DP-100 Study Guide, DP-100 Exam Questions And Answers

Question: 10

You are monitoring a web application using Prometheus. You want to track the number of successful and failed login attempts over time. Which of the following Prometheus query approaches would be most effective to achieve this?

A. Use a counter metric for both successful and failed login attempts, and increment the counter for each event.
B. Use a gauge metric for both successful and failed login attempts, and set the gauge value to 1 for each event.
C. Use a histogram metric to track the distribution of login attempts based on their success or failure.
D. Use a summary metric to track the average and quantiles of successful and failed login attempts.
E. Use a separate metric for successful and failed login attempts, with a counter for each metric incremented accordingly.

Answer: E

Explanation:
Option E is the most effective approach. Using separate counter metrics for successful and failed login attempts allows you to track both types of events independently and provides accurate counts over time. Counters are suitable for counting events and can be reset, making them ideal for tracking the total number of successful and failed login attempts.

Question: 11

You are setting up a Prometheus exporter for a custom application. The application emits logs in JSON format, and you want to extract specific metrics from the logs using a regular expression. How would you configure the Prometheus exporter to achieve this?

A. Use the '—text.file.collector' flag with the Prometheus exporter, specifying the log file and a regular expression to extract metrics.
B. Use the '—json.file.collector' flag with the Prometheus exporter, specifying the log file and a regular expression to extract metrics.
C. Use the '—log.collector' flag with the Prometheus exporter, specifying the log file and a regular expression to extract metrics.
D. Use a dedicated log processing tool like Fluentd or Logstash to extract metrics from the JSON logs and send them to Prometheus.
E. Configure Prometheus to directly read the JSON logs using the '—remote.write' flag and define custom metrics based on the log data.

Answer: D

Explanation:
Option D is the most appropriate solution. Using a dedicated log processing tool like Fluentd or Logstash allows you to efficiently extract metrics from JSON logs and send them to Prometheus. These tools offer

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q518-Q523):

NEW QUESTION # 518
You create machine learning models by using Azure Machine Learning.
You plan to train and score models by using a variety of compute contexts. You also plan to create a new compute resource in Azure Machine Learning studio.
You need to select the appropriate compute types.
Which compute types should you select? To answer, drag the appropriate compute types to the correct requirements. Each compute type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation

Box 1: Attached compute
Box 2: Inference cluster
Box 3: Training cluster
Box 4: Attached compute

NEW QUESTION # 519
You have a binary classifier that predicts positive cases of diabetes within two separate age groups.
The classifier exhibits a high degree of disparity between the age groups.
You need to modify the output of the classifier to maximize its degree of fairness across the age groups and meet the following requirements:
* Eliminate the need to retrain the model on which the classifier is based.
* Minimize the disparity between true positive rates and false positive rates across age groups.
Which algorithm and panty constraint should you use? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 520
You need to configure the Edit Metadata module so that the structure of the datasets match. Which configuration options should you select? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 521
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You create an Azure Machine Learning service datastore in a workspace. The datastore contains the following files:
/data/2018/Q1.csv
/data/2018/Q2.csv
/data/2018/Q3.csv

/data/2018/Q4.csv
/data/2019/Q1.csv
All files store data in the following format:
id,f1,f2,I
1,1,2,0
2,1,1,1
3,2,1,0
4,2,2,1
You run the following code:
☐
You need to create a dataset named training_data and load the data from all files into a single data frame by using the following code:
☐
Solution: Run the following code:
☐
Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:
Use two file paths.
Use Dataset.Tabular_from_delimeted as the data isn't cleansed.
Note:
A TabularDataset represents data in a tabular format by parsing the provided file or list of files.
This provides you with the ability to materialize the data into a pandas or Spark DataFrame so you can work with familiar data preparation and training libraries without having to leave your notebook. You can create a TabularDataset object from .csv, .tsv, .parquet, .jsonl files, and from SQL query results.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-register-datasets

NEW QUESTION # 522
You use Azure Machine Learning Designer to load the following datasets into an experiment:
Data set 1
☐
Dataset 2
☐
You need to create a dataset that has the same columns and header row as the input datasets and contains all rows from both input datasets.
Solution: Use the Apply Transformation component.
Does the solution meet the goal?

- A. No
- B. Yes

Answer: A

NEW QUESTION # 523
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You should also keep in mind that to get success in the Microsoft DP-100 exam is not an easy task. The Microsoft DP-100 certification exam always gives a tough time to their candidates. So you have to plan well and prepare yourself as per the recommended DP-100 Exam study material.

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