NOTE: this is the SOLUTION to Quiz 10.

The correct answers are indicated for each question, with explanations as needed.

Dr. Manikas

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1   4 / 4 points

The cloud computing characteristic where services or data are available from anywhere is called _____

○ Local

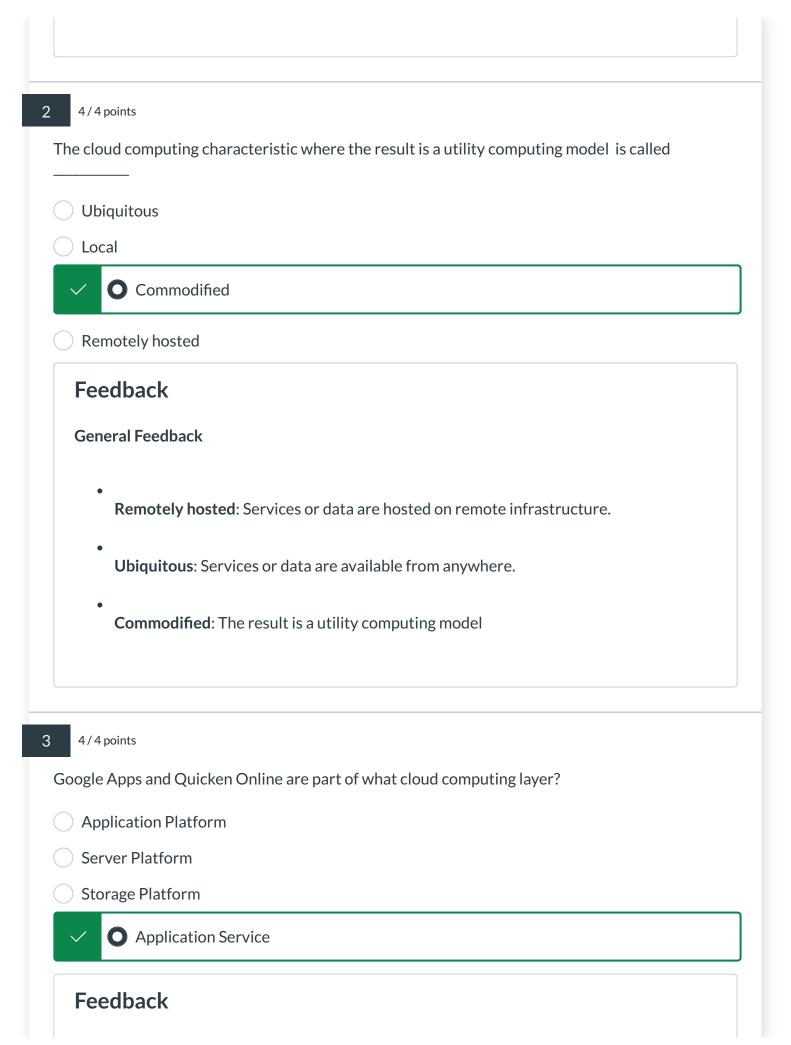○ Remotely hosted

✓ ● **Ubiquitous**

○ Commodified

Feedback

General Feedback

- **Remotely hosted**: Services or data are hosted on remote infrastructure.

- **Ubiquitous**: Services or data are available from anywhere.

- **Commodified**: The result is a utility computing model

2   4 / 4 points

The cloud computing characteristic where the result is a utility computing model is called
_____

○ Ubiquitous

○ Local

✓ ● Commodified

○ Remotely hosted

Feedback

General Feedback

- **Remotely hosted**: Services or data are hosted on remote infrastructure.

- **Ubiquitous**: Services or data are available from anywhere.

- **Commodified**: The result is a utility computing model

3   4 / 4 points

Google Apps and Quicken Online are part of what cloud computing layer?

○ Application Platform

○ Server Platform

○ Storage Platform

✓ ● Application Service

Feedback

Application Service (SaaS)	MS Live/ExchangeLabs, IBM, Google Apps; Salesforce.com Quicken Online, Zoho, Cisco
Application Platform	Google App Engine, Mosso, Force.com, Engine Yard, Facebook, Heroku, AWS
Server Platform	3Tera, EC2, SliceHost, GoGrid, RightScale, Linode
Storage Platform	Amazon S3, Dell, Apple, ...

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4   4 / 4 points

Amazon S3 is part of what cloud computing layer?

◯ Server Platform

✓ ⦿ **Storage Platform**

◯ Application Service

◯ Application Platform

Feedback

General Feedback

Application Service (SaaS)	MS Live/ExchangeLabs, IBM, Google Apps; Salesforce.com Quicken Online, Zoho, Cisco
Application Platform	Google App Engine, Mosso, Force.com, Engine Yard, Facebook, Heroku, AWS
Server Platform	3Tera, EC2, SliceHost, GoGrid, RightScale, Linode
Storage Platform	Amazon S3, Dell, Apple, ...

5   4 / 4 points

For machine learning strategies, examples of **unsupervised** learning include:

- [x] ✓ Dimensionality Reduction Algorithms
- [x] ✓ Clustering Algorithms
- [ ] Regression Algorithms
- [ ] Classification Algorithms

Feedback

General Feedback

1. **Supervised Learning:** the training set contains data and the correct output of a given task with that data. Examples include:

    a. **Classification Algorithms:** training set is dataset and class of each piece of data. Computer learns how to classify new data.

    b. **Regression Algorithms:** predict a value of an entity's attribute.

2. **Unsupervised Learning:** the training set contains data, but no solutions. Examples include:

    a. **Clustering Algorithms:** training set is dataset covering various dimensions. The data are partitioned into clusters based on specified criteria.

    b. **Dimensionality Reduction Algorithms:** training set is also dataset covering various dimensions. The algorithm project the data to fewer dimensions, with

the goal of attempting to better capture the fundamental aspects of the original data.