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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Google Cloud Computing Foundations (course)

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Course outline

How does an NPTEL online course work?

Week 0: Welcome to the Course

Week 1: What's the cloud anyway? Start with a solid platform

Week 2: Use GCP to build your apps

Week 3 : Where do I store this Stuff?

● Introduction (unit?unit=49& lesson=50)

Assignment 3

The due date for submitting this assignment has passed.

Due on 2020-10-07, 23:59 IST.

Assignment submitted on 2020-10-07, 20:54 IST

1) Which of the following storage options is the best choice for storing unstructured data   **1 point**
like Image and web asset libraries?

○ Cloud Bigtable
○ Cloud Datastore
○ Cloud SQL
◉ Cloud Storage

Yes, the answer is correct.
Score: 1
Feedback:
Cloud Storage is an HTTPS-based object store that is ideal for unstructured storage.

Accepted Answers:
Cloud Storage

2) What is the largest object size that you can store in Cloud Storage?   **1 point**

○ Dependant on the storage class
○ 1 TB
○ Unlimited
◉ 5 TB

Yes, the answer is correct.
Score: 1
Feedback:
While Cloud Storage offers a virtually unlimited amount of storage, a single object has a limitation of 5 TB.
Accepted Answers:
5 TB

3) What Cloud Storage storage class would be an inexpensive option for backups that   **1 point**
you test once a month?

- ◉ Nearline
- ○ Coldline
- ○ Standard
- ○ Archive

Yes, the answer is correct.
Score: 1
Feedback:
Nearline storage is designed to provide inexpensive storage for items accessed no more than once a month. While the price for storing objects is cheaper than Standard, Nearline charges for access to storage.
Accepted Answers:
Nearline

4) Which of the following is SQL based storage service with the horizontal scalability   **1 point**
feature and is globally available?

- ○ Cloud Bigtable
- ◉ Cloud Spanner
- ○ Cloud Datastore
- ○ Cloud SQL

Yes, the answer is correct.
Score: 1
Feedback:
Cloud Spanner is unique in that it is a horizontally scalable, globally available database service offering up to five nines of availability.
Accepted Answers:
Cloud Spanner

5) Cloud Datastore is a NoSQL based managed service. Which statement best describes **1 point**
Cloud Datastore?

- ○ A relational database
- ○ A data warehouse
- ○ A sparse, wide-column database
- ◉ A document store

Yes, the answer is correct.
Score: 1
Feedback:

Cloud Datastore is a document store similar to a Mongo Database.

Accepted Answers:
A document store

6)   True or False. Cloud Spanner supports SQL skills to query the stored data.   *1 point*

⦿ True
○ False

Yes, the answer is correct.
Score: 1
Feedback:
*The answer is True. You can use existing SQL skills to query data in Cloud Spanner using
familiar, industry-standard ANSI SQL 2011*

Accepted Answers:
True

7)   Which of the following database engines does Cloud SQL support?   *1 point*

☐ DB2
☐ MongoDG
☑ SQL Server
☐ Oracle
☑ PostgreSQL

Yes, the answer is correct.
Score: 1
Feedback:
Cloud SQL supports PostgreSQL, MySQL, and SQL Server

Accepted Answers:
SQL Server
PostgreSQL

8)   Cloud Bigtable provides a NoSQL based managed service option. Which one of the   *1 point*
following is a valid use case for this service?

☑ A customer preferences for Marketing Data
☑ A backend for an Internet of Things (IoT) system.
☐ A transactional database for a bank.
☐ A data warehouse

Yes, the answer is correct.
Score: 1
Feedback:
*The sparse, wide table format and extremely low write latency of Cloud Bigtable makes it a great
option for fast streaming services like IoT, marketing data or graphical data storage.*

Accepted Answers:
A customer preferences for Marketing Data
A backend for an Internet of Things (IoT) system.

9)   Which of the following storage options is not a database?   *1 point*

○ Cloud SQL

○ Cloud Bigtable

○ Cloud Spanner

◉ BigQuery

Yes, the answer is correct.
Score: 1

Feedback:
BigQuery is the only option that is not a database. The backend of BigQuery is columnar storage.

Accepted Answers:
BigQuery

10) You have non-relational data and want a serverless database without having to worry   **1 point**
about nodes or cluster management. Which service would best

  suit your needs?

○ Cloud Datastore

◉ Cloud Bigtable

○ Cloud Spanner

○ Cloud SQL

No, the answer is incorrect.
Score: 0

Feedback:
Cloud Datastore is the only option that does not require the construction of a server.

Accepted Answers:
Cloud Datastore