Module 2

**4.**

Question 4

Which file contains the definition of libraries and dependencies for a Docker image?

0 / 1 point

Configuration file.

Dockerfile.

Requirements file.

Application file.

Incorrect

The requirements file in a Docker image contains the definition of libraries and dependencies required for the application, ensuring that the necessary components are installed within the image.

**14.**

Question 14

What is the benefit of using a canary testing strategy in traffic splitting?

0 / 1 point

It increases application availability.

It increases deployment risk.

It eliminates service interruption.

It allows testing in new containers separately.

Incorrect

The canary testing strategy used in traffic splitting eliminates service interruption for failure or success, allowing for live testing of new containers without impacting the overall availability of the application.

Serverless Computing Innerworkings and Benefits Quiz

**1.**

Question 1

Containers are considered a better option for which type of microservices architecture?

0 / 1 point

Stateful functions.

Short-lived tasks.

Functions with indefinite start/end states.

Stateless functions.

Incorrect

Containers are better options for stateful functions because they can maintain the state information across multiple sessions or transactions, which is necessary for some types of applications.

Module 4

**10.**

Question 10

Why might someone choose to build their DBMS Platform on a Virtual Machine instead of using Amazon RDS?

0 / 1 point

Their preferred database is fully supported by RDS.

They require a less secure environment.

They need automatic database management features.

They require less control over their database.

Their preferred database is not available under RDS.

Incorrect

One might opt for a Virtual Machine when the preferred database management system is not available under Amazon RDS, necessitating a more customizable environment.

Module 5

**9.**

Question 9

What is the primary advantage of HTTP APIs compared to RESTful APIs?

0 / 1 point

They require additional development effort.

They offer more advanced functionality.

They are the standard way of structuring requests.

They provide better and granular control over requests and responses.

They are designed for the lowest cost and lowest latency.

Incorrect

HTTP APIs are non-RESTful and are designed to simplify the development of APIs with a focus on minimizing costs and reducing latency, making them an efficient choice for certain use cases.

**4.**

Question 4

What advantage do RESTful APIs have over non-RESTful APIs like HTTP APIs?

0 / 1 point

More advanced functionality and features for information exchange.

Lower cost.

Lower latency.

Simplified development process.

Standardized structuring of requests.

Incorrect

RESTful APIs offer better and more granular control over API requests and responses, and they support more advanced functionality and features for information exchange compared to non-RESTful APIs such as HTTP APIs.

Architecture of Communication and Integration Between Various PaaS Using APIs and API Gateways Quiz

**3.**

Question 3

What advantage do RESTful APIs have over non-RESTful APIs like HTTP APIs?

0 / 1 point

Lower latency.

Standardized structuring of requests.

More advanced functionality and features for information exchange.

Simplified development process.

Lower cost.

Incorrect

RESTful APIs offer better and more granular control over API requests and responses, and they support more advanced functionality and features for information exchange compared to non-RESTful APIs such as HTTP APIs.

Foundational Concepts for Machine Learning Process and Platforms Quiz

**1.**

Question 1

What is a common challenge faced when dealing with dataset preparation for machine learning?

0 / 1 point

Complexity and volume of the data.

Lack of available datasets.

Ensuring data privacy.

Finding suitable storage for data.

Consistency in data formatting.

Incorrect

Dataset challenges in machine learning often include dealing with the complexity and volume of data, and variability and relationships within the data. These factors can complicate the data preparation process.

Module 6

**5.**

Question 5

What is a common use case for Text to Speech platforms?

0 / 1 point

Robocalls and RoboNEWS.

Generating printed newspapers.

Writing academic papers.

Voice search on the internet.

Conducting online surveys.

Incorrect

Text to Speech platforms are often utilized for creating automated voice messages like Robocalls and for reading news articles aloud in the form of RoboNEWS.

**1.**

Question 1

What scale is preferred for parameter values during ML model tuning?

0 / 1 point

Logarithmic scales.

Quadratic scales.

Linear scales.

Exponential scales.

Incorrect

Using linear scales where possible is preferred during the tuning of ML models. Linear scales make it easier to understand the relationship between parameter values and model performance.

Module 8

**6.**

Question 6

Which of the following is NOT a content distribution option in CDN design?

0 / 1 point

Content Expiring logic

Bandwidth allocation

User Types

Locations

TTL

Incorrect

Bandwidth allocation is not explicitly mentioned as a content distribution option in the given text about CDN design. The options provided are Locations, User Types, and Content Expiring logic.