



Google Cloud Computing

(Jul-Oct 2024)

Assignment- Week 7

TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 X 1 = 10

QUESTION 1:

Which cloud service provides a centralized platform for monitoring and managing resources in Google Cloud Platform (GCP)?

- a) Cloud Functions
- b) Cloud Pub/Sub
- d) Cloud Storage
- c) Cloud Monitoring

Correct Answer: (d)

Detailed Solution: Cloud Monitoring is the cloud service in Google Cloud Platform (GCP) that provides a centralized platform for monitoring and managing resources.

QUESTION 2:

Stackdriver is a _____ provided by Google Cloud Platform for monitoring, logging, and _____ of applications and infrastructure.

- a) programming language, debugging
- b) cloud service, management
- c) database, scaling
- d) virtual machine, deployment

Correct Answer: (b)

Detailed Solution: Stackdriver is a cloud service provided by Google Cloud Platform (GCP) for monitoring, logging, and management of applications and infrastructure. It offers tools and features for collecting and analyzing metrics, monitoring logs, setting up alerting policies and creating dashboards for visualizing the health and performance of GCP resources. Stackdriver helps users gain insights into their applications and infrastructure, enabling effective management and troubleshooting.

QUESTION 3:

Which cloud service provides a fully managed big data processing and analytics platform?

- a) Cloud Storage
- b) Cloud Spanner
- c) BigQuery



d) Cloud Pub/Sub

Correct Answer: (c)

Detailed Solution: BigQuery is a fully managed big data processing and analytics platform provided by Google Cloud. It allows you to analyze large datasets using SQL queries and provides high-performance querying capabilities.

QUESTION 4:

Which of the following are features of Cloud Dataproc?

- a) Fully managed Apache Hadoop and Apache Spark service
- b) Auto-scaling to handle varying workloads
- c) Integrated machine learning capabilities
- d) Real-time data streaming

Correct Answer: (a) and (b)

Detailed Solution: Cloud Dataproc is a fully managed service provided by Google Cloud for running Apache Hadoop and Apache Spark clusters. It automates the provisioning, management, and scaling of these clusters, allowing you to focus on your data processing and analytics tasks. Auto-scaling is a feature of Cloud Dataproc that dynamically adjusts the cluster size based on the workload, ensuring optimal resource utilization and cost efficiency.

QUESTION 5:

What is the storage format used by BigQuery for storing data?

- a) JSON (JavaScript Object Notation)
- b) Parquet
- c) Avro
- d) Columnar storage

Correct Answer: (d)

Detailed Solution: BigQuery uses a columnar storage format to store data, which provides efficient compression and query performance for analytical workloads. This format stores data in columns rather than rows, allowing for efficient filtering and aggregation operations.

QUESTION 6:

What is YAML?

- a) YAML is a human-readable data serialization language.
- b) YAML is a programming language.
- c) YAML is a markup language.
- d) YAML is a configuration file format.

Correct Answer: (a)

Detailed Solution: YAML is a human-readable data serialization language that is often used for writing configuration files.



QUESTION 7:

Which of the following is NOT a feature of Stackdriver?

- a) Monitoring
- b) Logging
- c) Error reporting
- d) Tracing

Correct Answer: (c)

Detailed Solution: Error reporting. Stackdriver provides monitoring, logging, and tracing, but not error reporting.

QUESTION 8:

Which big data managed service is used to analyze streaming data in real time?

- a) Cloud Dataproc
- b) Cloud Dataflow
- c) BigQuery
- d) None of the above

Correct Answer: (b)

Detailed Solution: Cloud Dataflow is a fully managed service for executing Apache Beam pipelines within the Google Cloud Platform ecosystem. It can be used to process both batch and streaming data, and it supports a variety of programming languages, including Python, Java, and Go.

QUESTION 9:

Which of the following is the main purpose of BigQuery?

- a) To store and analyze large amounts of data very quickly.
- b) To provide a Hadoop-based data warehouse.
- c) To provide a NoSQL database.
- d) To provide a relational database.

Correct Answer: (a)

Detailed Solution: To store and analyze large amounts of data very quickly. BigQuery is a very powerful tool for analyzing large amounts of data, and it can be used to answer a wide variety of questions.

QUESTION 10:

Which of the following is NOT a characteristic of a data warehouse?

- a) It is a collection of data from different sources.



- b) It is stored in a way that makes it easy to analyze.
- c) It is designed to store historical data.
- d) It is updated in real time.

Correct Answer: (d)

Detailed Solution: It is updated in real time. A data warehouse is typically updated on a regular basis, but it is not updated in real time.

NPTEL