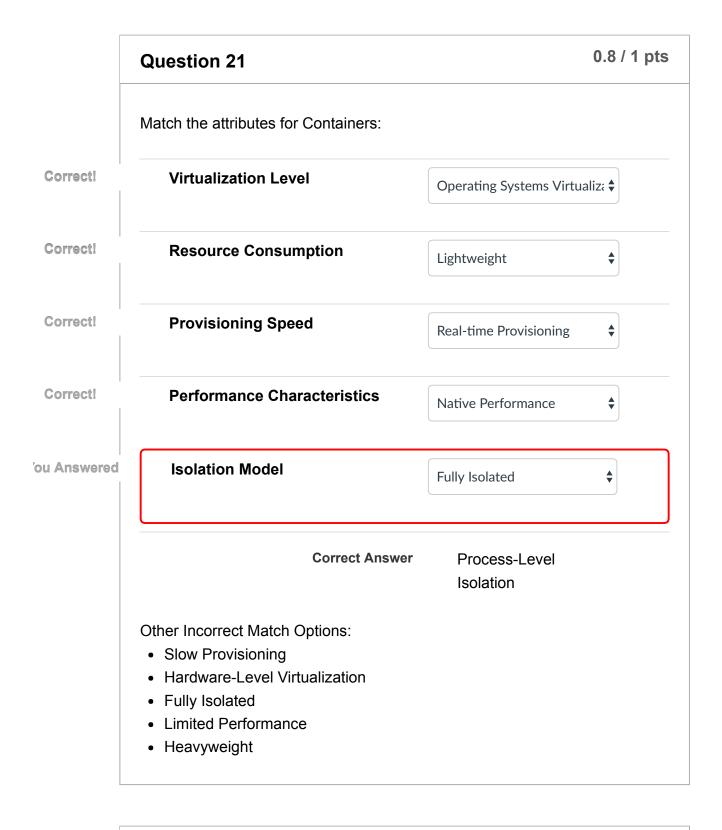
	Question 16	0.5 / 2 pts
	Select the ways discussed in the course text on how to manage "D State":	istributed
orrect Answer	☐ State sharded and replicated	
orrect Answer	Queries for state deleated from master server to reply servers	
orrect Answer	Store on one machine	
	State transfered to browser client	
Correct!	State sharded with cached data	

	Question 17) / 2 pts
	In the MSDN Paper, the Three Approaches to Managing Multi-Tenan Discussed were:	
	Scalable, Configurable and Multi-Tenant-Efficient	
ou Answered	Separated Database, Separate Schema and Shared Schema	
	Preallocated Fields, Name-Value Pairs, Custom Columns	
Dedicated, Shared with Fixed Extension Set, Shared with Custom Extens None of these		ons

Correct!	Question 18	2 / 2 pts
	A feature toggle is the ability for a release of a feature to be rolled-production only for specific tenants.	out into
	• True	
	○ False	

	Question 19	2 / 2 pts
	Which of the following is NOT a Cloud Enabling Technology?	
	 Virtualization 	
	O Web Technology	
	Multi-Tenant Technology	
	Service-Oriented Architecture (SOA)	
Correct!	Cloud Security	

	Question 20 2 / 2 pts	>
	Steal time is the time a Tenant VM on shared hardware loses to another VM due to over commits.	
Correct!	• True	
	○ False	



Question 22 1 / 1 pts

Select the appropriate sequence of commands to clean-up your Docker Host by removing all Containers and locally downloaded Images:

Correct!

docker stop \$(docker ps -a -q); docker rm -f \$(docker ps -a -q); docker rmi \$(docker images -q)

docker rm -f \$(docker ps -a -q); docker stop \$(docker ps -a -q); docker rmi \$(docker images -q)

docker rmi \$(docker images -q); docker stop \$(docker ps -a -q); docker rm -f \$(docker ps -a -q)

docker stop \$(docker ps -a -q)

docker stop \$(docker ps -a -q); docker rmi \$(docker images -q); docker rm -f \$(docker ps -a -q)

Question 23 1 / 1 pts

The "FROM" directive below in a Dockerfile tells Docker to build an image based on the "openjdk" image.

FROM openjdk

CMD ["java", "-version"]

Correct!

True

False

Question 24

1 / 1 pts

Docker Hub is a Repository for Sharing Docker Images

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Correct!	True	
	O False	
	Question 25	0 / 1 pts
	To build a Docker image, the following is needed:	
ou Answered	✓ Makefile	
'ou Answered	☑ Gradle Build	
Correct!	✓ Dockerfile	
	□ Docker Run Command	
	Question 26	1 / 1 pts
	CQRS stands for: Command Query REST Service	
	O True	
Correct!	False	
	Question 27	1 / 1 pts
	The following REST API is consider what type of API ac	ccording to

```
FORMAT: 1A
HOST: http://restbucksapi.apiblueprint.org/
# RestBucks API
Example from REST in Practice Book
## Orders [/order]
### Get All Orders [GET]
+ Response 200 (application/json)
     [
       {
          "id": 1
          "location": "takeAway",
          "items" : [
            "item": {
               "name: "latte",
               "quantity": 1,
               "milk": "whole",
               "size": "small"
            }
          ],
          "status": "pending"
     ]
### Create a New Order [POST]
+ Request (application/json)
     {
       "location": "takeAway",
       "item": {
          "name: "latte",
          "quantity": 1,
          "milk": "whole",
          "size": "small"
     }
```

```
+ Response 201 (application/json)
  + Headers
        Location: /order/1
  + Body
        {
          "id": 1,
          "location": "takeAway",
          "items" : [
             "item": {
               "name: "latte",
               "quantity": 1,
               "milk": "whole",
               "size" : "small"
             }
          ],
          "status": "pending"
        }
## Order [/order/{id}]
### Get Order by ID [GET]
+ Response 200 (application/json)
 + Attributes (object)
     + id: 1 (number)
 + Body
          "id": 1,
          "location": "takeAway",
          "items" : [
             "item": {
               "name: "latte",
               "quantity": 1,
               "milk": "whole",
```

```
"size" : "small"
             }
          ],
          "status": "pending"
       }
### Update Order by ID [PUT]
+ Request (application/json)
     {
        "location": "takeAway",
        "item": {
          "name: "cappuccino",
          "quantity": 1,
          "milk": "skim",
          "size" : "large"
       }
     }
+ Response 200 (application/json)
 + Attributes (object)
     + id: 1 (number)
 + Body
          "id": 1
          "location": "takeAway",
          "items" : [
             "item": {
               "name: "cappuccino",
               "quantity": 1,
               "milk": "skim",
               "size" : "large"
          "status": "preparing"
```

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	### Delete Order by ID [DELETE]
Correct!	+ Response 204 (application/json)
	O Hypermedia
	CRUD API
	O SOAP API
	O Richardson Level 0

In Distributed Transactions, there are not ACID / Data Locks and thus it is not possible to rollback changes across multiple nodes. As such, we can use Sagas, which accomplishes this goal using what approach? Enter your answer in "lower case" with not leading/trailing spaces and only one space in between words (if any) orrect Answers compensating transaction routing slip compensation compensation

Question 29

0 / 1 pts

Microservices are Distributed and Share Nothing Architectures.

orrect Answer	○ True	
'ou Answered	False	

	Question 30	1 / 1 pts
Correct!	Event Sourcing stores "Facts" and not "State". State is derived from of "Facts".	n the set
	• True	
	○ False	

Question 31	2 / 2 pts
The following two Go import syntax do the	same thing:
<pre>import ("fmt"</pre>	
"math"	
)	
<pre>import "fmt" import "math"</pre>	
• True	
O False	
raise	

Correct!

Question 32 Exported functions in Go Packages are named with a beginning lowercase letter. Ou Answered True False

Question 33 2 / 2 pts Go has two types of loops: 1) For Loops 2) Until Loops True False

```
Question 34

O / 2 pts

The "i := 1" declares a variable similar to "var a int" below and is valid Go
syntax

package main
import "fmt"
i := 1
func main() {
  var a int
```

```
fmt.Println(a)
               }
'ou Answered
                  True
orrect Answer
                  False
```

0 / 2 pts **Question 35**

Which of the following line number will cause a Go Compiler Error?

```
1: package main
2:
3: import (
4:
       "fmt"
5:
       "math"
6: )
7:
8: func pow(x, n, lim float64) float64 {
       if v := math.Pow(x, n); v < lim {
10:
            return v
       }
11:
12:
       else {
           fmt.Printf("%g >= %g\n", v, lim)
13:
14:
       return lim
15:
16: }
17:
18: func main() {
       fmt.Println(
19:
20:
            pow(3, 2, 10),
            pow(3, 3, 20),
21:
22:
       )
23: }
```

0 11

0 10

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	O 3		
ou Answered	20		

Quiz Score: 31.1 out of 50